

~~Part 2~~ 290

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,552

APPENDIX 2

IDEN680201KERR KS-0628QWL29JUL90CCCVKHJTHJUL90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 4570MT 182.85090.00-60.00 9697.00 9458.00 1777.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM

S001 4570 13650 182.85082.00-61.00
 S002 13650 18285 182.85083.00-54.20

A003
 AUMM MAG

P 000 610 OVBD

L
 R OVBD- BASE OF CASING, LEDGE NOT NOTED

P 610 1305 OXTXFL P) O(<< B) MN
 L <+ C(

R FINE TO APHINITIC, LIGHT GREY TO GREY GREEN MATRIX WITH SOFT
 R MEDIUM GREEN PHENOCRYSTS 1-2 MM, GENERALLY LATH FORM, HSUBHEDRAL
 R 7-10% H=2 TO 3 FOR PHENOCRYSTS; (TALC?) ROCK IS WEAKLY ALTERED
 R TO FRESH, CORE BROKEN AND BLOCKY- STRONG OXIDE STAINING ON
 R FRACTURES, WITH BLACK/BROWN MANGANESE STAINING, CALCITE FRACTURE
 R INFILLING. DACITIC IN COMPOSITION.

	From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Ag ppm	Pb ppm	Zn ppm
				(dupl)	(dupl)	(dupl)			
A001	6.10	9.14	58076	.016	.060		0.9	15	135
A001	9.14	13.05	58077	.024	.170		1.0	10	124
A001	13.05	14.40	58078	.058	.260		15.0	23	102
A001	14.40	15.24	58079	2.260	2.1800	5.210	4.820	390.0	364 1200

D 610 914 61 X 010

L 17R2 91 843

D 914 1305 90 X 011

L 14R2 121 744

P 1305 3130 BD5TFAH P=E(D+ <-
 L <= <<(

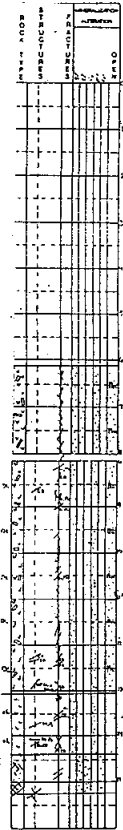
R V.F.GR. GRAINED TO APHANATIC; MED TO LIGHT GREY TO YELLOW GREEN;
 R COMPETENT; LOCALLY HIGH DENSITY OF FINE MICROFRACTURES, HEALED,
 R MANGANESE WITH OXIDE STAINING ON FRACTURES, NOTE DENDRITIC
 R TEXTURE ALONG FRACTURES, LOCALLY 'VUGGY' CAVITIES POSSIBLY DUE
 R TO DISSOLUTION OF CARBONATES, MOVEMENT ON FRACTURE OFFSETTING
 R OF CALCITE INFILLING; BEDDING PRESENT, @ 35 DEGRRES CA, LOCALLY
 R GRADED AND VARYING AMOUNTS OF V. F. GR. PY BEDDING OFFSET BY
 R BY FRACTURES @ 60 DEGREES CA FINE, AGGREGATES OF PYRITE
 R DISSEMINATED IN CORE 2-3%, LOCALLY LEACHED, CLUSTERS TO 0.5MM.

D 1305 1440 74 X 011

L 50R3 230

N 1440 1524 100S18BRXX 010 +=J+ Q*Q2
 L 85R3

R QUARTZ INFILLED BRECCIA WITH 2NDRY QTZ + PY +(CP)
 R ((V.F.GR. METALLIC)) CROSSCUTTING BRECCIA, FOLLOWED BY QZ + PY
 R +(CP) +(METALLIC) MINERALIZATION. CP AS 'PATCHY' AGGREGATE
 R AND LOCALLY RIMMING QTZ. BRECCIA FRAGMENTS INCLUDE DACITE PORPH





R + ASH TUFF.
 M 1524 1580 100VVXFXL 042
 L 97R2 131
 R STR. FRACT. ZONE- HEALED, INCREASE FRACT. TO BASE, CHL ON
 R FRACTURE PLANES LOCALLY SSL @ 40 DEGREES CA, QTZ VEIN/
 R INFILLING WITH 2NDY PY VEIN. LATE PY VEIN 60 DEGREES CA
 R MINOR CP. NOTE 4 CM WIDE BAND MASSIVE PYRITE, LOCALLY VUGGY
 R TEXTURE. LOSS OF SULPHIDES STR. LIMONITE COATING UPPER CONTACT
 R ~ 70 DEGREES CA +/- CHLORITE.
 N 1580 1630 100SK7MSSX P2C) D+ V1
 L 30R2 V* V2
 R STR. ALTERED FRACTURE ZONE- UPPER CONTACT @ 30 DEGREES, CORE
 R Pervasively clay altered highly fractured with pyrite veining
 R 'PITTED' texture to py- locally str. limonite/jarosite, lower
 R contact @ 16.15M below 3 cm massive band py @ 50 degrees CA,
 R QTZ vein @ 16.2-16.25, str. fractured with infilling, pyrite,
 R vuggy-pitted texture.
 D 1630 1900 92 X 000
 L OR2 342
 R STR. MANGANESE ST. ON FRACTURES, LOCALLY 'EARTHY' texture,
 R PROMINENT FRACTURE SYSTEM, 30-35 DEGREES CA, DENSITY ~1/10 CM,
 R 2NDY @75 DEGREES CA, 0.5/10CM. 16.30-16.80- BROKEN BLOCKY CORE
 R CLAY ALTERED, STR. MANGANESE, PY XLS. OXIDIZED, LEAVING F. GR.
 R PITS. 16.80-17.50- MOD-WEAK ALTERED, HEALED FRACTURES. 17.50-
 R FINE, 'WISPY', GREEN MALACHITE STAINING AND 'VUG' INFILLING.
 D 1900 2134 100 X 124
 L 72R2 343
 N 2134 2400 75MNXTFXL 000 P+ C- D1 MC
 L 10R3 213 232 Q-
 R BLOCKY TO BROKEN, FRACTURED CORE, V.F.GR. TO F. GR.; LIGHT TAN
 R TO LIGHT GREY GREEN, EXTENSIVE MANGANESE STAINING OR FRACTURE
 R PLANES AND EXTENDING INTO CORE 2MM TO 1 CM, LOCALLY PERVASIVE,
 R MED. TO DK GREEN PHENOCRYSTS 7-10%, DECREASING AT DEPTH,
 R TRACE GLASS SHARDS AND MINOR LITHIC FRAGMENTS- 2-3MM IN SIZE
 R FINE HAIRLINE FRACTURES GENERALLY MANGANESE STAINED, LOCALLY
 R IRON OXIDE STAINED RED/BROWN, MINOR PYRITE, OVER 10 CM WIDE
 R SECTION, DENSITY OF 6 FRACTURES/10 CM LOCALIZED PATCHY
 R MALACHITE STAINING ~TR TO 1%
 D 2400 2830 93 X 110
 L OR2 221
 R 2400 2540 MANGANESE STAINING ON FRACTURE PLANES AND DENDRITIC texture
 R PARALLELING FRACTURES-0.5 TO 1.5 CM MARGINS LOCALIZED MALACHITE
 R PATCHY, LOCALLY COATING MANGANESE VUGS.
 R 2785 2788 PATCHY MALACHITE STAINING IN CORE- BOUND BY MANGANESE. *MARINE
 R BLUE "PATCH" 3MM(AZURITE?)

A001	15.24	15.80	58080	1.320	2.700	2.850	420.0	60	365
A001	15.80	16.30	58081	5.480	5.4800	17.600	16.800	1220.0	164 1620
A001	16.30	19.00	58082	.112	.050			3.5	20 157
A001	19.00	21.34	58083	.083	.160			3.5	15 97
A001	21.34	24.00	58084	.099	.150			1.9	9 110
A001	24.00	28.30	58085	.073	.060			2.0	8 86

N 2830 2920 100SEXTFLP 000 P1 D+ D+ <<
 L 20R2 321
 R LIGHT GREEN-GREY TO YELLOW TAN, ABUNDANT ANGULAR FRAGMENTS 4MM
 R TO 6 CM IN LENGTH OF BEDDED ASH TUFF IN WKLY ALTERED FINE
 R GRAINED PORPHYRITIC UNIT, PHENOCRYSTS ARE ANHEDRAL, FELSIC
 R AND SERITICIZED TO F. GR. SUBHEDRAL CHLORITIZED (LIKELY DACITE
 R PORPHYRY) SECTION IS EXTENSIVELY FRACTURED WITH STR. TO V STR.
 R MANGANESE STAINING ON FRACTURES, LOCALLY OXIDE + JAROSITE ON
 R PLANE FRACTURES. NO ZONING, SHADOWS OR LOCALIZED TEXTURE
 R ASSOCIATED WITH FRAGMENT BOUNDARIES.

D 2920 3130 76 8
 L OR2

R 3000 3025F. GR. LIGHT GREY DACITE WITH CHLORITIC PHENOCRYSTS=-/ FELSIC
 R 'BLEBS'(FRAGMENTS) SAME AS MATRIX IN LAPILLI TUFF- FRACTURED
 R WITH MANGANESE STAINING. LEACHED 'VUGGY' TEXTURE ON FRACTURE
 R PLANES.

A001	28.30	29.20	58086	.068	.100	1.7	6	100
A001	29.20	31.30	58087	.041	.100	0.9	13	81
A001	31.30	36.15	58088	.039	.130	0.7	6	118
A001	36.15	38.90	58089	.033	.050	0.4	8	103
A001	38.90	42.67	58090	.017	.100	0.5	27	87
A001	42.67	45.72	58091	.013	.070	0.3	9	66
A001	45.72	49.20	58092	.015	.210	0.4	11	98
A001	49.20	53.00	58093	.014	.050	0.3	7	40
A001	53.00	56.81	58094	.015	.050	0.3	8	52

P 3130 3890 FLBTFLX P+ Q) B)
 L 335

R LIGHT YELLOW GREEN TO LIGHT GREEN GREY; PORPHYRITIC, FELSIC
 R PHENOCRYSTS OF QTZ AND FELDSPAR 2.0 TO 4.0MM, PERCENTAGE
 R PHENOCRYSTS-10-15%, GROUND MASS V. F. GR. TO F. GR., WKLY
 R FLOW BANDED, CONTAINS QTZ AND MAFICS (HBLD), BROKEN,
 R BLOCKY CORE, LOCALLY GROUND, EXTENSIVE MN STAINING ON FRACTURES,
 R CONTACTS LOST IN BROKEN CORE.

D 3130 3565 66 X 000
 L OR2 335 87

R 3565 3615 FRACTURED, RELATIVELY COMPETENT UNIT OF DCP, GREEN/GREY WITH
 R CHLORITIC PHENOCRYSTS 1-2MM SCALE, 15%, SIMILAR GROUNDMASS
 R TO THAT OF PRINCIPLE UNIT, NO VISIBLE CONTACTS.

D 3615 3890 90 8 000
 L OR2 366 676

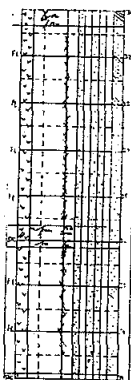
P 3890 4267 73BK9TFLX 010 P+ H= D*
 L OR2 372 C)

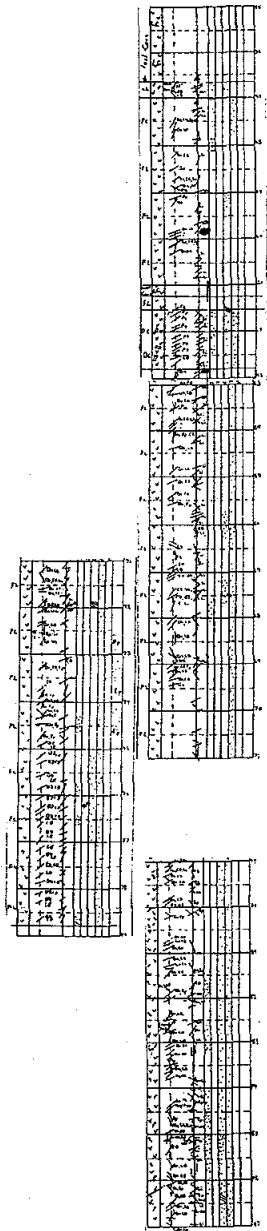
R BLOCKY TO BADLY BROKEN CORE, STR. MANGANESE AND OXIDE STAINING
 R ON FRACTURE SURFACES. LOCALLY BLUE GREY SUBMETALLIC COATING ON
 R PLANES WITH MANGANESE (MANGANITE)VV WEAKLY MAGNETIC, LOCALLY
 R FIBROUS, DACITIC.

R 3900 4000V. STR. BROKEN TO RUBBLE, EXTENSIVE MANGANESE+ OXIDE STAINING,
 R ASSOCIATED WITH SHEAR.SSL ON PLANE @ 60 DEGREES, LIMONITE CLAY
 R GOUGE.

P 4267 5700 VF7TFAH P= E- D) <<
 L E(<< G< <.

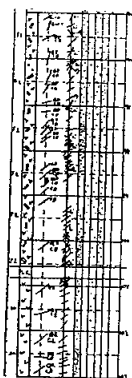
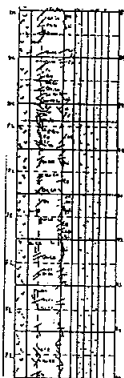
R V.FRAG. TO APHANITIC ASH, GREEN/GREY TO BROWN GREY BECOMING TAN
 R GREY WHERE ALTRERED; TOP OF UNIT IS BLOCKY 7-10 CM UNITS,
 R BECOMES BADLY BROKEN RUBBLE AT DEPTH. DISSEM. F. GR. PY FRESH





R IN TOP OF UNIT, BECOMING OXIDIZED AND LEACHED AT DEPTH.
 R FRACTURES OXIDIZED RED/BROWN (LIMONITE) LOSE MANGANESE. MINOR
 R QTZ/CARBONATE MICROVEINS, LOCALLY BEDDING PRESERVED IN ASH @
 R 5-10 DEGREES CA, PYRITE ASSOCIATED WITH V. F. GR. UNITS, TRACE
 R VISIBLE IN APHANETIC ZONES. LOCALLY- V.F. CHLORITE ENVELOPES ON
 R QTZ MICROFRACTURES <1MM SCALE @ 43.8 M O DEGREES CA.
 D 4267 4572 72 X 321
 L OR2 442
 R EXHIBITS LAMINATION, (BEDDING) F. GR. DISSEM. PY
 N 4572 4920 59BIXTFXL 111 P) H+ D-
 L OR2 231 <-
 R F.G. TO V.F.GR. GROUND MASS WITH DARK GREEN PHENOCRYSTS 1-2MM
 R ,~10% PHENOCRYST, LOCALLY BROKEN TO RUBBLE WITH INCREASE
 R SERICITE ALTERATION, AND OXIDE/LIMONITE ON FRACTURES, WEAK FLOW
 R DIRECTION -30 DEGREES CA, SEE PREVIOUS UNIT @ 38.9-42.67 M.
 R DACITIC IN COMPOSITION.
 D 4920 5300 49 X 010
 L OR2 887
 D 5300 5681 20 X 010
 L OR2 674
 R 5680 5681THIN COATING OF ANHYDRITE? ON FRACTURE PLANE ASSOCIATED WITH
 R MANGANESE AND OXIDE STAINING.
 P 5700 7880 FL9TFXL Q-E-H-E*B* <-
 L E.<= <=
 R MED GREY TO LIGHT GREEN-GREY, FINE TO VERY FINE GROUNDMASS
 R WELDED QTZ-FELDSPAR AND MAFICS (7-10% HBLD?) WITH
 R PHENOCRYSTS OF QTZ (~10%) AND FELDSPAR (90%)RANGE FROM
 R 2.0 TO 5.0 MM, EUHEDRAL TO ANHEDRAL LATHS, OCCASONALLY ZONED;
 R VARYING CONCENTRATION OF PHENOCRYSTS LOCALLY CORE IS COMPETENT
 R TWO TYPES OF VEIN/FRACTURE INFILLING, EVIDENCE OF BOTH
 R CROSSCUTTING THE OTHER;- WHITE QTZ-CARBONATE WITH HARD, F.GR.
 R EPIDOTE + QTZ MARGINS @ 10-20 DEGREES CA + 80 DEGREES CA, LOW
 R FREQUENCY, 1 PER 2 LM - CROSSCUT AND LOCALLY OFFSET BY WHITE QTZ
 R /CALCITE VEINING (QUARTZ WITH CARBONATE MARGINS) @ 40-55 DEGREES
 R CA, NORMAL MOVEMENT TO 2.0 CM; MICROVEINS 2 MM TO 1 CM WIDE.
 R MINOR EARLY PYRITE VEINING @ 60 DEGREES CA, CUT AND OFFSET BY
 R QTZ/CARBONATE VEIN, NORMAL MOVEMENT(58.9 M)
 D 5781 5950 98 X 120
 L 67R3 212
 D 5950 6150 70 X 110
 L 9R3 221
 N 6150 6280 92DCXTFXL 041 P= S* D= V(
 L OR3 6161 131 <-
 R MAFIC PORPHYRITIC CRYSTAL TUFF, SHARP UPPER AND LOWER CONTACTS
 R BOTH 40 DEGREES CA, CLAY GOUGE AT TOP CONTACT WITH CHLORITE

A001	56.81	59.50	58095	.007	.050	0.4	8	50
A001	59.50	61.50	58096	.012	.070	0.4	7	60
A001	61.50	62.80	58097	.011	.150	0.4	8	60



R MARGIN AND MINOR CARBONATE ON PLANE: CORE FRACTURED AND PITTED
 R WITH MODERATE LIMMITIC STAINING PERSVASIVE OVER SECTION AND ON
 R FRACTURE, (10-15 CM SECTION) ALTERED ROCK WITH SERICITE.

D 6280 6580 95 X 121

L 27R3 631 131

D 6580 6880 95 X 111

L 17R3 131

R FOOTAGE MARKER AT 67.06 M

D 6880 7180 87 X 012

L 27R3 692 112

R FOOTAGE MARKER 70.71 M

D 7180 7480 100 X 132

L 71R3 738 122

R 7180 7190 HEALED BECCIA, QTZ=-CARBONATE VEINING AND INFILLING WITH
 R INTERSTITIAL CHLORITE.

R 7330 7332 QUARTZ CARBONATE VEIN 45 DEGREES CA -0.5 TO 1 CM WIDE ENVELOPE
 R OF EPIDOTE + QUARTZ

D 7480 7880 100 X 121

L 63R3 762 111

P 7880 10058 DCXTFXL

P+ H=S)D+ <*

<=

A001	62.80	65.80	58098	.003	.060	0.3	6	58
A001	65.80	68.80	58099	.004	.200	0.4	8	57
A001	68.80	71.80	58100	.011	.220	0.2	5	58
A001	71.80	74.80	58101	.008	.160	0.2	7	50
A001	74.80	78.80	58102	.023	.490	0.5	12	71
A001	78.80	81.99	58103	.002	.060	0.1	5	42
A001	81.99	85.04	58104	.001	.130	0.1	8	48

R MED. TO LIGHT GREY TO GREEN GREY; FINE GRAINED TO MEDIUM GRAINED
 R GRANULAR GROUNDMASS, MESOCRATIC, WEAKLY SERICITIZED, LOCALLY
 R SILICEOUS, COMPETENT, WEAKLY FRACTURED CORE, QTZ-CARBONATE AND
 R QTZ-CARBONATE-EPIDOTE MICROVEINS, UNABLE TO DISTINGUISH TIME
 R RELATIONSHIP; MINOR PYRITE MICROVEINS PREDATE QTZ VEINS.
 R FELDSPARS ARE FRESH TO WEAKLY SERICITIZED- EXHIBIT SOME ZONING,
 R IN GROUNDMASS; PYRITE FINELY DISSEMINATED, F GR. XLS FO FINE
 R "CLUSTERS", MINOR AMOUNTS IN TUFF, LOCALLY VARIABLE, LOCALLY
 R MICROSTRINGERS OF PYRITE; INTRODUCTION OF MASSIVE SULPHIDE
 R FRAGMENTS(F.GR. PYRITE TO XL.PY) AND PYRITE ASSOCIATED WITH
 R FINE GRAIN CARB+QTZ+CHL WHITE SUBANGULAR TO ROUNDED FRAGMENTS.
 R 2 TO 4 MM SCALE, OCCASIONALLY 4-7 MM. SOFT, EASILY SCRATCHED
 R . CHLORITE ENVELOPE AROUND FRAGMENTS? WITH LIGHT TO PALE GREEN
 R /GREY DEPLETION HALO AROUND CHLORITE. CORE IS WEAKLY
 R CALCAREOUS, PERSVASIVE- BUT VARIABLE THROUGH SECTION; MORE
 R PREVALENT WHERE FRAGMENTS (ZENOLITHS) ARE CONCENTRATED.

D 7880 8199 100 X 021

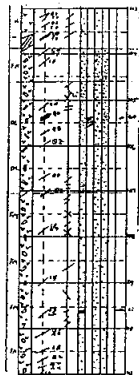
L 59R3 7891 110

R 8225 8310 MANGANESE+ LIMONITE COATING ON FRACTURES- INCREASE IN SERICITE
 R ALTERATION IN FRACTURE ZONE, 10-13%

R 8340 8350 QTZ-CARBONATE INFILLED HEALED FRACTURE ZONE, ANGULAR FRAGMENTS
 R OF TFXL, MINOR, FLESH COLOURED CARBONATE.

D 8199 8504 100 X 120

L 75R2 820 131

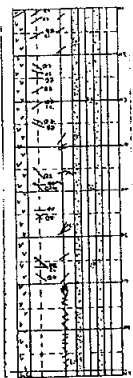


R 8520 8521SSL ON 50 DEGREE FRACTURE PLANE @ 70 DEGREES
D 8504 8625 100 X 121
L 75R2 220
R 8624 8625CONTACT BETWEEN TWO TUFFS- @ 60 DEGREES CA, COLOUR CHANGE
R LOWER ROCK- MEDIUM GREY, TOP UNIT LIGHT GREEN/GREY, WELDED
R ZONE, V.F.GR. TO APHANITIC 3 CM ABOVE CONTACT, PROPYLITIC
R ALTERATION, EPIDOTIZATION OF FELDSPAR GRAINS- ZONING, PISTACHIO
R GREEN.
D 8625 8940 97 XTFXL 122 P= 0+<)B)
L 62R3 875 111 <=
R FINE GRAIN, GRANULAR GROUNDMASS, DECREASE IN MAFIC PHENOCRYSTS
R -2-3%, LOCALLY 5-7% OVER 10 CM. INTRODUCTION OF CHLORITIC
R "BLEBS" OCCASIONALLY WITH PYRITE AND FELSIC GRANULAR FRAGMENT
R CENTRE, DEPLETION HALOS APPEARING. CORE MEDIUM GREY TO GREEN
R GREYIN COLOUR, COMPETENT.
R 8870 8940APPEARANCE OF PYRITE "BLEBS" SURROUNDED BY CHLORITE AND
R CARBONATE, CLAY ALTERED CHLORITIC RIMMED FRAGMENTS.
R 8930 8935QTZ-EPIDOTE VEIN-25 DEGREES CA, WAVY WITH BANDING, MARKER @
R 88.39 M.
D 8940 10058 98FLXTFXL P10=<)B=
L <)
R CRYSTAL TUFF, FINE GRAINED, INCLUDES FELSIC FELDSPAR CRYSTAL
R PHENOCRYSTS. FRESH TO WEAK ALTERED. SUBHEDRAL TO ANHEDRAL,
R VARIETY THROUGH SECTION, 3-7%, 2-3 MM SIZE, SECTIONS ARE
R GRANULAR IN APPEARANCE H SILICIFIED ANDLOSS GRAIN BOUNDARIES,
R OCCASIONAL LAPILLI FRAGMENT- ROUNDED TO SUBROUNDED FELSIC QTZ
R RICH, BANDED ASH TUFF, MAJORITY ARE AS PREVIOUSLY DESCRIBED,
R ALTERED CARBONATE WITH CHLORITE AND PYRITE TO MASSIVE, FINELY
R FRACTURED PYRITE, CHLORITE ENVELOPES WITH LIGHT COLOURED
R DEPLETION HALO; LOCALLY VUGGY "PITTED" TEXTURE, PYRITE REMOVED
R FROM FROM CHLORITE ENVELOPE.
D 8940 9240 100 X 112
L 53R3 914 132
D 9240 9540 88 X 121
L 18R2 945 221
R 9240 9510FRACTURED BLOCKY TFXL, LIGHT GREY TO PALE GREEN GREY, PERVASIVE
R SERICITE, 3-5%, LIMONITE WITH MINOR MANGANESE STAINING ON
R FRACTURE PLANES, MOST ABUNDANCE OF PYRITE+ FELSIC ROCK+
R CHLORITE BLEBS, SUBROUNDED, 3-5 MM.
R 9554 9555SUBROUNDED QTZ-CARBONATE FELSIC FRAGMENT
D 9540 9784 88 X 111
L 33R3 960 121
R SMALL ZONE OF ALTERATION FROM 97.45 TO 97.52 M. ZONE IS
R MODERATELY LI STAINED WITH MODERATE SERICITIC ALTERATION ALONG
R AND BESIDE A SMALL QTZ VEINLET AND STEEP FRACTURE.

A001	85.04	86.25	58105	.001	.180	0.2	8	40
A001	86.25	89.40	58106	.005	.190	0.2	20	73
A001	89.40	92.40	58107	.014	.120	0.2	11	65
A001	92.40	95.40	58108	.016	1.170	0.4	13	73
A001	95.40	97.84	58109	.014	.050	0.2	13	72

D 9784 10058 85 .X 010
L 35R3 1000 352
R ZONES FROM 97.84 TO 98.45 AND 99.90 TO 100.58 ARE MODERATELY
R TO INTENSELY ALTERED WITH A 20-25% SERICITE AND 5 TO 10%
R LIMONITE. A 1 CM ZONE OF INTENSE LIMONITE ALTERATION OCCURS AT
R 97.84M. A LARGE BLEB OF QUARTZ AND CALCITE OCCURS AT 98.65M.
P 10058 10380 94VF9TFAH 111 P+ <) B.
L 67R3 1036 122 <) <)
R VERY FINE GRAINED, GREEN IN COLOUR. SLIGHTLY MOTTLED IN THE
R UPPER SECTION. THE TOP 10 CM IS RUBBLE. FROM 101.0 TO 101.30
R IS A HEALED FRACTURE ZONE. INTENSE ALTERATION WITHIN THIS ZONE
R CONSISTING OF 5-10% SERICITE AND ABUNDANT LIMONITE/JAROSITE
R (5-10%) OCCURRING PRIMARILY ALONG FRACTURES. FROM 101.30 TO
R 102.90 M THE UNIT HAS A SLIGHT SERICITIC ALTERATION (1-2%)
R WITH MORE INTENSE ZONES OCCURRING FROM 102.10 TO 102.20 AND
R 102.70 TO 102.90 M WHERE A MODERATE SERICITIC ENVELOPE OCCURS
R AROUND SMALL QTZ VEINLETS. CHLORITE OCCURS ALONG MICROFRACTURES
R AND WITH THE QTZ VEINLETS. SMALL FRAGMENTS ARE VISIBLE IN THE
R LOWER SECTION,, THE BOTTOM 15 CM IS A DARKER GREEN, POSSIBLY DUE
R TO CONTACT METAMORPHISM FROM UNDERLYING ANDESITE DYKE.
N 10363 10380 100AMXANDY 000
L 100R4 000
R 10363 10380A003 27500
P 10380 11110 FM7TFXL Q= L= B)
L <) V)
R FRAGMENTAL UNIT CONSISTING OF LARGE CLASTS IN A FINE GRAINED
R MATRIX. CLASTS RANGE UP TO 20 CM. CLASTS ARE PRIMARILY FINER
R GRAINED THAN THE MATRIX, POSSESSING A LIGHT GREEN COLOUR. THE
R CLASTS ARE SOFTER THAN THE MATRIX. ABUNDANT PYRITE BLEBS ALIGNED
R AS LAMINATIONS OCCUR FROM 103.80 TO 104.60 AND 107.10 TO 107.90
R OCCASIONAL EUHEDRAL PYRITE (UP TO 4 MM) SEEN. V.M. ANKERITE SEEN
R IN QTZ VEINLETS AT THE BOTTOM OF THE UNIT. CHLORITE OCCURS
R ALONG MICROFRACTURES AND AS RIMS AROUND CLASTS AND AROUND THE PY
R LAMINATIONS. SEDIMENTARY SLUMPING SEEN AT 109.75. ORIGIN OF UNIT
R MAY EITHER BE A PRIMARY FRAGMENTAL DEPOSIT OR DUE TO
R SYNDEPOSITIONAL SEDIMENTARY MOVEMENT (SLUMPING DOWN A SLOPE
R DURING DEPOSITION). SERICITIC ALTERATION OF THE CLASTS (~5%)
D 10380 10460 100 X 010
L 91R3 000
N 10460 10705 92DCXTFXL 010 P=P+H1 B+ L)
L 76R3 1067 111 <* V+
R LIGHT GREYISH GREEN. UNIT HAS PHENOCRYSTS (~10%) OF CHLORITE
R (FORMERLY SOME MAFIC MINERAL) OCCURRING THROUGHOUT. PHENOCRYSTS
R RANGE FROM EUHEDRAL LATHS TO ANHEDRAL BLEBS. MINOR GALENA
R OCCURRING AT THE EDGE OF A QTZ VEIN AT 105.45. SERICITIC

A001	97.84	100.58	58110	.018	.240	0.3	30	123	
A001	100.58	103.80	58111	.004	.030	0.1	8	120	
A001	103.80	104.60	58112	.033	1.140	1.230	1.0	46	240
A001	104.60	107.05	58113	.080	.380	7.0	1570	4400	





R ALTERATION THROUGHOUT WITH ABUNDANCE INCREASING NEAR THE
 R CONTACT. SILICIFIED ZONE FROM 105.45 TO 105.55. PY OCCURS AS
 R DISSEMINATED BLEBS AND AS ALIGNED BLEBS FORMING LAMINATIONS.

D 10705 10973 100 X 010
 L 98R3 1097 110
 D 10973 11110 100 X 011
 L 98R3 111
 P 11110 11960 XTUFF

P1 S* D) B*
 << V+

COMPETENT, EQUIGRANULAR FINE GRAINED UNIT. LIGHT GREY WITH TAN
 COLOURING IN THE BOTTOM THIRD. FINE QTZ-CARBONATE VEINING AS
 WELL AS QTZ VEINING WITH CHLORITE SELVAGES, OCCASIONAL 30 CM
 WIDE BANDS OF TUFF WITH A MARGINALLY HIGHER MAFIC CONTENT AND
 SLIGHTLY LARGER GRAIN SIZE. BROKEN UNIT STARTING AT 117.0 AND
 GOING TO THE END OF THE UNIT. WITHIN THIS ZONE THERE IS :
 MANGANESE ALTERATION ALONG FRACTURES, ABUNDANT SERICITIC
 ALTERATION. THIN SHEAR BANDS OCCUR WITHIN THIS ZONE. A FAULT
 TRUNCATES THE BOTTOM OF THIS UNIT WITH SOME LOST CORE OCCURRING
 AT THE BOTTOM, PY AS DISSEMINATED BLEBS. DISSOLUTION OF
 CARBONATE RESULTING IN VUGS AT 114.00 M.

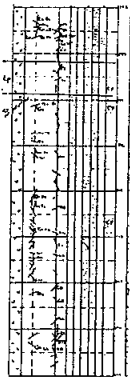
A001	107.05	109.73	58114	.048	.180	0.5	30	136
A001	109.73	111.10	58115	.031	.190	0.7	27	100
A001	111.10	114.10	58116	.024	.080	0.3	57	166
A001	114.10	117.10	58117	.028	.140	0.3	38	90
A001	117.10	119.60	58118	.039	.050	1.2	13	67
A001	119.60	122.60	58119	.296	.190	0.8	7	133
A001	122.60	125.60	58120	.126	.350	0.8	7	112
A001	125.60	128.60	58121	.042	.120	0.4	7	78

D 11110 11410 100 X 011
 L 96R3 1128 111
 D 11410 11710 96 X 011
 L 92R3 1158 101
 D 11710 11960 66 X 000
 L 92R3 1189 666
 P 11960 13411 DCXTFXL

P) L1 D) B(
 << <<<

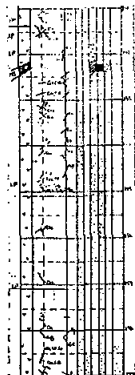
DARK GREEN. EQUIGRANULAR FINE GRAINED. WEAK FOLIATION AT 45.
 SLIGHTLY BROKEN UP NEAR THE BOTTOM OF THE UNIT. VERY OCCASIONAL
 LAPILLI. PROBABLE FAULT AT 124.30. LOST CORE AT THE BOTTOM OF
 THE UNIT. MAFICS AVERAGE 20-30%. SLIGHT SHEARING FROM 120.50 TO
 121.30. V.M. ANKERITE AT 129.35. CHLORITE OCCURS AS REPLACED
 PHENOCRYSTS AND AS MICROVEINS ALONG FRACTURES AS WELL AS
 ADJACENT TO QTZ VEINLETS. LIMONITE ALONG SOME FRACTURES. THIN
 CARBONATE SHEETING ON SOME FRACTURES. QTZ AND QTZ-CARBONATE
 VEINING OCCURS THROUGHOUT. PY AS VERY SMALL DISSEMINATED
 CRYSTALS THROUGHOUT. SMALL BLEBS AND MICROVEINS WITHIN THE
 SHEAR ZONE. VERY CHLORITIC.

D 11960 12260 96 X 020
 L 84R3 1222 021
 D 12260 12560 100 X 010
 L 25R3 1250 120
 D 12560 12860 100 X 111
 L 87R3 1280 121

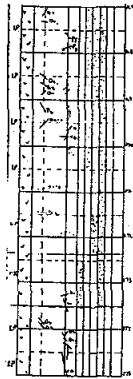


D 12860 13160 96 X 020
 L 33R3 1311 121
 D 13160 13411 80 X 100
 L 0R3 1341 352
 P 13411 13585 87AM ANDY
 L 3
 R A=
 R MEDIUM TO DARK GREEN, FINE TO V. F. GR., SLIGHTLY MOTTLED WITH
 R F.GR. DARK GREEN GRAINS. WEAKLY ALIGNED, AT UPPER CONTACT @ 40
 R DEGREES CA, -CHILL MARGIN AT UPPER CONTACT, GRADE FROM LIGHT TO
 R DARK GREEN OVER TOP 6 CM, TOP CONTACT OXIDE- STAINED WITH
 R MANGANESE. PERVASIVE AMYGDULES-COMMONLY FILLED WITH WHITE
 R CARBONATE (+/-QTZ+/-CHLORITE) MINOR NOT INFILLED, LEAVING OPEN
 R "PITS" PROXIMAL TO FRACTURES (DISSOLVED), 1.0-3.0 MM SCALE ~ 3-
 R 4% LOWER CONTACT LOST IN RUBBLE.
 P 13585 18200 TFAH P=P*P <) D.D1
 L E), C) <*
 R FINE GRAINED TO VERY FINE GRAINED, LOCALLY CHLORITIC? GREEN
 R SHARDS (GLASS?) AND LATH FRAGMENTS OR CRYSTALS, MEDIUM GREY
 R GREEN TO MEDIUM GREY, F. GR. SHARDS/FRAGMENTS VARY THROUGH
 R SECTION, 0.75 TO 1.5 MM SCALE GENERALLY HOMOGENEOUS UNIFORM
 R GROUNDMASS; LOCALLY LAPILLI FRAGMENTS MATRIX SUPPORTED, WITH
 R MINOR SECTIONS OF CLAST SUPPORTED FRAGMENTS. LOCALIZED SECTIONS
 R OF WEAK CLAY ALTERATION AND WEAK CHLORITIZATION. QTZ+/-CHLORITE
 R AND QTZ WITH MINOR CARBONATE VEIN AND MICROVEINS ARE SCATTERED
 R THROUGHOUT THE SECTION, DECREASING AT DEPTH. ROCK IS VERY
 R COMPETENT, HARD AND RELATIVELY FRESH. UNIT IS PYRITIC WITH VERY
 R FINE GRAINED TO FINE GRAINED DISSEMINATED PYRITE, COMMONLY AT
 R FRAGMENT BOUNDARIES PYRITE IS CONCENTRATED AND PRESENT AS
 R "CLUSTERS" AND MINOR XTLINE PYRITE. MINOR CPY FOUND IN QUARTZ
 R -CHLORITE VEINS; DARK GREEN CHLORITE COMMON AS FRAGMENTAL
 R INFILLING AND IS GENERALLY PYRITE RICH. SERICITE FRACTURE
 R COATINGS (~1-2%).
 R 13610 13615FRAGMENTAL SECTION, CHLORITE INFILLING CLAST SUPPORTED
 R SUBROUNDED LAPILLI, CLOTTED PYRITE ~15-20% INTERSTITIAL TO
 R LAPILLI.
 D 13585 13885 97 9 021
 L 53R3 1372 110
 R 13595 13626LIGHT GREY-GREEN, FINE GRAINED FRAGMENTS-25%, VERY FINE GRAINED
 R PY-7-10%
 W 13585 14835 2TFLP <= <1 D2
 L
 R 13925 14020INCREASE DENSITY QTZ VEINING WITH QTZ-SERICITE SELVAGES,
 R PARALLEL OVER 1 M @ 35-40 DEGREES CA, CROSSCUT AND DISPLACED BY
 R 1 CM BY QUARTZ-CHLORITE VEINS @ 40 DEGREES CA, FINE GRAINED
 R SERICITE SELVAGES & MINOR PY DISSEMINATED PY TO 20%, 140.00-

A001	128.60	131.60	58122	.007	.050	0.1	4	54
A001	131.60	134.11	58123	.022	.040	0.1	3	81
A001	134.11	135.85	58124	.028	.020	0.2	9	97
A001	135.85	138.85	58125	.028	.050	0.1	6	56
A001	138.85	141.85	58126	.092	.100	0.4	9	38



R 140.15 M CHLORITE VEINS + INTERGROWN QTZ.
 D 13885 14185 100 X 011
 L 73R2 1402 010
 D 14185 14485 100 X 021 D1
 L 74R2 1433 110
 R 14110 14170PYRITE INCREASE +25% DISSEMINATED, PARALLEL WEAK BANDING @ 50
 R DEGREES CA LOCALLY, LOCALIZED CONCENTRATION WITH CHLORITE
 R BORDERING FRAGMENTS.
 R 14300 14330DISSEMINATED PYRITE, FINE GRAINED WITH PYRITE ON FRACTURES AND
 R ALONG VEIN MARGINS.
 D 14485 14785 90 X 121
 L 64R2 1463 120
 R 14520 145231.3CM QTZ VEIN @ 60 DEGREES CA, LIMONITE CLAY ON TOP CONTACT,
 R GOUGE, MINOR MANGANESE ON LOWER CONTACT @ 50 DEGREES CA.
 R 14610 14615QTZ VEIN-15 DEGREES CA, VERY WUGGY, PITTED TEXTURE. A001 141.85 144.85 58127 .113 .110 0.4 7 50
 R 14665 14666CONTACT, GREY VERY FINE GRAIN ASH WITH GREEN GREY- FINE GRAINED A001 144.85 147.85 58128 .031 .090 0.2 10 54
 R WEAKLY CLAY ALTERED ASH. @ 55 DEGREES CA A001 147.85 150.85 58129 .018 .050 0.2 5 80
 R 14665 15020INCREASED CHLORITE (MAFIC) CONTENT IN ASH, DARKER GREEN, A001 150.85 153.85 58130 .264 0.2680 .340 5.0 18 92
 R GRADATIONAL DECREASE TO BASE- PRIMARY? A001 153.85 156.85 58131 .174 .190 1.2 13 80
 D 14785 15085 83 X 021 A001 156.85 159.85 58132 .194 .090 1.1 43 148
 L 64R2 1494 021
 D 14835 15425 X D)
 L
 R SIGNIFICANT DECREASE IN FINE GRAINED TO VERY FINE GRAINED
 R DISSEMINATED PY
 D 15085 15385 100 X 021
 L 70R2 1524 122
 R 15260 15342FRACTURED ROCK-QTZ+ CARBONATE INFILLING- FOLLOWED BY QTZ-PYRITE
 R PYRITE FINE GRAINED TO COARSE GRAINED CRYSTALS, MINOR ANKERITE
 R WITH QTZ- ANGULAR BX FRAGMENTS OF ASH TUFF IN VEINING.
 D 15385 15685 100 X 122
 L 92R2 1555 021
 R 15400 16465FINE HAIRLINE "SHOCKWORK" FRACTURES, CARBONATE INFILLED.
 R 15465 15515LAPILLI TUFF, VAGUE FRAGMENT BORDERS, MATRIX SUPPORTED,
 R CHLORITE AND "BLEBS" OF PYRITE IN CLUSTERS -5-7%
 M 15575 16310 +TFLP P1 <+ D=
 L
 R PYRITE MICROVEINS PARALLELING QTZ-CARBONATE VEINING, AND LAPILLI
 R MARGINS WITH CHLORITE, MAY BE CONCENTRATED IN FRAGMENTS;MATRIX
 R SUPPORTED.
 R 15680 15685FINE QTZ VEIN PARALLELED BY A PYRITE ENVELOPE @-35 DEGREES CA,
 R WITH "Z" FOLD AXIS @65 DEGREES CA.
 D 15685 15985 100 X 110
 L 73R3 1585 101
 D 15985 16285 100 X 010 D)D=



L 92R3 1616 010
R 16200 16310 APPEARANCE OF SUBROUNDED, 1-1.5 CM LAPILLI 1-2%, FINE
R DISSEMINATED CP IN CORE AND QTZ VEINS
N 16310 18200 9TFLP Q1 D2 D=
L <*<
R PYRITE CLUSTERS- DISSEMINATED, MICROVEINS, AND AT FRAGMENT
R BOUNDARIES, FRAGMENTS WELDED, GENERALLY SAME COMPOSITION AS ASH
D 16285 16585 100 X 010
L 87R4 100
R 16420 16421 CP WITH QTZ+/-CARBONATE VEIN, NO ASSOCIATED PY.
R 16700 16800 GENERALLY FRESH ROCK, XL PY 1-1.5 MM, + VERY FINE GRAINED
R DISSEMINATED PYRITE 15%
D 16585 16885 100 X 010
L 98R3 1676 110
D 16885 17185 100 X 001
L 94R3 1710 010
D 17185 17485 100 X 011
L R3 1737 101
D 17485 17785 100 X 011
L 72R3 1768 010
D 17785 18200 80 X 022
L 42R2 1798 221
R 17920 18120 FRACTURED, BLOCKY CORE MANGANESE AND LIMONITE STAINING WITH SOME
R CLAY ON FRACTURE PLANES, CORE IS LEACHED SLIGHTLY, WEAKLY
R SERICITIZED, FINE FRACTURES WITH PYRITE HAVE CLAY ALTERED
R MARGINS- MICROSCALE. PYRITE HAS DECREASED < 3%
R 17900 17960 MALACHITE STAIN WITH LIMONITE ON FRACTURE- DISSEMINATED PY
R (<5%), CP (<2%)
R 18178 18182 PYRITE RICH INFILLING BETWEEN FRAGMENTS
P 18200 18285 98UF TUFF 010 P+ D)
L 18R2 1829 210 P) p=
R FINE GRAINED TUFF, LIGHT GREEN/GREY, FRACTURE PLANES MANGANESE
R AND OXIDE STAINED, SHARP CONTACT WITH LAPILLI TUFF @ 70 DEGREES
R CA, FINE GRAINED FELSIC GROUNDMASS WITH 1-3 MM SHARDS/FRAGMENTS
R MOTTLED APPEARANCE.
A003 13411 13585 872500

A001	159.85	162.85	58133	.239	.170	1.5	19	88	
A001	162.85	165.85	58134	.300	.100	1.6	9	60	
A001	165.85	168.85	58135	.500	0.4880	.160	1.4	7	91
A001	168.85	171.85	58136	.460	.180	1.4	8	87	
A001	171.85	174.85	58137	.296	.300	1.4	54	214	
A001	174.85	177.85	58138	.384	.110	2.0	14	153	
A001	177.85	182.00	58139	.400	.140	1.7	23	124	
A001	182.00	182.85	58140	.033	.040	0.2	5	57	

The A005 assay sets are selected
composites based on copper grades
and geology

	From	To	Length	Cu %	Au g/t
A005	6.10	14.40	8.30	.027	.144
A005	14.40	16.30	1.90	2.830	7.731

A005	16.30	119.60	103.30	.028	.172
A005	119.60	125.60	6.00	.211	.270
A005	125.60	150.85	25.25	.043	.073
A005	150.85	162.85	12.00	.218	.197
A005	162.85	182.85	20.00	.375	.158

/END

IDEN680201KERR KS-063BQWL JUL90DJBKME JTTJUL90380 GRD 0.00
 1PRJPLACER DOME INC. KERR PROJECT
 S000 000 10000MT 198.10090.00-60.00 9700.00 9571.00 1744.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTH

S001 10000 14900 198.10085.00-61.00
 S002 14900 19810 198.10088.00-56.10
 A003

ALUMM MAG

P 000 518 0 OVBD

L

OVBD 17' FROM DRILLERS

P 518 610 0 CSNG

L

P 610 1745 FLXPHPP

P1 B) <) WDLI

V) P+ T)T)

	From	To	Sample	Cu %	Cu %	Au g/t	Au g/t	Ag ppm	Pb ppm	Zn ppm
				(dupl)	(dupl)					
A001	6.10	7.00	56501	.033		.090		0.9	24	90
A001	7.00	10.00	56502	.105		.150		0.5	9	50
A001	10.00	13.00	56503	.112	0.1110	.070		0.5	7	12
A001	13.00	15.70	56504	.039		.030		0.2	6	9
A001	15.70	16.26	56505	.047		.110		0.2	1	58
A001	16.26	17.45	56506	.036		.060		0.2	1	52

R MEDIUM GREY GREEN, MOTTLED, M.G., 1% ALTERED PLAGIOCLASE

R PHENOCRYSTS 2-40 MM. CHLORITE ENVELOPES AROUND PYRITE VEINS.

R SULPHIDES-PYRITE- FINE GRAINED DISS'D 1% AND PATCHES <10 MM

R IN VEINLETS. WAD STAIN AROUND LATE STAGE CALCITE VEINS. ROCK IS

R WEAKLY FOLIATED. LIMONITE STAIN ON FRACTURE SURFACES.

M 610 700 67LIXPHPP 0000 P2 LI

L 00R2 XXXX P= F=

R HIGHLY FRACTURED, RUSTY FRACTURE SURFACES, SAME AS ABOVE

D 700 1000 100 X 0101

L 65R3 91 2203

D 1000 1300 100 X 0111

L 58R3 122 3314

D 1300 1570 100 X 1101

L 63R3 151 0212

R 1300 1305MALACHITE 0-1% IN FRACTURES

M 1570 1626 100LIXPHPP P4 LI

L 00R2 P4 P2

R HIGHLY FRACTURED, LIMONITE AND CLAY ALTERED CRYSTAL TUFF-

R POSSIBLE FAULT ZONE? WAD STAINING FRACTURES. LI REPLACING

R MAFICS IN ROCK.

D 1626 1745 100 X 0011

L 34R2 2404

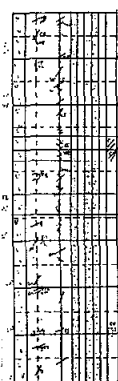
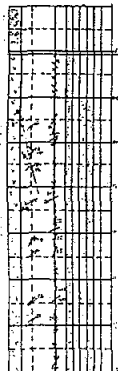
P 1745 4510 SEXTFLP P3 S+ D= <.

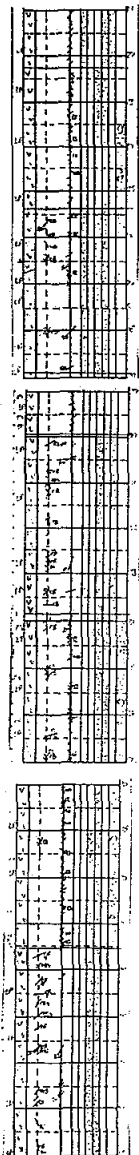
<= P1 <+

R MEDIUM GREY, SOFT, WEAKLY FOLIATED ALONG FRACTURES, FRAGMENTS

R RANGE FROM (4-30 MM IN SIZE). COMPOSITION FELDSPATIC- 5%, 50%

R RHYOLITE, 40% DACITE, MATRIX FINE GRAINED, DISS'D PY 5%, TRACE





R DISS'D CP, CLASTS ARE MATRIX SUPPORTED. QZ VEINS HAVE CHLORITE
 R SELVAGES AND DISS'D CP < 1%. MATRIX HAS 5% CALCITE IN IT AS
 R VEINLETS AND DISS'D IN CLASTS AS WELL.

D 1745 1900 100 X
 L 68R3

D 1900 2224 100 X
 L 41R3 213

R 2133 2224 ROCK IS FRACTURED ALONG SERICITE FOLIATION PLANES.

N 2224 2531 80LIXTFLP P+ B) LIWD
 L 20R2 244 XXXX P3 P1C)

R HIGHLY FRACTURED, CLAY ALTERED, LIMONITE STAINED, VERY SOFT,
 R NON FOLIATED FAULT ZONE. CLAY HAS REPLACED FELDSPATHIC MATRIX
 R AND CLASTS, LIMONITE REPLACING MAFICS AND PYRITE, VUGS-5-10 MM.
 R 2% OF ROCK. MISSING 60 CM OF CORE BETWEEN (23.0-24.4 M)
 R BETWEEN (22.24-22.60 M) ROCK IS CHLORITE ALTERED.

D 2531 2891 100 X 1111
 L R2 274 2223

R 2640 2680 BEDDED ASH TUFF- VERY FINE GR. BEDS FINE 10.5 MM AT BOTTOM
 R VERY FINE AT TOP? OR REVERSED.

N 2891 2995 79FLXTFLP LIWD
 L 33R2 XXXX P2 C1C1

R VUGGY, WAD STAINED, CLAY ALTERED LAPILLI TUFF. ROCK HAS 5%
 R POROSITY, LIMONITE FILLS VUGS BETWEEN (29.75 TO 29.95 M)

D 2995 3387 100 X XXXX
 L 100R3 305 1011

R 3220 3240 VUGGY & WAD COATING DUE TO LOSS OF CALCITE.

N 3387 3700 97FLXTFLP E= D= <= LIWD
 L 53R2 366 <+ P3 C)V)

R WEAK, CLAY ALTERED TFLP, VUGGY, 5% POROSITY, LI AND WD STAINED
 R ON FRACTURES AND VUGS. SULPHIDE CONTENT REMAINS THE SAME AS PL.
 R NL CONTINUES TO (40.53 M).

N 3700 4053 100FLXTFLP 1111 E= D= <+ LIWD
 L 32R2 396 7778 <+ P3 C)C)

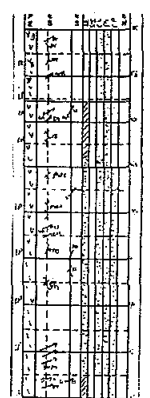
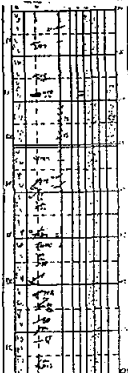
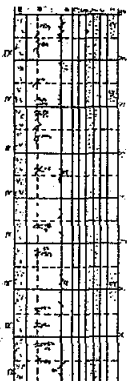
R SAME AS (33.87-37.00 M)

D 4053 4510 100 X 1212
 L 95R3 427 1101

P 4510 6720 FL PHPP P= D= <.<)
 L <+ P2 V=

R MOTTLED, GREY CRYSTALS IN A WHITE GROUNDMASS. SOFT, WEAKLY
 R FOLIATED, CLAY ALTERATION OF MATRIX IS PERSVASIVE, ALTERATION
 R OF FELDSPAR PHENOCRYSTS-0.5-3MM BY CLAY IS SELECTIVE- RIMS
 R MOSTLY. PHENOCRYSTS FELDSPARS 90%, MAFIC 10%, COMPOSE 50% OF
 R ROCK. SULPHIDES PYRITE- DISS'D-5%; INCHLORITE VEINS CUBES 0.5
 R -2.0 MM 2%; M CALCITE-QTZ VEINS 1% CHALCOPYRITE BLEBS IN QTZ-
 R CALCITE-TRACE. UNIT IS EXTENSIVELY FRACTURED WHERE THERE IS

A001	17.45	19.00	56507	.388	.260	1.2	7	62
A001	19.00	22.24	56508	.402	0.4000	.210	1.1	3 49
A001	22.24	25.31	56509	.045	.180	0.6	1	60
A001	25.31	28.91	56510	.035	.140	0.4	9	54
A001	28.91	29.95	56511	.098	.290	0.8	15	82
A001	29.95	33.87	56512	.047	.220	0.4	8	41
A001	33.87	37.00	56513	.035	.150	0.6	10	70
A001	37.00	40.53	56514	.038	.110	0.4	220	113
A001	40.53	42.50	56515	.007	.140	0.2	23	53
A001	42.50	45.10	56516	.021	.110	0.3	12	53



R OF CORE GROUND UP OR MISSING.

D 7000 7300 100 X 1133

L 87R4 701 1101

D 7300 7600 77 X 0111

L 65R4 732 0222

R 7480 7500 VUGGY ROCK DUE TO LEACHING OF CACITE, SLIGHT CLAY ALTEATION, LI
ON FRACTURES. CORE MISSING?

D 7600 7900 100 X 1111

L 82R4 762 0111

M 7900 7995 68CYXPHPP P+P+D= LI

L 11 P1 C)

R CLAY, LIMONITE ALTERED CRYSTAL TUFF WEAKLY ALTERED, SOFT,
FRACTURED, EPIDOTE ALTERATIONS OF FELDSPARS

D 7995 8300 100 X

L 76R3 823

D 8300 8659 100 X

L R3 853

R 8600 8659 ROCK IS A LAPILLI TUFF

P 8659 12370 SEXTFLP P1 P1 D) <)<) C2

L D. B. V)V+ D)

R MOTTLED GREEN-BLUE TO GREY, SOFT, WEAKLY FOLIATED, NOT SCHISTOSE
SERICITE ALTERED WITH CHLORITE AROUND FRACTURES AND VEINS; GRAIN
R SIZE-M.G. MATRIX WITH SUBROUNDED FRAGMENTS OF FELSIC 5% AND
R DACITIC 95%. UNIT IS IN PART CRYSTAL TUFF WHICH IS BEDDED WITH
R THE LAPILLI TUFF. ALTERATION RANGES FROM WEAK PERVASIVE SERICITE
R -CHLORITE ALTERATION OF THE MATRIX TO SERICITE ALTERATION OF
R MATRIX AND FRAGMENTS. SERICITE ALTERATION SECTIONS HAVE A MOD.
R FOLIATION AND SCHISTOSITY. SULPHIDES: PYRITE 1% 0.1 MM CUBES
R DISS'D THROUGH MATRIX WITH CHALCOPYRITE 1%, AGGREGATES OF PYRITE
R CUBES 1.0 M 2% FORM BLEBS 5 X 10 MM OCCASIONALLY WITH CHLORITE
R RIMS, PYRITE IN QTZ-CALCITE VEINS WITH CHLORITE SELVAGES 5% CLAY
R FILLS SMALL 0.5 X 2 MM VUGS IN SERICITE ALTERED SECTIONS. TRACE
R OF CARBONATE IN MATRIX OF LAPILLI TUFF.

D 8659 9000 100 X 1111

L 95R3 884 1101

D 9000 9300 100 X 0212

L 89R3 914 1001

D 9300 9600 100 X 0022 P3 D= D)<=

L 48R3 945 3444

D 9600 9900 100 X 0022

L 70R3 976 0123

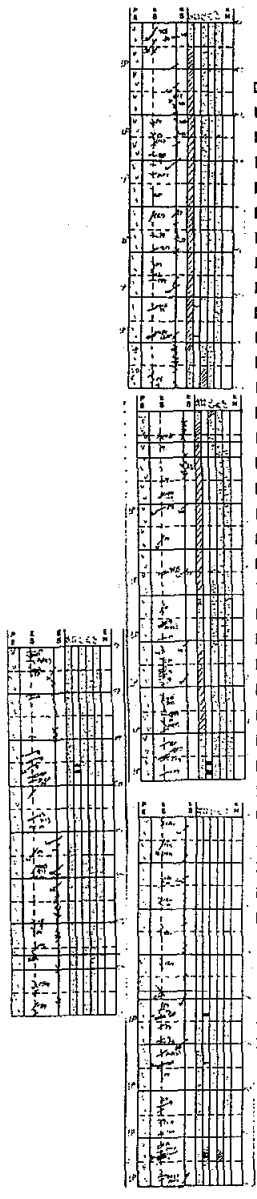
D 9900 10200 93 X 1223

L 69R3 1006 2223

D 10200 10500 100 X 0133 P3

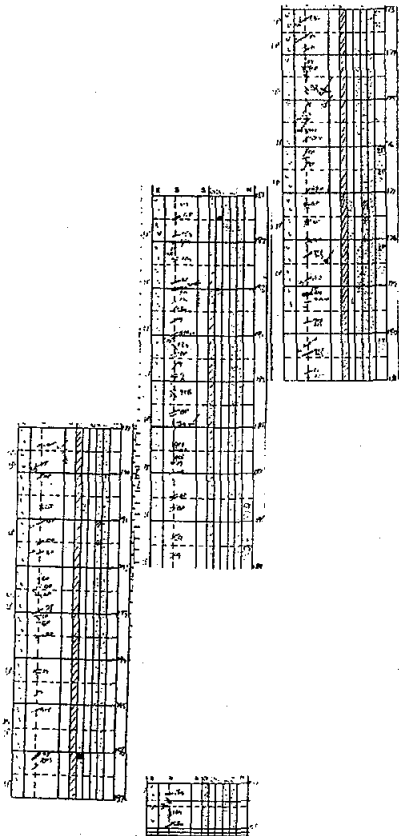
L 55R3 1036 0223

A001	70.00	73.00	56528	.010	.040	0.2	7	69		
A001	73.00	76.00	56529	.023	.050	0.2	9	96		
A001	76.00	79.00	56530	.009	.020	0.1	6	85		
A001	79.00	79.95	56531	.010	.020	0.1	5	167		
A001	79.95	83.00	56532	.040	.020	0.2	9	122		
A001	83.00	86.60	56533	.085	.110	0.5	15	156		
A001	86.60	90.00	56534	.186	.080	0.8	9	117		
A001	90.00	93.00	56535	.380	0.3800	.190	0.180	1.6	9	125
A001	93.00	96.00	56536	.249	.400	0.350	1.6	14	85	
A001	96.00	99.00	56537	.214	.130	0.7	14	137		
A001	99.00	102.00	56538	.138	.050	0.4	12	110		
A001	102.00	105.00	56539	.260	.140	1.0	20	150		



D	10500	10800	91 X	1133										
L			68R3 1067	1122										
N	10800	10970	82CLXPHP	0111	P2 P2 D)									
L			22R3	7778	<>	<>								
R			MOTTLED, GREY GREEN, MOD. HARD H=4, UNALTERED, H=3 ALTERED, WEAK FOLIATION, PLAGIOCLASE PHENOCYSTS OR PUMICE FRAGMENTS (0.5 MM X 1.0-2.0 MM) 40% DARK GREEN GROUNDMASS AND CLEAR XTALS-WEAKLY OPAQUE 2%. ALTERATION VARIES FROM SERICITE-CHLORITE AT THE EDGES OF THE UNIT TO CHLORITE AT THE CENTER.											
D	10970	11300	85 X	1212										
L			66R3 1128	1233										
D	11300	11600	100 X	0223										
L			93R3 1158	1101										
D	11600	11900	97 X	0223										
L			63R3 1189	3334										
R			INTENSE SILICIFICATION OF MATRIX SUPPORTING FRAGMENTS.											
D	11900	12370	94 X	1222	P)	SP								
L			80R3 1220	2223		V.								
R	11980	11982	SPHALERITE, CHALCOPYRITE DOLOMITE VEINS 2CM THICK.											
P	12370	12880	100CLXTUFF		P1 P2	PO								
L			R3 1280		<>	<>	D.							
R			MOTTLED, MED. GREY, H=4, WEAKLY FOLIATED, HOORNBLLENDE LATHS 0.5 X 2.0-30% - CHLORITE ALTERED. SERICITE ALTERATION OF FINE GRAINED GROUNDMASS. DISS'D PO AND PY- 5% AS BLEBS AND 0.5 MM CUBES. QTZ-CALCITE-CHLORITE VEINS CROSSCUT UNIT.											
R	12720	12740	MAGNETIC SUSCEPTIBILITY 440 X 10 (TO THE POWER -5) SI DUE TO PYRRHOTITE											
P	12880	19810	SEXTFLP		P2P+P1 D=	D)V= C2								
L					V)	<<+V= B)								
R			MEDIUM GREY MOTTLED WITH DARK GREEN SPOTS, SOFT H=3, WEAKLY FOLIATED SERICITE-CHLORITE ALTERED, WITH AREAS OF PERSIVASIVE SILICIFICATION. FRAGMENTS RANGE FROM FELSIC-10% TO DACITIC-90% IN A MATRIX OF ASH TUFF 40% OF ROCK. ASH TUFF BEDS RANGE IN THICKNESS FROM 10 CM TO 1.5 M. INDIVIDUAL FRAGMENTS MAYBE SILICIFIED. SULPHIDES CP 1% AND PY 5% ARE DISS'D THROUGHOUT MATRIX. VERY FINE 0.1 MM PY AND CP 0.1% BLEBS FORM IN PRESSURE SHADOWS? AROUND FRAGMENTS.---- SULPHIDES HAVE CHLORITE RIMS. CP BLEBS 0.1% IN EXTENSION GASH QTZ-CARB-CHLORITE VEINS. CP AND PY 1% AND 10% RESPECTIVELY ARE FOUND IN BRECCIATED QTZ VEINS AS INFILLINGS. BRECCIATED VEINS ARE UP TO 15 CM TRUE THICKNESS GREY-MILKY WHITE QTZ- POSSIBLE FEDER OF A VMS? THE DEGRRE OF FOLIATION INCREASES WITH DEPTH AND SERICITE ALTERATION. BETWEEN (180.0 M AND 196.0 M) THE ROCK IS MOD. FOLIATED SERICITE-QTZ ALTERED LAPILLI TUFF											
D	12880	13200	100 X	1133										

A001	105.00	108.00	56540	.348	1.100	3.0	12	940
A001	108.00	109.70	56541	.031	.190	0.2	16	236
A001	109.70	113.00	56542	.267	.350	1.0	8	68
A001	113.00	116.00	56543	.568	.370	2.8	8	480
A001	116.00	119.00	56544	.524	.530	5.0	84	1250
A001	119.00	121.00	56545	.526	.780	6.0	52	7800
A001	121.00	123.70	56546	.488	.240	3.9	28	880
A001	123.70	125.70	56547	.025	.050	0.1	12	105
A001	125.70	128.80	56548	.002	.030	0.1	12	84



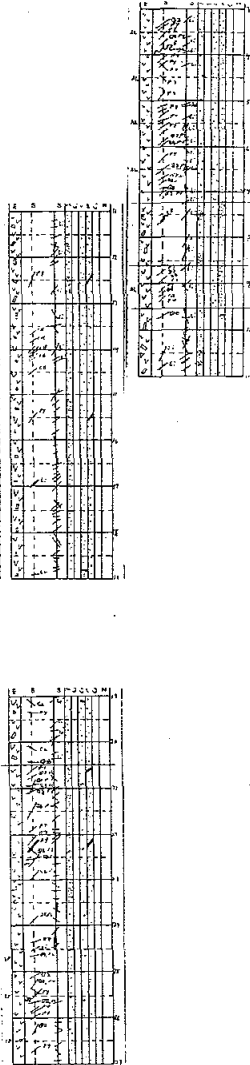
L 100R4 1768 1100
 D 17700 18000 100 X 1233 P+
 L 100R4 1798 1001
 R 17915 17920F.GR. DARK GRN DYKE, WEAKLY SHEARED. CHALCOPYRITE IS
 CONCENTRATED AT THE CONTACTS WITH THE SERICITE SCHIST.
 D 18000 18300 100 X 0223
 L 93R3 1829 0101
 D 18300 18600 100SXTFLP 1313 P3
 L 79R3 1859 1202
 R QTZ-SERICITE ALTERSTION OF LAPILLI TUFF STARTS AT 184.2 M AND
 CONTINUES TO THE END OF THE HOLE. ROCK HAS A MODERATE FOLIATION
 AND WEAK SCHISTOCITY, QP VEINS PARALLEL SCHISTOSITY, QTZ-CARB
 EXTENSION VEINS ARE PERPENDICULAR TO THE FOLIATION.
 D 18600 18900 100QSXTFLP 1212 P3
 L 100R4 1890 0000 P1
 R CLAY ALTERATION OF MATRIX, PERVASIVE 10% IN MODERATELY FOLIATED
 INTERVALS.
 D 18900 19200 100SXTFLP 0223 P3
 L 85R3 1920 1222
 D 19200 19500 100SXTFLP 0122 P3
 L 100R3 0000
 D 19500 19730 100SXTFLP 0101 P3
 L 100R3 1951 0000
 D 19730 19810 100 XTUFF 1212
 L 100R3 0000
 R END OF HOLE 198.1 M

A001	174.00	177.00	56565	.526	0.5280	.140	1.2	28	188
A001	177.00	180.00	56566	.594		.270	1.7	36	352
A001	180.00	183.00	56567	.476		.500	2.0	54	385
A001	183.00	186.00	56568	.414		.120	1.1	20	220
A001	186.00	189.00	56569	.364		.320	1.2	22	96
A001	189.00	192.00	56570	.352		.230	0.8	18	65
A001	192.00	195.00	56571	.456		.120	1.0	14	40
A001	195.00	198.10	56572	.424	0.4240	.140 0.140	1.2	62	46

The A005 assay sets are selected composites based on copper grades and geology

	From	To	Length	Cu %	Au g/t
A005	6.10	17.45	11.35	.075	.084
A005	17.45	22.24	4.79	.397	.226
A005	22.24	86.60	64.36	.036	.106
A005	86.60	113.00	26.40	.240	.295
A005	113.00	123.70	10.70	.528	.459
A005	123.70	128.80	5.10	.011	.038
A005	128.80	180.00	51.20	.511	.449
A005	180.00	198.10	18.10	.414	.238

/END



IDEN680201 KERR KS-064 NQ02AUG90WKH JTTAUG90F38 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 2280MT 320.30090.00-78.00 9705.00 9729.00 1727.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM

S001 2280 9100 320.30080.00-75.00
 S002 9100 18200 320.30080.00-72.00
 S003 18200 27400 320.30081.00-70.00
 S004 27400 32030 320.30081.00-70.00

A003
 AUMM MAG
 P 000 300 OVBD

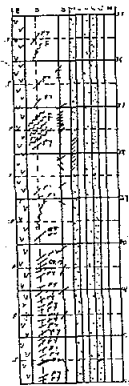
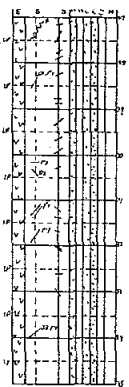
L
 P 300 725 PYXTFAH P) P+ D) <=
 L <=
 R FINE GRAINED, DARK GREENISH BLACK. INTENSE PYRITE INTRODUCTION
 R ALONG MICROFRACTURES. QTZ VEINS HAVE UNDERGONE INTENSE
 R DISSOLUTION LEAVING THEM WITH A PRONOUNCED VUGGY TEXTURE. HIGH
 R ABUNDANCE OF HEALED FRACTURES. SMALL INTERBEDS OF CRYSTAL TUFF
 R FROM 4.20 TO 4.30 AND 5.0 TO 5.20. BOTTOM CONTACT IS GRADATIONAL
 R VUGS ARE INTENSELY LIMONITE/JAROSITE STAINED. SMALL FAULT WITH
 R ABUNDANT GOUGE OCCURS AT 3.80. CHLORITE OCCURS Pervasively
 R THROUGHOUT THE UNIT (2-3) AND AS SELVAGES ALONG QTZ/PY VEINLETS

D 300 520 91 X 021
 L 98R3 52 111
 D 520 725 100 X 022
 L 73R3 111

P 725 2050 FL9PHPP P1 Q* D) B+
 L <*<
 R FELSIC UNIT MADE UP OF PLAGIOCLASE PHENOCRYSTS SET IN MATRIX
 R FELDSPAR (60%) QTZ (30%) AND MAFICS (10%). THE MATRIX IS
 R EQUIGRANULAR FINE GRAINED WHILE THE PHENOCRYSTS RANGE FROM
 R <1 MM TO 9 MM. THE PHENOCRYSTS DO NOT POSSESS CRYSTAL HABIT.
 R THE UNIT IS LIGHT GREY. CHLORITE OCCURS ALONG OCCASIONAL
 R FRACTURES AS AMORPHOUS VEINLETS UP TO 5 MM WIDE. LIMONITE/
 R JAROSITE COATINGS OCCUR ON MOST FRACTURES. SERICITE OCCURS
 R THROUGHOUT AS A MINOR PERVASIVE ALTERATION (~5%) EXCEPT IN
 R NARROW ZONES THAT ARE ASSOCIATED WITH ABUNDANT PY WHERE THE SE
 R CONTENT REACHES 15% SMALL FAULT AT 7.65 M (WITH GOUGE). VERY
 R WEAK FOLIATION AT 35

D 725 860 100 X 000
 L 95R3 82 100
 N 860 950 100PYXTFAH P) P+ D) <1

	From	To	Sample	Cu %	Cu % (dupl)	Au g/t	Au g/t (dupl)	Ag ppm	Pb ppm	Zn ppm
A001	3.00	5.20	57501	.592	0.5880	.630		3.0	49	570
A001	5.20	7.25	57502	.532		.430		2.9	45	510
A001	7.25	8.60	57503	.316		.400		2.3	31	366



L 94R3 <>
 R SAME AS PREVIOUS PRINCIPAL UNIT EXCEPT marginally MORE PYRITE.
 D 950 1250 100 X 111
 L 83R3 113 112
 D 1250 1550 100 X 120
 L 78R3 143 111
 D 1550 1850 100 X 010
 L 50R3 174 122
 D 1850 2050 100 X 011
 L 97R3 204 112
 P 2050 16285 SE9TFLP

P1E(L+ D1 B.<)

<<<- Q(<*<*

R TUFF UNIT IN WHICH OVER 50% OF THE ROCK IS MADE UP OF LAPILLI
 R FRAGMENTS. FRAGMENTS ARE OF TUFF AND OF ASH TUFF COMPOSITION.
 R CLASTS RANGE FROM 4 MM TO 7 CM. MATRIX IS FINE GRAINED AND
 R COMPOSED OF FELDSPAR AND QTZ OF UNDETERMINED AMOUNTS. SERICITIC
 R ALTERATION OCCURS THROUGHOUT AND INCREASES IN INTENSITY (~15%)
 R IN NARROW BANDS. FROM 20.50 TO 24.65 IS BEST DESCRIBED AS A TUFF
 R UNIT WITH OCCASIONAL LAPILLI CLASTS. FROM 23.00 TO 23.50 IS A
 R CRYSTAL TUFF WITH ABUNDANT SERICITIC ALTERATION. CONTACTS
 R BETWEEN THE CRYSTAL TUFF AND THE SURROUNDING TUFF ARE
 R GRADATIONAL. FOLIATION (PRIMARY BEDDING?) WITHIN THE UNIT
 R AVERAGES 40%. PY OCCURS AS TINY DISSEMINATED CRYSTAL THROUGHOUT
 R AND AS BLEBS AND MICROVEINLETS. SOME LAPILLI CLASTS HAVE
 R ABUNDANT PY, LIKELY DUE TO DEPOSITION ALONG FRACTURES WITHIN
 R COMPETENT CLASTS. THE UNIT IS A LIGHT GREY COLOUR. VEINLET OF
 R MASSIVE PYRITE 1 CM WIDE OCCURS AT 22.35. SMALL FAULT WITH
 R BRECCIA, TENDING AT 25 DEGREES, OCCURS AT 27.25. ABUNDANT
 R LIMONITE /JAROSITE STAINING ALONG FRACTURES.

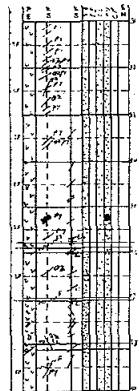
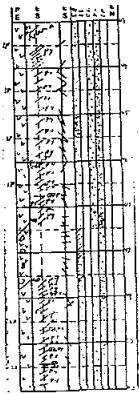
D 2050 2350 100 X 121
 L 91R3 235 022
 D 2350 2650 100 X 112
 L 85R3 265 111

R THE UNIT LOSES LAPILLI CLASTS FROM 33.95 TO 34.30. NO BLEBS OR
 R VEINLET PY IN THIS ZONE. SERICITE CONTENT DECREASES DOWNHOLE.
 R A FAULT ZONE OCCURS FROM 37.20 TO 37.70. THE ROCK IS VERY
 R ALTERED AND ABUNDANT GOUGE. THE FAULT TRENDS AT 35 DEGREES.
 R A SERICITIC ALTERATION HALO EXTENDS FOR 20 CM UPHOLE AND 65 CM
 R DOWNHOLE FROM THE FAULT. SERICITE IN THIS ZONE AVERAGES 30-35%.
 R ABUNDANT LIMONITE/JAROSITE ALTERATION.

D 2650 2950 100 X 110
 L 83R3 111
 D 2950 3250 100 X 111
 L 98R3 011

R A SMALL FAULT WITH GOUGE OCCURS AT 35.80. THE FAULT TRENDS AT

A001	8.60	9.50	57504	.444	.290	2.2	14	380		
A001	9.50	12.50	57505	.042	.100	1.6	9	204		
A001	12.50	15.50	57506	.039	.150	0.3	15	262		
A001	15.50	18.50	57507	.040	.080	0.2	18	180		
A001	18.50	20.50	57508	.061	.060	0.3	11	150		
A001	20.50	23.50	57509	.704	0.7000	.820	0.780	3.1	36	470
A001	23.50	26.50	57510	.820	.720	3.6	20	290		
A001	26.50	29.50	57511	.352	.210	1.6	17	67		
A001	29.50	32.50	57512	.352	.060	1.1	33	123		



R 25 DEGREES. A VERY SHALLOW ANGLE FAULT OCCURS BETWEEN 39.25 AND
 R 39.60. FAULT HAS FE SOLIDIFIED GOUGE.

D 3250 3550 100 X 010
 L 100R3 326 011
 D 3550 3850 98 X 010
 L 73R3 357 031
 D 3850 4150 98 X 031
 L 87R3 110

R A SMALL FAULT WITH FE SOLIDIFIED GOUGE, TRENDING AT 35 DEGREES
 R OCCURS AT 43.25. VEINLET PY INCREASES IN ABUNDANCE BETWEEN 43.50
 R AND 47.50. CHLORITE CONTENT ALSO INCREASES IN THIS ZONE. A SMALL
 R FAULT WITH FE CEMENTED GOUGE, TRENDING AT 40 DEGREES, OCCURS
 R AT 46.05.

D 4150 4450 100 X 031
 L 98R3 418 110
 D 4450 4750 100 X 031
 L 70R3 448 111
 N 4750 4870 100SEXPAPP 000 P3 D)

R CRYSTAL TUFF SIMILAR IN COMPOSITION WITH PREVIOUS CRYSTAL TUFFS
 R WITHIN THIS HOLE EXCEPT FOR A MODERATE SERICITE ALTERATION (30-
 R 40%). UNIT IS A LIGHT YELLOWISH GREEN WITH A CRYSTAL TEXTURE.
 R GRAINS ARE EQUIGRANULAR FINE-MEDIUM. PY OCCURS ONLY AS TINY
 R DISSEMINATED CRYSTALS.

D 4870 5170 100 X 031
 L 91R3 509 110
 D 5170 5470 98 X 120
 L 92R3 570 110
 D 5470 5705 92 X 010
 L 40R3 570 130

R FROM 55.13 TO 55.25 OCCURS A BAND OF MASSIVE SULPHIDE
 R CONTAINING 60% PY (THE REST IS GANGUE).

N 5585 5595 XMCOR

R PROBABLE FAULT LOCATED HERE. ABUNDANT LIMONITE/JAROSITE
 R STAINING ON FRAGMENTS.

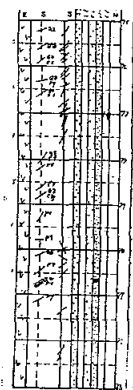
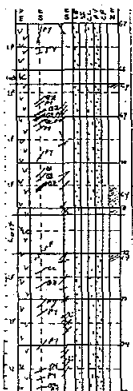
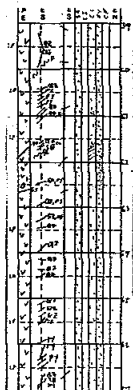
R SERICITE INCREASES BETWEEN THE FAULT (?) AND THE NESTED UNIT.

N 5705 5815 98SEXPAPP 100 P2 <+ D+
 L 25R2 221 <)

R SIMILAR IN COMPOSITION AS PREVIOUS CRYSTAL TUFF (LAST PRINCIPAL
 R UNIT). SLIGHTLY MORE DEVITRIFIED GLASS SHARDS THAN PREVIOUS.
 R FOLIATION AT 40 DEGREES. TOP CONTACT IS A FAULT. FRACTURE WITHIN
 R THE UNIT ARE HIGHLY LIMONITE/JAROSITE STAINED. CHLORITE OCCURS
 R AS FRACTURE FILLS AND QTZ VEINS.

R SMALL FAULT WITH FE CEMENTATION AT 58.45.

A001	32.50	35.50	57513	.392	.110	1.2	13	148
A001	35.50	38.50	57514	.179	.130	2.2	41	70
A001	38.50	41.50	57515	.376	.090	0.9	22	82
A001	41.50	44.50	57516	.259	.220	0.9	41	120
A001	44.50	47.50	57517	.480	.280	1.7	46	222
A001	47.50	48.70	57518	.064	.040	0.2	17	730
A001	48.70	51.70	57519	.270	.130	1.0	24	378
A001	51.70	54.70	57520	.416	.140	1.1	40	272
A001	54.70	57.05	57521	.500	.130	1.2	27	65
A001	57.05	58.15	57522	.069	.100	0.4	106	136



R SMALL FAULT WITH CLAY ALTERATION AT 60.00 (TRENDS AT 25 DEGREES)

D 5815 6000 96 X 100
 L 96R3 600 111
 D 6000 6175 98 X 121
 L 96R3 001
 N 6175 6265 98CLXTFXL 001 P= P3 D1
 L 96R3

R CRYSTAL TUFF. ABUNDANT, PERVASIVE CHLORITE ALTERATION THROUGHOUT
 R GRAIN SIZE IS SMALLER THAN PREVIOUSLY OBSERVED. A SMALL FAULT
 R (TRENDING AT 40 DEGREES) OCCURS AT 61.80. DISSEMINATED PY ARE
 R LARGER AND MORE ABUNDANT THAN PREVIOUSLY OBSERVED. BOTTOM
 R CONTACT IS GRADATIONAL.
 R FROM 66.80 TO 67.20 THE UNIT POSSESSES A WUGGY TEXTURE DUE TO
 R DISSOLUTION OF SULPHIDES.

D 6265 6565 100 X 021
 L 100R3 631 001
 N 6800 6830 XMCOR

R CLAY ALTERATION IN A LIMITED ZONE AROUND THIS AREA.

D 6565 6865 90 X 111
 L 90R3 661 110
 D 6865 7200 73 X 120
 L 37R3 692 121
 N 7110 7200 XMCOR

R MAJOR CLAY ALTERATION IN THE FRAGMENTS IN THIS ZONE. A FAULT
 R OCCURS AT 72.00 (TRENDING 15 DEGREES)

D 7200 7500 100 X 011
 L 60R3 722 131

R FROM 76.00 THE LAPILLI CLASTS GET DARKER(MORE CHLORITE ALTERED?)
 R AND MORE FRAGMENTAL/ANGULAR. DIFFUSE CHLORITE ENVELOPES ARE
 R OCCURRING AROUND QTZ VEINS.

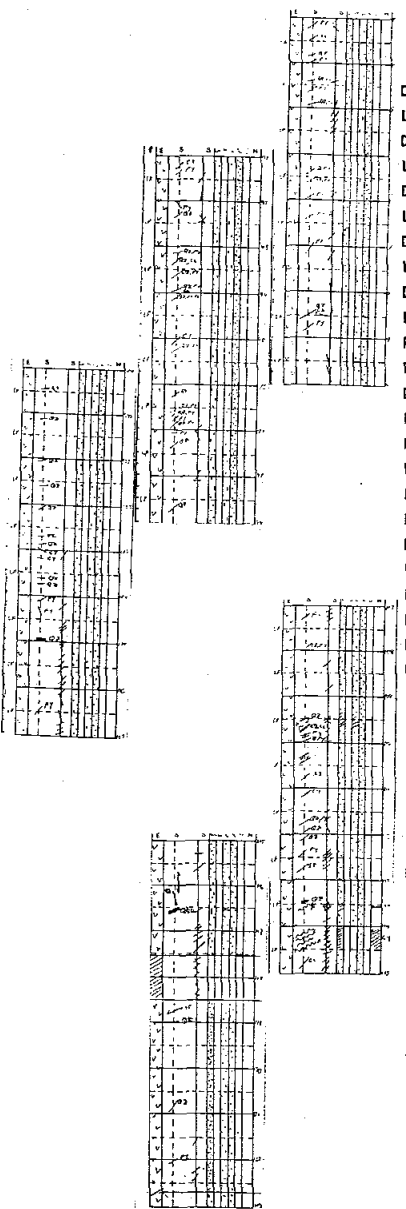
D 7500 7800 98 X 011
 L 30R2 753 211
 D 7800 8100 98 X 121
 L 50R2 783 110

R ABUNDANT SULPHIDE OCCURS IN A QTZ VEIN AT 80.75

D 8100 8400 98 X 011
 L 92R2 814 110
 D 8400 8700 98 X 011
 L 63R2 844 111
 D 8700 9000 98 X 111
 L 92R2 875 110

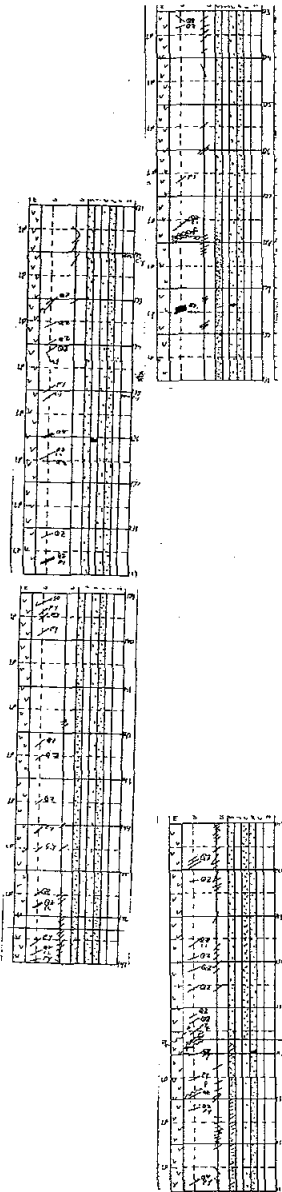
R FROM APPROX. 92.00 DOWNHOLE, THE LAPILLI FRAGMENTS DECREASE IN
 R SIZE (AVERAGE 7 MM) AND ABUNDANCE (35-40% OF UNIT)

A001	58.15	60.00	57523	.440	.150	1.1	36	60
A001	60.00	61.75	57524	.664	0.6600	.140	1.6	22 91
A001	61.75	62.65	57525	.105	.090	0.5	6	500
A001	62.65	65.65	57526	.260	.050	0.8	29	56
A001	65.65	68.65	57527	.217	.090	0.9	42	87
A001	68.65	72.00	57528	.568	.330	1.7	80	338
A001	72.00	75.00	57529	.299	.280	1.5	400	1670
A001	75.00	78.00	57530	.228	.110	0.6	37	113
A001	78.00	81.00	57531	.175	.120	0.4	18	164
A001	81.00	84.00	57532	.238	.090	0.6	15	151
A001	84.00	87.00	57533	.291	.270	1.2	58	202
A001	87.00	90.00	57534	.091	.140	0.5	24	89
A001	90.00	93.00	57535	.077	.140	0.4	12	60



D 9300 9600 100 X 021
 L 100R2 936 000
 D 9600 9900 100 X 021
 L 98R2 966 111
 D 9900 10200 100 X 001
 L 100R2 997 000
 D 10200 10500 100 X 102
 L 96R2 1027 110
 D 10500 10800 98 X 010
 L 50R2 1058 121
 R FROM APPROXIMATELY 108.00 DOWN, PY GRAIN SIZE DECREASES TO VERY
 R FINE.
 D 10800 11100 98 X 011
 L 92R2 1089 021
 R SMALL FAULT OF UNDETERMINED TREND AT 109.55. FAULT OCCURS AT A
 R SMALL QTZ VEIN. MAJOR LI/JA ALTERATION IN THE RUBBLE OF THIS
 R ZONE.
 R SMALL ASH TUFF BAND FROM 110.30 TO 110.40
 D 11100 11400 96 X 021
 L 73R2 1119 131
 R FAULT OF UNDETERMINED TREND AT 113.60. MODERATE LIMONITE AND
 R CLAY ALTERATION IN THIS ZONE.
 R FAULT ZONE FROM 114.20 TO 114.50. TREND IS UNDETERMINED.
 R ABUNDANT CLAY AND MINOR LIMONITE ALTERATION OCCURS ON THE
 R FRAGMENTS WITHIN THIS ZONE.
 R FOLIATION INCREASES IN INTENSITY FROM APPROX. 112.0 TO 115.70
 R WHERE THE FOLIATION BENDS AND BECOMES ROUGHLY PARALLEL TO THE
 R CORE AXIS. THIS WAVY AND IN PLACES KINKED FOLIATION EXTENDS
 R FROM 115.70 TO 116.55 WHERE A 3 CM WIDE QTZ VEIN TRUNCATES THE
 R UNIT. FOLIATION BEYOND THE QTZ VEIN IS BACK TO THE TYPICAL TYPE
 R OF THE UNIT: WEAK-MODERATE AT 40 DEGREES.
 D 11400 11755 98 X 111
 L 45R2 1149 342
 N 11755 11850 76BXANDY 000
 L OR 1180 251
 R ANDESITE DYKE. DARK GREEN, MAGNETIC. SLIGHTLY VUGGY WITH
 R OCCASIONAL VUGS FILLED WITH QTZ. BLOCKY. LIMONITE/JAROSITE
 R STAINING ALONG MOST FRACTURES.
 A003 11755 11850 16500
 N 11850 12270 98SE9TUFF 111 P2 L= D= B.<-
 L 98R3 1210 110
 R MODERATELY FOLIATED, MEDIUM GREY TUFF UNIT. UNIT HAS A BANDED
 R APPEARANCE. VERY FINE- FINE GRAINED EQUIGRANULAR CRYSTALS OF
 R QTZ AND FELDSPAR (AMOUNTS UNDETERMINABLE). SMALL LAPILLI TUFF
 R BED FROM 121.50 TO 121.80 CONTAINING CHLORITE ALTERATION

A001	93.00	96.00	57536	.069	.060	0.4	10	81
A001	96.00	99.00	57537	.155	.090	0.5	8	63
A001	99.00	102.00	57538	.104	.060	0.5	15	64
A001	102.00	105.00	57539	.081	.050	0.4	21	83
A001	105.00	108.00	57540	.104	.050	0.5	21	146
A001	108.00	111.00	57541	.070	.100	0.3	17	122
A001	111.00	114.00	57542	.146	.050	0.8	22	126
A001	114.00	117.55	57543	.083	.040	0.4	24	187
A001	117.55	118.50	57544	.243	0.2440	0.2	12	194
A001	118.50	121.00	57545	.033	.040	0.2	12	70
A001	121.00	122.70	57546	.056	.050	0.2	12	48



R BETWEEN THE CLASTS. ABUNDANT SERICITIC ALTERATION IN THIS UNIT
 R (20-25%) AND MINOR CHLORITE ALTERATION (5%). PY OCCURS AS TINY
 R DISSEMINATED CRYSTALS.
 R LAPILLI FRAGMENTS CONSTITUTE OVER 50% OF THE UNIT. CLASTS RANGE
 R FROM ASH TUFF TO CRYSTAL TUFF TO HIGHLY CHLORITIZED FRAGMENTS.
 R UNIT FROM HERE IS MODERATELY FOLIATED AT 50 DEGREES.

D 12270 12570 100 X 010
 L 100 X 120
 D 12570 12870 100 X 010
 L 72R2 1271 120

R FAULT TRENDING AT 70 DEGREES, SITUATED FROM 127.85 TO 127.95.
 R ABUNDANT GOUGE (WITH FRAGMENTS) AND CLAY WITHIN THIS ZONE.
 R IMMEDIATELY BELOW THE FAULT, THE LAPILLI CLASTS CONTENT
 R DECREASES (30-40% OF UNIT) AND THE SERICITE CONTENT INCREASES
 R TO ~20%
 R 15 CM WIDE QTZ VEIN WITH CHLORITE LAMINATIONS BETWEEN 129.35 TO
 R 129.50. FOLIATION IS DISRUPTED BY THE VEIN.

D 12870 13170 100 X 010
 L 92R2 1301 131
 D 13170 13470 100 X 111
 L 96R2 1332 110
 D 13470 13770 100 X 011
 L 100R2 1362 000

R SMALL QTZ VEINS AT 136.00 WITH A 3 CM WIDE SILICIFIED ENVELOPE
 R THE VEIN DISRUPTS THE FOLIATION.

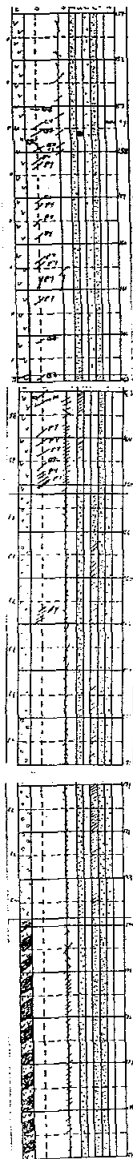
D 13770 14070 98 X 010
 L 98R2 1393 000
 D 14070 14370 100 X 010
 L 96R2 1423 010
 D 14370 14670 98 X 010
 L 58R2 1454 130

R UNIT IS BLOCKY FROM 145.40 TO 146.30

N 14630 15170 98CLXTUFF P1 P1 D1 <<
 L R3 14884 <+

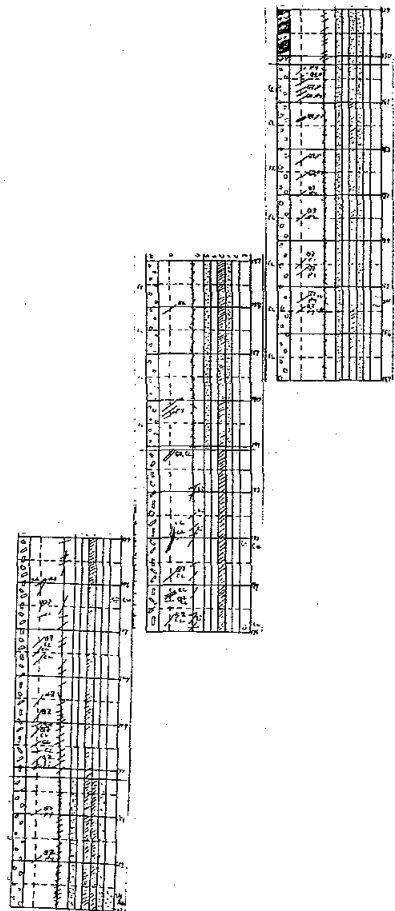
R FINE GRAINED LIGHT GREEN UNIT. VERY WEAK FOLIATION AT 50 DEGREES
 R FOLIATION INCREASES IN INTENSITY TO WEAK IN THE LAST METRE.
 R BOTTOM CONTACT IS A FAULT. UNIT IS COMPOSED OF QTZ, AND
 R FELDSPAR WITH SERICITIC AND CHLORITIC ALTERATION. THE CHLORITE
 R ALTERATION TENDS TO OCCUR IN WIDE, DIFFUSE BANDS. PY PRIMARILY
 R OCCURS AS TINY DISSEMINATED CRYSTAL THROUGHOUT THE UNIT.
 R SMALL FAULT FROM 151.70 TO 151.80, TRENDING AT 45 DEGREES.
 R ABUNDANT CLAY GOUGE WITHIN THE ZONE.
 R SERICITIC CONTENT GREATER THAN PREVIOUSLY SEEN IN THIS UNIT
 R FROM 151.70 ON (NOW 25-30%).
 R SMALL FAULT AT 152.80, WITH CLAY GOUGE.

A001	122.70	125.70	57547	.161	.050	0.5	18	96
A001	125.70	128.70	57548	.129	.050	0.4	17	126
A001	128.70	131.70	57549	.055	.040	0.3	18	128
A001	131.70	134.70	57550	.057	.050	0.4	15	54
A001	134.70	137.70	57551	.048	.100	0.6	38	240
A001	137.70	140.70	57552	.049	.050	0.4	17	34
A001	140.70	143.70	57553	.060	.060	0.6	30	137
A001	143.70	146.30	57554	.043	.140	1.0	83	223
A001	146.30	149.00	57555	.015	.060	0.4	23	258
A001	149.00	151.70	57556	.024	.080	0.3	16	156



D 15170 15470 92 X 011
 L 14R2 1545 112
 D 15470 15770 98 X 011
 L 74R2 1576 111
 D 15770 16070 100 X 020
 L 87R2 1606 110
 R A SILICIFICATION ENVELOPE OCCURS AROUND A SMALL QTZ VEIN AT
 R 157.60
 D 16070 16285 100 X 110
 L 97R2 100
 P 16285 16520 98SEXTUFF P3 D+ <1
 L 13R2 1637 Q(<)
 R TUFF UNIT WHICH HAS UNDERGONE MODERATE (30-40%) PERVASIVE
 R SERICITIC ALTERATION. FROM 163.70 TO 165.20 THE UNIT IS VERY
 R CRUMBLY. THIS ZONE ALSO CONTAINS ABUNDANT MICROVEINS OF PY,
 R PY ALSO OCCURS AS SMALL DISSEMINATED CRYSTALS. QTZ, FELDSPAR
 R AND VERY MINOR MAFICS (<5%) MAKE UP THE PRIMARY CONSTITUENTS
 R OF THE UNIT. THE UNIT IS LIGHT GREY AND EQUIGRANULAR FINE.
 R FOLIATION IS WEAK TO MODERATE AT 50 DEGREES.
 P 16520 17380 CL9RBZN P1 P3 D1 D(<=<
 L
 R RUBBLE ZONE OF A HIGHLY ALTERED, CHLORITIC (30-40%), SERICITIC
 R (10-13%) ROCK. UNIT IS VERY FINE-FINE GRAINED, LIGHT GREEN ROCK
 R UNIT HAS BEEN RUBBLED TO SMALL PIECES AND FLAKES. ORIGINAL
 R COMPONENTS REMAINING ARE QTZ AND FELDSPAR OF UNDETERMINED
 R AMOUNTS. PY OCCURS AS DISSEMINATED CRYSTALS AND MICROVEINLETS.
 R MINOR CP SEEN. THE TOP 1 METRE IS MORE SERICITIC THAN CHLORITIC
 R (5-10%).
 D 16520 16820 90 X 010
 L 0R2 1667 XXX
 D 16820 17120 90 X 000
 L 0R2 1698 XXX
 D 17120 17380 90 X 000
 L 0R2 1728 XXX
 P 17380 18020 KR9BXQZ Q1 Q2 D1 <)
 L
 R UNIT IS A TUFF WHICH HAS BEEN INTRUDED BY QTZ SO THAT ~60% OF
 R THE DEFINED UNIT IS INTRUDED QTZ. AFTER (DURING?) THE QTZ
 R EMPLACEMENT SHEARING HAS BROKEN AND MILLED THE QTZ MODERATELY.
 R THIS IS PROBABLY THE SAME EVENT WHICH PRODUCED THE SURROUNDING
 R RUBBLE ZONE. THE GREATER COMPETENCY OF THIS UNIT (DUE TO THE
 R QTZ) HAS KEPT IT TOGETHER. THE ORIGINAL ROCK IS HIGHLY
 R CHLORITIZED AND SERICITIZED. PY OCCURS IN BOTH THE QTZ AND
 R COUNTRY ROCK AS DESSIMINATED CRYSTALS AND OCCASIONAL VEINLETS.
 D 17380 17680 90 X

A001	151.70	154.70	57557	.074	.140	1.0	28	168
A001	154.70	157.70	57558	.068	.200	2.0	140	670
A001	157.70	160.70	57559	.069	.130	0.8	35	85
A001	160.70	162.85	57560	.084	.170	0.7	20	83
A001	162.85	165.20	57561	.258	.180	7.0	91	500
A001	165.20	168.20	57562	.380	.050	1.4	25	338
A001	168.20	171.20	57563	.428	.130	1.1	22	264
A001	171.20	173.80	57564	.190	.080	0.6	9	173



L		21R3 1759	131						
D	17680 17890	95 X							
L		48R3 1789	131						
D	17890 18020	96 X							
L		35R3	131						
P	18020 19110	CLXRBZN		P1 P3 D1	<< TN				
L				Q+	<< L<				
R		RZBBLE ZONE OF A HIGHLY ALTERED, CHLORITIC (30-40%), SERICITIC (10-15%) ROCK. ORIGINAL COMPONENTS REMAINING ARE QTZ AND F-SPAR IN UNDETERMINED AMOUNTS. UNIT IS A FINE GRAINED, LIGHT GREEN ROCK. MINOR CLAY COMPONENT IN THE UNIT (2-3%) UNIT IS A LITTLE MORE COMPETENT THAN THE PREVIOUS RBZN WITH NUMEROUS 3 CM WIDE ANGULAR PIECES OF CORE PRESERVED (UNIT MAY HAVE BEEN A LAPILLI TUFF BEFORE RUBBLE EVENT). OCCASIONAL QTZ VEINLETS SEEN IN THE PIECES, PY OCCURS AS DISSEMINATED CRYSTALS THROUGHOUT AND ASSOCIATED WITH QTZ VEINLETS. POSSIBLY TENNANTITE IS TWO SMALL QTZ VEINLETS AT APPROX. 185.30.							
D	18020 18320	90 X	020						
L		OR2 1820	777						
D	18320 18620	95 X	020						
L		OR2 1850	777						
D	18620 18810	80 X	010						
L		OR2 1881	777						
D	18810 19110	67 X	010						
L		OR2 1911	777						
P	19110 20020	MXXANPP		P3		CU			
L				C<	<<	S<			
R		LIGHT MEDIUM GREEN, MASSIVE UNIT COMPOSED OF VERY FINE-FINE GRAINED PLAGIOCLASE AND HORNBLende OF APPROX. EQUAL ABUNDANCE PHENOCRYST OF PLAGIOCLASE RANGING FROM 2 MM TO 6 MM IN SIZE MAKE UP APPROX. 30% OF THE UNIT. K-SPAR OCCURRING AS VERY LARGE PHENOCRYSTS MAKE UP 2% OF THE UNIT AND RANGE FROM ANHEDRAL TO EUHEDRAL AND HAVE UNDERGONE VARYING DEGREES OF ALTERATION (BASED ON THE INTENSITY OF THE BROWN COLOUR OF THE PHENOCRYSTS). THE MAFICS HAVE UNDERGONE MODERATE CHLORITE ALTERATION THROUGHOUT THE UNIT. UNIT IS HIGHLY MAGNETIC. QTZ/CHLORITE VEINS AND CHLORITE VEINS?(LARGE MASSES OF PURE CHLORITE) OCCUR IN THE UNIT. MOST OF THESE HAVE BEEN ALTERED AND SHOW EXTENSIVE DISSOLUTION AND HEMATITE/LIMONITE/JAROSITE ALTERATION AS WELL AS A DULL OLIVE COLOURED ALTERATION OF THE PURE CHLORITE VEINS. LI/JA STAINING OCCURS ON MOST FRACTURES. NATIVE COPPER SEEN IN THE CHLORITE VEINS AND IN THE CHLORITE PATCHES OF THE QTZ/CHLORITE VEINS.							
D	19110 19410	100 X	110						
L		43R3	121						

A001	173.80	176.80	57565	.804	.420	4.0	56	830
A001	176.80	178.90	57566	.648	.780	0.750	2.0	33
A001	178.90	180.20	57567	.540	.740		1.5	28
A001	180.20	183.20	57568	.660	.450		2.0	43
A001	183.20	186.20	57569	.828	.510		2.2	66
A001	186.20	188.10	57570	.684	.190		3.9	86
A001	188.10	191.10	57571	.840	0.8240	.250	3.7	78
A001	191.10	194.10	57572	.063	.010		0.2	10



A003 19110 20020 13800

D 19410 19710 100 X

L 70R3 1942

D 19710 20020 93 X

111

L 52R3 1972

111

P 20020 24370 CL9RBZN

P1 P3 D3 B=<+ AZTN

Q+ <+ O(Q)

BUBBLE ZONE OF A HIGHLY ALTERED, CHLORITIC (30-40%), SERICITIC (10-15%) ROCK. ORIGINAL COMPONENTS REMAINING ARE QTZ AND F-SPAR IN UNDETERMINED AMOUNTS. UNIT IS A FINE GRAINED, LIGHT GREEN ROCK. MINOR CLAY COMPONENT IN THE UNIT (2-3%). OCCASIONAL PIECES QTZ SEEN. PY VERY ABUNDANT (30%) THROUGHOUT THE WHOLE UNIT AS DISSEMINATED CRYSTALS AND MICROVEINS. CP SEEN AS SMALL BLEBS THROUGHOUT. AZURITE AND TENNANITE SEEN AS IREDESCENT BLUE PATCHES AND BLACK GRANULAR MASSES, RESPECTIVELY. SOME SPHALERITE (<1% OF UNIT) OCCURRING AS A BLACK TO RED, LENTICULAR PATCHES ASSOCIATED WITH A QTZ VEIN-OCCURS BETWEEN 220 AND 221. ABUNDANT LOST CORE AT THE BOTTOM OF THE UNIT.

D 20020 20330 83 X

010

L OR2 2033

XXX

D 20330 20630 98 X

020

L OR2 2063

XXX

D 20630 20940 67 X

010

L OR2 2094

XXX

D 20940 21240 67 X

000

L OR2 2124

XXX

N 21240 21400 87SEXRBZN

000

P3 D3 B=<+

L OR2

XXX

Q+

VERY SIMILAR TO THE SURROUNDING 'P' UNIT EXCEPT FOR THE LOSS OF THE CL ALTERATION. PERVASIVE SE ALTERATION THROUGHOUT AT 30%. PY MINERALIZATION VERY ABUNDANT. SLIGHTLY LESS CP CONTENT THAN BEFORE.

D 21400 21700 77 X

000

L OR2 2155

XXX

D 21700 22160 67 X

000

L OR2 2216

XXX

D 22160 22460 78 X

000

L OR2 2246

XXX

D 22460 23070 20 X

000

L OR2 2277

XXX

D 23070 23990 6 X

000

L OR2 2338

XXX

D 23990 24370 37 X

000

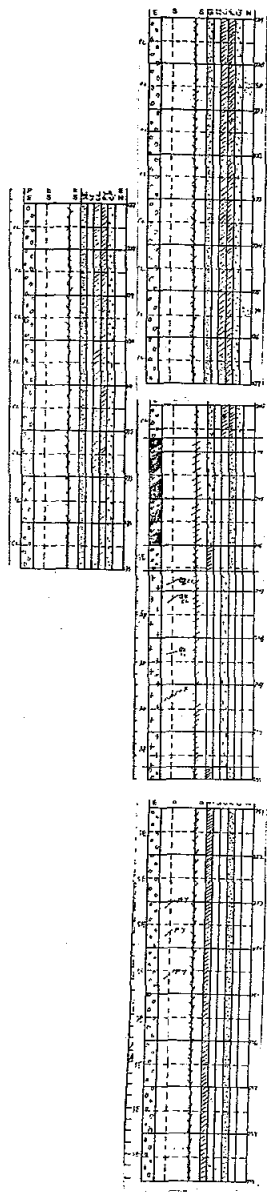
L OR2 2429

XXX

P 24370 25935 SE5RBZN

P3 D1 <+

A001 194.10 197.10 57573	.079	.010	0.1	15	230
A001 197.10 200.20 57574	.060	.020	0.2	14	294
A001 200.20 203.30 57575	1.132	.440	2.6	16	112
A001 203.30 206.30 57576	1.460 1.6400	.620	2.5	9	47
A001 206.30 209.40 57577	1.236	.510	2.8	8	41
A001 209.40 212.40 57578	.852	.350	1.6	7	102
A001 212.40 214.00 57579	1.180	.200	0.7	9	15
A001 214.00 217.00 57580	.500	.210	0.6	4	128
A001 217.00 221.60 57581	.860	.390	1.6	6	140
A001 221.60 224.60 57582	1.196	.370	2.0	7	110
A001 224.60 230.70 57583	.864	.340	1.5	7	107
A001 230.70 239.90 57584	.828	.490	1.0	4	76
A001 239.90 243.70 57585	1.036	.400	1.7	4	116



P=

SERICITIC RUBBLE ZONE. MINOR CLAY ALTERATION (5% THROUGHOUT).
 PY AS DISSEMINATED CRYSTALS (10%) AND MICROVEINLETS (2-3%).
 NO CU MINERALS SEEN. UNIT IS LIGHT GREY AND FINE GRAINED.

24370 24600 100S5KRBX P1 <2
 35R3 2460 444

UNIT IS AN AREA OF THE SERICITIZED RUBBLE ZONE WHICH
 HAS BEEN INTRUDED BY A QTZ VEIN AND SILICIFIED IN PLACES, THEN
 LATER MODERATELY SHEARED. QTZ MAKES UP ~70% OF UNIT. ABUNDANT
 PY MICROVEINLETS OCCUR THROUGHOUT. UNIT IS NOT RUBBLED.

24600 24655 95 X 000
 052 XXX

24655 25075 BKXLAAP <+ HE
 <* C(

DARK GREEN ROCK, APHANITIC PRIMARILY ALTHOUGH LIMITED SECTIONS
 BECOME VERY FINE GRAINED. UNIT IS COMPOSED OF 60% HORNBLende
 (MAFICS) AND 40% F-SPAR (PROBABLY PLAGIOCLASE). UNIT WOULD BE
 BETTER DESCRIBED AS AN ANDESITE. MASSIVE. VERY MAGNETIC.
 OCCASIONAL QTZ/CL VEINLETS IN THE UNIT. CL ALSO OCCURS AS
 FRACTURE FILLS. AN OLIVE COLOURED MINERAL OCCURS AS COATINGS
 ALONG SOME FRACTURES AND IN ASSOCIATION WITH SOME QTZ VEINLETS.
 THIS MINERAL HAS BEEN INTERPRETED AS A WEATHERING PRODUCT OF
 CHLORITE. SPECULARITE SEEN AS COATINGS ALONG SOME FRACTURES IN
 THE UNIT. SMALL FAULT AT 249.25 TRENDING AT 35 DEGREES.

24655 24900 98 X 011
 10R3 2490 142

24900 25073 98 X 000
 0R3 142

A003 24655 25075 17400

25075 25210 85 X 000
 0R2 2521 XXX

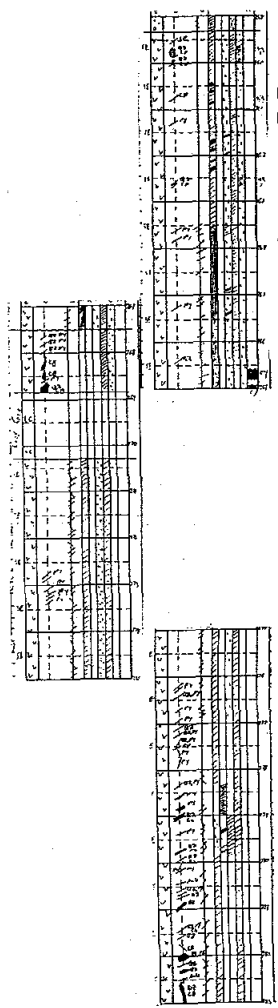
25210 25510 95 X 030
 0R2 2551 XXX

25510 25935 53 X 000
 0R2 2582 XXX

25935 28600 SE9TUFF P4Q=0+ D3 B)<=
 V+<)

TUFF UNIT COMPOSED OF QTZ AND F-SPAR (OF UNDETERMINED AMOUNTS)
 WHICH HAS UNDERGONE MAJOR SERICITIC ALTERATION (40-50%). UNIT IS
 A MEDIUM GREY WITH A SLIGHTLY MOTTLED APPEARANCE. GRAIN SIZE
 VARIES FROM VERY FINE TO FINE. THE ZONE FROM 259.35 TO 263.50
 IS RELATIVELY COMPETENT WITH FEW FRACTURES. QTZ PODS OCCUR IN
 VARIOUS PLACES THROUGH THIS SECTION. THESE PODS HAVE BEEN
 EXTENSIVELY FRACTURED AND INTRUDED BY CP (PRIMARILY) AND PY.
 FOLIATION IS MODERATE TO INTENSE AT 45. FROM 263.50 TO 267.50

A001	243.70	246.00	57586	1.064	.730	3.1	48	220
A001	246.00	246.55	57587	.652	.380	2.3	19	110
A001	246.55	249.00	57588	.007	.040	0.1	14	227
A001	249.00	250.75	57589	.009	.050	0.2	7	268
A001	250.75	252.10	57590	.720	.300	2.0	30	112
A001	252.10	255.10	57591	.796	.640	4.6	60	560
A001	255.10	259.35	57592	.476	.220	1.6	15	154



R THE GRADE OF ALTERATION INCREASES WITH VERY ABUNDANT SERICITE
R (50-60) AND IN PATCHES, CLAY. PY VERY ABUNDANT THROUGHOUT THE
R ZONE AS DISSEMINATED CRYSTALS. CP OCCURS PRIMARILY AS FRACTURE
R FILLS. LIMITED AREAS HAVE A LIGHT YELLOWISH GREEN COLOUR,
R THOUGHT TO BE DUE TO VERY INTENSIVE SERICITIC ALTERATION.

R 25930 26350 GYPSUM: CLEAR AND MILKY, VEINS UP TO 5 MM STOCKWORK.

D 25935 26235 100 X 010
L 100R2 2612 000

D 26235 26535 100 X 010
L 85R2 2643 031

D 26535 26750 96 X 010
L OR2 2673 031

N 26750 26880 98MXTUFF 220 D3 B*←
L 32R2 000 V= V=←*

R MASSIVE VERSION OF THE SURROUNDING TUFF CONSISTING OF FINE
R GRAINED, QTZ, F-SPAR AND MINOR MAFICS. TOTALLY UNALTERED.

R HARD. UNIT (PROBABLY DUE TO ITS MORE BRITTLE NATURE THAN THE
R SURROUNDING ROCKS) HAS BEEN INTRUDED BY LARGE QTZ/CARBONATE
R AND CARBONATE VEINS. LARGE BLEBS OF CP ASSOCIATED WITH THESE
R VEINS. PY OCCURS AS DISSEMINATED CRYSTALS, MICROVEINLETS AND
R BLEBS WITHIN QTZ VEINS.

N 26880 27030 XMCCR

R UNIT FROM 270.30 TO 276.30 HAS MINOR CHLORITE ALTERATION (5-9%)
R AND A BLOCKY TEXTURE.

D 27030 27340 85 X 020
L 6R2 2704 555

D 27340 27640 75 X 010
L OR2 2734 555

D 27640 27940 100 X 140
L 57R2 2765 130

R SOME PYRITE VEINLETS IN THIS ZONE SHOW ZONING WITH QTZ ON THE
R OUTSIDE AND CARBONATE AND PYRITE (AS DISTINCT PHASES) ON THE
R INSIDE.

R ZONE FROM 278.40 TO 279.00 IS MODERATELY SILICIFIED. THIS ZONE
R HAS UNDERGONE INTENSIVE PYRITE INTRODUCTION.

R ZONE FROM 279.00 TO 279.80 IS MODERATELY CHLORITE ALTERED.
R OCCASIONAL ANKERITE VEINLETS SEEN

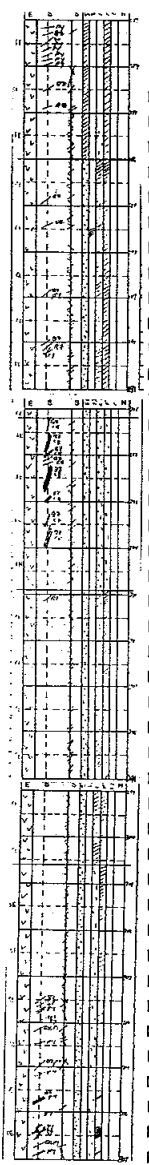
D 27940 28240 100 X 131
L 57R2 2795 130

R LARGE VEIN OCCURRING FROM 282.50 TO 283.00 CONSISTS OF QTZ WITH
R VERY MINOR, INTERSTITIAL CARBONATE.

D 28240 28400 100 X 111
L 63R2 010

D 28400 28600 98 X 010
L 18R2 2856 132

A001	259.35	262.35	57593	.464	.330	2.0	11	56
A001	262.35	265.35	57594	.100	.100	0.7	8	204
A001	265.35	267.50	57595	.175	.160	1.1	33	300
A001	267.50	268.80	57596	.496	.220	3.4	200	2400
A001	270.30	273.40	57597	.532	.340	1.5	23	183
A001	273.40	276.40	57598	.408	.390	1.5	34	136
A001	276.40	279.40	57599	.504	.390	1.8	15	50
A001	279.40	282.40	57600	.432	.410	2.1	51	280
A001	282.40	284.00	57601	.584	0.5680	10.0	1000	6400
A001	284.00	286.00	57602	.472	.240	2.7	263	360



P 28600 30060 CL7TUFF P1Q)P3 D3 <<

L

R VERY SIMILAR TO PREVIOUS 'P' UNIT EXCEPT FOR A DARK GREEN COLOUR DUE TO A MAJOR INCREASE IN CHLORITE ALTERATION (30-40%) AND CORRESPONDING DECREASE IN THE SERICITIC ALTERATION (NOW 15-20%). UNIT IS BLOCKY TO RUBBLE IN TEXTURE (THOUGH NOT LIKE THE 'RBZN')

R 28750 28760 SMALL ZONE OF SILICIFICATION.

R 28750 28800 VERY INTENSE ALTERATION IN THIS ZONE.

D 28600 28900 96 X 010

L 17R2 2886 353

D 28900 29120 X 010

L R2 353

N 29120 29490 98VVXTFAH 210 E2 L1 D-

L 32R3 2947 120 J= V2

R VERY FINE GRAINED, DARK GREEN UNIT OF QTZ F-SPAR AND MAFICS (PARTIALLY ALTERED TO CHLORITE). MASSIVE. UNIT IS MORE COMPETENT THAN THE SURROUNDING UNIT, THUS EXHIBITING A BLOCKY TEXTURE. DUE TO ITS BRITTLE NATURE, IT HAS BEEN INTRUDED BY NUMEROUS QTZ/ CARBONATE VEINS WHICH ARE AT A SHALLOW ANGLE TO THE CORE AXIS. BANDS OF CHLORITE OCCUR ALONG THE VEIN MARGINS AND OCCASIONALLY WITHIN THE VEINS. AREAS AROUND THE VEINS ARE BLEACHED TO A LIGHT GREEN (SERICITIZATION?) V.M. PY SEEN.

D 29490 29700 95 X 010

L 6R2 777

D 29700 30060 39 X 000

L OR2 777

P 30060 32030 SEXTUFF P2Q*L* D2 V1

L <(J(V+<)

R TUFF UNIT WHICH HAS UNDERGONE MODERATE SERICITIC ALTERATION (25-30%). UNIT IS MADE UP OF QTZ (40%) AND F-SPAR (ORIGINALLY 35-40%, NOW MOSTLY SERICITE). UNIT IS LIGHTLY GREY AND EQUIGRANULAR FINE. A VERY WEAK FOLIATION OCCURS THROUGHOUT AT 40 DEGREES. PY IS VERY ABUNDANT AND OCCURS AS DISSEMINATED CRYSTALS, VEINS AND MICROVEINS. THE TOP 3.0 METRES OF THE UNIT IS VERY RUBBLY. ANKERITE SEEN IN A QTZ VEIN AT 311.00. COMPETENT FOR THE MOST PART.

D 30060 30360 63 X 000

L OR3 3008 XXX

D 30360 30660 100 X 130

L 77R3 3039 111

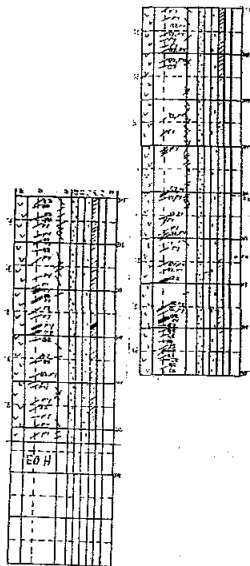
R 30570 30575 MASSIVE PY VEIN ASSOCIATED WITH A SMALL QTZ VEIN.

R 30630 30650 MASSIVE ANASTOMOSING PY VEIN ASSOCIATED WITH A SMALL QTZ VEIN

D 30660 30960 98 X 030

L 42R3 3069 141

A001	286.00	289.00	57603	.460	.300	2.0	37	257
A001	289.00	291.20	57604	.428	.180	1.5	40	233
A001	291.20	293.00	57605	.017	.020	0.2	9	122
A001	293.00	294.90	57606	.018	.040	0.1	5	200
A001	294.90	297.00	57607	.209	.150	0.9	10	140
A001	297.00	300.60	57608	.256	.180	0.8	10	71
A001	300.60	303.60	57609	.256	.330	1.1	19	73
A001	303.60	306.60	57610	.066	.330	1.4	18	57
A001	306.60	309.60	57611	.223	.390	3.3	4	180



D 30960 31260 98 X 130
 L 43R3 3100 140
 R A SMALL PATCH OF GREEN MICA OCCURS AT 312.40.
 R 31290 31300QTZ VEIN THAT HAS A 10 CM ZONE OF SILICIFICATION ABOVE IT.
 R 31370 31380QTZ VEIN WITH ABUNDANT PY.
 D 31260 31560 100 X 031
 L 100R3 3130 020
 D 31560 31860 100 X 031
 L 73R3 3161 121
 D 31860 32030 100 X 021
 L 65R3 3191 020
 R 31772 31780MASSIVE PY VEIN.

A001 309.60 312.60 57612	.231	.210	3.0	5	155
A001 312.60 315.60 57613	.264	.180	1.6	6	88
A001 315.60 318.60 57614	.223	.160	1.7	12	81
A001 318.60 320.30 57615	.288	.100	1.8	27	93

The A005 assay sets are selected
 composites based on copper grades
 and geology

	From	To	Length	Cu %	Au g/t
A005	3.00	9.50	6.50	.495	.472
A005	9.50	20.50	11.00	.044	.101
A005	20.50	26.50	6.00	.762	.770
A005	26.50	61.75	35.25	.356	.145
A005	61.75	87.00	25.25	.282	.167
A005	87.00	162.85	75.85	.080	.083
A005	162.85	173.80	10.95	.322	.107
A005	173.80	191.10	17.30	.737	.454
A005	191.10	200.20	9.10	.067	.013
A005	200.20	246.55	46.35	.967	.425
A005	246.55	250.75	4.20	.008	.044
A005	250.75	291.20	40.45	.462	.315
A005	291.20	320.30	29.10	.196	.208

/END

IDEN680201 KERR KS-065 8Q AUG90KME JTTAUG90S38 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 2600MT 106.70090.00-60.00 9521.00 9582.00 1678.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM

S001 2600 8090 106.70087.00-60.50
 S002 8090 10670 106.70085.00-59.50

A003
 AUMM MAG
 P 000 762 CSNG

L CASING, NO CORE
 P 762 1630 0X8TFXL D+ LIPL

L P3 P1 <) C1C)
 R OXIDIZED FRACTURED ZONE, YELLOW TO LIGHT GREY GREEN, VUGGY, LI
 R AND PL COATINGS PERVASIVE TO PATCHY QZ VEINS RUST AND VUGGY DUE
 R TO PATCHY QZ VEINS LEACHED SULFIDES; PARTIAL LEACHING OF DISS'D
 R PY; FRACTURED IN ALL DIRECTIONS, SOME BLUE AND WHITE CLAY
 R MINERALS; SOME LESS FRACTURED ZONES EXHIBIT QS ALT'N, WELL
 R FOLIATED.

D 762 950 79 7 130
 L 36R3 91 230

R QS TFLP PY DISS'D 7%, FOL'N 50-55 DEGREES, PY LEACHED, BLEACHING

D 950 1350 43 X
 L 13R2 122 XXX
 R MISSING 1 METER OF CORE, HIGHLY FRACTURED
 R FRACTURES MAY REPRESENT LEACHED VEINS THEREFORE NO VEINS
 R RECORDED ON GRAPHIC LOG.

D 1350 1630 89 0 120
 L 36R2 152 XXXX

R SLIGHTLY MORE COMPETENT THAN PREVIOUS, SOME UNALTERED IF IN
 R IN INTERVAL.

P 1630 2670 FRXTFXL P1 P= D=
 L G= <

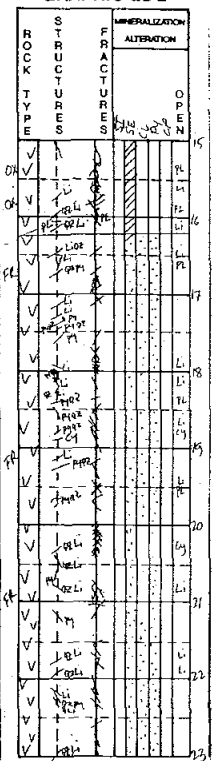
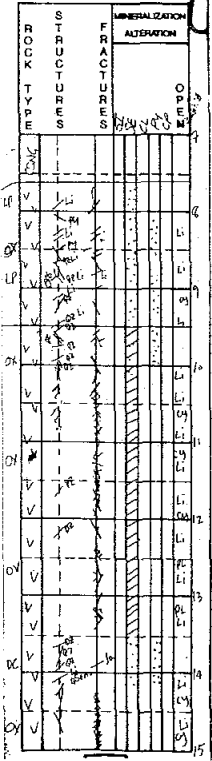
R SIMILAR TO PREVIOUS PGI LIMONITE, PYROLUSITE MAINLY ON FRACTURE
 R SURFACES THAN PERV. DISS'D PY LARGELY INTACT, PY IN QZ VEINS
 R LEACHED OUT, SOME VUGGINESS IN VEINS AND MATRIX OF ROCK. ROCK
 R MODERATELY TO STRONGLY FOLIATED, VEINS PARALLEL FOLIATION @
 R 25-30 DEGREES.

D 1630 1930 66 X 130
 L 38 183 211
 D 1930 2230 77 X 220
 L 14 213 332

	From	To	Sample	Cu %	Cu % Au g/t	Au g/t Au g/t	Ag ppm	Pb ppm	Zn ppm
				(dupl)		(dupl)			
A001	7.62	9.50	57001	.041	.310		2.0	24	60
A001	9.50	13.50	57002	.024	.240		1.6	37	14
A001	13.50	16.30	57003	.024	.040		1.7	19	64
A001	16.30	19.30	57004	.103	.050		1.3	7	77
A001	19.30	22.30	57005	.044	.110		1.4	14	74

GRAPHIC LOG

GRAPHIC LOG



L		47R4 427	332																
R		W-BLACK WAD COATINGS, 2 CM QZ CB VEIN, CB FORMS TENSION GASHES																	
R		PERPENDICULAR TO VEIN WALL, SOME CHL, POSSIBLY SOME CP WITH PY.																	
D	4450	4750	92 X	031															
L		54R4	457	100															
R		GOOD QS ENVELOPES AROUND PY VEINS.																	
R	4720	4721POSSIBLE CAVITY FILLING WITH SUBHEDRAL PY WALS AND MOLY ON																	
R		FOLIATION SURFACES.																	
D	4750	5050	87 X	121															
L		34R4	488	311															
R	3900	5050LITTLE OR NO CB IN THIS INTERVAL, BUT MORE FRACTURED WITH WAD																	
R		AND LI INSTEAD.																	
D	5050	5350	88 8	131	<D1														
L		39R4	518	210															
R		20% CRYSTAL TUFF, NO SHARP CONTACT, WEAK- MOD. FOLIATION, MORE																	
R		CHL RICH, MORE DISS'D PY AND PY VEINS WITH WQS ENVELOPES. EP																	
R		ASSOC AS PATCHES IN LARGER QSP VEINS, XCUT BY CB VEINS.																	
D	5350	5650	95 X			A001	41.50	44.50	57012	.303	.120	0.7	17	80					
L		84	549			A001	44.50	47.50	57013	.278	.120	0.6	13	78					
R		IRREGULAR, DISCONTINUOUS CB VEINS AND BLEBS OR AS FRACTURE																	
R		INFILL IN QZ VEINS. PY CONCENTRATED IN FRAGMENTS AS IS CHLORITE																	
D	5650	5950	88 X	130		A001	47.50	50.50	57014	.324	0.3220	.430	0.6	9	83				
L		67R4	579	211		A001	50.50	53.50	57015	.222	.100	0.5	7	74					
R		LITTLE CB VEINS																	
R	5920	5950LARGE QZ-CB VEIN, PARALLEL TO CORE AXIS, CP BLEBS, SOME PY,																	
R		CHL BLEBS CP <1%, CB PROBABLY SECONDARY; FOLIATION MODERATE,																	
R		GRADES INTO MORE SERICITE RICH INTERVAL BELOW.																	
D	5950	6250	95 X	131	P= P=	A001	53.50	56.50	57016	.201	.140	0.5	9	57					
L		79	610	121	P=	A001	56.50	59.50	57017	.320	.150	0.7	11	80					
R		LARGE [PY] @ 59.80 IN QZ CH VEIN.																	
R	6090	6110QZ RICH AREA WITH SUBHEDRAL PY, CP AND CHL BLEBS. LEACHING AND																	
R		WUGGY QZ VEIN @ 61.0 M.																	
R	6200	6240UNUSUAL MOTTLED TEXTURE UP TO 15% PY BLEBS, CHL AND YELLOW CY																	
R		ALTERED AREAS POSSIBLE FRAGMENTS. FOLIATION @ 55-60 DEGREES																	
R		DECREASING BACK TO 30																	
D	6250	6550	90 X	031	P= P+ D1 O+														
L		42	640	031	<														
R		VERY LITTLE CB, SOME BLEACHED ZONES @ 65.0 M, PY MAINLY DISS'D																	
R		AND WITH MOD. CHL ALTERATION OF FRAGMENTS, LITTLE QP VEINING.																	
D	6550	6850	90 X	130															
L		59	671	120															
D	6850	7010	94 X	131															
L		91	010																
R	6980	7010CB-SI ZONE, KRACKLED WITH PY, CP INTERSTITIAL IN FRAGMENTS,																	
R		SERICITE AND CHLORITE ALTERATION. CONTACT WITH LOWER UNIT																	

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION				
			OPEN	PL	LI	CH	COB
V	PL						39
V	PL						40
V	PL						41
V	PL						42
V	PL						43
V	PL						44
V	PL						45
V	PL						46
V	PL						47

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION				
			OPEN	PL	LI	CH	COB
V	PL						48
V	PL						49
V	PL						50
V	PL						51
V	PL						52
V	PL						53
V	PL						54
V	PL						55

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION				
			OPEN	PL	LI	CH	COB
V	PL						56
V	PL						57
V	PL						58
V	PL						59
V	PL						60
V	PL						61
V	PL						62
V	PL						63

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION				
			OPEN	PL	LI	CH	COB
V	PL						64
V	PL						65
V	PL						66
V	PL						67
V	PL						68
V	PL						69
V	PL						70
V	PL						71

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION				
			OPEN	PL	LI	CH	COB
V	PL						72
V	PL						73
V	PL						74
V	PL						75
V	PL						76
V	PL						77
V	PL						78
V	PL						79

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION				
			OPEN	PL	LI	CH	COB
V	PL						80
V	PL						81
V	PL						82
V	PL						83
V	PL						84
V	PL						85
V	PL						86
V	PL						87

R HEAVILY LI STAINED, POROUS, FRACTURED, BLEACHED.
P 7010 7980 PPXTUFF P+ P= D+LIPL
L <+ G) C(C) <+
R F.G. GREY GREEN ROCK, UNIFORM TEXTURE TO SPOTTY WITH
R EQUIGRANULAR PF(<2 MM) 10% PHENOCRYSTS AND CHLORITIZED MAFIC
R SPOTS 5% BARREN, WITH CB AND MINOR QS AND QS PY VEINS OCCURRING @
R END WITH SLIGHT INCREASE IN SERICITE ALTERATION MINOR FRAGMENTS
R PROBABLY DACITE COMPOSITION; DISS'D THROUGHOUT < 2%, WEAKLY
R FOLIATED, SOME FRAGMENTAL AREAS THEREFORE STIFF TUFFACEOUS
R WITH PHENOCRYSTS.

D 7010 7300 67 X 020
L 41R4 100
R JUMBLE, LOST CORE, ONLY 40 CM OF CORE
D 7300 7600 83 9 010
L 40R4 210
D 7600 7980 89 X 010
L 47R4 762 410
R MARK @ 79.3 M
P 7980 9790 XTFLP P= P1 D=

R GREEN GREY TO GREY GREEN, UNIFORM TO PATCHY, UP TO 50% FRAGMENTS
R VARYING COMPOSITION FRAGMENTS, 20% MORE QZ RICH, 10% XAL TUFF
R 10% OTHER. MATRIX VARIES IN GRAIN SIZE, GENERALLY BLACK
R PHENOCRYSTS. PY DISS'D EVENLY THROUGHOUT UP TO 10%, PY OR PQZ
R VEINS < 1% OF INTERVAL PY ALSO AS ALTERATION PRODUCT AROUND
R SMALL MAFIC FRAGMENTS. CB VEINS +/- QZ, 2% BARREN, ANGULAR.
R FOLIATION WEAK, FRACTURED AREAS TEND TO BE MORE SERICITIZED,
R ALL FRACTURES CONTAIN PL/WAD. COATINGS TO DENDRITIC.

D 7980 8300 86 X 211
L 53R4 823 210
R 8290 8300 SMALL GOUGE WITH CLAY, CHL, LIMONITE, SUBHEDRAL PY, SOME LOST
R CORE.

D 8300 8600 88 X 232
L 59R4 854 311

R 8430 8431 IRREGULAR QZ-CB VEIN WITH PY CP BLEBS, BLACK CHLORITE SELVAGES
R "VEIN" IN DACITE TUFF MATRIX SURROUNDED BY FRAGMENTS, FRAGMENTS
R DO NOT VEIN.

R 8480 8500 IRREGULAR QZ VEIN, VUGGY, WITH LIMONITE, CHLORITE, SOME PY
R STILL REMAINS. WHITE AND PINK CB IN SMALL BLEBS JUST BELOW
R @ 85.05 M

R 8560 8600 CORE LOST IN FRACTURED ZONE
R 8580 8600 LI FRACTURED ZONE, SOME QZ-PY VEINS; VERY VUGGY

D 8600 8900 90 X 131
L 43 884 310

R 8650 8720 LI ENVELOPES FRACTURED WITH LI, PL, LITTLE PY, MOSTLY SERICITIC

A001	68.50	71.50	57021	.213	.220	1.2	9	50
A001	71.50	74.50	57022	.056	.040	0.3	8	73
A001	74.50	77.50	57023	.049	.030	0.030	6	82
A001	77.50	80.50	57024	.044	0.0450	0.2	16	72
A001	80.50	83.50	57025	.094	.110	0.3	18	87
A001	83.50	86.50	57026	.186	.060	0.6	14	60
A001	86.50	89.50	57027	.043	.040	0.2	8	58

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	SERIALIZATION		OPEN
			DATE	TIME	
V	ch				103
V	ch				104
V	ch				105
V	ch				106
V	ch				107
V	ch				108
V	ch				109
V	ch				110
V	ch				111
V	ch				112
V	ch				113
V	ch				114
V	ch				115
V	ch				116
V	ch				117
V	ch				118
V	ch				119
V	ch				120

R AND @ EDGES CB LOOKS LIKE INFILLING BRXX'D CB
R END OF HOLE!!

The A005 assay sets are selected
composites based on copper grades
and geology

	From	To	Length	Cu %	Au g/t
A005	7.62	22.30	14.68	.046	.145
A005	22.30	71.50	49.20	.207	.160
A005	71.50	106.70	35.20	.066	.044
/END					

IDEN680201 KERR KS-066BQWL AUG90CCC JTTAUG90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 4570MT 177.70000.00-90.00 9678.00 9857.00 1638.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM
 S001 4570 13700 177.70 37.00-86.00
 S002 13700 17770 177.70 62.00-80.00

A003

ALUMM MAG

P 000 304 QV8D

L

R CASED HOLE TO 3.04 M.

P 304 1375 MX QZVN

<+ D)

Q+ V9

From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Ag ppm	Pb ppm	Zn ppm
				(dupl)	(dupl)			

A001	3.00	6.10	58141	.006	.060	2.0	8	4
A001	6.10	9.10	58142	.015	.070	2.8	8	3

R QTZ VEIN, LIGHT WHITE GREY TO WHITE, MASSIVE WITH "SUGARY" TEXTURE. BOXWORK SURFACE "PITTED" LIKELY REMNANT PYRITE. ORANGE BROWN OXIDE STAINING PARALLELING FRACTURES AND VUGS. DARKER BROWN CENTRE - BECOMES LIGHTER IN COLOUR AS IT EXTENDS OUTWARD. LOCALLY EARTHY TEXTURE. REMNANT FOLIATION AND ORIGINAL ALTERED TO GREEN CLAY - PALE GREEN IN COLOUR. WHITE POWDER, FAIRLY SOFT, MINOR CHLORITE ASSOCIATED. GREASY, HAIRLINE PYRITE MICROVEINING, RADIATES AND CROSSCUT EACH OTHER, PYRITIC STRINGERS PARALLEL FOLIATION NEAR BASE AT 30 DEGREES C.A. EXTENSIVELY FRACTURED AND BROKEN CORE, LOCALLY GROUND TO SMALL PIECES. OPAQUE WHITE VEINLETS, LATE STYLE GENERALLY 65-70 DEGREES C.A. CUT PYRITE INFILLED FRACTURES + GREEN CLAY PATCHES PYRITE VEINLETS INCREASE AT DEPTH.

D 304 610 32 X 001

L OR3 766

R 550 600ORANGE/RUST STAINING HALOS PYRITE FRACTURES.

R 590 597WHITE QTZ LATE VEIN - CAVITY WITH QTZ CRYSTALS, 4 - 8 MM

D 610 910 77 X 022

L OR3 61 656

N 750 770 XMCOR

R 840 845SILICIFIED RELICT ROCK - GREY TO PALE GREY, PATCHY, TEXTURES.

R NOT VIIBLE QTZ, SEGREGATIONS WITH GREEN CLAY INFILLING, QTZ AT

R 50 DEGREES C.A., SILICIFIED ROCK WITH WITH POSSIBLE FOLIATION

R 35 DEGREES C.A., PYRITIC VEINLETS PARALLEL FOLIATION AS DO

R PATCHES OF GREEN CLAY OCCASIONALLY RIMMED BY FINE GRAINED PYRITE

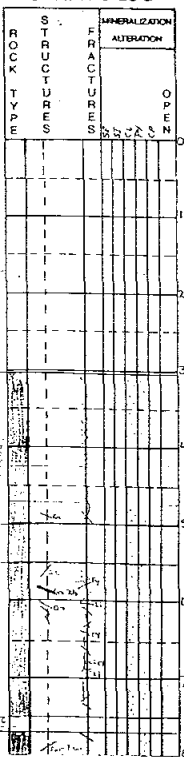
R 940 100095% QTZ WITH GREEN CLAY SESEGATIONS AT 40 DEGREES C.A.

D 910 1210 90 X 001

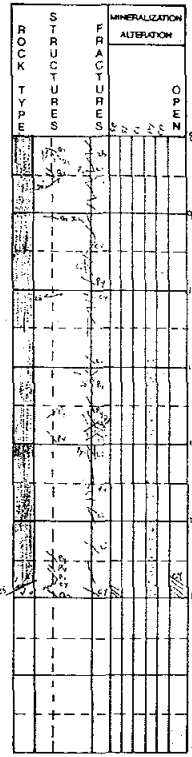
L OR3 91 767

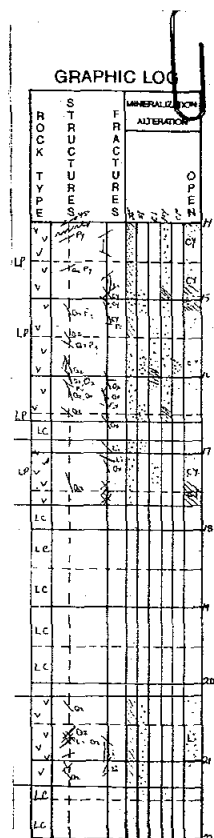
D 1090 1375 X P. V=

GRAPHIC LOG



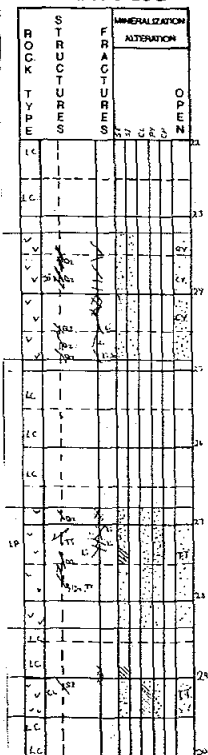
GRAPHIC LOG





L Q) V9
R INCREASE IN PYRITE - FINE HAIRLINE PYRITIC STOCKWORK FRACTURES-
R FROM 10.55-10.75 PYRITE + QTZ PARALLEL FOLIATION AT 30 DEGREES
R C.A.
R 1220 1255 FINE GRAINED PY DISSEMINATED "PATCHES"
D 1210 1375 97 X 000
L DR3 746
R 1355 1575 SILICIFIED CORE, PYRITE AT 35 DEGREES C.A., WITH PARALLELING
R CLAY "PATCHES", NO REMNANT TEXTURES.
P 1375 3050 SE TFLP P3 P1 D= <)
L P2 v+
R FINE GRAINED, PALE GREEN GREY TO LIGHT GREY TO GREEN AT BOTTOM
R OF SECTION. INTENSE TO VERY STRONG SERICITE ALTERATION-SERICITE-
R QTZ-CLAY-PYRITE ROCK WITH CHLORITE AT DEPTH. TOP OF SECTION
R SERICITE ALTERED TO CLAY, AND LOCALIZED CLAY GOUGE ZONES. PALE
R GREEN CLAY AS SEEN IN QTZ VEIN PRESENT IN TOP SECTION OF CORE. A001 9.10 12.10 58143 .008 .060 2.6 4 3
R GENERALLY ADJACENT TO QTZ. VERY FINE GRAINED DISSEMINATED PYRITE A001 12.10 13.75 58144 .051 .090 2.2 3 7
R THROUGHOUT, < 1-2% LOCALLY INCREASES. ALSO PRESENT AS FINE A001 13.75 16.75 58145 .238 .660 1.3 5 14
R DISCONTINUOUS STRINGERS GENERALLY PARALLELING FOLIATION. VUGGY,
R ORANGE TO MEDIUM BROWN OXIDE STAINED VEINS 20-35 DEGREES C.A.
R LIGHT GREY QTZ STRINGERS, PITTED AND VUGGY TEXTURES, CROSS CORE
R AT LOW ANGLE. COMPETENT, LESS ALTERED SECTIONS AT DEPTH, EXHIBIT
R REMNANT TEXTURE -SUBROUNDED LAPILLI, MATRIX SUPPORTED, ~1%.
R SIGNIFICANT SECTIONS OF GROUND AND LOST CORE. TRACE AMOUNTS OF
R FINE GRAINED, EQUANT, GRAINS OF TENNANITE? BLUE-BLACK COLOUR 1-
R 1.5MM. VERY FISSILE ALONG FOLIATION.
R 1405 1410 CLAY GOUGE AT 55 DEGREES C.A.
D 1375 1675 90 X 132
L DR2 152 232
D 1485 1500 X P1P= D+ <)
L E+ P+
R DECREASE IN CLAY AND SERICITE, LOCALLY SILICEOUS.
R 1550 1562 ANGULAR FRAGMENT - LIGHT GREY, SILICEOUS, WITH DISSEMINATED PY
R TO 1% WITHIN PALE GREEN CLAY/SERICITE ALTERED CORE. +/- CHLORITE
R 1562 1590 LAPILLI FRAGMENT-GREY, FRACTURED WITH CLAY INFILLING + CP-, QTZ
R VEIN WITH STRINGERS AT 25 DEGREES C.A. VEIN IS PITTED, OXIDIZED
R WITH JAROSITE AT MARGINS.
R 1590 1610 LOW ANGLE, 25 DEGRES C.A., OXIDIZED VEINS ~1.5CM- STAINED QTZ?
R WITH 4-6 MM QTZ-SERICITE ENVELOPES, LOCALLY CHLORITIC SECTIONS
R PYRITE RICH.
R 1675 1700 FINE GRAINED LAPILLI TUFF, MATRIX SUPPORTED, GREY, SILICEOUS,
R WEAKLY ALTERED, BOUND BY LIGHT GREEN SERICITE HALO WHICH BECOMES
R OXIDE STAINED TOWARD FRACTURE PLANE, -FRESH ROCK PYRITIC TO 5-7%
R ALTERATION HALO- BARREN OF PYRITE.
R 1708 1710 EARTHY OXIDE COATED FRACTURE - "BOXWORK" TEXTURE, REMNANT QTZ?

GRAPHIC LOG



N 1675 2030 25 XMCOR 100
 L OR3 183 787
 R LOST CORE 17.65- 20.20 M.
 D 2020 2130 X P2 D.

V6
 R EXTENSIVE QTZ VEINING, 'BOXWORK' VUGGY TEXTURE, 3-7 MM SCALES,
 R PALE BLUE-GREEN COLOUR.(ADDITION OF CHROME) SERICITE PATCHES
 R INTERSTITIAL TO QTZ VEINING.(20.7-21.3) QTZ VEINING IS OXIDIZED
 R BROWN PERVASIVE STAINING OF CORE. REMNANT FOLIATION AT 25-30 C.A
 R VEINS SUBPARALLEL. NO VISIBLE SULPHIDES.

N 2130 2325 XMCOR
 L LOST CORE - GROUND RUBBLE.
 D 2030 2430 43 X 100
 L OR2 243 565

N 2325 2470 96FR7QZVN P2
 L OR3 P- V8
 R SERIES OF QTZ VEINS - 1.3- 1.8 CM WIDE, SUBPARALLEL TO FOLIATION
 R AT 30 DEGREES C.A. SERICITE-QTZ +/- CLAY IN BETWEEN VEINS, MINOR
 R COATING OF JAROSITE.
 R 2430 2480QTZ-SERICITE +/- CLAY- YELLOW COATING ON FRACTURE SURFACES,
 R JAROSITE?, BROWN, STAINING ALONG FRACTURES- LIMITED TO PATCHES
 R YELLOW POWDER (OXIDE STAINING), < TRACE PYRITE.

N 2480 2675 XMCOR
 L GROUND AND LOST CORE
 D 2430 2730 33 X 100
 L OR2 875

R 2729 2950VERY FINE GRAINED, TRACE TENNANTITE TO < 1%, BLACK WITH BLUE
 R TINT-SPECKLED

D 2675 2950 CLXTFLP P1 P3 D= TT
 L <+ D+
 R GREEN GREY TO GREEN, FINE GRAINED, FOLIATED, MODERATELY
 R COMPETENT, MOST TEXTURES LOST OCCASIONAL LAPILLI SUBROUNDED
 R BROKEN BLOCKY CORE, MINOR PATCHES, DISCONTINUOUS STRINGERS AND
 R MINOR SEGRAGATIONS PARALLELING FOLIATION OPAQUE WHITE, VERY
 R SOFT, 'SOAPY' TALC.

R 2900 2902LOW ANGLE CONTACT, SHARP, BETWEEN FINE GRAINED SILICEOUS GREY
 R TUFF AND DARK GREEN GRANULAR CHLORITE RICH TUFF, AT 20 DEGREES
 R C.A.

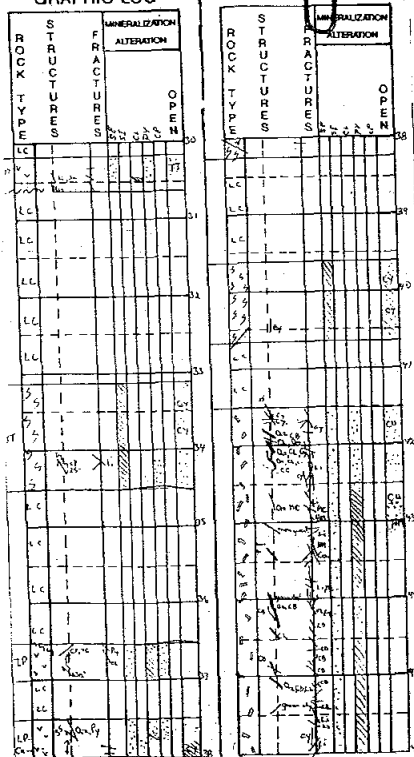
N 2835 2900 XMCOR
 L
 N 2950 3020 XMCOR

R BROKEN, RUBBLE, CLAY GOUGE, EXACT DEPTH UNCERTAIN.

A001	16.75	20.30	58146	.063	.350	0.7	7	17
A001	20.30	24.30	58147	.007	.350	0.9	6	12
A001	24.30	27.30	58148	.150	.220	1.6	10	55
A001	27.30	30.50	58149	.548	.250	2.0	15	160

GRAPHIC LOG

GRAPHIC LOG



R 3020 3040 SILICEOUS, QTZ-SERICITE-PYRITE LAPILLI TUFF, VUGGY QTZ VEINING,
 R DECREASE IN CHLORITE. TRACE VERY FINE GRAINED TENNANITE
 R 3040 3047 DARK GREEN, VERY CHLORITIC TUFF? GROUND CORE, PYRITIC, WITH VERY
 R FINE GRAINED DISSEMINATED TT? AND MINOR BLACK OXIDE COATING OF
 R SULPHIDES, CHALCOCITE.

D 2730 3050 50 X 100
 L OR2 274 455

N 3050 3315 XMCOR

MEASURED FROM KNOWN BLOCK

P 3050 4150 24SEB FALT P5 D= D- TT
 L OR1 P2 D-

R CLAY-SERICITE-QTZ+/-PYRITE TUFF? GENERALLY INCOMPETENT GOUGE
 R WITH GRANULAR QTZ, LOCALLY MODERATELY COMPETENT SECTIONS- 5-8
 R CM LENGTH, STRONGLY FOLIATED, SERICITE-QTZ ROCK WITH CLAY. OXIDE
 R STAIN PARALLELING FRACTURES; SULPHIDES NOT VISIBLE IN GOUGE
 R ZONES- FINE DISSEMINATED PY +/-CHALCOCITE+/- TENNANITE IN
 R COMPETENT SECTIONS. CORE WHITE TO WHITE/GREEN AT TOP WITH
 R 'SMEARED' OXIDE STAINING- TO BASE OF SECTION, CORE IS LIGHT GREY
 R GREATER QTZ CONTENT, HIGHER SULPHIDE CONTENT, STRONG CLAY
 R ALTERATION.

A001	30.50	36.50	58150	.041	.250	26.0	6	20
A001	36.50	40.50	58151	.376	.310	6.0	17	160

N 3440 3650 XMCOR

N 3700 3750 XMCOR

D 3050 3650 27 X 100
 L OR2 XXX

N 3650 3690 CL)TFLP P2 P7 D)
 L S)

R CHLORITE-SERICITE-PYRITE, MINOR LAPILLI. CLAY RIMMED. HIGHLY
 R CONVOLUTED FOLIATION: OPAQUE WHITE TALC/CLAY SEGREGATIONS ALONG
 R FOLIATION. COLOUR BANDING; TOP CONTACT -55 DEGREES C.A., CLAY
 R GOUGE/RUBBLE, TOP UNIT LACKS CHLORITE.

N 3750 3800 QZ)TFLP P3P=Q1

R DECREASE IN CHLORITE, WEAKLY SILICEOUS, FOLIATION 55 DEGREES CA.
 R LEACHED 37.78-37.80 M - NATIVE COPPER; CLAY ALTERED, CHALCOCITE.

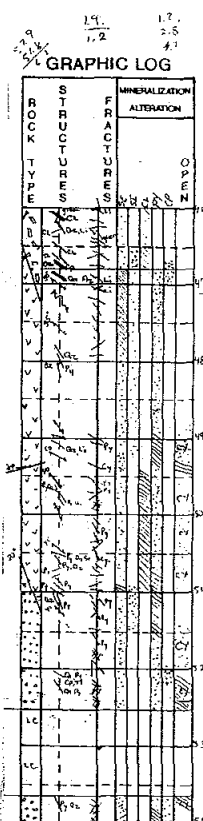
N 3820 3960 XMCOR

D 4010 4030 X D= CC
 L D*

R GREY SERICITE-QTZ-PYRITE ALTERED CORE, INCOMPETENT.

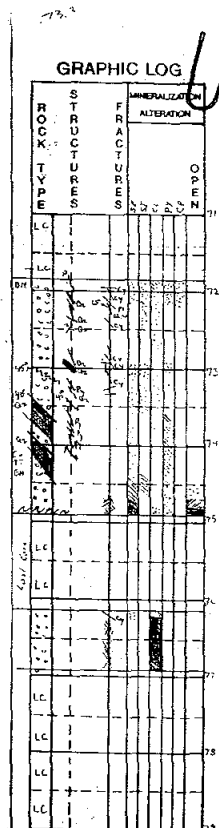
D 3650 4055 70 X 000
 L OR1 396

N 4055 4150 XMCOR



R PYRITE RICH SECTIONS, PYRITE WITH SERICITIC ENVELOPES 3-5 MM
 R ALTERNATING WITH QTZ BAND TO 1CM PYRITE ENRICHMENT TO BOTTOM OF
 R SECTION. UPPER CONTACT AT 20 DEGREES C.A. WITH QTZ+/-CHLORITE
 R VEINING IN TOP 10.5 CM MINOR PATCHY CPY IN VEIN AND PALE GREEN
 R BLUE-GREEN AZURITE? IN VUGS IN QTZ (46.85M) AND IN NARROW CLAY
 R ALTERED BAND AT (46.95 M)- CORE EXTENSIVELY BROKEN ALONG
 R FOLIATION; CLAY ALTERATION PREVALENT AT LOWER CONTACT, PITTED
 R TEXTURE.
 R 4929 4930CONTACT-SERICITE-PYRITE-QTZ, LIGHT GREY WITH MEDIUM GREEN FINE
 R GRAINED CHLORITIC VOLCANIC, UNCOMFORMABLE.
 P 4930 5100 97CLXTUFF P1 P5 D) <)
 L OR2 E+ Q) <<=<=
 R FINE GRAINED TO VERY FINE GRAINED, SLIGHTLY MOTTLED APPEARANCE
 R WITH DARK GREEN "BLEBS" (CRYSTALS) 1.5 TO 2.0 MM, MINOR
 R DISSEMINATED PYRITE, GENERALLY FINE MICROVEINS TO FRACTURE
 R FILLINGS, LIGHT GREEN SERICITE-QTZ ENVELOPES; 1-3 MM SCALE
 R WHITE, SOFT, OPAQUE, VERY SOFT PATCHES OF CLAY ON FRACTURE
 R PLANES, BROKEN, BLOCKY CORE, WEAK FOLIATION, INCREASE CLAY +
 R PYRITIC FRACTURE INFILLING AT LOWER CONTACT, CONFORMABLE.
 P 5100 5570 67SE RBZN P3 P+ D= D(TT
 L OR2 XXXX P1 << D)
 R QTZ-SERICITE-PYRITE-CLAY. FINE GRAINED, FOLIATED. UPPER SECTION
 R SILICEOUS AND PYRITE RICH, SEGREGATIONS OF QTZ AND PYRITE
 R PARALLEL FOLIATION AT 50 DEGREES C.A., PYRITE H 20%(51.00-
 R 51-60 M) BROKEN, RUBBLE, STRONGLY KAONILIZATION ASSOCIATED
 R WITH RUBBLE SECTIONS, COMPLETE LOSS OF PREVIOUS TEXTURES,
 R COMPETENT SECTIONS THROUGHOUT (52.10M-LAPILLI)
 R 5200 5210SILICEOUS, VUGGY QTZ VEIN, DISSEMINATED PY, EP+ TENNANITE
 R LAPILLI FRAGMENTS WITH PYRITE RICH.
 D 4930 5100 67 X 121
 L OR2 367
 N 5250 5370 XMCOR
 L
 D 5100 5400 60 X 010
 L OOR2 518 XXX
 R 5400 5410FOLIATED, FINE GRAINED QTZ-SERICITE-PYRITE TUFF?, PYRITE
 R DISSEMINATED + PARALLEL FOLIATION PLANE AT 30 DEGREES C.A.
 R ASSOCIATED TETRAHEDRITE (TENNANITE) ON PY PLANES OR TARNISHED
 R PYRITE?
 R 5400 5490FOLIATED, QTZ-SERICITE-PYRITE TUFF, COMPETENT
 R 5550 5570GROUND, GRAVEL SIZE CORE, SERICITE ALTERED + PY
 D 5400 5570 85 X 010
 L OR2 549 XXX
 E 5570 6100 QZ RBZN <) <) < = <) TT
 L <<+

A001	51.00	54.00	58156	.904	.150	1.1	28	30
A001	54.00	55.70	58157	1.200	.420	1.7	21	37

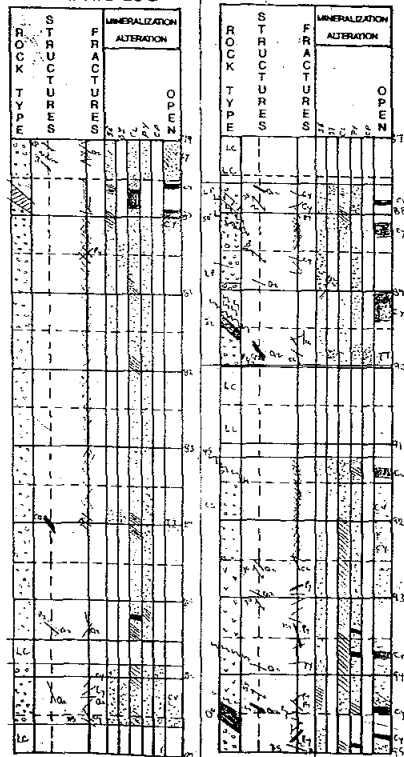


P 7185 10175 CL9RB2N P1P*P4 D= D*(=<D)TTCC
 L P V.<= D)C)
 R FINE GRAINED TO MEDIUM GRAINED, WEAKLY MOTTLED TO GRANULAR,
 R BROKEN, RUBBLY CORE WITH QTZ RICH COMPETENT SECTIONS,
 R MODERATELY TO STRONGLY ALTERED, FRIABLE, QTZ RICH SECTIONS
 R WITH QTZ SEGREGATIONS, WEAK TO MODERATELY FOLIATED, FINE GRAINED
 R DISSEMINATED PY THROUGHOUT, VARIABLE, LOCALLY PYRITE RICH GOUGE
 R AND BANDS PARALLEL FOLIATION PLANES, LAPILLI CLASTS PRESENT,
 R MATRIX SUPPORTED WITH NARROW CLAST SUPPORTED SECTIONS TO 0.05 M
 R WIDE, LOCALLY TAN TO BROWN CLAY ASSOCIATED WITH LAPILLI.
 R SERICITE IS PERVASIVE, VARIABLE THROUGH SECTION, PATCHY WHITE
 R CLAY ON FRACTURES, LOCAL SHEARING. QTZ-PYRITE VEINING, MINOR
 R DYKE AND QTZ SERICITE PYRITE INTERVALS INCLUDED. UPPER CONTACT
 R LOST, LOWER CONTACT SHARP AT 65 DEGREES CA. WITH QTZ VEIN. CPY
 R IS FINELY DISSEMINATED, GENERALLY INCLUDED WITH PYRITE IN QTZ-
 R PYRITE VEIN WITH BLACK, +/- BLUE IRRIDESCENT COLOUR, IRREGULAR
 R SHAPE TO PLATEY-COATING ON SULPHIDES CHALCOCITE? INTERMIXED
 R WITH TENNANTITE WHEN VERY VERY FINE GRAINED. LOCAL SILICIFIED
 R ZONES - MARGINAL TO QTZ- VEINS OR QTZ RICH SECTION.
 R 7198 7199BORNITE-VERY FINE GRAINED PEACOCK LUSTRE, CHALCOCITE COATING ON
 R SULPHIDES.
 R 7205 7235QTZ VEINS SUBPARALLEL FOLIATION AT 40 DEGREES CA. FRACTURED,
 R PYRITE INFILLING+CPY+TENNANTITE +/- CHALCOCITE. FINE CHLORITE
 R + SERICITE SEGREGATIONS.
 R 7235 MODERATE-WEAK SILICIFIED CHLORITE TUFF? (LAPILLI TUFF?) FROM QTZ
 R 7360 7361LAPILLI FRAGMENT 2.5 CM X 1.0 CM - SILICEOUS + YELLOW/TAN CLAY
 N 7365 7465 97 8QZVN <)<1 TTCU
 L 20R V7 D*D(
 R QTZ VEIN-GREY TO WHITE QTZ-STRONG FRACTURE SUBPARALLEL FOLIATION
 R 35-40 DEGREES CA., PYRITE FRACTURE INFILLING, + CPY CHALCOCITE
 R COATING (BLUE-BLACK TARNISH) SERICITE-QTZ-CLAY PARTINGS CAUGHT
 R UP WITH CPY+/- BORNITE + NATIVE COPPER ON FOLIATION.
 N 7465 7620 XMCDR
 L
 R GROUND QTZ-CHLORITE+/-SERICITE+PYRITE 0.6 M RECOVERED.
 D 7185 7365 72 X
 L OR2 732 XXX
 D 7365 7495 85 X 210 D*
 L 15R3 XXX
 N 7690 7900 XMCDR
 L
 N 7972 7985 100AMXLAAP
 L 60
 R APHANITIC MEDIUM CHLORITIC GREEN DYKE WITH FINE GRAIN DARK GREEN
 R GRAINS - SPECKLED APPEARANCE. SHARP CONTACTS AT 45 DEGREES AND

A001	71.85	73.65	58160	1.280	.560	2.4	24	95	
A001	73.65	74.95	58161	1.600	1.6000	.610	3.0	20	72

GRAPHIC LOG

GRAPHIC LOG



R 50 DEGREES CA. BROWN COLOURING MARGINAL TO CONTACTS - CHILL
 R CONTACT? SOME WHITE CLAY INFILLED AMYGDULES NON-CALCAREOUS.

D 7620 8020 39 X

L OR2 792 XXX

D 8020 8420 73 X

L OR2 823 XXX

R 8395 8405QTZ VEIN PARALLEL FOLIATION. FINELY FRACTURED, DISSEMINATED
 R PY AND TT? PYRITIC CLAY AT CONTACT PLANES AT 50 DEGREES CA.

D 8420 8650 48 X

L OR2 853 XXX

R 8528 8530NARROW QTZ VEIN OBLIQUE TO CA. , RIMMED BY PYRITE CLAY PARALLEL
 R FOLIATION.

N 8550 8580 XMCOR

R 8594 8595VUGGY QTZ MICROVEIN AT 50 DEGREES CA., FINE GRAINED DISSEMINATED
 R CPY (<2%) PY (<1%) AND GREEN IRIDESCENT TARNISH TO CPY.

A001	76.20	80.20	58162	.944	.340	2.4	30	184
A001	80.20	84.20	58163	1.020	.380	2.5	8	44
A001	84.20	86.50	58164	1.060	.450	2.5	6	60
A001	86.50	89.95	58165	1.140	.390	2.2	7	220
A001	89.95	94.20	58166	1.660	.540	2.5	13	64

N 8580 8660 96FR9TFAH P2 P2 D+ D+ HS
 L OR2 < > V= < >

R COMPETENT, WEAKLY, CORE - VERY FINE GRAINED - APHANITIC (ASH)
 R HEALED FRACTURE ZONE, QTZ VEINS AND CLAY INFILLED FRACTURES.
 R PYRITE TENDS TO RIM CLAY INFILLED FRACTURES AND CAVITIES.

R 8770 8780SILICIFIED, TAN YELLOW- LAPILLI TUFF- CLASTS SUBROUND-ROUND
 R 0.4 TO 1.0 CM. FELSIC FRAGMENT. TOP CONTACT AT 50 DEGREES CA.
 R BOTTOM CONTACT AT 45 DEGREES CA.

R 8840 8890FRACTURED ZONE- CLAY INFILLED, CHLORITIC FOLIATION-BECOMES
 R WEAKLY SILICIFIED TO BASE - FRACTURED, CLAST SUPPORTED LAPILLI
 R TUFF VERY FINE GRAINED FRAGMENTS (ASH?) DIFFERENTIAL ALTERATION
 R TAN, LIGHT GREEN, PYRITE DISSEMINATED AND PARALLEL FOLIATION.

N 8900 8935 80SE9FALT P3 D)

L OR1
 R CLAY-SERICITE FAULT GOUGE AND RUBBLE, SHARP LOWER CONTACT 40
 R DEGREES CA. WITH QTZ VEIN, YELLOW CLAY, QTZ FINELY FRACTURED
 R 42 DEGREES CA. DOMINATES - WITH STOCKWORK FINE PY.

R 8965 8975QTZ VEIN, FINELY FRACTURE PYRITE INFILLING- FINE GRAINED
 R DISSEMINATED CPY- CHALCOCITE ON LOWER CONTACT AT 40 DEGREES CA.

D 8650 8995 65 9

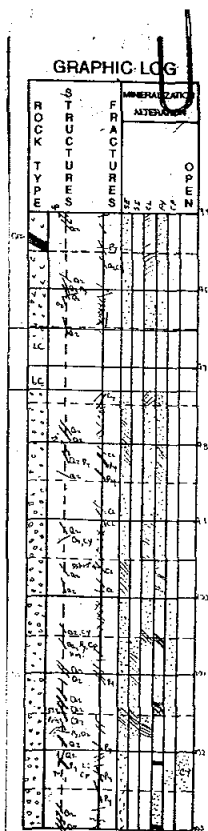
L OR2 884 XXX

N 8995 9120 XMCOR

L 9130 9140SHEAR AT 45 DEGREES CA., CLAY-QTZ-PYRITE GOUGE INFILLING,
 R PYRITE TO 10%

R 9250 9608STRONG CHLORITIC ALTERATED TUFF? DISSEMINATED PY, FOLIATION,
 R COMPETENT IN GENERAL, DISSEMINATED CHALCOCITE, CLAY ON
 R FOLIATION, FISSILE ROCK.

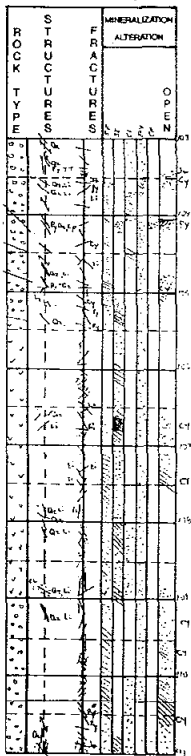
D 9120 9420 70 X



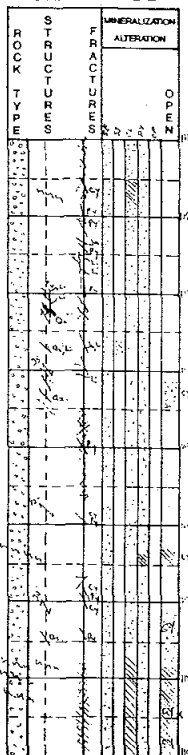
L OR1 914 XXX
R 9340 93601 CM WIDE SEAM GROUND SULPHIDES. PYRITE AT 25 DEGREES CA.
R FRACTURE INFILLING.
R 9440 9470QTZ VEIN- SHEARED UPPER CONTACT- CLAY AT 40 DEGREES CA.,
R DISSEMINATED PY ON FRACTURE +/-TT ON PLANES. LOWER CONTACT
R PYRITE RICH AT 25 DEGREES CA.
R 9490 9495PYRITE INFILLED FRACTURE AT 65 DEGREES CA., RED BROWN STAIN TOP
R AND BOTTOM CONTACT. SPECULAR HEMATITE.
R 9500 9608CHLORITE-SERICITE-QTZ-PYRITE ALTERED TUFF? QTZ SEGREGATIONS,
R PYRITE PARALLEL FOLIATION AND FRACTURE INFILLING, WEAKLY
R COMPETENT.
D 9420 9720 60 6
L ORR1 945 XXX
N 9650 9730 XMCOR
L
R 9800 9850STRONG PYRITE/FINE GRAINED FRACTURE FILLING AND PARALLEL
R FOLIATION, SILICEOUS QTZ SEGREGATIONS? VEINS.
D 9730 10175 54 X
L OR1 975 XXX
R MARKERS AT 100.60 M - TALC TO END OF CHLORITIC ALTERATION.
R 9950 10000SERICITE-QTZ RICH ZONE. QTZ VEIN LOW ANGLE TO CA. 15-20 DEGREES
R PYRITE ON FOLIATION AND BORDERING QTZ.
R 10063 10150QTZ VEIN RICH ZONE. SERICITE ALTERATION LOSE CHLORITE, QTZ VEIN
R FRACTURED. PYRITE AND SOME PY DISSEMINATED. PY CONCENTRATION
R AT MARGINS. TOP CONTACT -55 DEGREES CA. VERY VERY FINE GRAINED
R DISSEMINATED PYRITE IN ROCK TO 25%, SMALL PIECES HEAVY FOR SIZE
R GREY STREAKS IN QTZ VEINS FROM FINE SULPHIDES. MINOR SPECULAR
R HEMATITE (COATING RED BROWN STREAK), LIMONITE STAINING AT TOP
R IN VUGS.
R 10115 10135QTZ VEINS WITH PYRITE- 20-25%, VUGGY TEXTURE- MALACHITE?
R STAINING AT MARDIN OF QTZ (PALE GREEN/BLUE CLAY)
R 10165 10175TWO SMALL VEIN- PYRITE WITH MARGINAL QTZ AT 10 DEGREES CA. CUT
R BY SECOND VEIN AT 65 DEGREES- 3-4 MM WIDE.
P 10175 11040 SEXRBZM P3P=P+ D1 D)
L <=
R BROKEN, BUBBLE TO BLOCKY CORE, FINE GRAINED, MODERATELY
R FOLIATED, SERICITE AND QTZ SEGREGATIONS LOCALLY. LIGHT GREY
R GREEN TO LIGHT GREY. PYRITE THROUGHOUT WITH CONCENTRATIONS ON
R FOLIATION PLANES AND AS FRACTURE INFILLING, LOCALLY SILICIFIED
R AND ARGILLIC ALTERATON ZONES AND LOCALIZED LIMONITE STAINING
R LAPILLI COMMON TO DEPTH.
R 10340 10360VUGGY QTZ VEIN- 3-5 MM PARALLEL FOLIATION, OCHRE CLAY (JA) ON
R FRACTURES PLANES AND WITHIN VUGGY QTZ, OXIDE STAIN ON PYRITE.
R 10360 10405INCREASE IN PRESENCE OF CHLORITE- TO 7%, DECREASE IN PYRITE
R <2% MINOR PATCHY LIMONITE.

A001	94.20	97.20	58167	1.560	.510	2.1	20	40
A001	97.20	101.75	58168	1.130	.440	1.5	7	105
A001	101.75	104.75	58169	1.320	.530	1.8	7	60

GRAPHIC LOG



GRAPHIC LOG



R 10405 10445 STRONGLY CLAY ALTERED- CLAY SERICITE PYRITE- PYRITE AND CPY (<1%) WITH QTZ VEINS. TOP CONTACT- GRADATIONAL INCREASE IN CLAY WITH STRONG CLAY AT QTZ VEIN 30 DEGREES CA. LOWER CONTACT- SHARP AT 50 DEGREES - INTRODUCTION OF CHLORITE BELOW.

R 10445 10475 CHLORITE-SERICITE-PYRITE ROCK. WEAKLY FOLIATED, NOTICEABLE OXIDATION, ORANGE/BROWN PATCHY STAINING ASSOCIATED WITH FRACTURES AND DISCONTINUOUS. PYRITE AND QTZ VEIN AT 20 DEGREES CA. LOWER CONTACT AT 75 DEGREES CA. LOSE CHLORITE, OXIDE AT CONTACT.

N 10540 10900 SI=TFLP P4P2 D+ <> LI
L P1 <+ Q+

R FINE GRAINED, WEAKLY-MODERATELY SILICIFIED, INCREASE WITH DEPTH VERY FINE GRAINED. APHANITIC FELSIC LAPILLI TO ~107.80 M. INTRODUCE FINE TO MEDIUM GRAIN CHLORITIZED LAPILLI TO BOTTOM- LOCALLY SILICIFIED, BROKEN BLOCKY CORE, LIMONITIC STAINING COMMON TO QTZ VEINS.

D 10175 10475 100 X

L OR2 1036 XXX

D 10475 10775 78 X

L OR2 1067 XXX

R 10880 10882 VERY FINE GRAINED. APHANITIC. SLIGHTLY BANDED. CHLORITIC LAPILLI

D 10775 11040 80 X

L OR2 1097 XXX

P 11040 12500 CL RBZN P2 P3 D=

L <> <+

R MEDIUM DARK GREEN, FINE GRAINED, WEAKLY TO POORLY FOLIATED BLOCKY TO BUBBLY CORE, PYRITE DISSEMINATION THROUGHOUT BUT PREVALENT PARALLEL FOLIATION AND ON FRACTURE PLANES. MINOR AMOUNTS OF SEMI HARD, WHITE ANHYDRITE? ON FOLIATION PLANES.

D 11040 11340 77 X

L OR1 1128 XXX

R 11240 11350 DECREASE IN CHLORITE, LIMONITE STAIN RIMMING QTZ VEINING AND PYRITE.

R 11300 11320 FINE PYRITE VEIN AND LIMONITE STAIN PARALLEL CA., FOLIATION ~40 DEGREES CA., CUTS 1 CM WIDE QTZ VEIN AT 40 DEGREES CA. STOCKWORK.

R 11360 11370 JAROSITE-LIMONITE FRACTURE INFILL?, AT 30 DEGREES CA., TRACE PYRITE, THIN PYRITE.

R 11400 11440 FINE PYRITE VEIN WITH QTZ-SERICITE (ALTERED TO CLAY) ENVELOPE LEACHED 1.5 CM ABOVE VEIN, LEACHED TO 114.40.

D 11340 11640 66 X

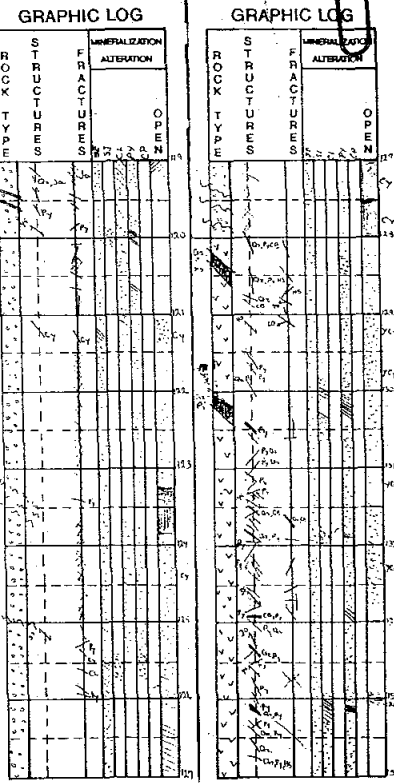
L OR1 1158 XXX

D 11640 11940 62 X

L OR1 1189 XXX

R 11995 12005 FOLIATED QTZ-SERICITE-CHLORITE. QTZ SEGREGATIONS. VUGGY WITH

A001	104.75	107.75	58170	.704	.280	1.5	33	71
A001	107.75	110.40	58171	.740	.240	1.3	29	70
A001	110.40	113.40	58172	1.130	.340	1.7	17	70
A001	113.40	116.40	58173	.960	.290	1.6	58	148
A001	116.40	119.40	58174	.920	.350	1.9	23	71



R LIMONITE OXIDATION. PYRITE PARALLEL FOLIATION

D 11940 12500 42 X

L OR1 1219 XXX

R 12200 12500 EXTREMELY POOR RECOVERY-0.55 M OVER 3.0 M. 16% FAULT GOUGE

R DAY- PLACED HALFWAY

P 12500 12800 53SEXRBZN P4 P) D=

L OR2

R FINE GRAIN; GRANULAR. 'SUGARY' APPEARANCE, MODERATELY FOLIATED,

R MINOR CHLORITE AT TOP DECREASES WITH DEPTH WITH INCREASE IN CLAY

R CONTENT, POOR RECOVERY, SHEARING EVIDENT AT DEPTH. LIGHT GREEN-

R GREY TO PALE GREY/WHITE. NO ORIGINAL TEXTURES- FRACTURED IN

R 3.8 CM SECTIONS PARALLEL FOLIATION.

N 12630 12800 23KA4RBZN P2 D+

L OR2 P6

P 12800 13950 SE TUFF P1P+P) D+ <*<1 HS A001 119.40 125.00 58175 .812 .280 1.8 58 230

L E)V) P+ V1 V* A001 125.00 128.00 58176 .384 .150 1.6 7 57

R FINE GRAINED, UNIFORM, WEAKLY TO NON-FOLIATED, PALE GREEN-GREY

R TO LIGHT GREY, SMALL, OCCASIONAL FRAGMENTS AND LAPILLI AT DEPTH,

R FINE PYRITIC MICROVEINS-(LOCALLY STOCKWORK) WITH QTZ MARGINS (2-

R 7 MM SCALE) AND +/- QTZ-SERICITE ENVELOPES. EVIDENT ON <1 MM

R MICROVEINS AS WELL. PYRITE HAS 'BLEB' APPEARANCE TO SMALL CLASTS

R ALIGNMENT OF PYRITE PARALLEL FOLIATION AS DISCONTINUOUS

R STRINGERS EVIDENT. FINE GRAIN CRYSTALS TO VERY FINE GRAINED

R PYRITE DISSEMINATED THROUGHOUT SECTION(<2%) COMPETENT, HARD CORE

R GOOD RECOVERY, LOCALLY CHLORITE IN SILICIFIED SECTIONS. WHITE

R QTZ VEINS FRACTURED, WITH INFILLING PYRITE HEMATITE INGROWN WITH

R PYRITE IN QTZ AND ALONG MARGINS OF VEINS, AND FRACTURES, WHITE

R CARBONATE WITH QTZ AND AS STRINGERS.

N 12800 13275 CY2TUFF P2

L Q2

R YELLOW/TAN CLAY ALTERATION PERSASIVE TO CORE, BOUNDED BY QTZ-

R SERICITE ENVELOPES, HALOS SMALL FRAGMENTS TO GIVE MOTTLED

R APPEARANCE. MINOR 1-2 MM SCALE BLEBS OF GREEN (FUCHSITE)

R RIMMING PYRITE BLEB AND HALOED BY YELLOW CLAY.

R 12828 12850 QTZ VEIN, WITH LATE PYRITE- LOCALLY PATCHES SPECULAR HEMATITE

R WITH CHALKY WHITE CARBONATE PATCHES.

R 13005 13035 QTZ VEIN WITH INTRODUCED PYRITE BLEB APPEARANCE, AND HEMATITE

R ALONG FINE FRACTURES. PYRITE (25%), SILICIFICATION OF MARGINS

R 13090 13100 PYRITE MICROVEIN WITH QTZ AND ENVELOPE OF QTZ-SERICITE.

R 13110 13150 STRONG YELLOW CLAY ALTERATION, HIGH DENSITY PYRITE MICROVEINS

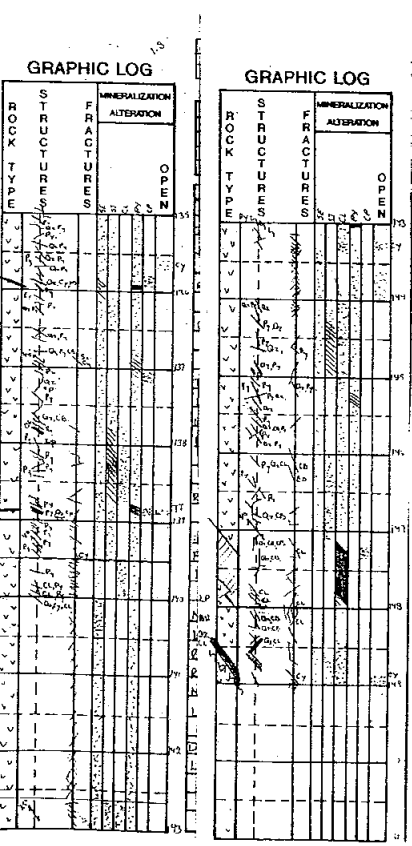
R -24 OVER 0.4 M, 0.5 TO 1.0 MM SCALE.

R 13165 13170 QTZ AND MINOR CARBONATE FRACTURE FILL WITH PYRITE RIM.

D 12800 13100 95 X 110

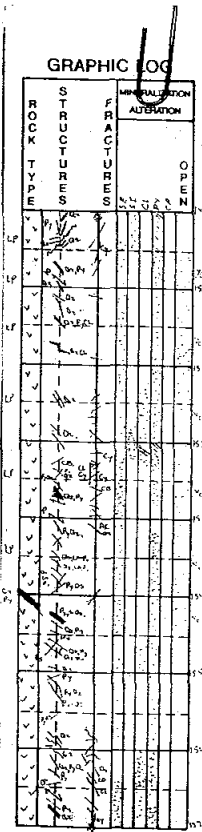
L 53R3 1311 110

D 13100 13400 99 9 210



L	80R3	010																	
R	13410	13420	QTZ VEIN WITH PYRITE (30%) LOWER CONTACT 70 DEGREES CA., TOP																
R			OF CORE GROUND, SILICIFIED TUFF TO 134.40, LOSE FOLIATION.																
D	13400	13700	X																
L	13585	13600	WHITE, OPAQUE QTZ VEIN, VUGGY OPEN SPACE. MOSS GREEN CLAY																
R			INFILLING. TRACE CPY AND HEMATITE ON FRACTURE PLANE, STRONG																
R			SERICITIC BAND MARGINAL TO 2 CM WIDE MASSIVE PYRITE BAND AT																
R			35 DEGREES CA., DISTORTED FOLIATION WITH QTZ.																
R	13650	13720	INCREASE IN PYRITIC MICROVEINS TO 136.85. INCREASE IN PYRITE																
R			RICH ZONES - 1.0 TO 1.5 CM WIDE AT 60 DEGREES CA. RIMMING QTZ.																
D	13700	13950	97 X	145															
L			65R3	1372	059														
R	13760	13850	INCREASE IN SILICIFICATION OF CORE, INTRODUCTION OF CHLORITES,																
R			GROUND WHITE QTZ VEIN? 137.80 M, PITTED WITH MINOR GREEN CLAY																
R			CHLORITE RIMS OR IS CLOSELY ASSOCIATED WITH PYRITE.																
R	13865	13875	INCREASE PYRITE VEINING AND MINOR QTZ AT 50-60 DEGREES CA., TO																
R			20%, VUGGY QTZ DISSEMINATED CP AND TENNANTITE.																
P	13950	14715	66CL TFLP																
L																			
R			FINE GRAINED, MINOR LAPILLI, WHICH ARE MAFIC, MATRIX SUPPORTED,																
R			CORE SILICIFIED TO DEPTH, POORLY TO NON-FOLIATED, PYRITE AND																
R			QTZ VEINS +/- CARBONATE.																
N	13950	14440	67FR6TFLP																
L																			
R			VERY HIGHLY FRACTURED, TO RUBBLY, CORE; PYRITE WITH OXIDE																
R			STAINING, QTZ FRACTURES FILL WITH COARSE GRAINED PY																
R			CRYSTALS, LOCALLY QTZ-SERICITE-PYRITE ALTERED SECTIONS.																
R			LACKING CHLORITE, HAS ARGILLIC CLAY ALTERATION, SECOND																
R			TYPE OF CHLORITE: VERY DARK GREEN/BLACK ON FRACTURE PLANES,																
R			IN STRINGERS, AND COMMONLY WITH PYRITE.																
N	14000	14260	80SE+TFLP																
L			OR2	1402	XXX														
R			QTZ-SERICITE-PYRITE VOLCANIC RUBBLE.																
D	14000	14300	60	1															
L			OR2	1402	XXX														
N	14330	14400	28SE)TFLP																
L			OR2																
R			0.20 M RECOVERED																
R	14450	14470	PRESENCE OF LAPILLI																
R	14490	14495	QTZ VEIN WITH PYRITE AT MARGINS AND INFILLING FRACTURES																
R			GRADATIONAL DECREASE IN CHLORITE																
D	14300	14600	73	X	143														
L			34R3	1433	555														
D	14600	14715	93	X	144														

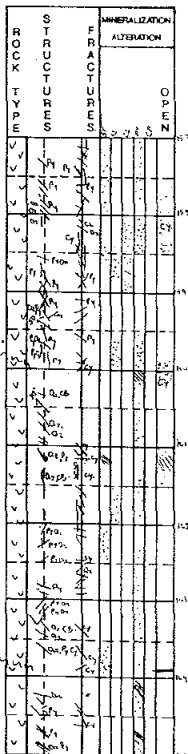
A001	131.00	134.00	58178	.520	0.5200	.310	1.3	14	72
A001	134.00	137.00	58179	.472		.450	4.2	100	2130
A001	137.00	140.00	58180	.444		.550	3.5	311	830
A001	140.00	143.00	58181	.278		.220	1.5	21	118
A001	143.00	146.00	58182	.267		.210	1.0	13	71



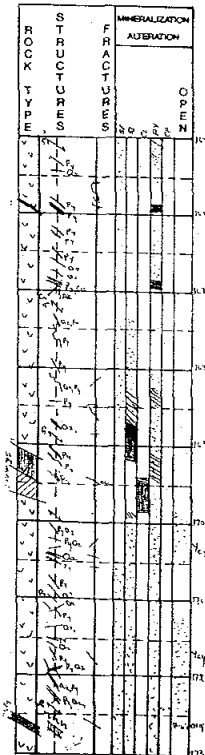
L 60R2 1463 132
P 14715 14775 100AMKANDY 100
L 16R3 001
R ANDESITE DYKE, VERY FINE GRAINED, CALCAREOUS AMYGDULES, UPPER
R CONTACT AT 50 DEGREES CA. CHLORITE FRACTURE SURFACE, QTZ-MINOR
R CARBONATE AND CHLORITE AND CPY FRACTURE INFILLING AT 147.3 M;
R FINE, HAIRLINE TENSION FRACTURES PARALLEL LOWER CONTACT AT
R 30 DEGREES CA. NARROW, 3.0-5.0 MM BRECCIA AT CONTACT, NON-
R MAGNETIC.
P 14775 14870 72AH TFLP
L 84R
R VERY FINE GRAINED, MEDIUM TO LIGHT GREEN ASH MATRIX, UNIFORM,
R FEW LAPILLI, NON-FOLIATED, BECOMING LEACHED AT DEPTH. QTZ AND
R MINOR CARBONATE MICROVEINS, HAIRLINE BLACK GREEN CHLORITE
R INFILLED FRACTURES. MOST COMMON AT UPPER CONTACT; QTZ-CHLORITE
R VEIN AT BASE, CONTACT 40 DEGREES CA., WEAKLY SILICIFIED MARGINS,
R CORE LEACHED AT 148.35 M. LOWER CONTACT SHARP AT 35 DEGREES CA.
R CONFORMABLE, CLAY COATING.
P 14870 17770 F3 TFLP P=Q=Q) D= D-B1
L R E*<) Q) <=V1
R VERY FINE GRAINED TO FINE GRAINED, YELLOW/TAN GREY TO GREEN
R GREY IN COLOUR; WEAKLY TO NON-FOLIATED, COMPETENT, LAPILLI
R SCATTERED, LOCALLY CLAST SUPPORTED SECTIONS/STRONGLY FRACTURED
R PYRITE RIMMING FRAGMENTS (SLUMPING FEATURE?) SERICITE ALTERATION
R LOCALLY MODERATE, YELLOW/TAN CLAY, PATCHY, COMMON AT TOP AND AT
R DEPTH, LOCAL CHLORITIC SECTION, LAPILLI GENERALLY FELSIC,
R DIFFERENTIALLY CLAY ALTERED, AND MOTTLED IN APPEARANCE WITH
R PYRITE BLEBS, APPEARANCE OF 'CHROME' GREEN CLAY AT DEPTH. QTZ
R WITH LATE INTRODUCED PYRITE, PYRITE RICH BANDS, CUT FOLIATION
R AND PARALLEL FOLIATION AND LOCAL ZONES OF DISSEMINATED PY TO 15%
R 14950 15435 APPEARANCE OF YELLOW/TAN (YCY) CLAY, TENDS TO PARALLEL FOLIATION
R AT DEPTH PREFERENTIAL TO LAPILLI FRAGMENTS, GRADATIONAL DECREASE
R TO DEPTH.
R 15020 15021 BANDED ASH LAPILLI, ANGULAR.
D 14900 15200 93 X 134
L 78R3 1494 010
R 15155 15250 LAPILLI CLAST SUPPORTED ZONE, CHLORITE INFILLING FRACTURES TO
R PERVASIVE (152.0-152.1), CLOSELY ASSOCIATED WITH INCREASED PY
R PARALLEL FOLIATION, QTZ VEIN CONTACTS AND FRACTURE INFILLING
R BETWEEN LAPILLI?
D 15200 15500 95 X 143
L 61R3 1524 243
R 15270 15310 DECREASE IN PYRITE TO ~3-4%, SERICITE, FRACTURE AT 55 DEGREES
R CA. COARSE GRAINED CARBONATE (ANKERITE) AND QTZ.
R 15320 15350 INCREASE DISSEMINATION OF PYRITE 15%

A001 146.00	149.00	58183	.097	.080	0.4	9	153
A001 149.00	152.00	58184	.357	.240	1.5	41	92
A001 152.00	155.00	58185	.260	.190	0.8	5	64

GRAPHIC LOG



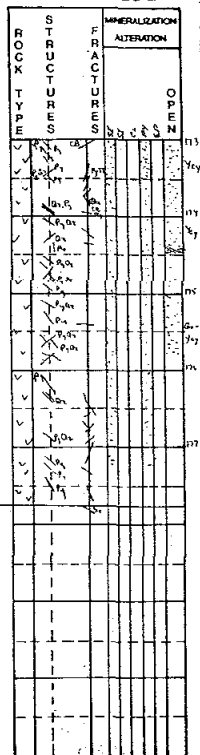
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R 15450 15490PYRITE AND QTZ-PYRITE +/-CARBONATE FRACTURE FILLING, NETWORK,
R TRACE CHLORITE.
D 15500 15800 83 X 154
L 55R3 1556 XXX
R 15580 15640LAPILLI FRAGMENTS, FRACTURE ZONE, QTZ FRACTURE FILLING, XCUT
R QTZ-PYRITE VEINS, CHLORITE LAPILLI?
R 15745 15915STRONGLY FRACTURED, BROKEN, BLOCKY CORE, ARGILLIC-CLAY
R ALTERATION, INTRODUCE CHLORITE AT DEPTH, LOCALLY SILICIFIED
R POORLY TO NON-FOLIATED, PYRITE ON MICROVEINS, MINOR
R DISSEMINATED PY.
R 15820 15930FRACTURED, BROKEN, CHLORITE MATRIX AND LAPILLI, FINE MICROVEINS
R AT PYRITE, GENERALLY OXIDIZED, GRADATIONAL DECREASE OF CHLORITE
D 15800 16100 86 X 142
L 33R2 1586 687
R 15980 16020BROKEN CORE ON FOLIATION -30 DEGREES CA. CLAY AND SERICITE
R PLANE, PYRITIC RICH BAND 10%, SHEAR?
R 16020 RETURN COMPETENT, FRESH; GREY CORE.
R 16110 16130SHEAR -5 DEGREES CA. VERY STRONG CLAY INFILL AND SERICITE +/-
R TALC.
D 16100 16400 100 X 032
L 52R3 1616 245
R 16280 16298VUGGY, OPEN QTZ VEINS, CRYSTALLINE PYRITE, MINOR OXIDE STAINING
D 16400 16700 93 X 042
L 68R3 1646 132
R 16560 16605FRACTURED,BROKEN, BLOCKY CORE, PARTIALLY GROUND, SERICITE ON
R FOLIATION PLANE, +/- ANHYDRITE? WHITE, GRANULAR, + CLAY ON
R FRACTURE.
R 16590 16595TWO MASSIVE PYRITE VEINS, 1.0 AND 2.0 CM WIDE, OPEN SPACE
R COARSE GRAINED CRYSTALS.
D 16700 17000 98 9 032
L 86R3 1676 111
D 16740 16908 100S11 P5 <1
L E)V+
R SILICIFIED, QTZ FLOODED SECTION, WITH QTZ-PYRITE VEINS CUTTING
R ZONE, GRADATIONAL INCREASE TO QTZ VEIN.
R 16908 16935QTZ-PYRITE VEIN, 15-20% PYRITE
N 16935 16974 100CLXLAAP P5
L 82R2 <+
R APHANITIC DARK GREEN DYKES, NO AMYGDULES, CHILL MARGINS AT
R CONTACTS, LIGHTER GREEN IN COLOUR, TENSION FRACTURES AT LOWER
R CONTACT, QTZ +/- CARBONATE, RIMMED WITH CHLORITE, TOP CONTACT
R AT 60 DEGREES CA. LOWER CONTACT AT 75 DEGREES CA.
R 16974 17210SILICIFIED, MODERATELY TO WEAKLY THROUGHOUT.
R 16974 17770YELLOW/TAN CLAY PRESENT. BECOMES STRONGLY DEVELOPED, LIGHT
R 'APPLE GREEN', VERY SOFT, LOCALLY TO BOTTOM OF HOLE.

A001	155.00	158.00	58186	.287	.160	0.5	9	61
A001	158.00	161.00	58187	.212	.150			
A001	161.00	164.00	58188	.234	.130			
A001	164.00	167.00	58189	.283	0.2780	.150		
A001	167.00	170.00	58190	.220	.110			

GRAPHIC LOG



D 17000 17300 93 X 043
 L 73R3 1707 012
 R 17200 17770 CORE IS YELLOW GREEN IN COLOUR, UNIFORM, HIGH DISSEMINATED PY.
 R 17340 17355 PYRITE MICROVEINS PARALLEL FOLIATION, BLACK OXIDE TARNISH ON
 R PYRITE +/- TT.
 R 17370 17570 VERY STRONG DEVELOPED GREEN-YELLOW CLAY - SOFT? MINOR GREEN
 R MICA, SMALL, SUBROUNDED PATCHES <1 CM
 D 17300 17600 92 X 024
 L 70R3 1737 112
 R 17430 17490 QTZ TO QTZ AND SERICITE ENVELOPES ON PY VEINS.
 R 17525 17550 SHORT INTERVAL, STOCKWORK MICROVEINING.
 D 17600 17770 82 X 020
 L 44R3 1768 221
 R EOH
 R sample 58152 voided
 A003 4150 4680 206
 R AVERAGE EVERY 0.5M OVER 5.7 M

A001 170.00 173.00 58191 .281 .160
 A001 173.00 176.00 58192 .209 .100
 A001 176.00 177.70 58193 .173 .120

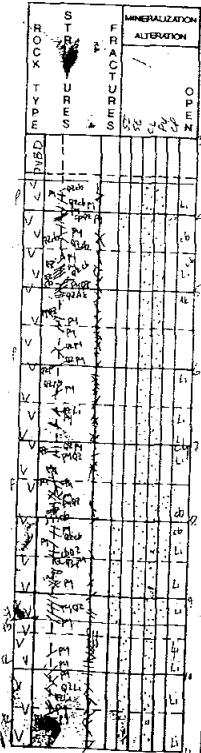
The A005 assay sets are selected
 composites based on copper grades
 and geology

	From	To	Length	Cu %	Au g/t
A005	3.04	27.30	24.26	.065	.248
A005	27.30	41.50	14.20	.265	.268
A005	41.50	46.80	5.30	.075	.010
A005	46.80	128.00	81.20	1.018	.367
A005	128.00	146.00	18.00	.391	.390
A005	146.00	177.70	31.70	.240	.146

/END

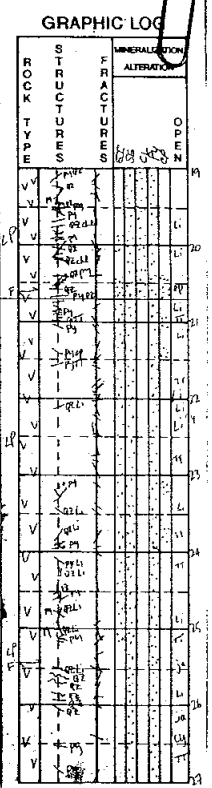
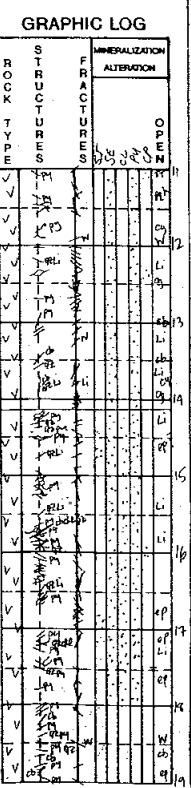
IDEN680201 KERR KS-067 N010AUG90KME JTTAUG90F38 GRD 0.0
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 3900MT 256.30090.00-60.00 9705.00 9729.00 1727.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM
 S001 3900 12400 256.30085.00-55.50
 S002 12400 21300 256.30077.50-50.50
 S003 21300 25630 256.30076.00-48.00

GRAPHIC LOG



A003
 ALUMM MAG
 P 000 300 CSNG
 L
 R CASING, NO RECOVERY
 P 300 365 OVBD
 L
 R OVBD? POOR RECOVERY
 P 365 930 XTFLP P+ P= D+ <><=
 L < <=
 R VERY DARK GREY, SOMETIMES BLACK, MOTTLED TEXTURE, FINE GRAINED
 R HARD, BRITTLE FRACTURES WITH LI COATINGS, EXTENSIVE PY +/- CP
 R VEINING WITH QTZ+/-CB LEACHING OF CB COMMON, SOMETIMES PY
 R PRODUCING WUGGS WITH LI STAINS. BARREN CB VEINS XCUT EARLIER PY
 R VEINS & INFILL QTZ VEINS (SOMETIMES YELLOW AK INSTEAD). MOST
 R TUFF FRAGS DACITIC, ROUNDED AND OBLONG; MINERALIZATION NOT
 R SELECTIVE; MAY PREFER FRAGMENT BOUNDARIES. PY VEINS GENERALLY
 R HAVE LI COATINGS AROUND XALS AND AS ENVELOPES SOME WAD
 R (DENDRITIC).
 D 365 650 80 X 141
 L 44R3 52 321
 R 410 415QTZ-CP VEINS+/- PY, MC STAINING VEIN @ 60 DEGREES CB PRESENT,
 R MOST LEACHED OUT APPROX. 2 CM.
 D 650 930 100 X 132
 L 43R3 321
 R 800 930 EITHER MORE FELSIC TUFF OR SOME SILICIFICATION; SAME
 R MINERALIZATION, CB VEINS COMMON MODERATE FOLIATION @ 45 DEGREES
 P 930 1410 8TFXL P1 D)LI <.<+ TT
 L P+ C1 <)< <.
 R EQUIGRANULAR FINE, LIGHT GREY GREEN, EUHEDRAL XAL MUSH, SOME
 R AREAS BRXX'D, SLIGHTLY MORE CNL RICH, WITH LI AND PL STAINS ON
 R FRACTURE SURFACES, SOME YELLOW CY ALTERATION IN MORE FRACTURED
 R ZONES. PY SUBHEDRAL IN INDIVIDUAL VEINS, MINOR IN QTZ PY VEINS.
 R CBPOSS LEACHED OUT.
 D 930 1230 95 X 030

	From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Ag ppm	Pb ppm	Zn ppm
				(dupl)	(dupl)				
A001	3.65	6.50	57034	.836	.430		3.3	21	310
A001	6.50	9.30	57035	.664	.560		4.7	22	360

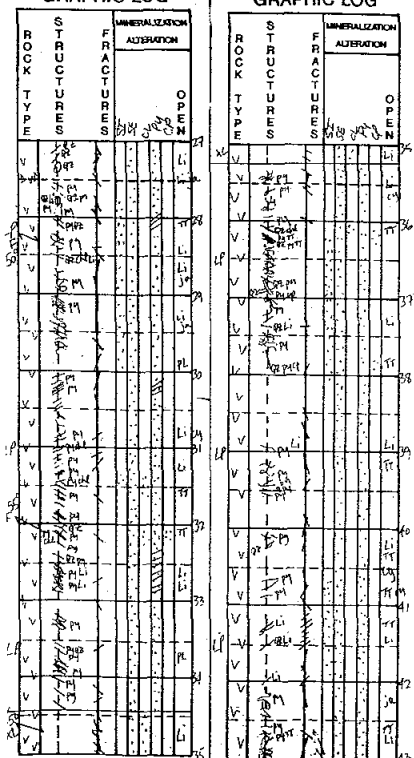


L 25 113 331
D 1230 1410 100 X 111
L 33 341
R FOOTAGE BLOCKS ARE WRONG.
R 1130 1190 GREYISH, FEW XALS, LESS ALTERATION & MINERALIZATION.
P 1410 2070 XTFLP P= P1Q)D1LI <=
L <) C+ <)<)
R SIMILAR TO (3.65-9.30), DK GREEN GREY, MOTTLED TEXTURE, FINE
R GRAINED, PY DISS'D BUT FORMS SMALL NETWORK WITHIN MATRIX. UP TO
R 10-15% PY TOTAL, SUBHEDRAL XALS GENERALLY PY VEINS, MINOR CB
R Q-P AND Q CB PY VEINS, CHL ALTERATION PERVASIVE, POSS SOME EP
R (17.4-18.0) ASSOC WITH MORE QV RICH AREAS, FRACTURES LI STAINED.
D 1410 1700 93 X 031
L 32R3 143 331
R 1580 1595 HIGH FRAGMENT CONCENTRATION WITH INTERSTITIAL VUGGY QTZ WITH PY,
R XCUTTING PY VEINS, POSS SOME CP, HEAVILY CHLORITIZED.
R 1680 1700 QTZ-EP RICH ZONE
D 1700 2070 97 X 142
L 43R3 174 330
R MARK @ 20.4 M
R 1850 1851 POSSIBLE ANHYDRITE ON FRACTURE SURFACE
R 1940 1945 SMALL VERTICAL HEALED FRACTURE, OFFSET PY-QTZ VEIN BY 1.5 CM
R 2050 2060 WELL FOL'D PERPENDICULAR TO C.A., PY, QTZ, SOME CP BLEBS, POSS
R PERVASIVE EP? WELL CHLORITIZED
P 2070 6610 TFLP P1 D1LI B
L C) <+ <+*
R SIMILAR TO PREVIOUS TFLP(14.1-20.7) WITHOUT CHL ALT'N, MAINLY
R SERICITIC LIGHT GREY ALTERATION, MOTTLED MATRIX F.GR.
R EQUIGRANULAR TUFF, FEW PHENOCRYSTS, FRAGMENTS POSS UP TO 1 M
R WITH SHARP TO VAGUE CONTACTS TFXL FRAGMENTS COMMON. OXIDATION
R OF FRACTURES UNTIL APPROX. 42.0 M. PY DISS 5-10%, MAINLY FINE
R MESH WITH CONCENTRATIONS FORMING FINE GRAINED PY VEINS SOME CP
R BLEBS, WITH TT ASSOC'N LI COATINGS PY-QTZ VUGGY VEINS LESS
R COMMON, BUT LARGER, UP TO 2 CM, LITTLE CB, SOME CHL, CP, SOME
R QS ZONES, GENERALLY FRACTURED, MOD FOL'N; WEAK-MOD FOL'N FOR
R REST OF ROCK.
D 2070 2400 94 X 110
L 43R4 235 332
R TENNANTITE IN INTERVAL, DISS'D, BUT ASSOC WITH QTZ RICH? AREAS
R AND VEINS AND RIMMING, PY SUBHEDRAL XALS, SOME CP AS BLEBS &
R IN MICROVEINS; TT GIVESW PATCHY BLACK GREY APPEARANCE.
R 2175 2230 BLEACHED, FRACTURED LI ZONE, YELLOW CY ALT'N SOME LEACHING OF
R SULPHIDES.
D 2400 2700 98 X 222
L 63R4 265 211

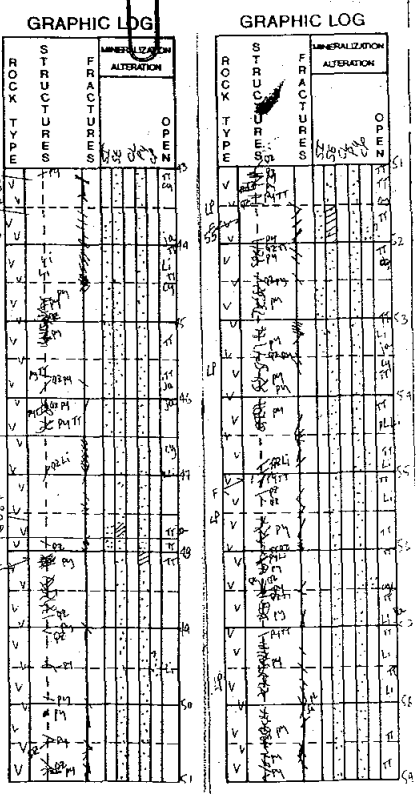
A001	9.30	12.30	57036	.067	.080	0.4	14	290	
A001	12.30	15.30	57037	.205	1.040	2.0	22	390	
A001	15.30	18.30	57038	.636	.300	3.4	59	410	
A001	18.30	21.30	57039	.988	0.9900	.430	3.4	22	276
A001	21.30	24.30	57040	.460	.140	2.4	21	73	
A001	24.30	27.30	57041	.241	.300	2.1	34	67	

GRAPHIC LOG

GRAPHIC LOG

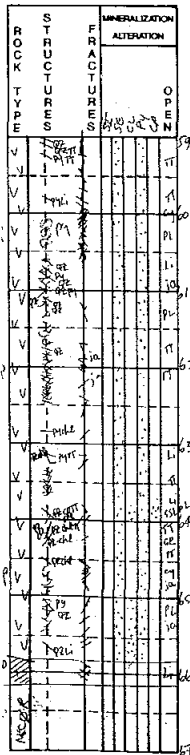


R 2510 2570 FRACTURED, BLEACHED, JAROSITE, LI ON FRACTURES, ABUNDANT QTZ
 R VEINS, LITTLE MINERALIZATION.
 R 2630 2700 BLEACHED TFLP, PY, TT INTERSTITIAL BETWEEN ANGULAR FRAGMENTS.
 D 2700 3000 97 X 040
 L 33R4 296 300
 R 2800 2810 PY VEINS, SUBHEDRAL, BRECCIATED, INFILLED WITH QTZ, SOME TT
 R SOME QTZ EYES IN LOWER SECTION.
 R 2850 2960 VUGGY AREAS WITH PL, LI, PROBABLE LEACHED VEINS; X CUTS PY
 R NETWORK VEINING (FOLLOWS FOL'N @ 50 DEGREES)
 D 3000 3440 96 X 141
 L 55R4 326 120
 N 3440 3530 83 XTFXL 000 P2 P1 D)LI
 L 11R3 010 P1 C=
 R YELLOW GREEN, WELL FOL'D @ 60 DEGREES UNIFORM TEXTURE, FRACTURES
 R LI COATED. DARK SHARDS PARALLEL FOL'N; ALTERNATE CHLORITE AND
 R SERICITE- YELLOW CLAY ALTERATION POSSIBLY SOME FINELY DISS'D
 R CHALCOCITE/TENNANTITE? A001 27.30 31.00 57042 .264 .690 1.4 28 103
 D 3530 3830 97 X 210 A001 31.00 34.00 57043 .488 .280 2.7 25 170
 L 50R4 387 010 A001 34.00 37.00 57044 .472 .150 1.4 46 300
 R 3620 3630 2 CM QTZ VEIN, VUGGY, WITH CENTRAL PY RIMMED BY TENNANTITE,
 R SILICIFIED ZONE CP ASSOC. PY FINELY XALLINE, COATED WITH
 R LIMONITE WHEN OUTSIDE OF VEIN. A001 37.00 40.00 57045 .756 .140 0.9 11 156
 R 3820 3830 PY FILLING B/N FRAGMENTS @ 38.30 A001 40.00 43.00 57046 .476 .110 0.8 10 65
 D 3830 4100 96 X 002 A001 43.00 46.00 57047 .280 .100 0.9 16 84
 L 59R4 416 300 A001 46.00 49.00 57048 .416 .130 0.9 19 142
 R 3870 3950 LIGHT GREY, POSS WITH FINE DISS'D TENNANTITE? MAY JUST BE BLACK
 R ALTERATION THROUGHOUT. WELL SERICITIZED.
 R 4030 4100 SLIGHT YELLOW CY ALTERATION, FOLIATED, BLACK BLUE TT ASSOC WITH
 R FINE DISS'D PY.
 D 4100 4650 97 X 011
 L 20 416 330
 R MARK @ 44.8
 R 4100 4160 FOLIATED FRACTURED ZONE, LI STAINS, BLEACHED.
 R 4160 4220 PY WITH BLACK MINERAL -> TENNANTITE, HAVE FINE GRAINED DISS'D
 R PY XCUT BY SMALL MICROVEINS OF PY-TT.
 R 4320 4360 CONTACT WITH FINE GRAINED TFXL, LIGHT GREEN; CONTACTS SHARP @ 50
 R DEGREES
 R 4360 4400 FRACTURED ZONE, JA POWDER ON FRACTURE SURFACES, SILICIFIED WITH
 R PY, TT DISS'D
 R 4410 4450 FRACTURE, LI, TFXL FRAGMENTS, GROUND TO CLAY
 N 4650 4780 77 XTFXL 100 P= P1 D=LICL B=
 L 15R3 620 G) C=<*<
 R SILICIFIED CONTACT @ EACH END, GREY GREEN, UNIFORM TEXTURE
 R ENHEDRAL PY DISS'D 5% PY SUBHEDRAL BLEBS 5%? LI, PH, JA, ON
 R FRACTURES; FRACTURE COUNT ESTIMATED.

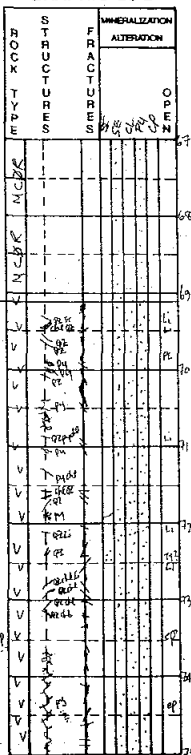


R	4760	4780	HEAVILY SILICIFIED-SERICITIZED TFLP. MATRIX LOOKS SERICITIZED WITH PY, TT; ROUNDED FRAGMENTS HARDER, QTZ RICH, SOME SERICITE, YELLOW & GREEN DAY ALTERATION. FRACTURED WITH STRONG LI STAINS TO ENVELOPES.											
D	4780	5100	88 X	121										
L			41R4	509	220									
R	4820	4860	PY CONCENTRATION IN FINE GRAINED TUFF WITH HIGH FRAGMENT CONTENT											
R			QTZ RICH, SOME CHL, PY LOOKS BRECCIATED, TT RIMS. PY XCUTS SOME											
R			QTZ VEINS.											
D	5100	5400	100 X	111										
L			29R4	539	020									
R	5150	5190	SERICITIZED WELL FOLIATED ZONE, JA ON FRACTURE SURFACE PARALLEL TO FOLIATION AND XCUTTING FOLIATION, PY & TT ALONG FOLIATION PLANES, DISS'D UP TO 5%, MINOR CY ALTERATION.											
R	5253	5255	LARGE VUGGY VEIN WITH QTZ RIMS, ASSOC CLOUDY CB IN TUFF MATRIX. DARK OLIVE GREEN DIRTY VUGGY MINERAL-> EPIDOTE? ANKERITE? PROBABLY A CLAY MINERAL CONTAINS BLACK & QTZ SPECKS			A001	49.00	52.00	57049	.448	.100	1.0	13	225
R						A001	52.00	55.00	57050	.257	.240	1.0	30	1070
R						A001	55.00	58.00	57051	.295	.480	1.1	100	480
D	5400	5700	93 X	021		A001	58.00	61.00	57052	.290	.130	0.8	31	203
L			52R4	570	330	A001	61.00	64.00	57053	.272	.430	0.6	21	150
R	5490	5495	ODD VEIN/FRACTURE FILL? COMPOSED OF BLACK VERY FINE GRAINED MATRIX WITH FINE DISS'D PY+/-CP. HARDER THAN STEEL, ALONG PLANE WITH SOME CY, LI @ 30-35 DEGREES. PARALLEL FOLIATION. SOMETIMES HAS A BLuish GREEN SHEEN MAY BE CHLORITE? OR ODD CU MINERAL.			A001	64.00	69.10	57054	.290	.120	0.4	15	66
R	5635	5640	QTZ VEIN WITH CP BLEB, TT RIMS (<1% BOTH) XCUT FOLIATION, TT, PY IN NETWORK VEINS PARALLEL FOLIATION.											
R	5690	5700	TT SURROUNDING FRACTURE PLANE (PSEUDO ENVELOPE FOR OLD VEIN?)											
D	5700	6000	95 X	020										
L			16	600	310									
R	5820	6000	ONE LARGE PL COATED FRACTURE PARALLEL C.A.											
D	6000	6300	90 X	030										
L			40R4		321									
D	6300	6580	85 X	120										
L			37R4	631	130									
R	6310	6330	HIGH CONCENTRATION OF FRAGMENTS, PY, TENNANTITE IN SMALL VEINS, AS DISS'NS IN FRAGMENTS AND INTERSTITIAL. IRREGULAR FOLDED QTZ-CHL VEIN XCUT FOLIATION.											
R	6390	6392	SMALL <1 CM QTZ VEIN WITH CP, TT, SLICKENSIDE CONTACT WITH CHL-QTZ.											
R	6419	6420	SIMILAR QTZ-CHL VEIN WITH PY (NO CP), TT WITH CHL ENVELOPES, VEIN XCUTS FOLIATION SOME CHL ALTERATION, GRAPHITE ON FOL'N PLANE, POSSIBLY SOME BN.											
R	6500	6580	CHL PERVASIVE ALTERATION AND ALONG FRACTURE PLANES INCREASES JA AND LI/PL ON FRACTURES.											
N	6580	6610	100 XANDY											

GRAPHIC LOG



GRAPHIC LOG



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50 C= D=

A003 1000 X 10(TO THE -5 POWER)=1.0 X 10(TO THE -2 POWER)

6610 7765 TFLP P1 P1 D=CLLI <) TT C* <) <.

SIMILAR TO PREVIOUS TFLP, SLIGHTLY DARKER, POSSIBLE MORE MAFIC GROUNDMASS? FRAGMENTS ALTERED TO CHLORITE, MOTTLED APPEARANCE RATHER THAN BEDDED, FOLIATION DIFFICULT TO SEE, PY MAINLY AS FINE DISS'NS OR ALTERATIONS OF FRAGMENTS OR FINE NETWORK OF MICROVEINS. QTZ+/-PY, CHL COMMON, SOME TT ASSOC'N, SOME LEACHING OF SULPHIDES.

6620 6910 XMCOR

HAVE ONLY 10 CM CORE, RELATIVELY COMPETENT ROCK R3 OR R4, HOWEVER.

6910 7200 100 X 021

35 692 220

7200 7500 96 X 011

39 722 220

7235 7240 QTZ RICH ZONE, PY, CHL, SLICKENSIDES, LI STAINING ON FRACTURES AND SURROUNDING PY VEINS.

7275 7276 DISCONTINUOUS QTZ VEIN WITH DISTINCT CHL ENVELOPES AND LI STAINING.

7330 7490 PATCHY LIGHT GREEN PERV. EP ALTERATION, YELLOW IN SOME VEINS, XCUT EP ALTERATION.

7500 7765 100 X 011

29R4 753 331

7560 7561 VEIN, VUGGY, WITH REMNANT RADIAL RHOMBS, WHITE, DO NOT FIZZ? QTZ-PY-CHL VEIN IN OPPOSITE DIRECTION, SAME ANGLE @ 40-45 DEGREES.

7620 7621 EUHEDRAL TARNISHED PY ON FRACTURE SURFACES.

7700 7715 CHL-EP ALTERATION PATCH WITH ABUNDANT FINE GRAINED PY ALL COATED WITH ORANGE LI OR HE, EUHEDRAL DISS'D PY ON FRACTURE SURFACES; POSSIBLY CP OR TARNISHED PY ALTERED, SI RICH.

7740 7765 ABRUPT LOSS OF CHL, INTENSELY FRACTURED WITH HEAVY LI COATS, BLEACHING, LOWER CONTACT WITH GREEN TUFF @ 60 DEGREES, UPPER CONTACT PERPENDICULAR TO C.A., POSSIBLY SOME TENNANTITE DISS'D (1%)

A001	69.10	72.00	57055	.320		.120	0.7	15	87
A001	72.00	75.00	57056	.336	0.3320	.330	1.0	35	240
A001	75.00	78.00	57057	.230		.200	0.5	27	94

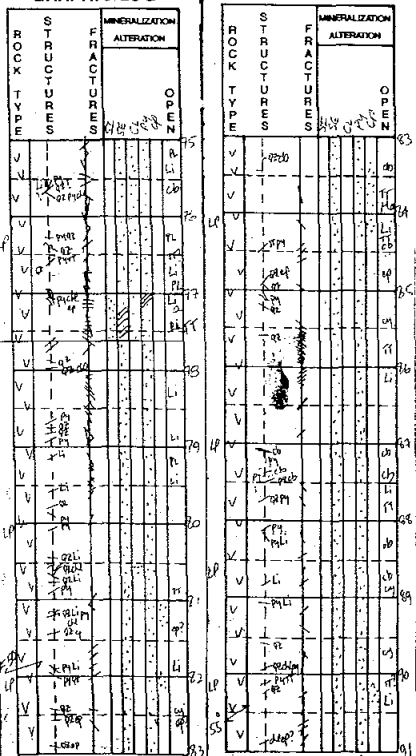
7765 10500 XTFLP P2 0+ D=LI B.<+ TT

<+ C+ <) <*

LESS INTENSE CHL ALTERATION, FOLIATION MORE VISIBLE, LIGHT GREY MOTTLED TO BANDED, FRAGMENTS ELONGATE, ROUNDED. MOST PY DISS'D OR AS ALTERED CLASTS, TENNANTITE (TT) COMMON? ASSOCIATED WITH PY MICROVEINS CB SPORADIC, MINOR, LITTLE MINERALIZATION. FOL'N @ 55 DEGREES, QTZ VEINS GENERALLY VUGGY UP TO 3 CM WIDE WITH LI STAINS, SOME CHLORITE.

GRAPHIC LOG

GRAPHIC LOG



D 7765 8100 93 X 032
 L 33R4 783 331
 R 7765 7775 LIGHT GREEN FINE GRAINED ASHTUFF, NO FRAGMENTS SEEN, TOP &
 R BOTTOM CONTACT @ 60 DEGREES, POSSIBLY SOME TT, HEAVY
 D 8100 8400 98 X 012
 L 56R4 814 020
 R 8137 8138 QTZ VEIN WITH DARK GREEN MINERAL, POSSIBLY EPIDOTE? HARD, NO
 R FIZZ, SOME PY, SOME CP ABOVE IN MATRIX BY QV.
 R 8320 8400 MORE MOTTLED PATCHY APPEARANCE, CB IRREGULAR VEINS AND BLEBS
 R CP ASSOCIATED WITH PY AS ALTERATION (SE) OF FRAGMENTS, CP 1%
 R ONE BLEB OF GREEN MICA @ 83.80, SOME TT ASSOCIATED WITH CP
 R BLEBS, MO ON FOLIATION PLANES.
 D 8400 8700 93 X 011
 L 39R4 844 021
 R 8440 8480 ALTERED, LI, PY, TT, IRREGULAR VEINS
 R 8550 8640 BLEACHED, FRACTURED, LI STAINED
 D 8700 9000 100 X 022
 L 76R4 875 120
 R 8700 8900 VERY FINE GRAINED, POSSIBLY TFXL, CB BLEBS, SOME YELLOW CY
 R ALTERATION PARALLEL FOLIATION.
 D 9000 9300 100 X 021
 L 67R4 905 130
 R 9070 9075 CONCENTRATION OF PY AS DISS'N IN MAFIC OBLONG FRAGMENTS
 R 9190 9300 VERY LIGHT GREY, FEW FRAGMENTS POSSIBLY SOME KF ALTERATION,
 R DISS'D TT, SLIGHTLY MORE INTENSE SE ALT'N, WELL FOLIATED,
 R EVERYTHING PARALLELS FOLIATION
 D 9300 9600 90 X 022
 L 74R4 936 020
 R WELL FOLIATED/BANDED, FRAGMENTS ELONGATE
 D 9600 9900 100 X 020
 L 54R4 966 220
 R 9600 9660 LIGHT GREY, FEW FRAGMENTS, WELL FOLIATED, MINOR QTZ & PY
 R VEINING.
 R 9660 9700 MORE ALTERED AND FOLIATED WITH SOME YELLOW CY, TENNANTITE DISS'D
 R HIGH CONCENTRATION OF PL ON FRACTURE
 R 9800 9865 BLEACHED, WELL FOLIATED LARGE, HEAVY PL COATING FRACTURES, SOME
 R POSSIBLY VUGGY QTZ VEINS.
 D 9900 10200 95 X 121
 L R4 997 210
 R 9910 9945 FRACTURED LI/PL COATED VUGGY QTZ VEIN, SERICITIZED
 D 10200 10500 100 X
 L 72R4 1027
 R 10334 10335 WHITE POWDER (WITH TT?) ON FOLIATION SURFACE
 R 10450 10500 WELL FOLIATED PERPENDICULAR TO CA, VUGGY QTZ-LI VEIN, FRACTURED
 R YELLOW CY ALONG ALTERATION, POSSIBLY MO OR TT ALONG FOLIATION

A001	78.00	81.00	57058	.161	.150	0.5	4	53
A001	81.00	84.00	57059	.299	.110	0.5	3	140
A001	84.00	87.00	57060	.177	.170	0.3	8	110
A001	87.00	90.00	57061	.066	.060	0.2	7	82
A001	90.00	93.00	57062	.205	.100	0.5	9	92
A001	93.00	96.00	57063	.124	.140	0.6	8	83
A001	96.00	99.00	57064	.108	.070	0.3	5	33
A001	99.00	102.00	57065	.089	.080	0.2	1	50
A001	102.00	105.00	57066	.123	.100	0.3	3	70

GRAPHIC LOG

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION	OPEN
V	P		91
V	P		92
V	P		93
V	P		94
V	P		95
V	P		96
V	P		97
V	P		98
V	P		99
V	P		100
V	P		101
V	P		102
V	P		103
V	P		104
V	P		105
V	P		106
V	P		107

GRAPHIC LOG

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION	OPEN
V	P		99
V	P		100
V	P		101
V	P		102
V	P		103
V	P		104
V	P		105
V	P		106
V	P		107
V	P		108
V	P		109
V	P		110
V	P		111
V	P		112
V	P		113
V	P		114
V	P		115
V	P		116
V	P		117
V	P		118
V	P		119
V	P		120

P 10500 13750 AGLM P3 D+BI B.<) TT
L << L3 <) <.
R LIGHT GREY- BLACK, WELL FOLIATED, BANDED, COMPETENT BUT EASILY
R SCRATCHED. BANDING DUE TO SEGREGATIONS OF BLACK MICACEOUS
R MATERIAL (BIOTITE?) ALONG FOLIATION PLANES AND BETWEEN CLOSELY
R PACKED FRAGMENTS. SOME YELLOW CREAMY CB VEINS AND OCCASIONAL PY
R VEIN ALSO PARALLEL FOLIATION QTZ-CB VEINS APPROX. 1-2% OF ROCK
R MAY HAVE HIGHER [PY] IN AREAS WITH MORE BLACK MINERAL? OTHER
R MINERALIZATION NOT SEEN. VERY LITTLE OXIDATION ON FRACTURE
R SURFACES; CP MINOR ASSOC WITH QTZ VEINS XCUTTING FOLIATION.
R FOLIATION SOMETIMES IRREGULAR, FOLDED, AND CHANGES DIRECTION,
R FEW FRACTURES, BREAKS ALONG FOLIATION.

R 10600 10670 IRREGULAR FOLIATION, PY CONCENTRATION, IRREGULAR CB AND CB-QTZ
R VEINS, SOME CP.

D 10500 10800 93 X 021
L 40R3 1058 112

R 10700 10800 CONCENTRATION OF QTZ-CB VEINS, X CUT FOLIATION, LOTS OF BI,
R IRREGULAR FOLIATION, MATRIX SOFT, R1, QTZ-CB VEIN: 80% WHITE QTZ
R 20% CB IN SMALL FRACTURE IN QTZ, CREAMY YELLOW, 10797; QTZ-CB
R VEIN WITH SUB-ANHEDRAL BLEBS OF VERY SOFT DULL GREY METALLIC
R MINERAL- DARK GREY STREAK- TETRAHEDRITE APPROXIMATELY 1-2% OF
R QTZ VEIN.

D 10800 11100 98 X 021
L 74R3 1088 001

R 10800 10840 STILL VERY SOFT, QTZ VEIN WITH CP; BLEBS OF YELLOW CB-> ANKERITE
R WITH FRACTURES FILLED WITH QTZ, AREA CY RICH, VEIN OF BLACK
R MINERAL PARALLEL CORE AXIS, XCUTTING PY VEIN THAT PARALLELS
R FOLIATION.

D 11000 11400 93 X 002
L 53R3 1119 003

R 11200 11265 LESS DISTINCT FOLIATION, QTZ EYES INFILLED WITH CB. POSSIBLY
R SOME TT AS RIMS AROUND PY.

R 11350 11400 POSSIBLY QS ALTERATION, LESS BLACK BANDING DISSEMINATED BY 5%,
R CB PARALLELS FOLIATION.

D 11400 11700 100 X 022
L 79R3 1149 000

R HIGHER CONCENTRATION OF BLACK MATERIAL, FELSIC FRAGMENTS UP
R TO 70%.

R 11530 11700 PY ASSOCIATED WITH IRREGULAR "VEINS" OF BLACK BIOTITE.

D 11700 12000 94 X 131
L 60R3 1180 003

R 11700 11930 CB VEINS ERRATIC, DISCONTINUOUS, SYNCHRONOUS WITH BI MINERAL?
R XCUTTING RELATIONSHIPS CHANGE AND REVERSE.

R 11880 11890 PY BLEBS WITH QS ENVELOPES WITH OUTER BI ENVELOPE.

D 12000 12300 100 X 030

A001	105.00	108.00	57067	.087	.090	0.7	12	195
A001	108.00	111.00	57068	.124	.150	0.5	23	136
A001	111.00	114.00	57069	.075	.100	0.8	36	236
A001	114.00	117.00	57070	.058	.120	0.7	22	240
A001	117.00	120.00	57071	.051	.050	0.2	12	92

L 90R3 1210 102
 D 12300 12600 88 X 012
 L 42R3 1241 003
 R 12350 12500BIOTITE AND PY VEINS PRODUCE XCUTTING NETWORK VEINS IN FINE
 R GRAINED GREY MATRIX. CB ASSOCIATED WITH PY VEINS AND BLEBS.
 R POSSIBLY SOME OLIVE GREEN EP AND SILICIFIED ZONE.
 R SMALL FAULT ZONE IMMEDIATELY ABOVE AREAS WITH HIGHER FRAGMENT
 R CONCENTRATION (FELSIC) GENERALLY HAS MORE BIOTITE AND ASSOC'D
 R PY. SMALL FINE GRAINED TUFF LAYER? SERICITIZED WITH PY, VERY
 R LITTLE BIOTITE. FOLIATION PARALLELS CONTACT.
 D 12600 12900 93 X
 L 70R3 1271
 R ROCK BREAKS EASILY ALONG FOLIATION PLANES EVEN WITH HIGH RDQ.
 R 12600 12700HIGH PY% AND BIX ASSOCIATED PARALLEL FOLIATION, FOLIATION
 R INCREASES INTENSITY GOUGE? CY RICH, FOLIATION DISTURBED,
 R BOUNDED @ EACH END BY QTZ-CB+/-EP VEIN. SIMILAR TO (107.0-
 R 108.0), HEAVILY SERICITIZED, SOME GRAPHITE ALONG FOLIATION
 R PLANE, NO MINERALIZATION SEEN.
 R 12880 12900CONCENTRATION OF CB AND QTZ-CB VEINS, ANGULAR, DISCONTINUOUS
 R MAY BE TRUNCATED BY UNSEEN MOVEMENT? TWO CB: 1) WHITE CB AS
 R INFILL IN CRACKS IN QTZ VEIN (QTZ-CB) FIZZES READILY 2) YELLOW
 R CB, FIZZES BETTER WHEN POWDERED, (CB) BOTH TRUNCATE EACH OTHER
 D 12900 13200 100 X 022
 L 79R3 1301 110
 R 12920 12930QTZ-CB VEIN? BANDED TOGETHER WITH BI MAKING CONTACTS BETWEEN
 R THEM VERY IRREGULAR PTYGMATIC?
 R 12970 13140LESS BI (10% INSTEAD OF 20-30%) ALONG FOLIATION PY MAINLY
 R DISSEMINATED(<5%) BUT ASSOCIATED WITH BI, POSSIBLY SOME CP @
 R 130.8
 R 13105 13106BLEB OF GREEN (APPLE) MINERAL: CY ALTERATION OF FRAGMENT? TOO
 R SOFT FOR EP.
 R 13510 14200CORE BOX #24 SPILT. SOME MIX UP.
 R 13250 13270SLIGHTLY FAULTED, BLEACHED, CY ALTERATION, LITTLE BI BANDING
 D 13200 13500 94 X 011
 L 50R3 1332 003
 R 13320 13360CONCENTRATION OF BI, QTZ VEIN WITH YELLOW CB INFILL, PY POSSIBLY
 R SOME CP.
 D 13500 13750 100 X 002
 L 64R3 1362 102
 R 13540 13550GROUND MASS UNALTERED, LIGHT GREY, FRAGMENT: OVOID WITH BI
 R THROUGHOUT, SOME PY.
 R 13650 13750LOSE BI IN BANDING, YELLOW CB VEINS INCREASE, YELLOW CY? POSS
 R SOME SILICIFICATION, SOME CB LESS VEIN LIKE, FOLLOWS FOLIATION.
 P 13750 14310 8TFLP P1 P1 D+LIEP <>
 L <> <><> <>

A001	120.00	123.00	57072	.064	.090	0.4	14	140
A001	123.00	126.00	57073	.068	.230	0.5	14	254
A001	126.00	129.00	57074	.047	.110	0.2	7	116
A001	129.00	132.00	57075	.047	.110	0.1	3	42
A001	132.00	135.00	57076	.123	.090	0.5	7	70
A001	135.00	138.00	57077	.107	.300	2.2	58	160

GRAPHIC LOG

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION		OPEN
		FRACTURES		
cb	qz, cb			107
cb	qz, cb			108
cb	qz, cb			109
cb	qz, cb			110
cb	qz, cb			111
cb	qz, cb			112
cb	qz, cb			113
cb	qz, cb			114
cb	qz, cb			115

GRAPHIC LOG

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION		OPEN
		FRACTURES		
cb	qz, cb			115
cb	qz, cb			116
cb	qz, cb			117
cb	qz, cb			118
cb	qz, cb			119
cb	qz, cb			120
cb	qz, cb			121
cb	qz, cb			122
cb	qz, cb			123

GRAPHIC LOG

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION		OPEN
		FRACTURES		
cb	qz, cb			123
cb	qz, cb			124
cb	qz, cb			125
cb	qz, cb			126
cb	qz, cb			127
cb	qz, cb			128
cb	qz, cb			129
cb	qz, cb			130
cb	qz, cb			131

GRAPHIC LOG

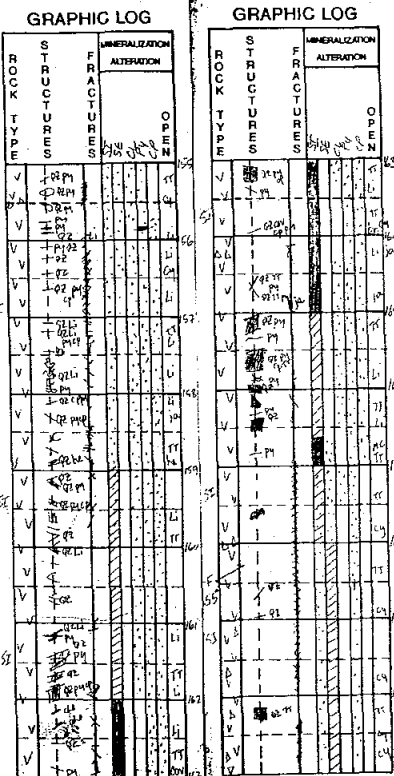
ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION		OPEN
		FRACTURES		
cb	qz, cb			131
cb	qz, cb			132
cb	qz, cb			133
cb	qz, cb			134
cb	qz, cb			135
cb	qz, cb			136
cb	qz, cb			137
cb	qz, cb			138
cb	qz, cb			139

GRAPHIC LOG

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION		OPEN
		FRACTURES		
cb	qz, cb			139
cb	qz, cb			140
cb	qz, cb			141
cb	qz, cb			142
cb	qz, cb			143
cb	qz, cb			144
cb	qz, cb			145
cb	qz, cb			146
cb	qz, cb			147

GRAPHIC LOG

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION		OPEN
		FRACTURES		
cb	qz, cb			147
cb	qz, cb			148
cb	qz, cb			149
cb	qz, cb			150
cb	qz, cb			151
cb	qz, cb			152
cb	qz, cb			153
cb	qz, cb			154
cb	qz, cb			155



R VERY JUMBLED UP, POSS RNZN? BOTH SILICIFICATION AND
 R CHLORITIZATION, ASSOCIATED, WELL FOLIATED, PY DISSEMINATED ALSO
 R AS VEINS. ASSOCIATED WITH QTZ VEINS AND MINOR LI STAINS. EP
 R ALSO ASSOCIATED AS INFILL IN QTZ VEINS, QV VUGGY, SOME MG/HE
 R @ END. QTZ ZONE 139.3-141.1, WHITE RUBBLE SEE GRAPH FOR MUCH
 R BETTER DESCRIPTION!

D 13750 14050 55CL9TFLP
 L OR3 1393
 R 13870 13900 YELLOW-GREY COLOUR, VUGGY, QS ALTERED, ORANGE OXIDE STAINS WITH
 R PY, DISSEMINATED TENNANTITE SOME QTZ VEIN WITH TT POSSIBLY SOME
 R ANHYDRITE.

A003 14290 14295 650
 R 13930 14100 QS ALTERED, WHITE, RBZN, PY SOME TT CY, WELL FOLIATED POOR
 R RECOVERY.

D 14050 14310 70 X 000
 L 10R3 1423 000

R 14100 14200 VERY LITTLE CORE, VARIOUS TYPES THEREFORE MIXED UP WHEN BOX
 R SPILLED

R 14260 14261 CU CRYSTALS? ON FRACTURE SURFACE BUT FIELD ASSISTANT LOST IT!
 R 14290 14300 HE/MG, SOME MAGNETICS
 P 14310 14900 XTUFF P1 JALI <+ TT
 L E.<* P*C*<* <+ D.

R LIGHT GREY- GREY GREEN, MODERATELY-WELL FOLIATED, MOTTLED TO
 R EQUIGRANULAR, FRAGMENTS ROUND, ELONGATE PARALLEL TO FOLIATION,
 R PY AND QTZ-CB, QTZ VEINS OFTEN ASSOCIATED, CB AS INFILL
 R FRACTURES IN QTZ. PY HAS QS ENVELOPES AND ORANGE STAINS, XCUT
 R QTZ-CB VEINS, SOME TT DISSEMINATED IN BLEACHED ZONES WITH CLAY
 R PY GENERALLY DISSEMINATED ABOUT 5%

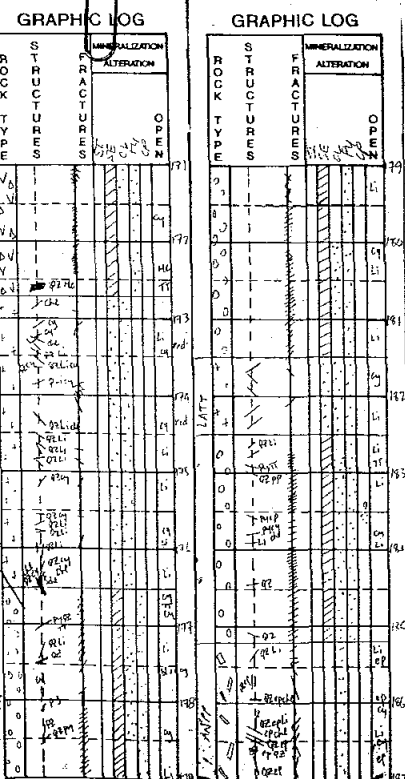
D 14310 14600 93 X 021
 L 63R3 1454

R 14630 14631 CP BLEB IN QTZ VEIN WITH LI
 D 14600 14900 95 X 012
 L 33R3 1484 012

P 14900 17270 KRXBQZ P4P2D+ TTJAB*<+ CCMC
 L P1 G= D+<= V2 C)C)

R GREEN TO WHITE, PATCHY, MOTTLED, DISRUPTED, CHLORITIZED+/-
 R SERICITE ALTERED TUFF WITH INCREASING QTZ VEINING AND POSSIBLY
 R PERVASIVE. SI ALTERATION WITH DEPTH. QTZ VEINS LARGE, IRREGULAR
 R HEAVILY FRACTURED WITH NETWORK OF PY, LI WITH PY AND BLK
 R MICROVEINS. LI AND JA COMMON IN NETWORK. VEINS DISRUPT FOLIATION
 R BUT DO NOT XCUT, FROM .3 CM TO 5 CM BECOMES INCREASINGLY SI RICH
 R @ 162.0 -80% QTZ WITH CHL RICH VAGUE FRAGMENTS? CP AS BLEBS IN
 R QTZ RICH AREAS, ASSOCIATED WITH PY, SOME WITH CHL FRAGMENTS
 R BOTTOM CONTACT IS LARGE CY RICH FAULT GOUGE OTHER
 R MINERALIZATION MAY BE PRESENT BUT MINOR. NOTE: PERCENTAGES MAY

A001	138.00	141.00	57078	.424	.090	1.2	7	66
A001	141.00	144.00	57079	.592	.340	2.1	42	286
A001	144.00	147.00	57080	.756	.300	2.3	36	166
A001	147.00	150.00	57081	1.250	1.250	3.9	30	360



R NOT BE REPRESENTATIVE. SOME IE. (CL) REFER ONLY TO THE TUFF
R MATERIAL, NOT THE QTZ-SI RICH AREAS. THIS TYPE OF QTZ VEIN SEEN
R IN 89-05 @ 70 AND 90 M - HIGH TU-CU VALUES, MC MINOR, CC COATING
R PY, CP UP TO 2%? TT COMMON IN QTZ RICH SERICITE LESS CHL ALTERED
R ZONES.

D 14900 15200 83 X 001
L 13R3 1515 XXX

R 14960 14970 IN QTZ RICH ZONE, MASSIVE PY-CP VEIN. VERY FINE SUBHEDRAL
R CRYSTALS, QTZ, 20% BROKEN, WHITE POWDERY CY ON FRACTURE SURFACES
R ROCK IS WUGGY WITH LI STAINS, LESS SI, MORE CHL, ABUNDANT TT,
R POSSIBLE BN.

D 15200 15500 80 X 022
L 53R4 1545 003

R 15200 15300 CHL RICH IRREGULAR QTZ VEINS AND PY MICROVEINS THROUGHOUT,
R FOLIATION 90-70% VERY MIXED UP.

R 15300 15440 MORE TFL? LI/CL WITH CHL ALTERATION AND PY-QTZ, PY VEINS
R COMPETENT. FOOTAGE BLOCKS MAY BE WRONG.

R 15450 15500 GREENISH, SOME YELLOW, HIGH [PY] DISSEMINATION IN GROUND MASS
R IRREGULAR QTZ VEIN, SIMILAR TO (152-153)

D 15500 15800 87 X 002
L 21R3 1576 XXX

R 15580 15585 SMALL 2 CM MASSIVE PY VEIN SOME CP
R 15630 15700 FRACTURED, WHITE CY ON SURFACES

R 15760 15800 ABUNDANT QTZ-LI VEINS, NO ORIENTATION, XCUT FOLIATION, MATRIX
R VERY CHLORITE RICH, FRACTURED, QTZ VEINS FRACTURED, SIMILAR
R TO ALL OTHER QTZ VEINS. NOTE: MAY HAVE YELLOW CB IN THESE
R QTZ VEINS, OR CY. DIFFICULT TO TELL.

D 15800 16100 93 X
L 18R4 1606

R 15800 16100 ROCK RELATIVELY COMPETENT AND HARD, NOT SHOWN BY ROD.

R 15820 15821 QTZ VEIN WITH CENTRALIZED PY-CP VEIN

R 15880 15881 BLEB OF HE ASSOCIATED WITH CHL NEXT TO QTZ VEIN. NOT MAGNETIC.

R 15900 16000 STEADY INCREASE IN QTZ VEINS WITH PY, CP, TT RUSTED AREA. CP UP
R TO 1-2% OF ROCK, TT SPORADIC USUALLY IN MATRIX.

D 16200 16500 93 X 001
L 36R4 1637 121

R 16200 16500 80% QTZ WITH STOCK WORK/NETWORK OF PY, BLK MINERAL MICROVEINS
R THROUGHOUT, MATRIX (20%) CHLORITE ALTERED, POSSIBLE BN OR
R COVELLITE DISSEMINATED THROUGH QTZ VEINS, SOME COATING PY/CP

R 16400 16410 GOOD CRYSTALS OF COVELLITE OR BORNITE IN QTZ VEIN WITH PYRITE
R POSSIBLY SOME HEMATITE (HE)

D 16500 16800 92 X
L 97R4 1667 XXX

R 16780 16785 QTZ VEIN WITH WHITE CY IN FRACTURES AND LEMON YELLOW HUE,

A001	150.00	153.00	57082	1.240	1.2300	.750	1.7	16	125
A001	153.00	156.00	57083	.964		.690	1.3	13	100
A001	156.00	159.00	57084	1.020		.580	0.9	14	153
A001	159.00	162.00	57085	.964		.720	1.1	11	69
A001	162.00	165.00	57086	.652	1.310		1.8	300	270
A001	165.00	168.00	57087	.592	.550		1.5	21	64

R BEGINNING OF FAULT GOUGE, LIGHT GREEN CLAY, POSSIBLY MC
 R STAINING IN MORE COMPETENT ROCK, LOSING CHLORITE ALTERATION.
 D 16800 17270 60 X 000
 L 2R1 1698 XXX
 R FAULTED ZONE, LIGHT GREY, CY RICH NO TEXTURES LEFT EXCEPT FOR
 R SOME FOLIATION. BLEACHED, SOME QTZ VEINS, SULPHIDES STILL REMAIN
 R AS MINOR DISSEMINATIONS AND VEINS IN COMPETENT PIECES, LIGHT
 R CY PERVASIVE THROUGHOUT INTERVAL: ALTERATION OF CLASTS? SIMILAR
 R TO BLUE CY SEEN IN KS-066. MC FOUND @ END OF INTERVAL WITH SOME
 R CY IN LESS GOUGED AREA, TENNANTITE DISSEMINATED THROUGHOUT.

R 17100 17270 MUCH LOST CORE

R 17265 17270 REMNANT QTZ VEIN WITH TT AND MC STAINING. MUCH SERICITE

P 17270 17650 86PPXLAPP 221 P= P2 LICL
 L 34 1759 021 G) C=<+<=

R YELLOW GREEN TO GREEN, SPOTTED, CONSISTENT TEXTURE, PF
 R PHENOCRYSTS SUB-ENHEDRAL, UP TO 3 MM, 40-50% OF ROCK, MATRIX
 R CHLORITIZED. VUGGY QTZ VEINS WITH EXTENSIVE LI COATINGS. LITTLE
 R MINERALIZATION LEFT EXCEPT POSSIBLY ALONG FRACTURE (TT) SOME CY
 R INFILLED, CHL (DARK FINE GRAINED, GREEN) VEINS COMMON AT BOTH
 R CONTACTS, SOME BLEACHING FOR 40 CM @ TOP ENVELOPE SOME QV.
 R UNIQUE RED STAIN ON FRACTURE SURFACES AT TOP.

A001	168.00	172.70	57088	.568	.290	1.8	28	324
A001	172.70	176.50	57089	.231	.020	0.1	7	227
A001	176.50	179.50	57090	.912	.220	2.6	41	310
A001	179.50	182.50	57091	.460	.140	1.2	30	383

R 17280 17320 BLEACHED ZONE, CHL VEINS, CY-QTZ IN VEINS AND SMALL BLEBS.

R PHENOCRYSTS STRETCHED, WELL FOLIATED RED STREAKS ON FOLIATION
 R PLANES, UNUSUAL. FOLIATION PLANES ALSO HAVE LI.

R 17640 17650 LARGE QTZ-CY VEIN, BXWK, KAOLITE CLAY, FINE GRAINED CHL IN VEIN
 R AS WELL, SOME LI CONTACT WITH LOWER UNIT @ 15 DEGREES/VEIN.

P 17650 18520 XRBZN P3 P1 D+ <+
 L P2 <+

R GREEN TO GREY, FLAKY, FOLIATED, FOLIATION CHANGES QUICKLY,
 R FRACTURE ALONG FOLIATION, SOME AREAS MORE COMPETENT THAN
 R OTHERS, PROBABLE TFLP ORIGINAL ROCK. HEAVILY SERICITIZED
 R AREAS HAVE TT FINELY DISSEMINATED THROUGHOUT, MORE CHLORITIZED
 R ZONES MORE PY-(CP?) BLUE GREEN CY COMMON, LI ON FRACTURES,
 R SOME WHITE KAOLINITE.

D 17650 17950 90 X 000
 L OR2 1789 XXX

R 17900 17950 LESS FOLIATED, MORE BLOCKY FRACTURING, LI STAINING ON FRACTURES
 R DISSEMINATED.

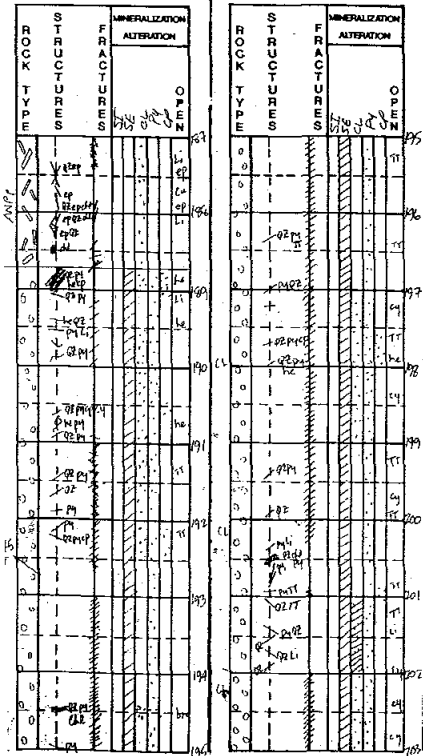
D 17950 18150 50 X 000
 L OR2 XXX

N 18150 18250 70 XLATT 030 P1 D=
 L 12R2 1820 020 <=

R BREAKS ALONG FOLIATION PLANES, ORANGE GREEN, UNIFORM WITH SMALL
 R BLACK SPOTS, MODERATE FOLIATION, MAFICS ALIGNED PARALLEL TO
 R FOLIATION, ORANGE, HARD VEINS PARALLEL TO FOLIATION: MIX OF

GRAPHIC LOG

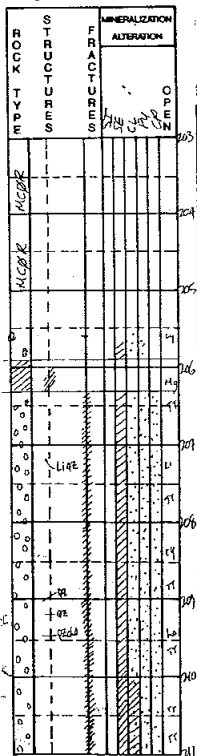
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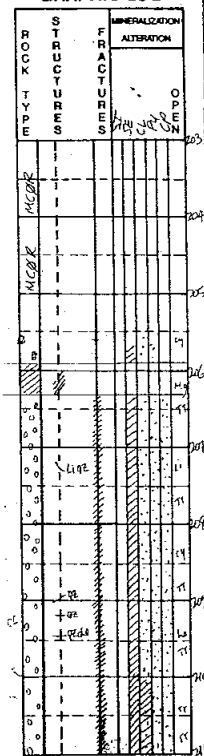
R QTZ AND CY? PY MAINLY AS DISSEMINATED ALTERATION WITH CHL OF
R MAFIC PHENOCRYSTS, WHITE KAOLIN ON FRACTURE SURFACES.
D 18250 18520 70 X 000
L 5R2 1850 XXX
R CONTACT IS CHANGED FROM FINE GRAINED LATITE WITH MAFIC
R PHENOCRYSTS TO DARK FINE GRAINED MATRIX WITH FELSIC
R PHENOCRYSTS, IRREGULAR QTZ-LI VEINS.
R 18500 18520 SOME CHL ALSO IN VEINS WITH PERVASIVE CHL.
P 18520 18870 91 XANPP 112 P=<) CL CU
L 26R3 1881 013 <) <+ D.
R PREMIER POPHYRY, FINE GRAINED MATRIX GREEN-PURPLE WITH 20%
R SUB-EUHEDRAL ZONED PF UP TO 3 MM, 2% EUHEDRAL, KF UP TO 5-7 MM
R SOME INCLUSIONS; HARD, COMPETENT, NOT EASILY SCRATCHED, MINOR
R FOLIATION AND BLEACHING AT CONTACTS WITH RBZN, LARGE QTZ VEIN AT
R BOTTOM CONTACT (10 CM) QTZ-EP +/- CHL VEINS COMMON, WIGGY AT ~45
R DEGREES BUT SOME IRREGULAR. NATIVE CU ON SMALL IRREGULAR BLEBS
R ON FRESH SURFACES POSSIBLY ASSOCIATED WITH CHL. LITTLE OTHER
R MINERALIZATION, RED COATING WITH LI ON FRACTURE SURFACES, NOT
R HE, PURPLE MATRIX PROBABLY DUE TO SECONDARY BIOTITE- HORNFELS
R ALTERATION.
R 18700 18750 JUMBLED ZONE, BLEACHING, LOSS OF PURPLE COLOUR, STILL NOT WELL
R FOLIATED.
R 18850 18870 BLEACHED ZONE, LARGE CLUMP OF CHLORITE WITH OUTER QTZ, LOSE
R PHENOCRYSTS. CU JUST ABOVE INTERVAL IN RELATIVELY UNALTERED
R PP AT 188.15 M.
P 18870 21240 CLXRBN P2 P2 D=CLHEB* <) D.TT
L G+ <) <) <) D.
R DARK GREEN TO GREEN GREY, FLAKY TO GRANULAR SOME IRREGULAR
R FOLIATION AND OCCASIONAL QV ONLY STRUCTURES REMAINING;
R HEAVILY ALTERED. CP ASSOCIATION WITH CHL RICH ZONES. TT WITH
R SERICITE MINUS CHLORITE- TENDS TO BE MORE JUMBLED, IN GENERAL
R CHLORITE INCREASES WITH DEPTH. HE ASSOCIATED WITH QTZ VEINS IN
R CHLORITE RICH ZONES. QTZ VEINS VISIBLE RESEMBLE VEINS IN SI
R TUFF (149.0-172.7). WHITE KAOLIN ON FRACTURE PLANES.
D 18870 19200 65 X 000
L OR2 1911 XXX
R 18870 18900 WIGGY QTZ VEIN WITH IRREGULAR PY VEIN WITH ASSOCIATED SPECULAR
R HE, CHL. BLEBS OF CP WITH ASSOCIATED COVELLITE AND CC COATING
R CP UP TO 1%? VERY MIXED UP POSSIBLY SOME TT IN QTZ VEIN.
R VERY ALTERED.
D 19200 19500 40 X 000
L OR2 1942 XXX
R 19300 19720 LOSS OF CHL ALTERATION, MAINLY SERICITIC- CY ALTERATION, LIGHT
R GREY WITH DISSEMINATED PY, EUHEDRAL UP TO 10%, SOME TT, MINOR
R BN? ON FOLIATION PLANES RELATIVELY HIGH S.G.

A001	182.50	185.30	57092	.860	.240	2.0	21	264
A001	185.30	188.70	57093	.117	.020	0.1	4	460
A001	188.70	192.00	57094	2.070	.980	1.8	8	82
A001	192.00	195.00	57095	1.240	1.2200	1.4	8	26

GRAPHIC LOG



GRAPHIC LOG

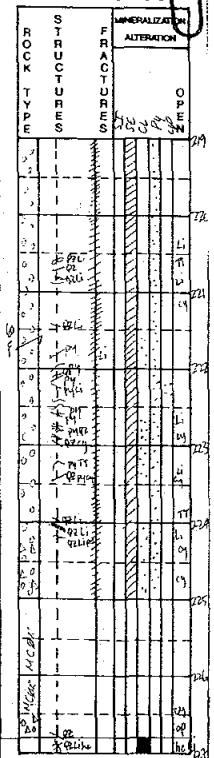
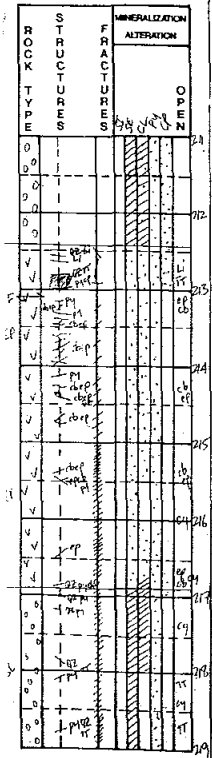


D 19500 19800 53 X
 L OR2 1972 XXX
 R POOR RECOVERY.
 R 19770 19790 CHL WITH QTZ VEIN, HE, CP, PY+/_TT
 R 19800 19900 WHITE KAOLIN OF FRACTURE SURFACES.
 D 19800 20100 50 X
 L OR2 2003 XXX
 R 19900 20100 LOSS OF CHL, TT DISSEMINATED THROUGHOUT, SLIGHTLY MORE COMPETENT
 R AT END OF INTERVAL; FOLIATION, VEIN ATTITUDES DISTINGUISHABLE,
 R SOME YELLOW PERVASIVE CY ALTERATION, FOLIATION CHANGES RAPIDLY
 R 20080 20095 PY WITH TT, SOME CP POSSIBLY NATIVE COPPER ADJ TO PY SUBHEDRAL
 D 20100 20590 20 X
 L OR2 2033 XXX
 R 20300 20580 MISSING CORE 97%, REST IS SEWRICITIZED WITH SMALL PY-CP-TT VEINS.
 R 20100 20190 RED STAINING ON FRACTURE SURFACES, INTENSE CHL ALTERATION,
 R DISTORTED FOLIATION
 R 20190 20300 30 CM RECOVERY, FAULT ZONE, CY 80% GREY R1
 N 20590 20630 88 XANDY 020 A) <= LI MG
 L 78R4 000 C* A* D=
 R AMYGDALOIDAL, FINE GRAINED, MINOR ST WK OF QTZ VEIN
 A003 20590 20630 1500
 D 20630 20800 30 X
 L OR1 XXXX
 R VERY POOR RECOVERY, LITTLE LEFT BUT SMALL PIECES, PY FREE, 10%,
 R CP 1-2%, TT, ABUNDANT CP ON FOLIATION PLANES, ASSOCIATED WITH
 R QTZ VEINS WITH NETWORK PY-BLACK MINERAL STKWK.
 D 20800 21240 60 X
 L OR1 2094 XXX
 R INTERVAL V. CHLORITE RICH WITH QTZ RICH FRAGMENTS WITH ABUNDANT
 R BLACK MINERAL- TT DISSEMINATED. VERY DARK COLOUR, WHITE CY
 R COMMON
 P 21240 21690 EPXTUFF P= P2 <= CL < *
 L <= < < *
 R BANDED, WELL FOLIATED, EASILY SCRATCHED, COMPETENT, BREAKS ALONG
 R FOLIATION, NOT CRUMBLY, GREEN GREY, SAME ROCK TYPE? STKWK
 R EP-CB VEINING, IRREGULAR, XCUT FOLIATION, SOME QTZ, EP OLIVE
 R GREEN, GENERALLY CENTRAL, CB ELLOW, FIZZES WHEN SCRATCHED,
 R USUALLY ON OUTER EDGE OF VEIN BUT ALSO TENSION GASHES?
 R PERPENDICULAR TO EDGES. SELECTIVE LEACHING OF EP OR CB
 R THROUGHOUT, SOME PY ASSOCIATED.
 D 21240 21500 90 X 022
 L 12R4 2124 XXX
 R 21240 21300 TRANSITION/CONTACT QTZ, VERY BLACK WITH TT, CP-PY BLEBS, CP 2-5%
 D 21500 21690 58 X
 L OR2 2155 XXX

A001 195.00	199.00	57096	1.080	.440	1.0	13	75	
A001 199.00	202.00	57097	.960	.310	1.2	23	100	
A001 202.00	206.30	57098	.376	.250	0.6	17	285	
A001 206.30	209.40	57099	1.370	.500	2.0	11	62	
A001 209.40	212.40	57100	1.480	1.4900	.490	2.1	5	44
A001 212.40	215.50	57101	.349	.520				
A001 215.50	218.50	57102	.608	.300				

GRAPHIC LOG

GRAPHIC LOG

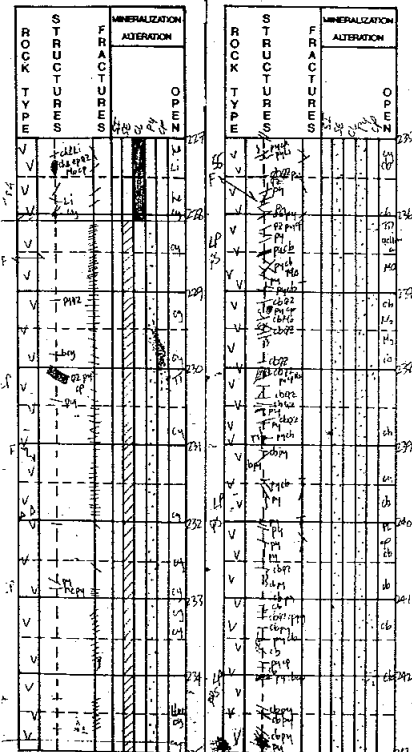


P 21690 22680 SE7RBZN P3 P) D= TT
 L R2 C) <=<) D+
 R SIMILAR TO RBZN (188.7-212.4) EXCEPT LESS CHL MORE GREY SERICITE
 R WITH DISSEMINATED PY. TT UP TO 2-5% SOME CHL ALTERATION ZONES,
 R LI OCCURS IN MORE COMPETENT ZONES (222.0- 226.8) WITH QTZ
 R VEINING. WHITE KAOLINITE ON MOST SURFACES.
 D 21690 22000 68 X
 L OR2 2185 XXX
 R 21690 21790 CHLORITE RICH
 D 22000 22300 70 X
 L OR3 2216 XXX
 D 22300 22680 71 X
 L 0 2246 XXX
 R 22370 22375 CRUMBLES LIKE SAND, PY-QTZ-TT
 R 22410 22500 BRECCIATED ZONE WITH KAOLIN INFILL AND SOME OLIVE GREEN EPIDOTE
 R 22500 22660 MISSING CORE, NO RECOVERY
 P 22680 22810 75 XTF 021 P1 P6 CLHEB. LIMO
 L 6R4 2277 020 C. Q)Q*Q+ C)B.
 A003 22680 22810 60
 R DARK GREEN, FINE GRAINED, NO VISIBLE FOLIATION ALTHOUGH MULTIPLE
 R IRREGULAR CHL-QTZ-LI-EP VEINS/BLEBS- CHL RIMS OUTSIDE. HE
 R COMMONLY ASSOCIATED WITH VEINS, RED STAINING OF FRACTURE PLANES
 R SOME MAY BE CU. MO AND CP ASSOCIATED IN PATCHY QTZ-EP VEINS,
 R MINOR, PATCHES VUGGY
 P 22810 23210 CYXTFLP P2 D= B.<= TT
 L P1 V* D)
 R YELLOW GREY, WELL FOLIATED, BANDED, SOFT, WITH CY ON FOLIATION
 R PLANES, BOTH YELLOW AND WHITE, SOME CONCENTRATIONS OF BLUE GREY
 R CLAY. ROCK HAS BLACK BANDS: FINE GRAINED CONCENTRATION OF PY
 R ALONG FOLIATION, QTZ VEINS BOUDINAGED, ALMOST SUGARY, MINOR
 R EXCEPT ONE AT 230.4 M POSSIBLY WITH CP.
 D 22810 23210 76 X
 L OR2 2307 XXX
 R 22810 22900 ONLY 30 CM CORE RECOVERED
 P 23210 24610 QS8TFLP P2 D= B*<= TTMO
 L <= P) <= <*.
 R FINE GRAINED, SLIGHT YELLOW COLOUR, WEAK FOLIATION, FRAGMENTS
 R ROUND, SLONGATE PATCHY, MOTTLED TEXTURE, FRAGMENTS UP TO 20%
 R OF ROCK, ALL DACITIC-FELSIC PY AS SUBHEDRAL FINE DISSEMINATIONS
 R SUB-EUHEDRAL PY ASSOCIATED WITH CB AND QTZ VEINS STOCKWORK
 R GENERALLY PARALLEL FOLIATION BUT ANGULAR AND XCUT IN ALL
 R DIRECTIONS. SOMETIMES PATCHY, CP AND TT ALSO ASSOCIATED WITH
 R THESE VEINS, CB WHITE.
 D 23210 23480 95CYXTFLP
 L 30 P=

A001 218.50	222.00	57103	.624	.210
A001 222.00	225.00	57104	.848	.310
A001 225.00	228.10	57105	.308	.140
A001 228.10	231.00	57106	.544	.210
A001 231.00	234.00	57107	.303	.170

GRAPHIC LOG

GRAPHIC LOG



R MORE YELLOW CY ALTERATION THAN REST OF PGI, COMPETENT, BUT WITH
R SOME AREAS VERY SIMILAR TO (228.1-232.1). PROBABLY SAME ROCK
R TYPE, LESS ALTERED. NO CB, LESS PY VEINS, NO QTZ, ONE HE VEIN.

D 23480 23800 97 X 121
L 66R4 2368 000

R 23660 23662MO ON FOLIATION PLANE, ADJACENT TO CB-QTZ VEIN XCUT LATER BY
R CB-PY VEIN (PY SUBHEDRAL). SOME YELLOW CY ALTERATION, VERY MINOR
R 23760 23810HIGH CONCENTRATION OF PY AND CB-QTZ VEINS ADJACENT TO EACH OTHER
R SOME CP. QTZ INFILLED WITH WHITE CB, PY (SUBHEDRAL) GENERALLY
R ADJACENT TO VEINS WITH BLEBS OF CP, SOME YELLOW CY ALTERATION
R QTZ-CB VEINS IRREGULAR, DISCONTINUOUS.

D 23800 24100 90 X 122
L 68R4 2399 100

R 24000 24050GOOD TFLP, LITTLE CB VEINING BUT EP (OLIVE GREEN) IN IRREGULAR
R OBLONG BLEBS. SOME FRACTURING WITH BLACK WAD/PL STAINS.

D 24100 24400 100 X 113
L 97R4 2429 000

R INTERVAL GOOD TFLP

D 24400 24610 97 X 122
L 87R4 2460 000

R 24450 24470CB-QTZ-PY CONCENTRATION, CP AND TT BLEBS IN QTZ- CB VEIN
R 24570 24571CP BLEB SURROUNDED BY CB

E 24610 25580 CY TFLP P=
L P2

R SIMILAR TO QS TFLP, ALSO CONTAINS YELLOW CY ALTERATION WITHIN
R FOLIATION. SIMILAR TO UNIT (232.10-234.80) CB PROMINENT, NOTHING
R ELSE HAS CHANGED. SOME QS ENVELOPES AROUND PY VEINS NOTICED IN
R YELLOW AREAS.

R 24640 24665MASSIVE QTZ-CB VEIN WITH ADJACENT SHEETING OF SUBHEDRAL PY BLEBS
R SOME TT DISSEMINATED THROUGHOUT.

D 24610 24900 100 X 122
L 88R4 2490 0000

R 24880 24910QTZ-CB VEINS WITH MO, IRREGULAR, BOUDINAGED.

D 24900 25200 93 X 022
L 83R4 000

R 24949 24952PY +/-QTZ VEIN, MO-QTZ RICH EDGES

R 24985 24986SMALL BLEB OF PINK CB

R 25120 25130ZONE INTENSE ALTERATION, YELLOW CY, PY, FUCHSITE, YELLOW GREEN
R EP. PY DISSEMINATED 10%

D 25200 25580 98 X 122
L 80R4 2521 000

R 25255 25260PY SUBHEDRAL VEIN SOFT, UNCONSOLIDATED POSSIBLY SOME EP.

R 25500 25580INTENSE YELLOW CY ALTERATION WELL FOLIATED, PY UP TO 10%

P 25580 25630 100 XTFAP P4 CL <.
L 100R4 2563 V= <= V1

A001	234.00	237.00	57108	.260	.380
A001	237.00	240.00	57109	.280	.290
A001	240.00	243.00	57110	.134	.250
A001	243.00	246.00	57111	.243	.680
A001	246.00	249.00	57112	.370	.660
A001	249.00	252.00	57113	.330	0.3260 .380
A001	252.00	256.30	57114	.151	.160

GRAPHIC LOG										
ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION		OPEN	ELEVATION	DISTANCE	DIP	DIRECTION	REMARKS
			MINERALIZATION	ALTERATION						
V	chpy				cb	246				
V	chpy				cb	247				
V	chpy				cb	248				
V	chpy				cb	249				
V	chpy				cb	250				
V	chpy				cb	251				
V	chpy				cb	252				
V	chpy				cb	253				
V	chpy				cb	254				
V	chpy				cb	255				
V	chpy				cb	256				
V	chpy				cb	257				
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V	chpy				cb	297				
V	chpy				cb	298				
V	chpy				cb	299				
V	chpy				cb	300				

R FINE GRAINED, UNIFORM, DARK GREEN, SIMILAR TO (226.6-228.1)
R NO NOTICEABLE FOLIATION.
R 25600 256200LARGE IRREGULAR QTZ-CB BLEB WITH CHL MICROVEINS MINOR PY ASSOC
R WITH CHL. CHL GENERALLY RIMMING OUTSIDE EDGES AND SMALL
R MICROVEINS WITHN, CB AS ANGULAR BLEBS.

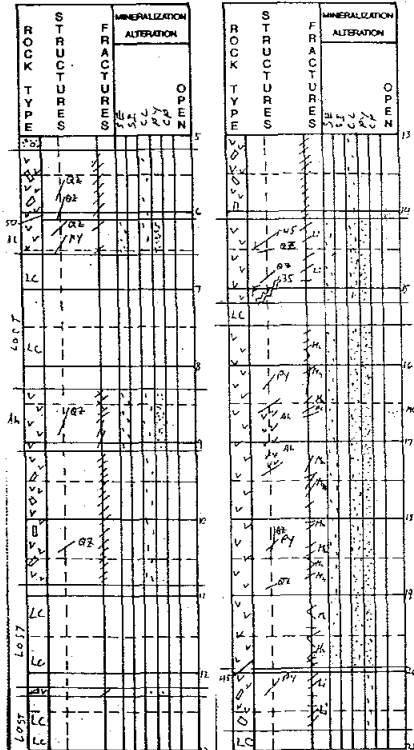
The A005 assay sets are selected
composites based on copper grades
and geology

	From	To	Length	Cu %	Au g/t
A005	3.65	21.30	17.65	.563	.473
A005	21.30	78.00	56.70	.362	.234
A005	78.00	105.00	27.00	.150	.109
A005	105.00	137.50	32.50	.077	.128
A005	137.50	149.00	11.50	.684	.306
A005	149.00	172.70	23.70	.853	.665
A005	172.70	188.70	16.00	.487	.119
A005	188.70	212.40	23.70	1.184	.501
A005	212.40	226.80	14.40	.569	.308
A005	226.80	252.00	25.20	.307	.366
A005	252.00	256.30	4.30	.151	.160
/END					

IDEN6B0201 KERR KS-068BQWL06AUG90WKH JTTAUG90600 GRD 0.00
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 S000 000 4900MT 198.10090.00-70.00 9515.00 9518.00 1683.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0

GRAPHIC LOG

GRAPHIC LOG



L SCL PC.0 LCTH
 S001 4900 14800 198.10077.00-52.00
 S002 14800 19810 198.10077.50-49.50
 A003
 ALUMM MAG
 P 000 520 OVBD
 L
 P 520 1410 BK7PHPP Q(
 L
 R

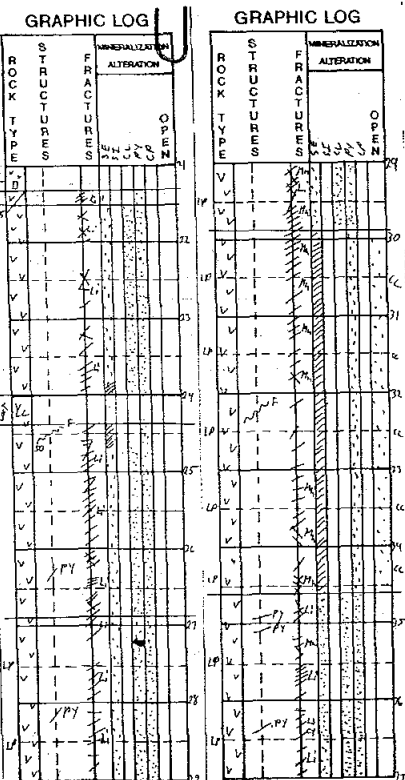
CRYSTAL TUFF UNIT MADE UP OF FELDSPAR (50%), QTZ (35%), MAFICS (15%), AND MINOR DEVITRIFIED GLASS SHARDS. UNIT IS A VERY LIGHT GREEN COLOUR AND IS FINE GRAINED. THE QTZ GRAINS ARE SLIGHTLY LARGER THAN THE OTHER COMPONENTS (EXCEPT THE GLASS). MASSIVE. ABUNDANT LI/JA STAINING ALONG FRACTURES. IN PLACES THE FRACTURES HAVE MANGANITE STAINING. OCCASIONAL QTZ VEINS WHICH ARE VERY VUGGY DUE TO DISSOLUTION OF CHLORITE AND/OR SULPHIDES. VUGS ARE VERY LIMONITE COATED. CHLORITE PATCHES ASSOCIATED WITH THE QTZ VEINS.

D 520 610 95 X 100
 L 15R3 52 452
 N 610 910 42PYXTFAH 110 P1 P+ D= <1
 L 22R2 91 341 <+
 R VERY FINE GRAINED ASH TUFF, DARK GREY IN COLOUR. MODEL COMPOSITION UNDETERMINED. SLIGHT DARK GREENISH COLOUR ALONG FRESHLY BROKEN SURFACES SUGGESTING MINOR CHLORITE ALTERATION (2-3%) MINOR SERICITIC ALTERATION. PY OCCURS AS VEINLIKE MASSES AND DISSEMINATED CRYSTALS. MASSIVE. MANGANESE ALTERATION ALONG FRACTURES. CORE WAS LOST FROM 6.55 TO 8.30 M.

D 910 1410 58 X 010
 L OR3 122 452
 N 1080 1220 XMCOR
 L
 N 1230 1300 XMCOR
 L
 P 1410 2690 F39TUFF P= P1 D1 <
 L <<

TUFF UNIT WITH MAJOR ZONES OF LAPILLI FRAGMENTS AND ISOLATED BEDS OF ASH TUFF. CONTACTS BETWEEN THE THREE FORMS OF TUFF ARE GRADATIONAL. THE UNIT IS DARK GREY TO LIGHT-MEDIUM GREEN

	From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Ag ppm	Pb ppm	Zn ppm
					(dupl)	(dupl)			
A001	5.20	6.10	57616	.032		.040	0.3	12	45
A001	6.10	9.10	57617	.157		.110	0.7	10	68
A001	9.10	14.10	57618	.042		.060	0.2	8	95



R (PRIMARYLY THE LAPILLI TUFF ZONES). GRAIN SIZE IS FINE AND
 R PREDOMINANTLY EQUIGRANULAR. MINOR, PERVASIVE SERICITIC
 R ALTERATION OCCURS THROUGHOUT THE UNIT. FOLIATION WEAK AT 45
 R DEGREES. MANGANESE STAINING OCCURS ON MOST FRACTURES WHILE LI/JA
 R STAINING OCCURS ON A FEW. UNIT IS COMPOSED OF FELDSPAR, QTZ,
 R AND VERY MINOR MAFICS PY OCCURS AS DISSEMINATED CRYSTALS AND
 R BLEBS WHICH CAN BE ALIGNED TO FORM VEINLETS.

N 1520 1550 XMCOR
 L
 R SMALL FAULT WITH CLAY/LIMONITE GOUGE FROM 25.05 TO 15.15
 R FAULT TRENDS AT 3.5. FROM 16.55 TO 17.40 IS A BED OF ASH TUFF
 R CONFORMABLE WITH THE UNIT.

D 1410 1710 90 X 111
 L 60R2 152 131
 R VERY MINOR MALACHITE ALONG A FRACTURE AT 16.65.
 D 1710 2000 98 X 110
 L 39R2 183 131
 N 2000 2150 57 XPHPP 010
 L OR3 213 031
 R LIGHT GREY UNIT WITH FINE-MEDIUM GRAINED CRYSTALS OF QTZ AND
 R F-SPAR OF UNDETERMINED AMOUNTS. MASSIVE. ALL FRACTURES HAVE
 R INTENSIVE LIMONITE STAINING LOST CORE FROM 20.75 TO 21.30.
 R VERY MINOR PY AS TINY DISSEMINATED CRYSTALS.

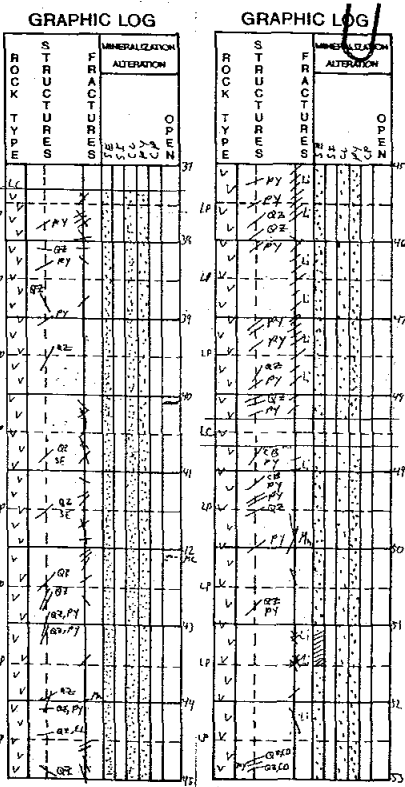
A001	14.10	17.10	57619	.280	.550	1.7	13	83
A001	17.10	20.00	57620	.225	.150	0.9	12	76
A001	20.00	21.50	57621	.091	.100	0.7	10	40
A001	21.50	24.50	57622	.148	.090	0.7	18	122
A001	24.50	26.90	57623	.080	.060	0.3	6	85
A001	26.90	29.90	57624	.143	.050	0.3	8	114
A001	29.90	32.50	57625	.095	.060	0.4	5	30
A001	32.50	34.60	57626	.053	.060	0.4	7	58

R ZONE OF FRAGMENTS(VERY ANGULAR) FROM 22.00 TO 22.70. CONFORMABLE
 N 2400 2440 XMCOR
 R SMALL FAULT AT 24.40 AT 50 DEGREES WITH A SETICITIC ALTERATION
 R ENVELOPE EXTENDING FOR 65 CM UPHOLE AND 15 CM DOWNHOLE.

D 2150 2450 87 X 000
 L 50R2 244 131
 D 2450 2690 98 X 010
 L 17R2 131

P 2690 6400 AL9TFLP P1 P1 D1 <> LI
 L <<< <>< C*
 R TUFF UNIT IN WHICH LAPILLI CLASTS MAKE UP MORE THAN 50% OF UNIT
 R CLASTS RANGE FROM 4 MM TO 6 CM IN SIZE AND ASH TUFF TO TUFF IN
 R COMPOSITION. ABUNDANT CHLORITE ALTERATION THROUGHOUT. PY OCCURS
 R AS DISSEMINATED CRYSTALS THROUGHOUT AND AS MICROVEINLETS AND IS
 R CONCENTRATED IN OCCASIONAL CLASTS. UNIT IS SLIGHTLY VUGGY AT THE
 R TOP OF THE UNIT DUE TO DISSOLUTION OF SULPHIDES AND CHLORITE.
 R THE MAJORITY OF THE QTZ VEINS ARE VERY VUGGY DUE TO DISSOLUTION.

D 2690 2990 98 X 010
 L 18R2 274 131
 N 2990 3460 96SEXTFLP 000 P4 D1 CC
 L 36R2 305 131 D=
 R ZONE OF THE LAPILLI TUFF WHICH HAS UNDERGONE INTENSE SERICITIC



R ALTERATION. INTENSIVE LIMONITE/ JAROSITE FROM 29.90 TO 30.60
R AND ALONG FRACTURES. MOST FRACTURES ARE ALSO MAGANITE STAINED.
R SMALL FAULT AT 32.20 OF UNDETERMINED TREND. PY OCCURS AS
R DISSEMINATED CRYSTALS THROUGHOUT. A BLACK MINERAL, INTERPRETED
R TO BE CHALCOCITE OCCURS AS TINY DISSEMINATED CRYSTALS THROUGHOUT
R THE ZONE.

D 3460 3760 80 X 011
L 38R2 366 131
N 3700 3730 XMCOR

R ZONE OF INTENSIVE LIMONITE STAINING AT 40.10
D 4060 4360 100 X 110
L R2 427 121

R MALACHITE STAINING ON FRACTURES AND IN VUGS AT 42.10
D 4360 4660 98 X 121
L 37R2 457 121
D 4660 4960 90 X 120
L 42R2 488 031
N 4830 4870 XMCOR

L 4960 5260 96 X 010
L 48 R2 518 120

R FROM 51.15 TO 51.50 IS A ZONE OF INTENSE SERICITE ALTERATION.
N 5335 5375 XMCOR

R ZONE FROM 53.75 TO 54.90 HAS MODERATE SERICITE ALTERATION.
D 5260 5560 85 X 020
L 25R2 549 041
D 5560 5860 98 X 101
L 20R2 579 131

R FROM APPROXIMATELY 58.00 TO 64.00 THE AMOUNT OF LAPILLI CASTS
R SLOWLY DECREASES SO THAT OVER THIS LENGTH THE CLASTS MAKE UP
R 20-25% OF THE UNIT.

R ZONE FROM 62.00 TO 62.10 IS VERY ALTERED
D 5860 6160 100 X 011
L 50R2 610 131
D 6160 6400 98 X 021
L 58R2 640 121

P 6400 7175 ALBTUFF P1 P+ D1 B) FU
L (<) (<) 0*

R TUFF UNIT COMPOSED OF FINE GRAINED QTZ (30%) AND F-SPAR (40%).
R MINOR SERICITE (10%) AND CHLORITE ALTERATION (2-3%). PY OCCURS
R AS TINY DISSEMINATED CRYSTALS AND OCASIONAL BLEBS. LIGHT GREY
R IN COLOUR. WEAK FOLIATION AT 40.0. MINOR FUCHSITE SEEN.
D 6400 6600 100 X 120

A001	34.60	37.60	57627	.106	.100	0.7	9	53	
A001	37.60	40.60	57628	.135	.120	1.3	12	68	
A001	40.60	43.60	57629	.336	0.3280	.160	1.8	9	80
A001	43.60	46.60	57630	.267	.150	1.4	10	112	
A001	46.60	49.60	57631	.216	.400	2.6	11	44	
A001	49.60	52.60	57632	.187	.520	3.2	10	65	
A001	52.60	55.60	57633	.118	.710	2.6	3	43	
A001	55.60	58.60	57634	.140	.470	1.1	4	83	
A001	58.60	61.60	57635	.060	.150	0.5	1	54	
A001	61.60	64.00	57636	.068	.120	0.4	2	40	

L 64R3 610 111
 D 6600 6785 100 X 120
 L 64R3 671 011
 N 6785 6930 100ALXTFLP 010 P1 O+ D1 B) LI
 L 78R2 021 <- <- C(
 R SAME TYPE OF UNIT AS THE "PM" UNIT EXCEPT FOR THE INTRODUCTION
 R OF LAPILLI CLASTS. CLASTS ARE SUB ROUNDED AND PRIMARILY FELSIC.
 R LIMONITE + OCCASIONAL MANGANITE STAINING ALONG FRACTURES.
 D 6930 7175 98 X 110
 L 49R2 701 111
 R 7165 7175ZONE IS "BLEACHED" AND HAS ABUNDANT MANGANITE STAINING.
 P 7175 8115 DCXTUFF Q+ H+ D1 <+
 L V+ <)<)
 R FINE GRAINED UNIT WITH A GREYISH GREEN COLOUR, MASSIVE.
 R COMPONENTS INCLUDE QTZ (30%), F-SPAR (40%) AND MAFICS (15%).
 R SMALL, DARK GREEN PHENOCRYSTS ARE SCATTERED THROUGHOUT THE UNIT
 R (POSSIBLY DEVITRIFIED GLASS?). PY OCCURS AS DISSEMINATED
 R CRYSTALS THROUGHOUT AND AS MICROVEINLETS. MOST FRACTURES IN THE
 R TOP HALF OF THE UNIT ARE LI/JA STAINED. THIS IS PROBABLY AN
 R UNALTERED VERSION OF THE TUFF IN THIS AREA.
 R VERY MINOR SERICITIZATION IN THE TOP 50 CM OF THE UNIT.
 R SMALL FAULT OF UNDETERMINED TREND AT 75.05. A SERICITE/LIMONITE/
 R JAROSITE ALTERATION ENVELOPE EXTENDS FOR 20 CM ON BOTH SIDES OF
 R THE FAULT.
 N 7175 7210 XMCOR
 L
 D 7175 7475 88 X 010
 L 3R3 732 132
 D 7475 7775 100 X 020
 L 33R3 762 031
 D 7775 8115 100 X 030
 L R3 792 110
 R MINOR ANKERITE SEEN AT 80.00
 P 8115 19810 SE9TUFF P2Q)P= D1 B-<+ fu
 L <+ <)<)< O(
 R TUFF UNIT WITH MODERATE SERICITIC AND MINOR CHLORITIC ALTERATION
 R LIGHT GREY TO SLIGHTLY GREENISH GREY. FINE GRAINED QTZ (30%) AND
 R F-SPAR (30%) WITH VERY MINOR PHENOCRYSTS OF MAFICS (NOW TOTALLY
 R ALTERED TO CHLORITE). PY OCCURS AS DISSEMINATED CRYSTALS,
 R MICROVEINLETS AND ISOLATED BLEBS POSSESSING CHLORITE ENVELOPES.
 R FOLIATION WEAK AT 45 DEGREES. FUSCHITE OCCASIONALLY SEEN.
 R 8285 8300ZONE OF SILICIFICATION.
 N 8140 8170 XMCOR
 L
 D 8115 8415 90 X 020

A001	64.00	66.00	57637	.063	.200	0.5	6	68
A001	66.00	67.85	57638	.029	.040	0.2	5	80
A001	67.85	69.30	57639	.066	.060	0.2	12	61
A001	69.30	71.75	57640	.061	.110	0.4	9	60
A001	71.75	74.75	57641	.099	.070	0.2	15	80
A001	74.75	77.75	57642	.061	.050	0.1	12	95
A001	77.75	81.15	57643	.039	.120	0.2	4	105

GRAPHIC LOG

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ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION					
		SE	SI	CL	PY	CP	OPEN
V	CB						53
V							54
V	OZ						55
V							56
V	OZ, PY						57
V							58
V	CB						59
V							60
V							61

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION					
		SE	SI	CL	PY	CP	OPEN
V	PY						61
V							62
V	CB						63
V	OZ, PY						64
V							65
V	OZ, PY						66
V							67
V	CB						68
V							69

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION					
		SE	SI	CL	PY	CP	OPEN
LP	OZ						69
LP							70
V							71
V	OZ						72
V							73
V							74
V							75
V							76
V							77

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION					
		SE	SI	CL	PY	CP	OPEN
V	OZ, PY						77
V							78
V	CB						79
V							80
V	OZ, PY						81
V							82
V	OZ, PY						83
V							84
V	OZ, PY						85

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION					
		SE	SI	CL	PY	CP	OPEN
V	PY						85
V							86
V							87
V							88
V	OZ, PY						89
V							90
V	OZ, PY						91
V							92
V							93
V							94
V							95
V							96
V							97
V							98
V							99
V							100
V							101

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION					
		SE	SI	CL	PY	CP	OPEN
V							93
V							94
V	CB						95
V							96
V	OZ, CB						97
V							98
V	OZ, CB						99
V							100
V							101

L 40R3 823 031
 R 8550 8605AMYGDALOIDAL ANDESITE DYKE. MASSIVE. VERY MAGNETIC AVERAGING
 R 16000 OVER THE INTERVAL.
 R SMALL FAULT WITH A 50 DEGREES TREND AT 86.15
 R FAULT TRENDING AT 50 DEGREES AT 86.60
 R SMALL FAULT WITH GOUGE, TRENDING 60 DEGREES AT 86.75

D 8415 8715 92 X 121
 L 33R3 853 130
 D 8715 9015 98 X 121
 L 33R3 884 131
 R 9000 9110ZONE IS VERY ALTERED AND BLOCKY
 N 9230 9250 XMCOR

L 9285 9310ZONE OF SICIFICATION AND PYRITE BLEBS.
 R MOST VEINLETS ARE QTZ WITH INTERSTITIAL CARBONATE ALTHOUGH SOME
 R PURE CARBONATE VEINS DO OCCUR.

D 9015 9315 90 X 000
 L 10R3 914 041
 D 9315 9610 98 X 120
 L 27R3 945 031
 N 9610 9680 XMCOR
 L 9610 9910 75 X 021
 L 32R3 975 031
 N 9950 9985 XMCOR

R 10135 10275ZONE IS INTENSELY SERICITIZED AND BLOCKY

D 9910 10210 86 X 021
 L 32R2 1006 131
 D 10210 10510 98 X 011
 L 9R3 1036 141
 D 10510 10810 100 X 031
 L R3 1067 020

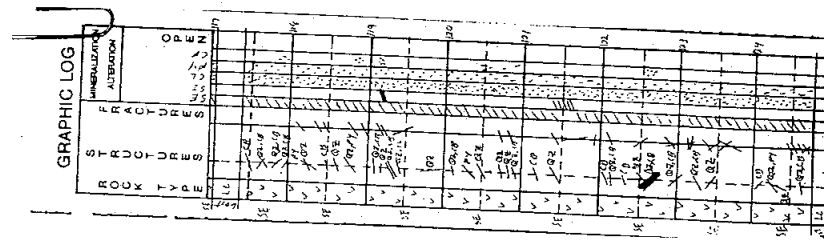
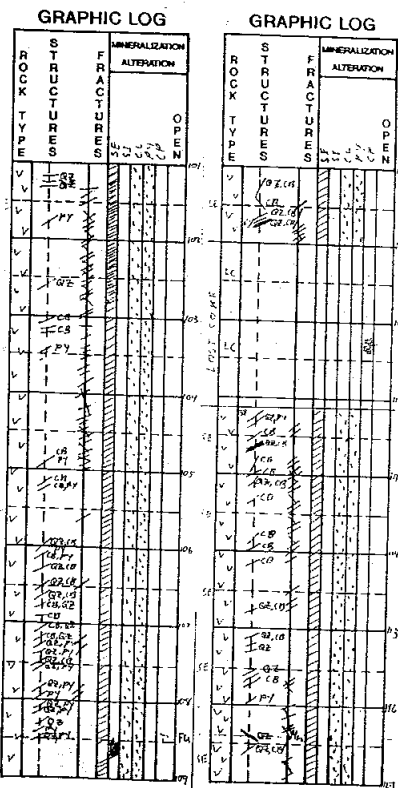
R 10850 10870ZONE OF SILICIFICATION
 D 10810 11215 47 X 120
 L 27R3 1097 110
 N 11000 11215 XMCOR

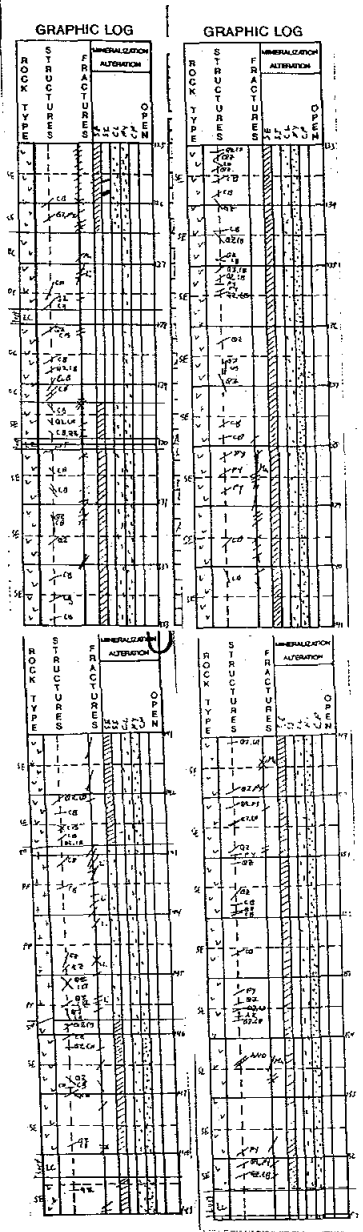
L 11215 11515 98 X 130
 L 20R3 1128 030

R 11400 11500FELSIC LAPILLI CLASTS WITHIN THIS ZONE.
 R FROM ABOUT 117.00 DOWNWARD, THE CHLORITE CONTENT INCREASES TO
 R 15-20%

R SMALL CP BLEBS SEEN OCCASIONALLY. USUALLY ASSOCIATED WITH QTZ VE
 D 11515 11815 88 X 031

A001	81.15	84.15	57644	.037	.050	0.1	4	114
A001	84.15	87.15	57645	.078	.140	0.4	6	87
A001	87.15	90.15	57646	.083	.180	0.3	5	82
A001	90.15	93.15	57647	.094	.080	0.2	22	96
A001	93.15	96.10	57648	.053	.050	0.1	6	84
A001	96.10	99.10	57649	.064	.080	0.1	6	64
A001	99.10	102.10	57650	.059	.080	0.2	10	60
A001	102.10	105.10	57651	.082	.060	0.1	10	60
A001	105.10	108.10	57652	.105	.140	0.3	3	40
A001	108.10	112.15	57653	.147	.200	0.8	2	68
A001	112.15	115.15	57654	.094	.190	0.7	3	112





L 53R3 1158 120
 N 11705 11740 XMCOR
 L
 D 11815 12115 100 X 121
 L 82R3 1189 120
 D 12115 12415 100 X 021
 L 72R3 1219 121
 R 12140 12160 ZONE OF MODERATE SILICIFICATION.
 N 12480 12500 XMCOR
 L
 R FROM ABOUT 125.00 AND DOWN, THE CHLORITE CONTENT DROPS OFF TO
 R ABOUT 5-10%
 D 12415 12650 91 X 111
 L 9R3 1250 030
 N 12650 12930 95DCXTUFF 120 L* D= B-
 L 61R3 1280 111 < <
 R DACITIC TUFF COMPOSED OF QTZ (30%), F-SPAR (40%), MAFICS (15%)
 R AND DEVITRIFIED GLASS SHARDS. THE UNIT IS FINE GRAINED AND A
 R LIGHT GREENISH GREY. THE GLASS SHARDS ARE A LITTLE LARGER THAN
 R THE MATRIX (4 MM). OCCASIONAL QTZ EYES OCCUR THROUGHOUT THE UNIT
 R (UP TO 6 MM IN SIZE). PY OCCURS AS VERY SMALL DISSEMINATED
 R CRYSTALS AND OCCASIONAL BLEBS NEAR QTZ VEINS. COMPETENT.
 R MASSIVE. LOST CORE OCCURS FROM 127.75 TO 128.00.
 N 12990 13010 XMCOR
 L
 R SMALL FAULT WITH GOUGE AT 130.10
 D 12930 13230 93 X 121
 L 57R3 1131 122
 D 13230 13530 100 X 021
 L 100R3 1341 000
 D 13530 13830 100 X 111
 L 90R3 1372 110
 D 13830 14020 100 X 110
 L 10R3 1402 131
 D 14020 14280 100 X 011
 L 61R3 110
 N 14280 14575 100 XLAPP 111 P= H= D-
 L 54R3 1433 121 P+ <
 R HORNEBLLENDE PHENOCRYSTS (UP TO 4 MM) SET IN A FINE GRAINED
 R MATRIX OF QTZ, F-SPAR AND MAFICS. PHENOCRYSTS MAKE UP 10%
 R OF THE UNIT. MODAL COMPOSITION IS QTZ (40%), F-SPAR (40%)
 R MAFICS (20%). MOST OF THE HB HAS BEEN ALTERED TO CL. MINOR
 R SERICITE ALTERATION. UNIT IS A LIGHT GREENISH GREY. COMPETENT.
 R MASSIVE. TENDS TO FRACTURE AT 45 DEGREES TO CORE AXIS. VERY
 R MINOR PY DISSEMINATED CRYSTALS. MAGNETIC WITH A 3670 READING

A001	115.15	118.15	57655	.158	.080	0.2	15	73
A001	118.15	121.15	57656	.432	0.4220	.180	0.6	10 60
A001	121.15	124.15	57657	.313	.110	.180	0.4	10 78
A001	124.15	126.50	57658	.242	.180	.147	0.4	9 69
A001	126.50	129.30	57659	.147	.070	.138	0.2	7 65
A001	129.30	132.30	57660	.138	.120	.095	0.3	84 130
A001	132.30	135.30	57661	.095	.070	.048	0.1	13 82
A001	135.30	138.30	57662	.048	.310	.079	0.5	43 273
A001	138.30	140.20	57663	.079	.030	.030	0.1	10 73
A001	140.20	142.80	57664	.030	.010	.030	0.1	7 55
A001	142.80	145.75	57665	.007	.010	.010	0.1	14 102

R OVER THE INTERVAL. UNIT SLIGHTLY CALCAREOUS THROUGHOUT.
 R FROM 147.75 ON, THE TUFF UNIT HAS OCCASIONAL LAPILLI CLAST
 R WHICH IN LIMITED AREAS BECOME ABUNDANT. PY HAS BECOME MORE
 R ABUNDANT THAN PREVIOUSLY OBSERVED AND BLEBBY MASSES OF PY
 R (ESPECIALLY IN AND NEAR LAPILLI CLASTS) BECOME SIGNIFICANT.

D 14575 14875 87 X 011
 L 62R3 1463 111

N 14800 14840 XMCOR

L
 D 14875 15175 100 X 111
 L 82R3 1494 021

D 15175 15474 100 X 012
 L 92R3 1524 110

R 15100 15200 ZONE OF ABUNDANT LAPILLI CLASTS
 R 15450 15550 ZONE OF ABUNDANT LAPILLI CLASTS

N 15655 15690 XMCOR
 D 15475 15775 88 X 010

L 83R3 1554 110
 D 15775 16075 100 X 010

L 98R3 1585 100
 D 16075 16390 92 X 111

L 87R3 1615 110
 R 15950 16000 ZONE OF ABUNDANT LAPILLI CLASTS

R 16170 16225 ZONE OF ABUNDANT LAPILLI CLASTS
 R 16460 16580 ZONE OF ABUNDANT LAPILLI CLASTS

N 16365 16390 XMCOR
 D 16390 16690 100 X 011

L 67R3 1646 130
 D 16690 16990 100 X 120

L 93 R3 1676 021
 D 16990 17290 87 X

L 42R3 1707
 R 17100 17110 QTZ/CARBONATE VEIN IN WHICH PY MAKES UP 50% OF THE VEIN.

N 17180 17220 XMCOR
 L

R FAULT OCCURRING AT THE TOP OF THE UNIT
 R FROM 172.20 DOWN, THE CHLORITE INCREASES TO 10-15%
 D 17290 17590 92 X 020

L 50R3 1737 130
 N 17435 17460 XMCOR

L
 R CHLORITE CONTENT DECREASES AFTER THIS ZONE TO 5-10%
 D 17590 17890 100 X 122

L 77R3 1768 120
 N 18190 18230 XMCOR

A001 145.75 148.75 57666	.160	.060	0.3	15	56
A001 148.75 151.75 57667	.116	.040	0.2	7	57
A001 151.75 154.75 57668	.029	.040	0.1	4	47
A001 154.75 157.75 57669	.113	.070	0.1	14	83
A001 157.75 160.75 57670	.024	.070	0.1	6	39
A001 160.75 163.90 57671	.021	.040	0.1	6	43
A001 163.90 166.90 57672	.096	.060	0.1	8	48
A001 166.90 169.90 57673	.332	.130	0.3	6	48
A001 169.90 172.90 57674	.436	.290	0.6	9	87
A001 172.90 175.90 57675	.324	.230	0.5	17	186
A001 175.90 178.90 57676	.247	.170	0.2	7	63
A001 178.90 181.90 57677	.324	.170	0.2	7	87

L				
D	17890	18190	98 X	121
L			68R3 1798	031
D	18190	18490	87 X	031
L			67R3 1829	030
D	18490	18790	100 X	121
L			88R3 1859	010
R	18620	18645	ZONE OF SILICIFICATION	
R	18670	18720	ZONE OF SILICIFICATION	
D	18790	19090	100 X	131
L			95R3 1890	010
D	19090	19390	100 X	031
L			98R3 1920	010
D	19390	19600	100 X	121
L			93R3 1951	020
D	19600	19810	100 X	111
L			100R3 1981	010

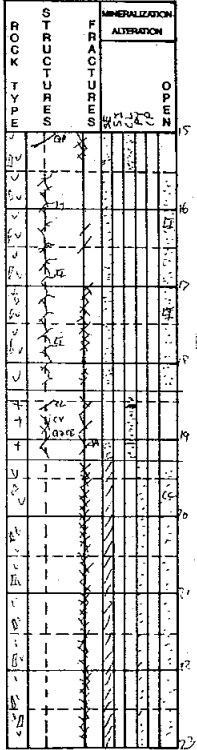
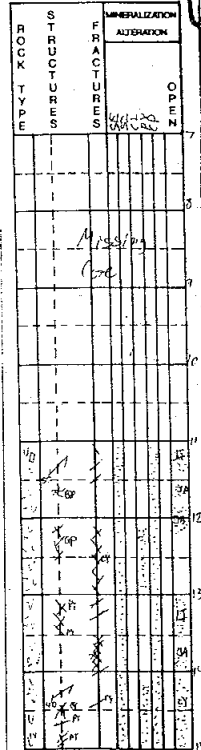
A001	181.90	184.90	57678	.181	.170	0.2	8	70
A001	184.90	187.90	57679	.147	.110	0.2	4	56
A001	187.90	190.90	57680	.185	.110	0.3	5	70
A001	190.90	193.90	57681	.174	.110	0.2	4	100
A001	193.90	196.00	57682	.090	.090	0.2	9	107
A001	196.00	198.10	57683	.260	.090	0.2	4	60

The A005 assay sets are selected
composites based on copper grades
and geology

	From	To	Length	Cu %	Au g/t
A005	5.20	14.10	8.90	.080	.075
A005	14.10	58.60	44.50	.170	.247
A005	58.60	105.10	46.50	.065	.097
A005	105.10	132.30	27.20	.195	.143
A005	132.30	166.90	34.60	.068	.069
A005	166.90	181.90	15.00	.333	.198
A005	181.90	198.10	16.20	.173	.116
/END					

GRAPHIC LOG

GRAPHIC LOG



IDEN680201 KERR KS-069BQWL08AUG90DJB JTTAUG90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 5000MT 198.10090.00-60.00 9394.00 9932.00 1492.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM

S001 5000 15000 198.10 87.00-60.50
 S002 15000 19810 198.10 87.00-62.00

A003
 ALUMM MAG
 P 000 820 00 CSNG
 L

R NO CORE RECOVERED.
 P 820 1100 00 MCOR
 L

R NO CORE RECOVERED.
 P 1100 1830 OXXTFXL P1 P2 D= <= JALI
 L <> C)E+

R WEATHERED, OXIDIZED, SOFT, FRACTURED AND WEAKLY FOLIATED,
 R CRYSTAL TUFF, COLOUR VARIES FROM CREAM WITH A RUSTY BROWN
 R STOCKWORK TO A MOTTLED LIGHT GREEN. PYRITE BOXWORK IS ALL THAT
 R REMAINS FROM PYRITE VEINS IN SERICITE, ALTERED SECTIONS OF UNIT
 R CHLORITE-SERICITE SECTIONS ARE LESS ALTERED, BUT HAVE CLAY ON
 R FRACTURE SURFACES, PYRITE IS DISSEMINATED ASS 0.5 CUBES IN TUFF
 R AND IN QTZ VEINS.

D 1100 1400 89 X 2223
 L 39R2 122 6667
 D 1400 1830 72 X 2224
 L 30R2 152 3334

P 1830 1927 100CLXAPP 3334 P1 P2 HEJA
 L 31R3 6667 <. V) V) V7C)

R FINE GRAINED, DARK GREEN, MOTLED, FRACTURED WITH YELLOW CLAY
 R INFILLING ANDESITE DYKE, NON-FOLIATED, BUT WITH UP TO 2 CM
 R THICK, VUGGY CHLORITE VEINS, CALCITE HAS LEACHED OUT OF PRIMARY
 R QTZ VEINS WHICH ARE CROSSCUT BY CHLORITE. SPECULAR HEMATITE
 R < 1% OCCURS IN CHLORITE VEINS. WHITE CLAY ON FRACTURE SURFACES.
 R WEAK BLEACHING OF LOWER CONTACT OF DYKE.

P 1927 5930 SEXTFXL P2 P1 D+ <> CC
 L C) <>

R HIGHLY FRACTURED- NOT CORNFLAKE, SOFT, SSERICITE AND CHLORITE
 R ALTERED CRYSTAL TUFF, COARSER GRAINED THAN ABOVE SECTION. LOW
 R CORE RECOVERY, RECOVERED CORE IS QUITE COMPETENT H=3. SERICITE
 R ALTERATION INCREASES DOWN THE SECTION. PYRITE CUBES ARE
 R DISSEMINATED 2.5%. FEW PYRITE VEINLETS WITH CHLORITE SELVAGES.

	From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Ag ppm	Pb ppm	Zn ppm
				(dupl)					
A001	11.00	14.00	56573	.218		.170			
A001	14.00	18.30	56574	.247		.110			
A001	18.30	19.27	56575	.226		.020			

R WHITE CLAY ON FRACTURE SURFACES -1% TRACE CHALCOCITE AS COATINGS
 R ON PYRITE. THE INTERVAL MAY HAVE SECTIONS OF PLAGIOCLASE-
 R HORNBLENDE PORPHYRY (PREMIER) IN IT.

D 1927 2400 07 X P3
 L 00R2 XXXX
 D 2400 2900 49 X 2223 P3

R BETWEEN 27.8 AND 29.0 M THE CORE IS MORE COMPETENT

D 2900 3400 88 X 2223
 L 00R2 335 XXXX
 D 3400 3900 74 X 2223 P3 P=
 L 00R2 366 XXXX
 D 3900 4400 58 X 2223 P3 P)

R MARK 42.7
 D 4400 4900 45 X 2223 P3 P)
 L 00R2 488 XXXX

R MARK 457
 D 4900 5200 100 X 2233 P3 P= <
 L 20R2 518 1166

D 5200 5500 87 X P3 P. D1
 L 00R2 549 XXXX

R MODERATE FOLIATION 60 DEGREES C.A.
 D 5500 5930 72 X D1 <)<< CU

L 00R2 579 C.
 R MILKY WHITE EXTENSION VEIN -QTZ-CB-PY-20%, CP 1% WITH CC
 R COATINGS 2.5% IS 10 CM THICK AT ~56.2 M. NATIVE COPPER OCCURS
 R AS CRYSTALS ON FRACTURE SURFACES AT ~59.0 M.

P 5930 6620 KRBNPP P+ P= D)BI
 L <= P2

R LIGHT PURPLE GROUNDMASS WITH WHITE FELDSPAR PHENOCRYSTS 1-3 MM
 R IN SIZE, MODERATELY HARD H=4, WEAKLY FOLIATED ON VEIN SELVAGES.
 R HIGHLY FRACTURED BUT WITH CALCITE INFILLING WHICH RESULTS IN A
 R RUBBLY ROCK ONCE IT HAS DISSOLVED- SEE ABOVE UNIT (19.27-59.7 M)
 R THE FELDSPAR PORPHYRY IS MIXED WITH LENSES OF CRYSTAL TUFF WHICH
 R HAS BEEN CHLORITE ALTERED. THE PORPHYRY HAS A PURPLE GROUNDMASS
 R DUE TO SECONDARY BIOTITE-IE: IT HAS BEEN HORNFELS. CROSSCUTTING
 R CALCITE VEINS HAVE NONE TO TRACE CHLORITE ALTERATION ENVELOPES.
 R PYRITE IS DISSEMINATED- 1%. CONTACTS BETWEEN THE LAPP AND TFXL
 R ARE WELDED AND INDISTINCT.

D 5930 6200 100 X 6667
 L 91R3 610 0111
 D 6200 6620 100 X 5556
 L 79R4 640 1111
 P 6620 7010 100KRXTUFF 4445 P= B)BI <
 L 65R4 671 1144 V= P1 V=

R MOTTLED PATCHES OF LIGHT GREEN, PURPLE AND BLACK. MODERATELY

A001	19.27	27.40	56576	.508	0.4920	.090
A001	27.40	30.50	56577	.448		.120
A001	30.50	33.50	56578	.347		.070
A001	33.50	36.60	56579	.604		.170
A001	36.60	42.70	56580	.668		.180
A001	42.70	49.00	56581	.508		.100
A001	49.00	52.00	56582	.508		.220
A001	52.00	55.00	56583	.472		.120
A001	55.00	59.30	56584	.584		.820
A001	59.30	62.00	56585	.044		.080
A001	62.00	64.00	56586	.017		.090
A001	64.00	66.20	56587	.022		.030
A001	66.20	68.20	56588	.040		.020
A001	68.20	70.10	56589	.048		.030

GRAPHIC LOG

BLOCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION		OPEN
			MINERALIZATION	ALTERATION	
1	100CLXTUFF	2223	1101	<+	<+
2	7370 7527 100 XANDY	1111	P2	PO	
3	7527 7860 100KRXXTUFF	3334	P1 B)BI	PO	
4	7930 8143 100KRXANPP	2223	P= P= B1	PO	

R HARD, BRITTLE HORNFELS TUFF. TUFF IS FINE GRAINED, UNIFORM
 R EXCEPT AT BOTTOM (69.9-70.1 M) WHERE IT IS A CRYSTAL TUFF. THE
 R UNIT IS CROSSCUT BY QTZ-CARBONATE MICROVEINS. VEINS PARALLEL TO
 R CORE AXIS OFFSET ALL OTHERS. IN GREEN PATCHES, VEINS HAVE
 R CHLORITE SELVAGES. PYRITE IS DISSEMINATED AS BLEBS (2MM) 1X
 R TRACE CP IN QTZ-CB VEINS. CRACKLE BRECCIA UNIT.

P 7010 7370 100CLXTUFF 2223 P=P)P= B)
 L 1101 <+ <+
 R SAME AS (59.30-66.20 M) LESS SECONDARY BIOTITE, MORE CHLORITE
 R AND SERICITE, SOME SECTIONS SEEM TO BE SLICIFIED. LAPP SECTIONS
 R ARE THINNER, BUT WITH HORNBLLENDE PHENOCRYSTS 0.2-1.0 MM-1%.
 R LESS CROSSCUTTING QTZ-CB VEINS.

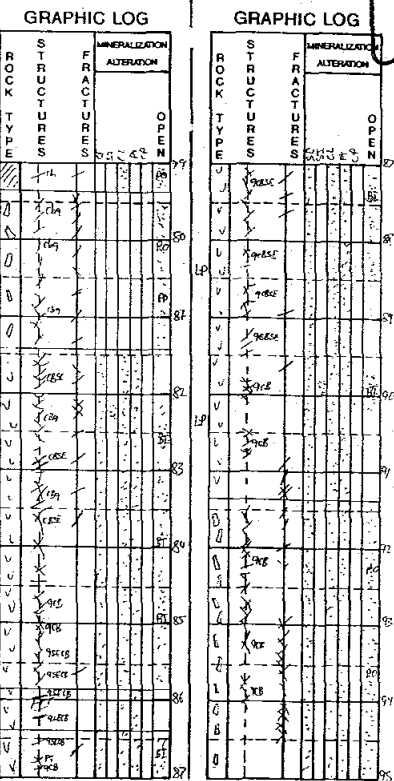
P 7370 7527 100 XANDY 1111 P2 PO
 L 83R4 1111 < > B+
 R DARK GREEN, WEAKLY MAGNETIC, AMYGDALOIDAL ANDESITE DYKE.
 R VESICLES ARE PARALLEL TO THE FLOW BANDING AND CHILL CONTACT
 R WITH THE HOST. GROUNDMASS IS FINE GRAINED MAFIC MINERALS AND
 R FELDSPAR 0.1 MM, PYRRHOTITE OCCURS DISSEMINATED ON BLEBS 2.5%
 R WITH CHLORITE RIMS. POSSIBLE AMYGDULES. AMYGDULES UP TO 15MM
 R ARE FILLED WITH CALCITE. QTZ-CALCITE VEINS CROSSCUT UNIT.
 R CONTACT WITH HOST ROCK -TUFF- IS OFFSET BY CROSSCUTTING
 R CARBONATE VEINS. MAGNETIC SUSCEPTIBILITY UP TO 600X10 TO THE -5
 R POWER SI

A001	70.10	73.70	56590	.026	.020
A001	73.70	75.27	56591	.004	.030
A001	75.27	78.60	56592	.021	.150
A001	78.60	81.43	56593	.009	.050

P 7527 7860 100KRXXTUFF 3334 P1 B)BI PO
 L 60R4 762 1244 <= P1 <= B=
 R LIGHT GREEN WITH PURPLE PATCHES, CRACKLE BRECCIA AT TOP, HARD
 R H=4, FINE GRAINED, 20 CM SECTION WITH ANGULAR FRAGMENTS AT
 R BOTTOM. ONE FRAGMENT HAS A LIGHT PINK MATRIX WITH HORNBLLENDE
 R PHENOCRYSTS 30%. PYRITE AND PYRRHOTITE ARE DISSEMINATED AS BLEBS
 R 1% AT TOP AND PYRRHOTITE ONLY 5% AT BOTTOM. UNIT IS CROSSCUT BY
 R BY CALCITE FILLED VEINS. MAGNETIC SUSCEPTIBILITY UP TO 1200 X
 R 10 TO THE -5 POWER SI

P 7860 7930 100 XANDY 1111 P2 PO
 L 71R4 1111 < > B)
 P 7930 8143 100KRXANPP 2223 P= P= B1 PO
 L 74R4 2323 <+ P+ <+ D)

R FELDSPAR AND HORNBLLENDE PHENOCRYSTS 0.5-2 MM IN A MATRIX OF
 R MOTTLED PURPLE AND GREEN. ROCK IS HARD, H=4, NOT FOLIATED, BUT
 R FRACTURED WITH CALCITE-QTZ, INFILLING VEINS. FRESHNESS OF
 R FELDSPAR CRYSTAL VARIES THROUGHOUT UNIT INDICATING TWO PHASES
 R OF PORPHYRY; FIRST PHASE- ONLY FELDSPARS IN MATRIX AND TUFF
 R XENOLITHS AND SECOND FELDSPAR AND HORNBLLENDE PHENOCRYSTS.
 R CONTACTS ARE EASILY SEEN BUT HIGHLY IRREGULAR. DISSEMINATED PO
 R THROUGHOUT UNIT -1% MAGNETIC SUSCEPTIBILITY UP TO 400 X 10 TO
 R THE -5 POWER SI



P 8143 9130 100KRXTFLP P+ P= B)BI PO
 L V= V+ P2 V= V)
 R MOTTLED AND PATCHES OF PURPLE AND GREEN, USUALLY FRAGMENTS ARE
 R PURPLE-PINK IN A FINE GRAINED GROUNDMASS. FRAGMENTS ARE RARE BUT
 R VARY IN SIZE FROM 1.0 CM TO 10 CM AND COMPOSITION FROM FELSIC TO
 R PORPHYRITIC, HORNBLende 0.8 MM IN SIZE. THE PURPLE COLOUR IS
 R FROM SECONDARY BIOTITE IE: HORNfels. THE UNIT IS CROSSCUT BY
 R QTZ-CALCITE VEINS AND YELLOW ALTERING CALCITE-CLAY OR SERICITE?
 R PYRITE <1% FORM AGGREGATES 0.8 MM IN SIZE. SECTION OF UNIT ARE
 R SILICIFIED. PYRRHOTITE OCCURS AS BLEBS IN QTZ- CALCITE VEINS.

D 8143 8450 100 X 3334
 L 72R3 823 1133
 D 8450 8800 100 X 3334
 L 77R3 1212

R 8590 8630 SHEAR ZONE WITH 20 MM THICK QTZ-CALCITE-CLAY-SERICITE VEINS WITH
 R TRACE CHALCOPYRITE, FOLIATION IS 80 DEGREES C.A.

D 8800 9130 100 X 3334
 L 58R4 884 1233

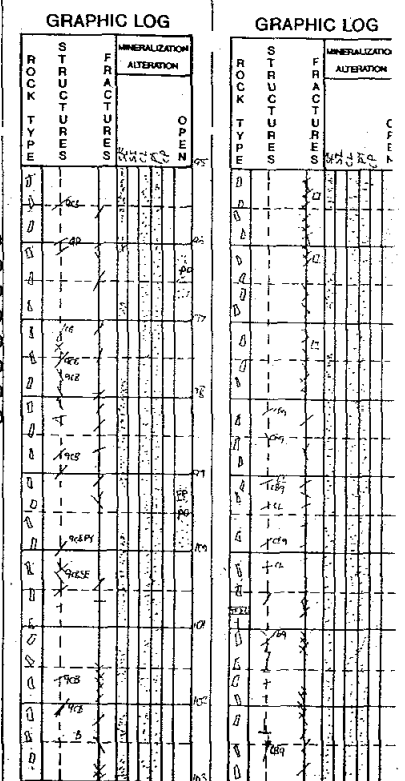
P 9130 16850 XANPP P= P= D) POCD
 L V) V) < D.D)

R FELDSPAR PHENOCRYSTS 40% ARE IN A DULL GREY MATRIX. THE ROCK IS
 R HARD, H=4 WHERE IT IS UNALTERED AND MODERATELY HARD, H=3
 R WHERE IT IS SERICITE ALTERED ALONG QP VEIN. XENOLITHS OF CRYSTAL
 R TUFF AND TUFF FORM SUBROUNDED INCLUSIONS 1.0 CM TO 10 CM IN
 R THICKNESS. PYRRHOTITE AND PYRITE 1% ABOVE DISSEMINATED IN THE
 R MATRIX IN UNALTERED SECTIONS AND ONLY PYRITE IN ALTERED 5%.
 R THE RELATIVE PROPORTION OF HORNBLende PHENOCRYSTS TO FELDSPAR
 R SUDDENLY CHANGES THROUGHOUT THE INTERVAL INDICATING TWO
 R INTRUSIONS OF PORPHYRY. THE FIRST IS ALTERED AND HORNBLende
 R POOR COMPARED TO THE SECOND: 40% FELDSPAR AND 10% BLACK
 R HORNBLende 0.5MM-2.0MM PHENOCRYSTS, THE DIFFERENCE MAY BE DUE
 R TO ALTERATION FROM FLUIDS MOVING ALONG VEINS.

D 9130 9400 100 X 1233
 L R4 914 3334
 D 9400 9700 100 X 0111
 L 58R4 945 3334
 D 9700 10000 100 X 1212 P+D=
 L 62R4 975 1202
 D 10000 10300 100 X 1111 D=
 L 52R4 1006 2333
 D 10300 10600 100 X 1111
 L 08R3 1036 7778

R RUBBLE SECTION DUE TO THE CALCITE CEMENTING THE FRACTURES
 R DISSOLVING. LIMONITE STAIN ON ALL FRACTURE SURFACES.
 D 10600 10900 87 X 1212

A001	81.43	84.50	56594	.011	.040
A001	84.50	88.00	56595	.022	.040
A001	88.00	91.30	56596	.019	.080
A001	91.30	94.00	56597	.012	.070
A001	94.00	97.00	56598	.008	.120
A001	97.00	100.00	56599	.005	.070
A001	100.00	103.00	56600	.019	.050
A001	103.00	106.00	56601	.066	0.0630 .070



GRAPHIC LOG

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION		OPEN
D				
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GRAPHIC LOG

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION		OPEN
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L 39R3 1067 2223
R 10860 10890 CHLORITE ALTERED CRYSTAL TUFF Xenolith
D 10900 11200 100 X 1111 P+

L 42R4 1097 2223
D 11200 11500 100 X 1222 P+

L 76R4 1128 1212
D 11500 11800 100 X 2212 P+

L 93R4 1158 1111
D 11800 12100 100 X 1212

L 80R4 1189 1111

R TRANSLUCENT LOOKING FELDSPARS FROM 118.7-119.4 M, 120.0-120.2 M
R POSSIBLY DUE TO ALTERATION BY FLUIDS MOVING ALONG FRACTURES OR
R DUE TO ANDESITE DYKE 2CM THICK AT 120.5 M.

R 12010 12012 ANDESITE DYKE WITH AN ENVELOPE (10 CM) OF HORNfels ALTERATION?

D 12100 12400 96 X 2223

L 81R3 1219 2112

R 12100 12700 MAGNETIC SUSCEPTIBILITY UP TO 1800 X 10 (TO THE -5 POWER) SI -

R BASE AROUND 200 X 10 (TO THE -5 POWER) SI

D 12400 12700 100 X 2223

L 73R3 1249 1111

D 12700 13000 100 X 1111

L 61R3 1311 2212

D 13000 13300 97 X 1122

L 53R3 1311 2222

D 13300 13600 100 X 1122 P1

L 80R3 1341 1011

R PERVASIVE EPIDOTE/ZOISITE ALTERATION AS ENVELOPES AROUND QTZ-CB-

R EP VEINS AND THE FELDSPAR HAVE A LIGHT CHLORITE GREEN COLOUR.

D 13600 13900 100 X 0111 P1

L 54R3 1372 1212

D 13900 14200 94 X 1222 P=

L 52R3 1402 2223

R 14030 14095 SECTION OF CLAY-SERICITE ALTERED PLAGIOCLASE PORPHYRY WHICH

R LOOKS LIKE THE CRYSTAL TUFF. THE UNIT HAS BEEN RECORDED AS

R TFXL.

R BROKEN AREAS IN CORE ARE DUE TO THE CALCITE IN THE VEINS

R DISSOLVING.

D 14200 14500 100 X 0212

L 37R3 1433 1222

D 14500 14800 100 X 1222 P2P+

L 52R4 1463 1111

D 14800 15100 100 X 1222 P2P+

L 68R4 1494 2112

D 15100 15400 100 X 1212 P2P+

L 66R4 1524 2202

A001 106.00 109.00 56602 .016 .060
A001 109.00 112.00 56603 .038 .030
A001 112.00 115.00 56604 .001 .030
A001 115.00 118.00 56605 .001 .010
A001 118.00 121.00 56606 .004 .020
A001 121.00 124.00 56607 .003 .170
A001 124.00 127.00 56608 .008 .020
A001 127.00 130.00 56609 .004 .020
A001 130.00 133.00 56610 .002 .020
A001 133.00 136.00 56611 .001 .020
A001 136.00 139.00 56612 .006 .010
A001 139.00 142.00 56613 .013 .010
A001 142.00 145.00 56614 .064 .020
A001 145.00 148.00 56615 .044 .040
A001 148.00 151.00 56616 .017 .010
A001 151.00 154.00 56617 .052 .020

D	15400 15700 100 X	0122	P2P+			
L	50R4 1554	1111				
D	15700 16000 100 X	0222				
L	43R4 1585	1212				
R	15880 15980	ALTERED PLAGIOCLASE PORPHYRY LOOKS LIKE CRYSTAL TUFF DUE TO THE TRANSLUCENT APPEARANCE OF THE FELDSPARS.				
D	16000 16300 100 X	0111				
L	53R3 1615	3334				
R	THE UNIT HAS "BLOCKY" SECTIONS DUE TO THE CALCITE INFILLING DISSOLVING.					
D	16300 16600 90 X	1122				
L	68R3 1646	2122				
D	16600 16850 94 X	1101				
L	72R3 1676	1111				
P	16850 17550 CLXANPP		P1 P1P+D)	A001 154.00 157.00 56618	.003 .010	
L			<) <) <)	A001 157.00 160.00 56619	.001 .010	
R	FELDSPAR PHENOCRYSTS 10 TO 20% AND HORNBLENDE PHENOCRYSTS 0.5 - 1.0 MM. 0.2% ARE IN A MATRIX OF CHLORITE ALTERED MAFIC MINERALS.				A001 160.00 163.00 56620	.036 .040
R	THE COLOUR OF THE MATRIX VARIES FROM MEDIUM GREY -SERICITE ALTERATION TO DARK GREEN -CHLORITE ALTERATION. THE FELDSPARS 1.0 - 4.0 MM IN SIZE HAVE GREEN CENTERS IN CHLORITE ALTERED SECTIONS. EPIDOTE REPLACES FELDSPARS AROUND VEINS IN CHLORITE ALTERATION AND IT IS PERVASIVE IN SERICITE ALTERATION. PYRITE IS DISSEMINATED AS BLEBS 0.5 MM -1%. QTZ-CB-CLAY (YELLOW) VEINS CROSSCUT UNIT FILLING FRACTURES. THIS UNIT DIFFERS FROM THE ABOVE BY HAVING LESS PHENOCRYSTS, MORE ALTERATION AND AN INCREASE IN THE NUMBER OF XENOLITHS TOWARDS THE CONTACT WITH HORNFELS TUFF. THIS UNIT MAY REPRESENT THE BORDER PHASE OF THE DYKE.				A001 163.00 166.00 56621	.021 .050
R				A001 166.00 168.50 56622	.001 .030	
R				A001 168.50 172.00 56623	.005 .020	
R				A001 172.00 175.50 56624	.007 .040	
D	16850 17200 94 X	1222				
L	85R4 1707	1202				
D	17200 17550 93 X	1222			PO	
L	81R4 1737	1111			D)	
R	PYRRHOTITE OCCURS AS AGGREGATES OF GRAINS IN HORNFELS TUFF XENOLITHS.					
P	17550 19810 KRXTUFF		P= P) BI PO			
L			<) <) P2 <) D)			
R	PURPLE, HARD, FINE GRAINED TUFF WITH SECTIONS OF GREY MOTTLED SERICITE ALTERATION. PURPLE COLOUR IS DUE TO SECONDARY BIOTITE FROM HORNFELSING. PYRRHOTITE IS DISSEMINATED AS BLEBS 0.1-0.5 MM SECTIONS OF THE UNIT FORM A CRACKLE BRECCIA WHICH IS CEMENTED BY QTZ-CALCITE+/- CLAY. WHERE THE CALCITE HAS DISSOLVED, THE ROCK IS VERY BROKEN. THE TUFF MAY HAVE THE OCCASIONAL SUBROUNDED FELSIC FRAGMENTS -TRACE NATIVE COPPER OCCURS AS DENDRITIC CRYSTALS ON FRACTURED SECTIONS WHICH HAVE WEATHERED					

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION		OPEN
			ALTERATION	ALTERATION	
V					
V					
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V					

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION		OPEN
			ALTERATION	ALTERATION	
V					
V					
V					
V					
V					
V					
V					
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R ANHYDRITE? FILLS FRACTURES AT BASE OF RUBBLE SECTION.

D	1750	17900	71 X	2222
L			1768	3334

CUAH
C.V)

D	17900	18200	74 X	1111
L			51R4 1798	2223

D	18200	18500	89 X	3334
L			67R4 1829	0202

R EPIDOTE ALTERATION OF MAFICS AND FELDSPARS

D	18500	18800	95 X	3334
L			93R4 1859	1101

D	18800	19100	97 X	3334
L			R4 1890	0000

D	19100	19450	100 X	3334
L			95R4 1920	1112

D	19450	19810	82 X	3334
L			76R4 1951	1222

R MAGNETIC SUSCEPTIBILITY VARIES UP TO 2000 X-10 (TO THE -5 POWER)
R SI WITH A BASE VALUE OF 400 X 10 (TO THE -5 POWER) SI DUE TO
R PYRROTITE IN THE ROCK. THEREFORE THE SPERRY SUN WILL HAVE BEEN
R AFFECTED BY THE PALEOMAGNETISM OF THE ROCK.
R END OF HOLE AT 198.1 M.

The A005 assay sets are selected composites based on copper grades and geology

	From	To	Length	Cu %	Au g/t
A005	11.00	19.27	8.27	.234	.121
A005	19.27	59.30	40.03	.529	.203
A005	59.30	175.50	116.20	.018	.044
A005	175.50	198.10	22.60	.057	.073
/END					

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION		OPEN
			ALTERATION	ALTERATION	
V					
V					
V					
V					
V					
V					
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A001	175.50	179.00	56625	.100	.060
A001	179.00	182.00	56626	.169 0.1630	.060
A001	182.00	185.00	56627	.050	.040
A001	185.00	188.00	56628	.017	.150
A001	188.00	191.00	56629	.028	.080
A001	191.00	194.50	56630	.017	.070
A001	194.50	198.10	56631	.022	.060

IDEN680201 KERR KS-070BQWL11AUG90WKH JTTAUG90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 4000MT 86.00090.00-60.00 9617.00 9913.00 1591.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM

S001 4000 8600 86.00077.00-62.00
 A003
 ALUMM MAG
 P 000 2440 OVBD

L
 P 2440 3840 CL9TUFF P1 P3 D1 D. CC
 L Q= <*> Q<

R INTENSELY ALTERED TUFF UNIT WITH ABUNDANT CHLORITE ALTERATION
 (30-40%). UNITS IS MED GREEN IN COLOUR. ALTERATION MAKE MODAL
 R COMPOSITION DETERMINATION IMPOSSIBLE. POOR CORE RECOVERY.
 R UNIT IS SOFT DUE TO THE ALTERATION. INTENSELY OXIDIZED ZONES
 R OCCUR FROM 24.40 TO 27.20 AND 27.80 TO 28.50. SMALL RUBBLE
 R ZONES (WITH VERY POOR CORE RECOVERY) FROM 28.75 TO 30.50 AND
 R 31.50 TO 33.50. AMORPHOUS MASSES OF A VERY PALE GREEN, CLAY
 R MINERAL OCCUR AS SPOTS THROUGHOUT. PY VERY ABUNDANT, OCCURING
 R AS DISSEMINATED CRYSTALS AND WITH QTZ VEINLETS. CP AND
 R CHALCOCITE SEEN.

N 2480 2680 XMCOR
 L
 D 2440 3050 45 X 011
 L 13R2 274 444
 N 3480 3660 XMCOR
 L
 D 3050 3660 44 X 011
 L 26R3 335 444
 N 3660 3840 100PRXTUFF 020 P1 P1 D1 D.
 L 60R2 021 O=P2 <<*>

R LESS ALTERED VERSION OF THE 'P' UNIT. CHLORITE DROPS IN
 R ABUNDANCE TO 10% PYROPHYLLITE ALTERATION ABUNDANT (20-25%)
 R AND PRVASIVE. THE PALE GREEN CLAY SPOTS ARE MORE ABUNDANT
 R AND ARE BECOMING INTERSTITIAL. SOFT. UNIT HAS A LIGHT GREENISH
 R YELLOW COLOUR. PY ABUNDANT AND AS DISSEMINATED CRYSTALS AND
 R WITH QTZ VEINS. VERY MINOR CP.

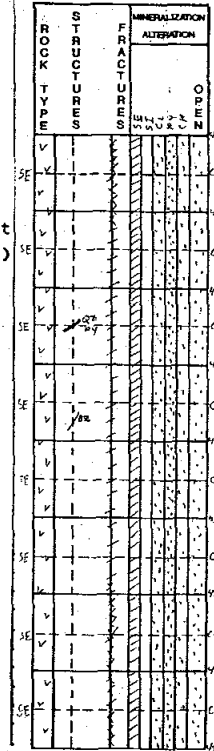
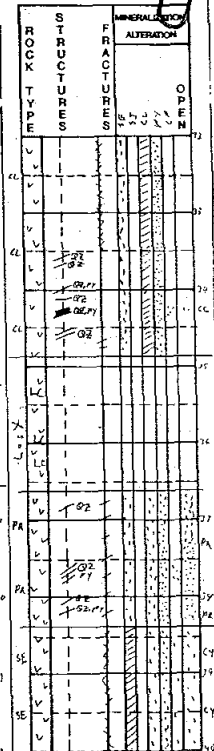
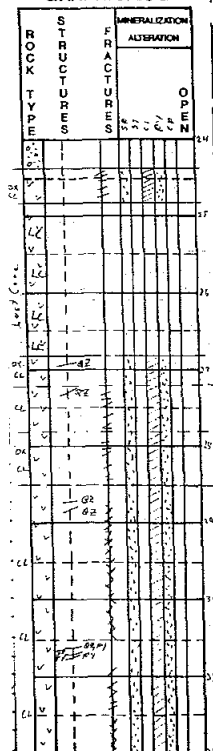
P 3840 4880 SEXTUFF P3 P= D1 D.
 L P= <<

R SIMILAR TO PREVIOUS 'P' UNIT EXCEPT WITH THE CHLORITE CONTENT
 R AT 5-10% AND THE SERICITE CONTENT INCREASING TO 25-30% POOR
 R CORE RECOVERY. THE PALE GREEN CLAY SPOTS PERSIST BUT ARE NOT AS

GRAPHIC LOG

GRAPHIC LOG

GRAPHIC LOG

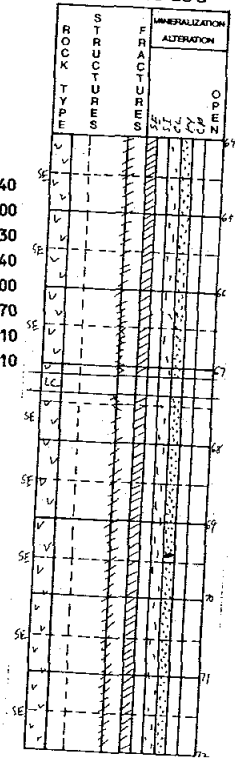
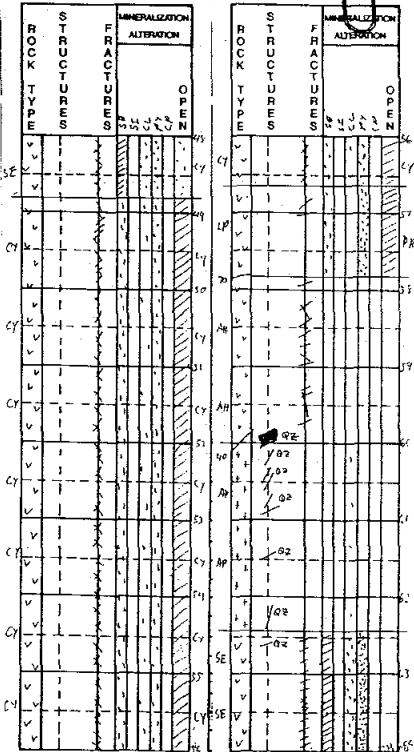


	From	To	Sample	Cu %	Cu X Au g/t	Au g/t	Au g/t
				(dupl)	(dupl)	(dupl)	(dupl)
A001	24.40	30.50	57684	.424		.480	
A001	30.50	36.60	57685	1.060		.380	
A001	36.60	38.40	57686	.720		.130	

GRAPHIC LOG

GRAPHIC LOG

GRAPHIC LOG



R PREVALENT. UNIT IS A LIGHT GREY IN COLOUR. UNIT IS PRIMARILY
 R BLOCKY BUT SMALL ZONES OF RUBBLY CORE OCCUR SPORADICALLY. PY
 R OCCURS AS DISSEMINATED CRYSTALS AND WITH QTZ VEINS. VERY MINOR
 R DISSEMINATED CP CRYSTALS SEEN.

D	3840	4270	69	X	000
L			12R2	396	444
D	4270	4510	98	X	010
L			70R2	427	022
D	4510	4880	32	X	000
L			8R2	457	444
P	4880	5780		CY9TUFF	

P1 P) D=
 P3Q=

R SIMILAR TO PREVIOUS 'P' UNIT EXCEPT THAT CLAY BECOMES THE
 R PREDOMINANT ALTERATION (25-30%). VERY SOFT. UNIT IS A LIGHT
 R GREY. VERY CRUMBLY AND RUBLY. MINOR PYROPHILLITE IN PLACES.
 R MINOR DISSEMINATED PY. POOR CORE RECOVERY.

D	4880	5490	47	X	000
L			5R2	518	666
D	5490	5660	90	X	000
L			0R2	549	XXX
N	5660	5780		100PRXTFLP	000
L				96R3	011

P1 D= L1 CC
 P=P3

R PYROPHYLLITE LAPILLI TUFF. MORE COMPETENT THAN THE TUFF DUE TO
 R THE LAPILLI CLASTS. UNIT IS A LIGHT GREENISH YELLOW WITH A
 R MOTTLED APPEARANCE. PY OCCURS AS BLEBBY LAMINATIONS IN THE
 R MATRIX. PR ALTERATION INCREASES AT THE BOTTOM. MASSIVE PY ZONE,
 R 5 CM WIDE AT 57.35. VERY SMALL CHALCOCITE SEEN IN THE PY RICH
 R ZONES.

P	5780	6000		100VFXTFAH	000
L			32R3	579	121

C* V1

R COMPETENT. VERY FINE GRAINED. DARK GREEN ASH TUFF. OCCASIONALLY
 R SMALL LAPILLI CLASTS SEEN. UNIT IS BLEACHED NEAR QTZ VEINS.
 R LARGE QTZ VEIN OCCURS AT THE BOTTOM OF THE UNIT FROM 59.80 TO
 R 60.00. CLAY COATINGS OCCUR ALONG FRACTURES. NO SULPHIDES SEEN.
 R MASSIVE.

P	6000	6245	100	XLAAP	
L			53R3	610	

LC

R BLACKISH GREEN UNIT. MODERATELY MAGNETIC. MASSIVE, THE BOTTOM
 R 20 CM OF THE UNIT IS BLEACHED. CHLORITE LAMINATIONS ALONG QTZ
 R VEINS. NO SULPHIDES SEEN.

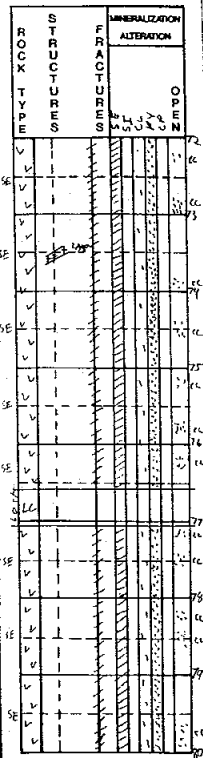
A003	6000	6245		4300	
P	6245	8600		SE9TUFF	

P3 D2 CCTN
 P1 D)D(

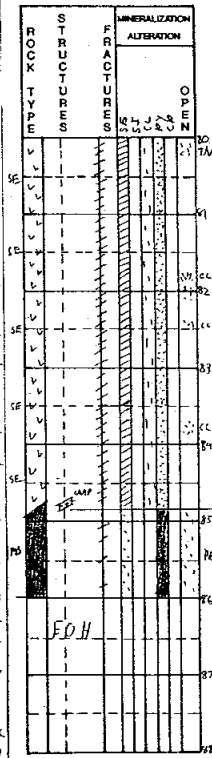
R ALTERED TUFF UNIT WITH ABUNDANT SERICITIC (30%) PYROPHYLLITIC
 R (10-15%) AND MINOR CHLORITIC (5-10%) ALTERATION. UNIT IS A LIGHT

A001	38.40	42.70	57687	1.060	1.0900	.140
A001	42.70	45.10	57688			.100
A001	45.10	48.80	57689			.130
A001	48.80	54.90	57690			.140
A001	54.90	56.60	57691			.100
A001	56.60	57.80	57692			.270
A001	57.80	60.00	57693			.010
A001	60.00	62.45	57694			.066

GRAPHIC LOG



GRAPHIC LOG



R
R
D 6245 6545 95 X 010
L 22R2 640 444
D 6545 6845 88 X 000
L 12R2 671 444
D 6845 7145 98 X 000
L 25R2 701 444
N 6710 6740 XMCOR

R
R
D 7145 7445 95 X 000
L 18R2 732 444
D 7445 7745 83 X 000
L 32R2 762 444
N 7660 7710 XMCOR
L 7745 8045 98 X 000
L 32R2 793 444
D 8045 8230 98 X 000
L 22R2 444
D 8230 8480 98 X 000
L 22R2 444
N 8480 8600 100PYXMSX

MASSIVE PY BAND 2 CM WIDE AT 69.40.

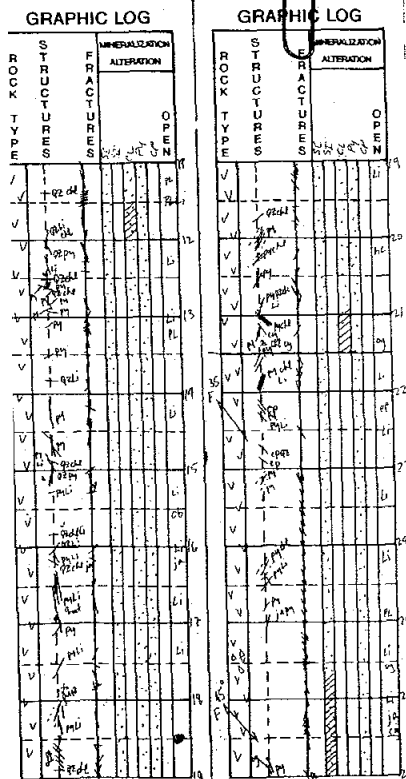
P1
L P1 B6
R ZONE IN WHICH PY MAKES UP 50-60% OF THE UNIT, THE REMAINING
R COMPONENTS ARE : QTZ, F-SPAR, SERICITE, AND PYROPHYLLITE.
R THE PY IS OCCURRING AS A MASS OF SMALL BLEBS.
R HOLE ABORTED AT 86.00 DUE TO DRILLING DIFFICULTIES.

The A005 assay sets are selected
composites based on copper grades
and geology

	From	To	Length	Cu %	Au g/t
A005	24.40	62.45	38.05	.589	.215
A005	62.45	71.45	9.00	.884	.270
A005	71.45	86.00	14.55	.649	.135

/END

A001	62.45	65.45	57695	.992	.320
A001	65.45	68.45	57696	.904	.270
A001	68.45	71.45	57697	.756	.220
A001	71.45	74.45	57698	.516	.180
A001	74.45	77.45	57699	.652	.120
A001	77.45	80.45	57700	.588	.080
A001	80.45	82.30	57701	.660	.120
A001	82.30	84.80	57702	.800	.130
A001	84.80	86.00	57703	.792	.230



FORMING OWN VEIN, SOME PY.

R 1040 1130 FELSIC FRAGMENT? CHLORITIZED, WELL FOLIATED WITH PURPLE BANDED
R AREAS, EXTENSIVE PL ON FRACTURES, ABUNDANT SUBHEDRAL PY PATCHES/
R VEINS.

R 1140 1145 QTZ VEIN IN JUMBLE, CHLORITE, SOME PY, VERY LI RICH, PROBABLY
R 2-4 CM WIDE, POOR RECOVERY 11.3-11.5 M

R 1150 1195 ANOTHER FRAGMENT, DACITE, VISIBLE PHENOCRYSTS HEAVILY
R CHLORITIZED, PL DENDRITIC ON FRACTURE PLANES.

D 1200 1500 97 X 221
L 3R4 143 221
R LONG FRACTURE PARALLEL CORE AXIS COMMON.

R 1240 1260 PY CONCENTRATION- VEIN TO PATCH X CUT BY LATER QTZ-CB VEIN,
R LITTLE DISPLACEMENT.

R 1300 1400 LONG FRACTURES, EXTENSIVE PL, MINOR BLEACHING.

D 1500 1800 89 X 211
L 50R4 174 220
R 1540 1580 MINOR CB VEINS PERPENDICULAR TO CA., WELL DEVELOPED QS ENVELOPE
R ON PY VEINS POSSIBLY SOME TT, CB VEINS X CUT PY-QS VEINS.

A001	12.00	15.00	57118	.133	.150
A001	15.00	18.00	57119	.145	.170
A001	18.00	21.50	57120	.140	.360
A001	21.50	24.50	57121	.077	.090

R 1600 1610 PY IRREGULAR VEINS WITH LI STAINING INTERSTITIAL TO CRYSTALS,
R X CUT BY LI-QTZ VEIN

R 1700 1705 LARGE [PY], POSSIBLY WITH PURPLE BI SECONDARY ENVELOPE OR
R SELVAGE, SOME LI, QTZ

R 1760 1790 MINOR BLEACHING

R 1860 1920 LARGE TF XL? FRAGMENT, ABUNDANT TENSION GASHES AT 40-60 DEGREES
R LEACHED WITH LI STAINS, HEAVILY FRACTURED.

D 1800 2150 89 X 221
L 26R4 204 220

R 2080 2090 1 CM VUGGY QTZ VEIN WITH PY, CHL, LI, VERY JUMBLED WITH POSSIBLE
R TENSION GASHES, CONTINUES DOWNWARD TO MORE CHLORITE RICH ZONE
R WITH ABUNDANT PY AND CHLORITE VEINS; BLEACHED A LITTLE.

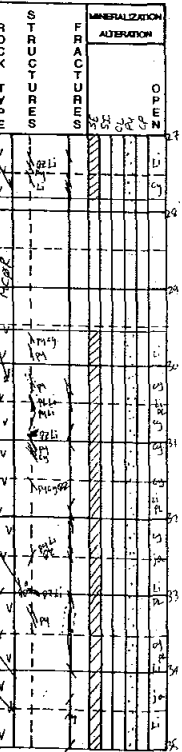
P 2150 5905 XTUFF P2 D=LI <*
E= Q* C <.

R VERY LIGHT GREY MODERATE-VERY STRONG FOLIATION, UNIFORM TEXTURE
R MINOR BANDING ALONG FOLIATION, INFREQUENT CONCENTRATIONS OF
R FRAGMENTS, VERY ELONGATE, FELSIC, COMPETENT ROCK. PY MAINLY
R DISSEMINATED BUT ALSO MINOR EUHEDRAL MICROVEINS AND
R CONCENTRATIONS. QS ENVELOPES AROUND PY VEINS, PATCHY BLUE CY
R WITH PY AND ALTERED FRAGMENTS. KAOLIN ON FRACTURE SURFACES WITH
R LI (LI ALSO WITH PY) FOLIATION AND SERICITIZATION VERY STRONG
R AT TOP AND GRADUALLY LESSENS WITH DEPTH. 34-38 M FRANSTIONAL
R SOME OTHER UNITS WITHIN TUFF, MINOR, SAME ALTERATION.

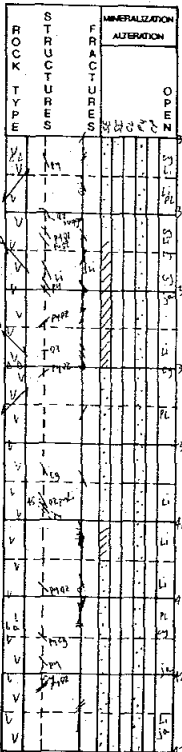
D 2150 2450 75 X 210
L 27R4 235 510
R SOME OLIVE GREEN EP IN VEINS, VUGGY

D 2450 2770 73 X 100 P3 D+

GRAPHIC LOG

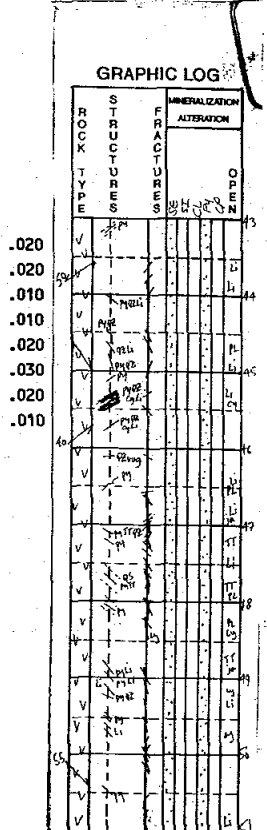


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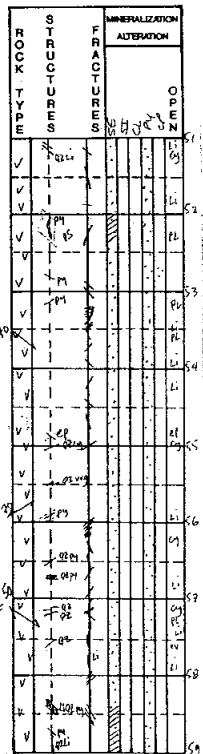


L 13R2 269 420
R 2550 2570 LITTLE RECOVERY, FAULTED, BRECCIATED, BEGIN INTENSELY FOLIATED
R SERICITIZED TUFF, VERY BLEACHED PARTS ON FOLIATION PLANES.
N 2770 2960 XMCOR
L
R NO CORE RECOVERY
D 2960 3300 93 X 301 P3 D+
L 50R3 326 300
R SOME BLEACHING ON PARTED FOLIATION PLANES
R 3090 3095 QTZ-LI VUGGY VEIN, XCUTS FOLIATION EXTENSIVE LI STAINS AND
R ENVELOPES.
R 3100 3130 WHITE KAOLIN ALONG FOLIATION, SOME FU, FINE DISSEMINATED PY
D 3300 3600 87 X 100
L 46R3 357 320
R 3400 3600 COMPETENCY AND HARDNESS MUCH IMPROVED, FRACTURES ALONG FOLIATION
R CAN NOT PART.
R 3560 3580 FRACTURED INTENSE LI STAINING, SOME SPINNING OF CORE
D 3600 3900 80 X 210
L 23R3 387 310
R 3650 3800 WELL FOLIATED, PARTING ALONG FOLIATION, INTENSE FOLIATION- SE
R 3790 3800 CY RICH, ABRUPT CHANGE TO MODERATE FOLIATION, LESS INTENSE
R SERICITIZATION.
R 3800 3900 FRAGMENTS MORE ABUNDANT, PY DISSEMINATED 5X
D 3900 4200 89 X 110
L 50R3 418 211
R 4130 4140 BRECCIATED, CY RICH, LARGE PL FRACTURE ABOVE
D 4200 4500 100 X 110
L 63R3 448 120
R 4210 4220 FRAGMENTAL? VEIN? PY CONCENTRATION BOUNDED BY QTZ VEINS AT 50
R DEGREES.
R 4460 4470 FRACTURE WITH PL, AT 44 DEGREES, BLEACHED POSSIBLY QS ENVELOPES
R SOME QV ON UPPER SIDE, BLUE CY ENVELOPE APPROXIMATELY 2 CM ON
R EACH SIDE OF FRACTURE.
D 4500 4800 90 X 010
L 70R3 479 400
R 4600 4660 INCREASE IN BANDING, YELLOW CY ALONG FOLIATION PLANES ALSO
R FRAGMENTS.
R 4670 4671 FRACTURE SURFACE WITH EUHEDRAL PY COATED BLACK, GOOD STRIATION
R ROCK LESS FOLIATED, MORE CRYSTALLINE, IN INTENSELY FRACTURED
R ZONE
R 4720 4725 PURPLE SPOTTY AREA; PY WITH FINELY DISSEMINATED TT IN QTZ VEIN
R TT 5-7% PY 2% POSSIBLY SOME CHLORITE. 3CM WIDE VEIN.
R 4740 5000 ROCK ALTERS SLIGHTLY, QS ENVELOPES INCREASE, PY FORMS BLEBS,
R POSSIBLY SOME TT DISSEMINATED?
R 4760 4770 SMALL PY VEIN WITH LARGE QS ENVELOPE, LARGE EUHEDRAL PY CRYSTALS

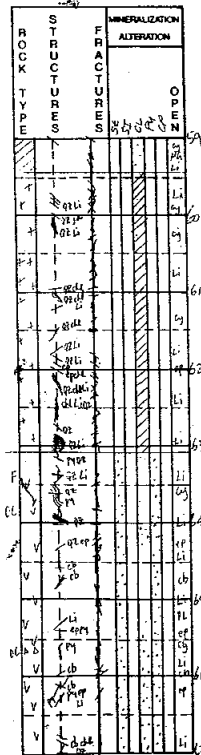
A001	24.50	27.50	57122	.057
A001	27.50	30.50	57123	.036
A001	30.50	33.50	57124	.040
A001	33.50	36.50	57125	.079
A001	36.50	39.50	57126	.048
A001	39.50	42.50	57127	.085
A001	42.50	45.50	57128	.057
A001	45.50	48.50	57129	.106



GRAPHIC LOG



GRAPHIC LOG



R WITH BLACK COATING MAY ALSO BE TT, ALSO DISSEMINATED ADJACENT TO VEIN.

R 4800 5100 92 X 030

L 33R3 509 300

R 4910 4920 FRACTURE WITH BLEACHING, BLUE CY ALTERATION.

D 5100 5400 102 X 010

L 55R4 539 221

R 5130 5131 RETURNS TO NORMAL LIGHT GREY TUFF, 2% PY DISSEMINATED, INFREQUENT PY VEINS.

R 5200 5230 INTENSE QS ALTERATION PARALLEL FOLIATION? OBLITERATES MOST STRUCTURES INCLUDING FOLIATION, LITTLE MINERALIZATION POSSIBLY SOME TT, VERY HARD, POSSIBLY SOME CP? DOUBTFUL

R 5350 5900 WELL FOLIATED WITH FRAGMENTS, PY AS ALTERATION IN FRAGMENTS AS WELL AS DISSEMINATED.

D 5400 5905 93 X 020

L 34R3 570 221

R BECOMES LESS COMPETENT WITH DEPTH

R 5600 5620 SLIGHTLY FRACTURED, BECOMES MORE FOLIATED TOWARDS UNIT BELOW. BANDED APPEARANCE. GETS MORE BLEACHED WITH DEPTH.

R 5650 5652 QTZ VEIN AT 60 DEGREES TO CA.: EUHEDRAL PY WITH BLACK COATINGS, POSSIBLY SOME TT.

R 5760 5763 QTZ VEIN AT 60 DEGREES, CUTS FOLIATION, CONTAINS SMALL BLEBS OF COVELLITE, MINOR LI ON FRACTURES.

R 5830 5840 3-4 CM QTZ VEIN PARALLEL FOLIATION WITH ADJACENT SUBHEDRAL PY MICROVEIN. MATRIX HEAVILY SERICITIZED AND FOLIATED.

P 5905 6310 XLAAP P3<* LI

L C= C= V+

R DARK GREEN, FINE GRAINED LITTLE STRUCTURE OR FOLIATION, UNIFORM. HEAVILY FRACTURED WITH LI AND WHITE CY ON SURFACES. QTZ VEINS COMMON, SOME EP VEINS. LITTLE MINERALIZATION. CHLORITE MICROVEINS ALSO ASSOCIATED WITH QTZ. LOWER CONTACT WITH SERICITE TUFF IS 20CM QTZ VEIN WITH LI, PY; UPPER CONTACT SHARP WITH AMYGDALOIDAL DYKE.

M 5905 5940 95 XANDY P2 LI MG

L OR4 C* D=

R AMYGDALOIDAL, FILLED WITH QTZ. UNIFORM UNFOLIATED TEXTURE WITH SMALL ORANGE DOTS THROUGHOUT. CONTACT SHARP WITH TUFF ABOVE, SOME FRACTURING, NO MINERALIZATION.

A003 5905 5940 1000

D 5940 6310 92 X 120

L 16R3 600 331

A003 5940 6310 50

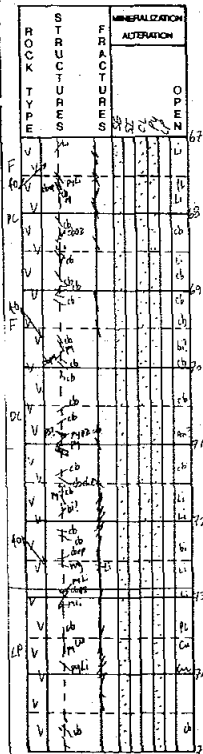
R 6220 6230 RED OXIDATION STAINS ON FRACTURE SURFACES

R 6280 6310 QTZ VEIN, VUGGY, LI STAINS, EUHEDRAL PY ON FRACTURE SURFACES

R WITH BLACK COATINGS. SOME CHLORITE.

A001	48.50	51.50	57130	.079	.030
A001	51.50	54.50	57131	.065	.030
A001	54.50	57.00	57132	.081	.010
A001	57.00	59.05	57133	.032	.030
A001	59.05	61.00	57134	.112	.010
A001	61.00	63.10	57135	.295	0.2920 .010

GRAPHIC LOG



P 6310 7290 DCXTUFF P= P1<*D=CL <)

 L <=< <)<=

 R UNIFORM, MEDIUM GREEN, SLIGHTLY SPOTTED, WEAK FOLIATION. VAGUE

 R ANHEDRAL PF PHENOCRYSTS, SOME AREAS WITH BLACK MAFIC LATHE

 R CRYSTALS. NO VISIBLE FRAGMENTS, DACITIC COMPOSITION. FRACTURED

 R BUT COMPETENT. CB AND CB-Qtz-CHL VEINS COMMON, XCUT FOLIATION,

 R GENERALLY ANGULAR WITH SHARP UNALTERED CONTACTS. MINOR PINK CB

 R ASSOCIATED WITH WHITE CB. LITTLE MINERALIZATION EXCEPT

 R OCCASIONAL PY MICROVEIN PARALLEL FOLIATION.

 R MOST PY DISSEMINATED 5-10%. MINOR PERVASIVE THROUGHOUT.

 A003 6310 7290 0

 D 6310 6600 97 X 122 P2 P+ D+

 L 3R3 631 311

 R 6310 6600 BLEACHED, MORE FOLIATED INTERVAL, MAY BE DIFFERENT ROCK TYPE.

 R 6385 6400 WELL FOLIATED BLEACH ZONE, QTZ VEINS THAT HAVE BEEN BRECCIATED

 R AND INFILLED WITH YELLOW HARD SUBSTANCE. CAN NOT SCRATCH, DO NOT

 R KNOW WHAT IT IS! A001 63.10 66.00 57136 .144 .100

 A001 66.00 69.00 57137 .028 .070

 A001 69.00 72.00 57138 .024 .050

 A001 72.00 75.00 57139 .050 .050

 A001 75.00 78.00 57140 .016 .020

 D 6600 6900 97 X 221

 L 76R4 661 210

 R 6850 6860 CB VEINS, WHITE SMALL BLEBS OF PINK CB. SIMILAR VEINS XCUT

 R EACH OTHER.

 D 6900 7290 97 X 032

 L 81R4 692 210

 R MARK AT 72.2 M

 R 6940 6990 MORE BLEACHED? MODERATE FOLIATION, SOME SEGREGATION B/N FELSIC

 R AND MAFIC COMPONENTS. FOLIATION DISRUPTED WITH PERVASIVE CB

 R WITH SOME CHLORITE AND PURPLE MICA AT (69.6- 69.7 M)

 R 7080 7083 Qs VEINS 3CM WIDE AT 70 DEGREES, SOME PERVASIVE CB. POSSIBLY NOT

 R QTZ BUT ANHYDRITE? GREYISH COLOUR, UNUSUAL. XCUTS FOLIATION.

 R 7105 7110 QTZ-CB-CHL VEINS, SEVERAL GENERATIONS. SOME TENSION GASHES IN

 R VEIN.

 R 7150 7200 MORE CRYSTALLINE SECTION, BLUE GREEN COLOUR, SOME SECONDARY

 R PURPLE BI ON FOLIATION PLANES. PURPLE BI REMAINS TO END OF

 R INTERVAL.

 P 7290 11160 XTFLP P2 D=LI <)

 L <)< G. C* <)

 R LIGHT GREY, PATCHY TO MOTTLED, MODERATE TO WEAK FOLIATION.

 R FRAGMENTS GENERALLY SMALL (5% CM), ELONGATE PARALLEL FOLIATION.

 R RANGE FROM 0 TO 40% OF ROCK, GENERALLY TUFF COMPOSITION. PY

 R MAINLY AS DISSEMINATED, ALTERATION OF SOME FRAGMENTS; < 1% PY

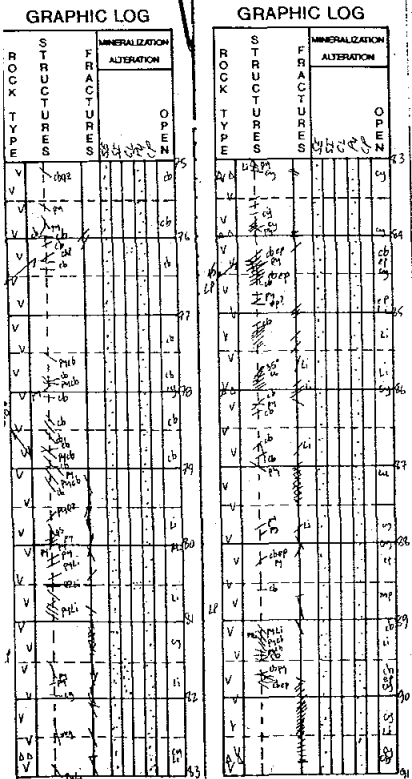
 R CB VEINS PARALLEL FOLIATION. SOME CB LESS VEIN HIKE, MORE

 R PERVASIVE. AMOUNT UNKNOWN. MINOR CHLORITE ASSOCIATED IN

 R MICROVEINS WITH CB AND QTZ.

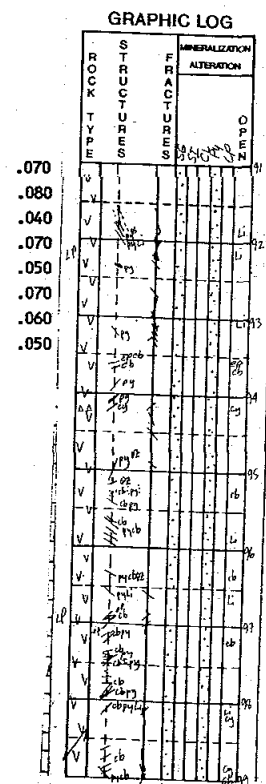
 D 7290 7600 93 X 120

 L 61R4 753 210



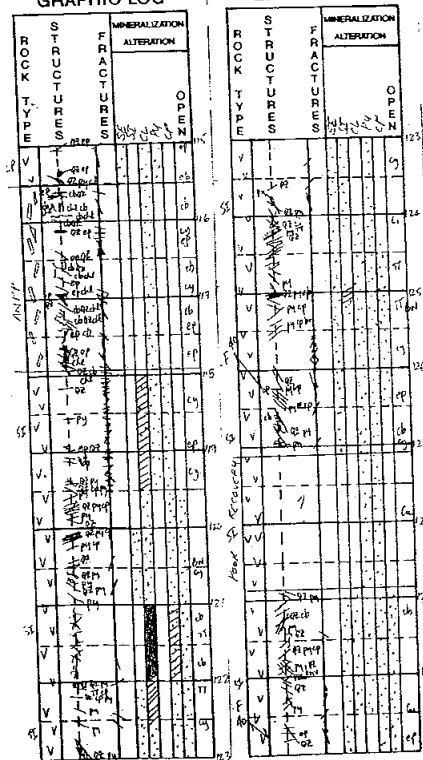
R 7350 7400 DENDRITIC NATIVE CU ON FRACTURE PLANE PARALLEL CA. NICE LOOKING
 R NO HEAVY PL OR LI STAINS. ASSOCIATED BN.
 D 7600 7900 100 X
 L 95R5 783
 R 7720 7960 VERY FINE GRAINED, CRYSTALLINE, NO FRAGMENTS, SOMEWHAT BANDED.
 D 7900 8200 90 X 122
 L 29R4 814 310
 R 7960 8110 WELL LAMINATED, FRAGMENTAL. IRREGULAR PY VEINS WITH ORANGE LI
 R STAINING MORE MOTTLED AND FRACTURED THAN MOST OF PGI. POSSIBLY
 R SOME QS ENVELOPES AROUND PY VEINS, SOME BLEACHING, NO CB.
 R 8100 8140 FRACTURED, CY RICH. RETURNS TO TFLP BELOW WITH A MINOR SILICIFIED
 R SECTION. FRACTURED ZONE IS TFLP.
 R 8000 8350 LITTLE CB
 D 8200 8500 100 X 122
 L 70R4 844 121
 R 8310 8315 SMALL BRECCIATED ZONE, CY RICH, NO MINERALIZATION.
 R 8350 8400 START OF YELLOW CY? IN MICROVEINS. MAY BE ALTERATION OF CB
 R EXPLAINING LACK OF CB IN INTERVAL. POSSIBLY SOME EP IN
 R MICROVEINS.
 R 8437 8440 SMALL QTZ-CB VEIN WITH CHLORITE, POSSIBLY WITH TT DISSEMINATED
 R THROUGHOUT.
 D 8500 8800 87 X 131
 L 67R4 875 230
 R 8570 8580 TYPICAL CB-EP? VEIN: YELLOW CB WITH OLIVE GREEN EP PERPENDICULAR
 R TO MICROVEIN EDGES. LOOKS LIKE A LADDER. MICROVEINS VERY SHARP
 R ANGULAR, SOME XCUTTING FEATURES. SOME EP SURROUNDING QTZ; EITHER
 R FELSIC FRAGMENTS OR EYES, CAN NOT TELL.
 R 8710 8711 SMALL BLEB OF CU ON FRACTURE PLANE NEXT TO FAULT ZONE.
 D 8800 9100 90 X 022
 L 92R4 905 132
 R 8980 8990 CB-EP IRREGULAR NETWORK OF VEINS.
 R 9010 9085 FAULTED ZONE, CY, LOW RQD, WELL FOLIATED. CB IN FAULTED ZONE
 R AT 90.85 M. CONTACT AT 60 DEGREES.
 D 9100 9400 92 X 010
 L 70R4 936 210
 D 9400 9700 100 X 130
 L 78R4 966 010
 D 9700 10000 93 X 221
 L 63R4 997 220
 R 9730 9770 WHITE CB IN IRREGULAR VEINS/STOCKWORK. SOME ASSOCIATED PY,
 R SUBHEDRAL. SOME PERVASIVE CB.
 R 9840 9845 BLEB OR ALTERED FRAGMENT WITH CENTRAL BI RIMMED WITH CB
 R 9880 9890 FRACTURES WITH CY ALTERATION. NO MINERALIZATION.
 R 9900 9980 FAULTED CY RICH ZONE, BRECCIATED, NO CB. BOUNDED BY QTZ VEIN
 R AT BOTTOM WITH PY. SERICITIZED HEAVILY. SOME FRAGMENTS WITHIN

A001	78.00	81.00	57141	.046
A001	81.00	84.00	57142	.055
A001	84.00	87.00	57143	.062
A001	87.00	90.00	57144	.074
A001	90.00	93.00	57145	.075
A001	93.00	96.00	57146	.060
A001	96.00	99.00	57147	.038
A001	99.00	102.00	57148	.041



GRAPHIC LOG

GRAPHIC LOG



R ALONG FOLIATION.
 R 11420 11421 MOVEMENT AT 80 DEGREES TO CA. DISPLACING QTZ VEINS. NO FAULT OR
 R VEINING ASSOCIATED.

P 11550 11790 94 XANPP 122 P2<) CL
 L 33R3 222 <+ G. <) <+
 R PREMIERE PORPHYRY: CONTACT WITH UPPER UNIT INDISTINCT, LOWER
 R CONTACT IS CY RICH BRECCIATED ZONE. MEDIUM GREEN, UNIFORM
 R TEXTURE WITH 5-10% KF PHENOCRYSTS, 10-15% ? OF PHENOCRYSTS.
 R MINOR FOLIATION WITH STRETCHED PF PHENOCRYSTS. CB +/- GLASSY QTZ-
 R CHL VEINS COMMON, IRREGULAR, DISCONTINUOUS. QTZ-EP AND EP VEINS
 R VUGGY, IRREGULAR, IN SOME PLACES EXTENSIVE (SEE 117.5-117.9)
 R LITTLE MINERALIZATION.

P 11790 15740 XKR BX P2P2 <) B+<+B.CUTT
 L E)<) V4 U*<)

R TUFF, MAINLY LIGHT GREY, WELL FOLIATED, SERICITIZED, SILICIFIED,
 R OCCASIONAL CHLORITIZED RICH ZONE. CHLORITE ZONES EXHIBIT QS
 R ENVELOPES AROUND PY VEINS. PGI UNIQUE BECAUSE OF INTENSE SI
 R ALTERATION AND LARGE BRECCIATED QTZ VEINS, UP TO 5% OF QTZ VEIN.
 R PY ANHEDRAL-EUHEDRAL, UP TO 15-20% OF QZ VEINS AND SILICIFIED
 R AREAS. BLACK MINERAL POSSIBLY TENNANTITE, VERY SMALL CRYSTALS
 R SOMETIMES DIFFICULT TO DISTINGUISH BETWEEN QTZ VEIN AND ALTERED
 R TUFF, BOUNDARIES INDISTINCT. NATIVE COPPER ON FRACTURE PLANES IN
 R LESS SILICIFIED MORE CHLORITIZED ZONES.

A001	102.00	105.00	57149	.039	.050
A001	105.00	108.00	57150	.035	.100
A001	108.00	111.00	57151	.110	.130
A001	111.00	114.00	57152	.164	.130
A001	114.00	117.00	57153	.221	.100
A001	117.00	120.00	57154	.400	.170
A001	120.00	123.00	57155	1.340	.530
A001	123.00	126.00	57156	1.410	1.3400
A001	126.00	129.00	57157	.848	.530
A001	129.00	132.00	57158	.772	.440

D 11790 12100 87 X 022 P3
 L 21R3 1180 122

R 11790 11950 TRANSITION ZONE, HEAVILY FOLIATED, BROKEN WITH CY, LITTLE QTZ
 R VEINING. SOME CHLORITIZATION.

R 12050 12060 QTZ VEIN WITH CP AND BN BLEBS.

D 12100 12400 80 X 112
 L 41R4 1210 220

R 12100 12200 WHITE QTZ VEIN WITH PY-TT-CP VEIN NETWORK, CB INFILL IN BRECCIA.
 R CORE LOST BETWEEN 123.00-124.00 M

D 12400 12700 90 X 022
 L 39R4 1241 200

R 12420 12530 CHLORITIZED ZONE WITH MANY IRREGULAR QTZ VEINS WITH PY AND CP
 R TT. STILL SILICIFIED.

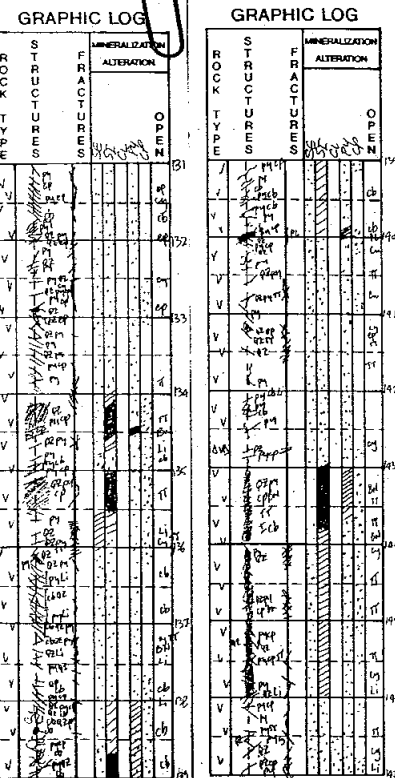
R 12520 12530 BN? CONCENTRATION. QTZ VEIN HAS ALMOST PURPLE COLOUR.

R 12650 12700 QTZ VEINS, VUGGY, WITH EP, PY. XCUT BY QTZ- VEINS AND SUBHEDRAL
 R IRREGULAR PY-CP VEINS.

D 12700 13000 50 X 220
 L 30R4 1271 000

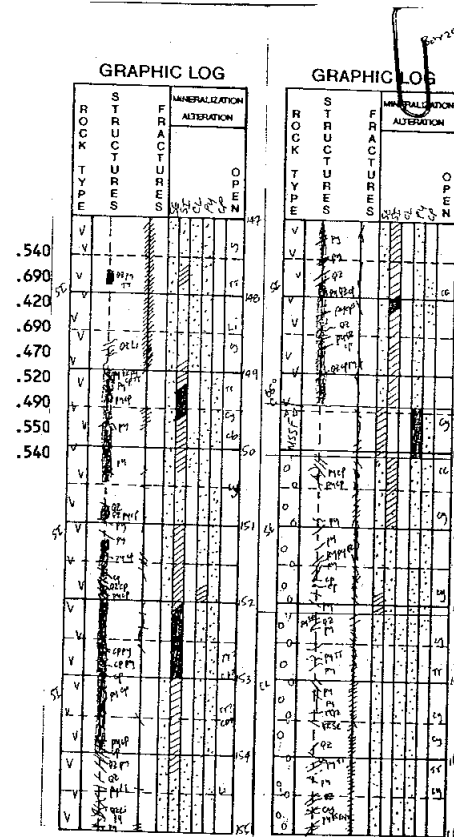
R 12710 12880 CORE LOST, 20 CM ONLY, VERY GROUND UP. SOME NATIVE COPPER AND
 R ASSOCIATED CUPRITE ON FOLIATION PLANE. MOST PARTICLES VERY
 R SULFIDE RICH WITH ABUNDANT QTZ, TT. HIGH S.G.

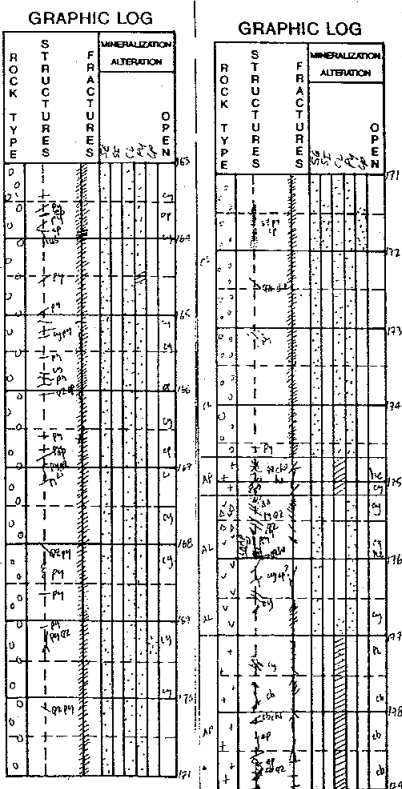
R 12900 13050 CHLORITE ZONE WITH WELL DEVELOPED QS ENVELOPES AROUND RUSTED PY



R				VEINS +/- QTZ. ROCK CONTAINS BLACK PHENOCRYSTS, POSSIBLY DACITIC COMPANION.	
D	13000	13300	87 X	241	
L			30R3	1301	220
R	13030	13040	COPPER WITH CUPRITE ON FRACTURES, SOME LI.		
D	13300	13600	92 X	022	
L			43R3	1332	220
R	13370	13400	LARGE FRACTURE PARALLEL CA. WITH VERY BLACK-PURPLE COATING.		
R	13420	13455	LARGE QTZ VEIN WITH CB INFILL. AT BOTTOM CONTACT HAVE LARGE 5-10 CM MASSIVE PY-CP VEIN SOME TT AND BN. CP, BN, TT ALL <1%		
R	13500	13501	BEGINNING OF HIGH SILICIFICATION- QTZ VEIN AREA.		
D	13600	13900	100 X	142	
L			67R4	1362	122
R	13770	13900	QTZ RICH ZONE, ABUNDANT PY, CP +/-BN; CB AS INFILL IN QTZ. QTZ-CB VEINS SOMEWHAT IRREGULAR.		
D	13900	14200	100 X	131	CU
L			50R4	1393	221
R	13985	14000	LARGE PY-CP VEIN, NATIVE CU ON FRACTURE SURFACE WITH BLACK MINERAL. MINOR EP.		
D	14200	14500	90 X		
L			60R4	1423	222
R	14300	14400	QTZ VEIN? INTENSE SILICIFICATION? ABUNDANT PY-CP IN NETWORK MICROVEINS AND BLEBS. MINOR CB.		
D	14500	14800	80 X		
L			20R4	1454	XXX
R			VEINS		
R	14670	14800	MORE CHLORITE RICH BUT STILL WITH QTZ VEINS. SIMILAR TO APPEARANCE OF RBZN, FLAXY, SERICITE AND CY RICH. HAVE WHITE CY ON FRACTURE SURFACES.		
D	14800	15100	83 X	120	
L			49R3	1484	040
R	15080	15090	LARGE QTZ AREA WITH MICROVEINS OF PY AND CP WITH ORANGE LI ON FRACTURE SURFACES.		
D	15100	15400	97 X	121	
L			53R4	1515	221
R			HEAVILY SILICIFIED INTERVAL, WITH CP, PY POSSIBLY TT OR COVELLITE: FINE GRAINED AND DIFFICULT TO TELL.		
D	15400	15740	95 X	021	
L			42RR4	1545	201
R			FUNNY RUSTY ORANGE LOOK TO INTERVAL DUE TO OXIDATION ALONG FRACTURES IN QTZ.		
R	15580	15590	CONCENTRATION OF QTZ-PY +/- CP. BLACK COATING ON FRACTURE SURFACES, POSSIBLY CHALCOHITE.		
P	15740	15810	86	XMSX	P3 Q= V*V6
L			0R2	1576	220

A001	132.00	135.00	57159	1.260
A001	135.00	138.00	57160	1.230
A001	138.00	141.00	57161	.928
A001	141.00	144.00	57162	1.150
A001	144.00	147.00	57163	.984
A001	147.00	150.00	57164	1.060
A001	150.00	153.00	57165	1.590
A001	153.00	156.00	57166	1.310
A001	156.00	158.10	57167	1.300





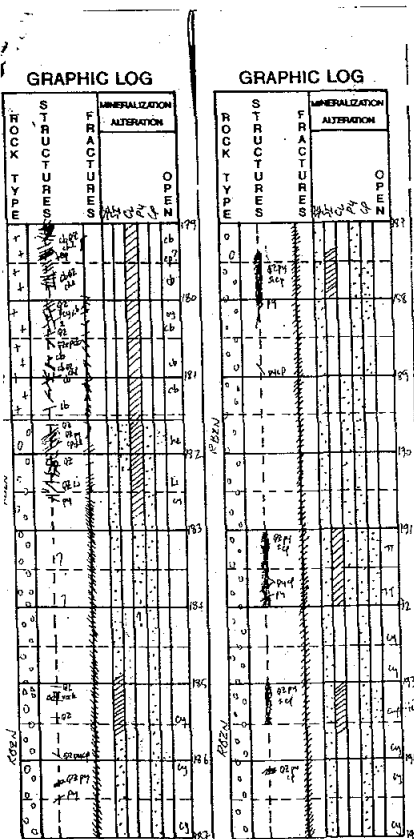
R MASSIVE PY +/- CP. ALTERED COUNTRY ROCK IS HEAVILY SERICITIZED
 R PROBABLY BELONGS TO SERICITE UNIT BELOW. SOME VUGGINES AND
 R INFILL BY HARD, OLIVE GREEN SUBSTANCE, POSSIBLY CB.
 P 15810 16010 95 XRBZN 120 P1P2 (<*D) <*<= CC
 L OR2 XXX P1 <*) D)
 R LIGHT GREY, FRACTURED, WHITE CY ON FRACTURE PLANES. QUITE HARD,
 R SILICIFIED. FRACTURES DO NOT PRODUCE FLAKES, BUT BLOCKS. NOT
 R ENOUGH SERICITE FOR THAT. PY DISSEMINATED AND IN MICROVEINS
 R WITH ASSOCIATED CP. CC FOUND IN HIGHLY BLEACHED ZONES,
 R DISSEMINATED OR IN TINY MICROVEINS. QTZ VEINS ARE VUGGY, SOME LI
 R SOME ASSOCIATED EP.

P 16010 17470 CLXRBZN P1 P1<*D= B*<*) TT
 L E) P1 <*) D)
 R VERY FRACTURED, BLOCKY TO MORE FLAKY AT END. GREY GREN,
 R GENERALLY CHLORITE RICH, SOME MORE SERICITIC, WELL DEVELOPED
 R QS ENVELOPES ON PY VEINS IN CHLORITE RICH AREAS. QTZ AND QTZ-PY
 R VEINS COMMON, NO ORIENTATION POSSIBLE. INTERVAL IS NOT SO
 R MICACEOUS AND FLAKY AS OTHER RUBBLE ZONES. FOLIATION NOT SO
 R DOMINANT. QTZ VEINS END SILICIFIED AREAS AS IN SI TUFF ALSO
 R PRESENT. PY ASSOCIATED SUB-EUHEDRAL DISSEMINATIONS WITH TT,
 R SOME CP. PY ALSO AS VEINS. ROCK COMPOSITION VARIES FROM MAFIC
 R DACITIC WITH BLACK PHENOCRYSTS, TO MORE FELSIC TUFF.

A001	158.10	161.00	57168	.864	.240
A001	161.00	164.00	57169	.372	.220
A001	164.00	167.00	57170	.408	.180
A001	167.00	170.00	57171	.436	.200
A001	170.00	174.00	57172	.668	.250

D 16010 16300 88 X
 L 0 1606 XXX
 D 16300 16600 77 X
 L OR2 1637 XXX
 R 16450 16460 PY VEIN, GRANULAT, HEAVY, EUHEDRAL CRYSTALS, LITTLE CP
 D 16600 16900 79 X
 L OR2 1667 XXX
 R 16740 17470 VERY CHLORITE RICH, RESEMBLES MORE STD RUBLE ZONE. BRECCIATED
 R QTZ VEINS MORE COMMON. WHITE CY ON SURFACES COMMON, CP MORE
 R COMMON (STILL <1%)
 D 16900 17200 80 X
 L OR2 1698 XXX
 R 17140 17665 SILICIFIED ZONE WITH BRECCIATED QTZ VEIN WITH PY, CP.
 D 17200 17470 52 X
 L OR2 1728 XXX
 R MOSTLY FINE PIECES, NOT MUCH TO GRAPH. CHORITE RICH.

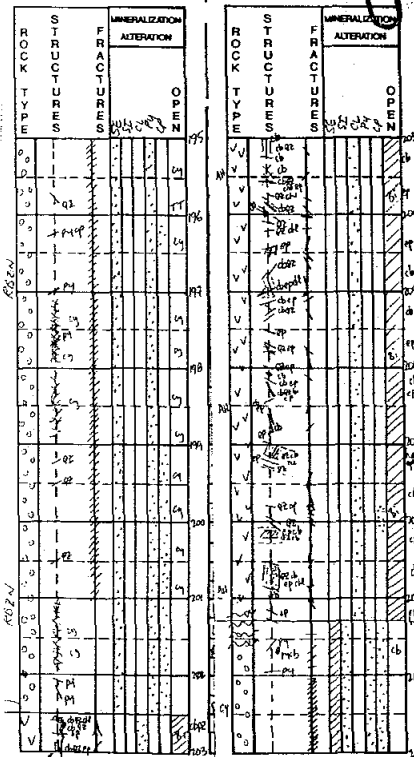
P 17470 18160 8LAAP P3<*) CL
 L <= <*<=
 R DARK GREEN, VERY FINE GRAINED, NO STRUCTURES. ABUNDANT QTZ-CHL-
 R WHITE CB VEINS; ANGULAR, X CUTTING EACH OTHER. VUGGY QTZ-EP +/-
 R CB VEINS LESS COMMON BUT IN MORE FRACTURED AREAS. HE HAS
 R MICROVEINS IN FIRST 1 M OF INTERVAL.
 D 17470 17520 70 X HECL



L OR3 111 <1 <=>V2
 N 17520 17700 89ALXTUFF P= <=>
 L 14R2 1759 <2
 R LIGHT BROWN GREY TUFF, ALTERED WITH ABUNDANT BEIGE-BROWN MICRO-
 R VEINS AND DISSEMINATED THROUGHOUT. DISRUPTED SUBHEDRAL PY VEINS
 R -5% BROWN MATERIAL RELATIVELY HARD- MAY BE EP? NOT CY? DUNNOI
 R LARGER VEINS ARE SOMEWHAT VUGGY.
 R 17570 17590 SHOWS CONTACT WITH LAAP. PARALLEL CA., SHARP, WITH BRECCIATED
 R QTZ INFILLED WITH BEIGE MATERIAL. HE CONCENTRATED IN MICRO-
 R VEINS IN LAAP, LAAP VERY FRACTURED, TUFF VERY ALTERED AND MESSED
 R UP.
 D 17700 18160 65 X 222
 L 29R5 1789 221
 R BLACK SHINY COATINGS ON FRACTURE SURFACES.
 R 17880 17881 CB-QTZ VEIN WITH CHL AND ODD RED MINERAL AS BLEBS THROUGHOUT
 R VEIN. A001 174.00 177.00 57173 .524 .250
 R A001 177.00 181.00 57174 .027 .020
 R 17890 17940 HIGH CONCENTRATION OF CB-QTZ-CHL VEINING ON PATCH. LITTLE
 R MINERALIZATION. SOME APPLE GREEN EP? IN CENTRE OF QTZ-CB VEIN
 R AT 60 DEGREES. A001 181.00 185.00 57175 .792 .260
 R A001 185.00 187.00 57176 .976 .330
 R A001 187.00 190.00 57177 1.230 .400
 R A001 190.00 193.00 57178 1.360 .540
 R 18060 18061 QTZ-EP +/- CB VEIN, FRACTURE SURFACES HAVE RED COATING, MINOR.
 P 18160 20250 RBZN P2 P= D= B.<V
 L <1 V=
 R BLOCKY TO FLAKY, GENERALLY BROWN COLOUR WITH EXTENSIVE CY
 R VEINING THROUGHOUT. SERICITIZED. QTZ IN BRECCIATED VEINS,
 R IRREGULAR, WITH CP, PY, CHL. PY ALSO IN INDIVIDUAL VEINS, NO
 R ORIENTATION DISCERNABLE. PROBABLE ALTERED TUFF, RESEMBLES
 R ALTUFF AT (175.20-177.0). ALTERATION CHANGES QUICKLY. ALTERATION
 R GENERALLY SERICITIC WITH CY. MINOR CHLORITIZED AREAS.
 D 18160 18500 44 X P3 HELI
 L 7R3 1820 XXX <.C)
 R SLIGHTLY MORE COMPETENT ZONE, CHLORITE RICH WITH ERRATIC QTZ
 R VEINS THROUGHOUT. GRADES QUICKLY TO MORE BROWN ALTERED TUFF.
 R LOST MUCH CORE BETWEEN 182.7 AND 184.8 M
 D 18600 18900 86 X
 L OR2 1881 XXX
 R 18520 18535 VERY ODD ROCK: GREEN, CANNOT FIND FRESH SURFACE, ALWAYS
 R POCKMARKED AND LUMPY WITH CY COATINGS, GOOD EUHEDRAL BIOTITE
 R FLAKES UP TO 0.3 CM. SOME SPARKLY STUFF: MAY BE MINERALIZATION
 R OR MICACEOUS MATERIAL. ROCK IS RELATIVELY COMPETENT IN RBZN.
 R 18740 18830 SILICIFIED ZONE, LARGE QTZ VEIN? CP, PY
 D 18900 19200 35 X
 L OR2 XXX
 R VERY JUMBLED, POOR RECOVERY, SOFT, FLAKY, SLIGHTLY MORE
 R CHLORITE RICH.
 R 19100 19200 VERY SILICIFIED WITH ABUNDANT PY-CP MICROVEINS. SOME TENNANTITE

GRAPHIC LOG

GRAPHIC LOG



R ASSOCIATED WITH PY VEINS.
D 19200 19500 67 X
L OR2 1942 XXX
R 19300 19350 SILICIFIED ZONE WITH PY, CP POSSIBLY SOME CUPRITE. MAY JUST BE
R HEMATITE.
D 19500 19800 43 X
L OR2 1972 XXX
R 19750 20250 BECOMES MORE COMPETENT, BLOCKY. BROWNISH COLOUR, SIMILAR TO
R ALTUFF (THIS HOLE)
D 19800 20250 71 X
L OR3 2003 XXX
P 20250 20930 MXXTFAH P)(<) BICL
L <+ P3<*<+
R VERY FINE GRAINED, UNIFORM TEXTURE, PURPLE HUE ->SECONDARY
R BIOTITE. OCCASIONAL FRAGMENTS UP TO 0.5 CM; <1% OF ROCK. PURPLE
R BIOTITE ALSO PRODUCES SMALL NETWORK OF MICROVEINS THROUGHOUT
R ROCK. ANGULAR, XCUTTING. ROCK XCUT BY ABUNDANT QTZ-WHITE CB-CHL
R VEINS AND PATCHES. LARGER VEINS CONTAIN PINK CB AND EP. LARGE
R QTZ-CB-CHL AREAS. ALSO HAVE EXTENSIVE BLEACHED ZONES PRODUCING
R LIGHT GREEN COLOUR. TEXTURES AND BI MICROVEINS REMAIN. UPPER
R CONTACT WITH RBZN IS SHARP, BOTOM CONTACT WITH FOLIATED TUFF IS
R SHARP WITH LITTLE ALTERATION. SOME VEINS LOOK LIKE TENSION
R GASHES. SPECULAR HEMATITE AS ACICULAR, LATHE CRYSTALS IN LARGER
R QTZ-CB VEINS.
D 20250 20550 100 X 222
L 58R3 2033 221
D 20550 20930 89 X 121
L 47R3 2064 220
R 20700 20730 EXTENSIVELY BLEACHED ZONE ADJACENT TO LARGE QTZ-CB-CHL VEIN WITH
R SPECULAR HEMATITE CRYSTALS AT THE BORDER OF THE VEIN WITH CB.
R SOME EP ASSOCIATED WITH VEIN.
R 20770 20800 FRACTURED AREA WITH 1 CM QTZ VEIN IN RUBBLE WITH CP BLEBS. 2% OF
R VEIN. SMALLER VEINS IN AREA ALSO HAVE CP.
R 20825 20880 BLEACHED AREA, LARGE PATCH OF QTZ-CB-CHL. SOME BLACK OPAQUE
R MINERAL PRESENT IN VEIN, UNKNOWN.
P 20930 22180 CY RBZN P3 D= D*(<?
L R1 P3 <=
R CHARACTERISTIC YELLOW RUBBLE ZONE. VERY FRACTURED, CLAY COATED.
R PY AND CP MAINLY DISSEMINATED AND AS LOOSE FRAGMENTS IN THE
R RUBBLE. LITTLE STRUCTURES, FEATURES CAN BE SEEN. COMPETENT
R PIECES DISPLAY NO TO STRONG FOLIATION, ABUNDANT PY, QTZ, AND CB
R VEINING, SOME SILICIFICATION. ROCK SIMILAR TO ALTUFF AND TUFF
R BOUND IN ASHTUFF.
D 20930 21400 50 X
L 8R2 2124 XXX

A001	193.00	196.00	57179	1.190	.520
A001	196.00	199.00	57180	1.280 1.2400	.590
A001	199.00	202.50	57181	1.390	.780
A001	202.50	205.50	57182	.024	.040
A001	205.50	209.30	57183	.052	.040
A001	209.30	214.00	57184	.748	.250

D 21400 21700 67 X
 L OR1 2155 XXX
 D 21700 22180 71 X
 L OR1 2186 XXX
 P 22180 23510 SE RBZN P3 D= D)<) TT
 L P3 <)<1 D)

LIGHT GREY, FLAKY, CY RICH, BUT NO YELLOW CY PRESENT. SOME SILICIFIED ZONES THAT ARE BRECCIATED AND INFILLED WITH CY. VERY CRUMBLY. PY AND TT, CP DISSEMINATED THROUGHOUT, POSSIBLY SOME COVELLITE, CP UP TO 5% OF RUBBLE. ALTERATION INTENSE SERICITIZATION, SOME AREAS CONTAIN MINOR CHLORITE ALTERATION, MORE COMPETENT ROCK RESEMBLES SETFXL, MINOR BLUE CY ALTERATION- OF WHAT, I DON'T KNOW!

D 22180 22500 67 X
 L OR1 2246 XXX
 D 22500 22800 73 X
 L OR1 2277 XXX
 R 22500 22560 SILICIFIED? ZONE: BRECCIATED WITH CY INFILL. CRUMBLY. TENNANTITE ON SURFACES, DISSEMINATED.
 D 22800 23100 77 X
 L OR1 2307 XXX
 D 23100 23510 87 X
 L OR1 2338 XXX

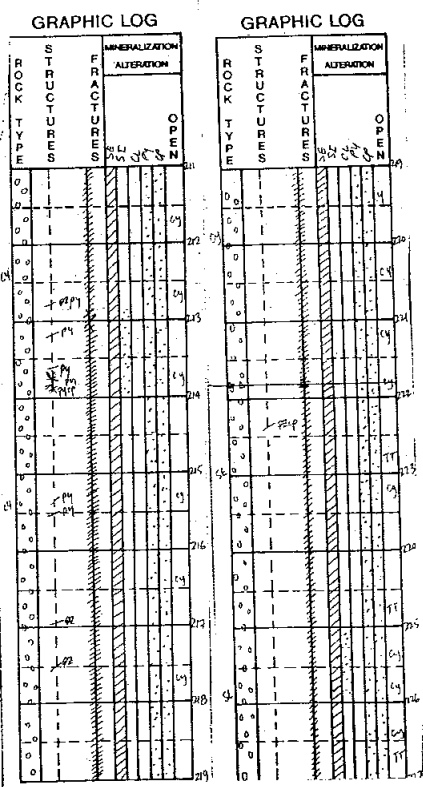
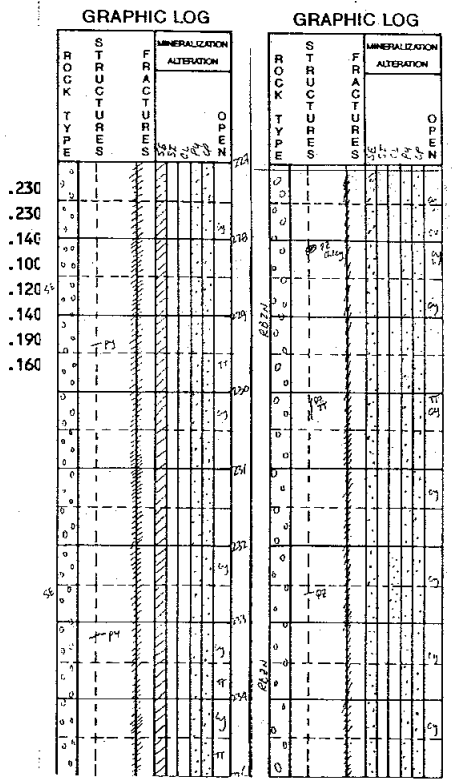
MORE COMPETENT SECTIONS SHOW ABOUT 10% VERY FINE DISSEMINATED PY AND CP. MINOR CHL ALTERATION.

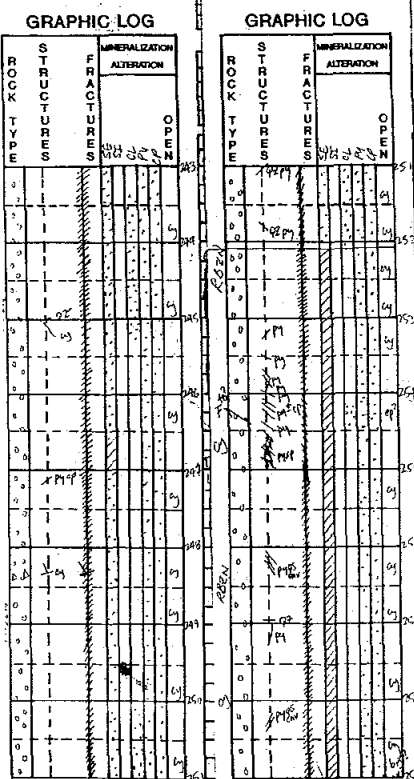
R 23400 23510 MINOR PYROPHYLLITE IN RUBBLE, SLIGHT YELLOW COLOUR.
 P 23510 25210 RBZN P2P)= D= D) CVTT
 L P2 <) D.D*

SLIGHTLY MORE YELLOW, LESS CLAY, MORE BLOCKY. MINOR PERVASIVE CHLORITE ALTERATION. MORE COMPETENT PIECES SHOW DISRUPTED, IRREGULAR QTZ VEINS LOOK LIKE CB-QTZ VEINS WITH CB TURNED TO CY. SOME FRAGMENTS VISIBLE WITH PY-CHL ALTERATION THEREFORE ORIGINAL ROCK PROBABLY TFLP. ROCK TYPE CHANGES WITHIN INTERVAL; MORE CRYSTALLINE WITH PHENOCRYSTS FROM 251 TO 252, ALL HEAVILY SERICITIZED, SOME SILICIFIED. QTZ VEINS WITH CP-PY-TT POSSIBLY NOT SO ABUNDANT IN THIS INTERVAL. NOT SO MUCH WHITE CY AS INTERVAL (221.80-235.10), FRACTURES TEND TO BE MEDIUM TO SMALL ANGLE TO CA. ESPECIALLY (235-242). PY MAINLY DISSEMINATED, SUB-EUHEDRAL WITH ASSOCIATED CP.

D 23510 23800 80 X
 L OR2 2368 XXX
 R 23660 23661 POSSIBLY CUPRITE OR HEMATITE AS GRANULAR MASS ON FRACTURE SURFACE. COVELLITE OR TENNANTITE (DEEP SHINY BLUE) ON FRACTURE SURFACES.
 D 23800 24100 93 X

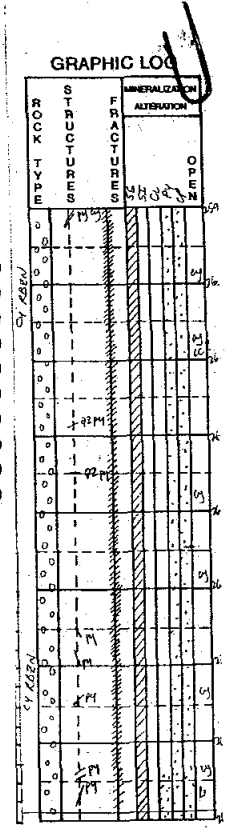
A001	214.00	217.00	57185	.672
A001	217.00	220.00	57186	.620
A001	220.00	224.00	57187	.624
A001	224.00	227.00	57188	.287
A001	227.00	230.00	57189	.624
A001	230.00	233.00	57190	.600
A001	233.00	235.00	57191	.528
A001	235.00	238.00	57192	.572



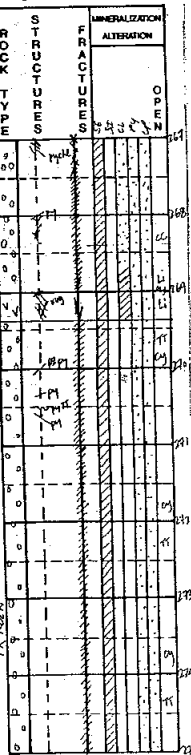


L OR2 2399 XXX
D 24100 24400 77 X
L OR2 2429 XXX
D 24400 24700 53 X
L OR2 2460 XXX
R MINOR GREEN CY AS BLEBS THROUGHOUT INTERVAL.
R 24600 24700 LOST CORE?
R 24400 24600 SOME CHLORITIZATION, ABUNDANT (1%) CP DISSEMINATED THROUGHOUT.
R SOME SEGMENTS HARD, POSSIBLY SOME SILICIFICATION? MAY JUST BE
R LESS CY ALTERATION.
D 24700 25210 63 X
L OR2 2490 XXX P3
R 25000 25210 ROCK MORE CRYSTALLINE, COMPETENT, FRACTURES GENERALLY SMALL TO
R MEDIUM, ALONG FOLIATION PLANES PY AND CHL CLUSTERED AS
R ALTERATION AROUND FRAGMENTS.
P 25210 26940 CYBRBZN P3 D= D* <=
L E+ P3
R VERY JUMBLED, CY RICH, MAINLY WHITE CY ALTHOUGH SOME YELLOW CY
R EXISTS. MORE COMPETENT AREAS SHOW GOOD FOLIATION WITH ABUNDANT
R (UP TO 10%) PY VEINS WITH QS ENVELOPES, SOME YELLOW PERSASIVE
R CY ALTERATION. ORIGINAL ROCK MAY BE CY-TFLP OR TFXL. PY SUB-
R EUHEDRAL, LITTLE QTZ. SOME VUGGY AREAS SUGGESTING LEACHING,
R POSSIBLY CB? VERY LITTLE CP SEEN, DIFFICULT TO DISTINGUISH FROM
R PY. IN SMALL BLEBS DISSEMINATED ALONG FOLIATION. FEW OTHER CU
R MINERALS SEEN.
D 25210 25500 93 X
L OR1 2521 XXX
R 25350 25600 SLIGHTLY MORE COMPETENT, FOLIATION AND VEIN ATTITUDE PRESENT.
R SOME CHL ALTERATION ASSOCIATED WITH PY VEINS. POSSIBLY SOME
R OLIVE GREEN EPIDOTE WITH VEINS AS WELL.
D 25500 25800 80 X
L OR1 2551 XXX
R 25900 25901 CU MINERAL ASSOCIATED WITH PY? BLUISH TO TARNISHED. POSSIBLY
R COVELLITE? BORNITE? IN VERY CY RICH WHITE AREA.
D 25800 26100 80 X
L OR1 2582 XXX
R 26090 26091 POSSIBLY SOME CC COATING PY
D 26100 26400 70 X
L OR1 2612 XXX
R MOST FRACTURES <30 DEGREES TO C.A., FLAKY.
R 26250 26430 VERY CY RICH WITH SUB-EUHEDRAL LOOSE PY. WHITE CY ABUNDANT.
D 26400 26690 86 X
L OR1 2643 XXX
R 26630 26690 MORE COMPETENT, SOME CHL ALTERATION WITH PY MICROVEINS. VEINS
R IRREGULAR, XCUT FOLIATION. ABUNDANT SE AND CY ALTERATION. SOME

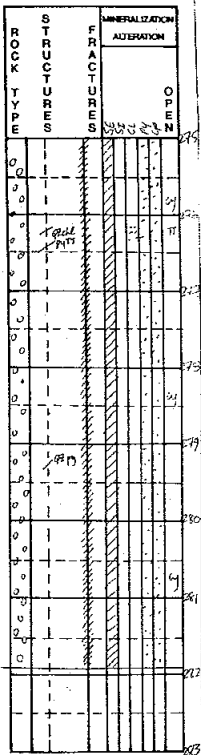
A001 238.00 241.00 57193	.520
A001 241.00 244.00 57194	.516
A001 244.00 247.00 57195	.271
A001 247.00 250.00 57196	.122
A001 250.00 253.00 57197	.176
A001 253.00 256.00 57198	.281
A001 256.00 259.00 57199	.408
A001 259.00 262.00 57200	.269
A001 262.00 265.00 57201	.209
A001 265.00 268.00 57202	.281



GRAPHIC LOG



GRAPHIC LOG



R ORANGE LI STAINS ASSOCIATED WITH PY. MAY BE JA, NOT LI.
 N 26690 26940 67CL9RBZM P3 P2 D= D.<= CC
 L OR1 2673 P2 C*

R HEAVILY FOLIATED, FRACTURED, GREEN TO GREEN YELLOW COLOUR.
 R CHLORITE ALTERATION INCREASES WITH DEPTH. LI (ORANGE) ON
 R FRACTURE SURFACES PROMINENT AT BOTTOM WITH DECREASING CY.
 R PY MAINLY DISSEMINATED AND AS MICROVEINS WITH ASSOCIATED CP
 R DISSEMINATED AND IN VEINS.

R 26900 26940 SMALL DYKE? APHANITIC LATITE? MEDIUM GREEN, MASSIVE, FINE
 R GRAINED. SOME BLEACHING ALONG FRACTURES. MAY ALSO BE ASH
 R TUFF. SOME SMALL SPECKS SUGGEST TUFF- EITHER PHENOCRYSTS OR
 R FRAGMENTS. LITTLE MINERALIZATION.

P 26940 28190 PRXRZBZM P3 <* D=LI D.<1 TT
 L P3 C* < > D*

R VERY YELLOW, INTENSELY FRACTURED. MANY FRACTURES XCUT FOLIATION
 R AND ARE PARALLEL C.A. PY BOTH VEIN AND DISSEMINATED
 R APPROXIMATELY 15-20% OF ROCK, SUB-EUHEDRAL. BLUISH MINERAL:
 R TENNANTITE? DISSEMINATED IN QTZ RICH ZONES WITH CP. GIVE BLUISH
 R TINT TO AREAS. ORIGINAL ROCK PROBABLY CY-TFLP. SOME LI STAINS
 R ASSOCIATED WITH QTZ AND PY.

D 26940 27300 36 X
 L OR1 2704 XXX

D 27300 27600 30 X
 L OR1 2734

R 27600 27650 LARGE QTZ-CHL VEIN, SLIGHTLY MORE COMPETENT. ASSOCIATED PY, TT
 D 27600 27900 23 X
 L OR1 2765 XXX

D 27900 28190 24 X
 L OR1 2800 XXX

A001 268.00 271.00 57203 .251 .090
 A001 271.00 276.00 57204 .211 .090
 A001 276.00 281.90 57205 .404 .110

The A005 assay sets are selected
 composites based on copper grades
 and geology

	From	To	Length	Cu %	Au g/t
A005	3.00	9.10	6.10	.007	.222
A005	9.10	21.50	12.40	.159	.221
A005	21.50	59.05	37.55	.065	.025
A005	59.05	66.00	6.95	.181	.048
A005	66.00	108.00	42.00	.046	.059
A005	108.00	117.90	9.90	.186	.125
A005	117.90	158.10	40.20	1.125	.518
A005	158.10	185.00	26.90	.508	.199
A005	185.00	202.50	17.50	1.257	.545

A005	202.50	244.00	41.50	.496	.171
A005	244.00	281.90	37.90	.270	.147
/END					

IDEN6B0201 KERR KS-072BQWL11AUG90WKH JTTAUG90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 4000MT 73.10090.00-70.00 9617.00 9913.00 1591.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM GSCBKFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM

S001 4000 7310 73.10090.00-70.00
 A003

ALUMM MAG

P 000 2900 OVBD

L

P 2900 3735 CL TUFF

P= P3 D1

L

R DARK GREEN, OXIDIZED IN PLACES, FINE GRAINED UNIT WITH A SUGARY
 R TEXTURE. BLOCKY. POOR CORE RECOVERY. VERY PROMINENT CHLORITIC
 R ALTERATION. PY VERY ABUNDANT AT THE BOTTOM OF THE UNIT AND
 R SCATTERED THROUGHOUT THE REST OF THE UNIT. SMALL FAULT WITH
 R GOUGE AT 34.00. UNIT HAS ACRACKLED LOOK IN PLACES.

From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Ag ppm	Pb ppm	Zn ppm
			(dupl)		(dupl)			

A001	29.00	33.50	57704	.800	.450			
A001	33.50	37.35	57705	1.060	.330			
A001	37.35	42.70	57706	1.270	.310			
A001	42.70	54.20	57707	1.060	1.0900	.210		

N 3175 3335 XMCOR

L

D 2900 3350 64 X 110

L 33R2 335 121

D 3350 3735 58 X 020

L 12R2 366 333

N 3500 3660 XMCOR

L

P 3735 5420 CLXRBZN

P1 P3 D2 CC

L

D)

R SAME UNIT AS PREVIOUS EXCEPT NOW IT HAS BEEN REDUCED TO RUBBLE.
 R SERICITE CONTENT INCREASES SLIGHTLY. PY VERY ABUNDANT AS
 R DISSEMINATED CRYSTALS. VERY MINOR CHALCOCITE SEEN. VERY POOR
 R CORE RECOVERY THROUGHOUT THE WHOLE INTERVAL.

D 3735 4270 35 X 000

L OR2 396 XXX

D 4270 5420 23 X 000

L OR2 457 XXX

P 5420 6755 SEXTUFF

P3 D2 CCTA

L

P1 D)C(

R TUFF UNIT WITH ABUNDANT SERICITIC AND PYRRHOLLITIC ALTERATION.
 R UNIT IS VERY ALTERED AND HAS A SUGARY TEXTURE. FOLIATION
 R PROMINENT AT 55 DEGREES. BLOCKY. UNIT IS A LIGHT YELLOWISH GREY
 R IN COLOUR. CLAY OCCURS IN PATCHES. PALE GREEN TALC OCCURS ALONG
 R SOME FRACTURES. PY IS ABUNDANT AND OCCURS AS DISSEMINATED
 R CRYSTALS THROUGHOUT. CHALCOCITE OCCURS AS VERY SMALL

R DISSEMINATED CRYSTALS.

D	5420	5720	98	X	000
L			13R2	549	666
D	5720	6020	96	X	000
L			39R2	579	555
D	6020	6320	83	X	000
L			0R2	610	777
D	6320	6490	95	X	000
L			12R2	640	777
N	6710	6745		XMCOR	
L					
D	6490	6755	75	X	000
L			9R2	671	555
P	6755	7310	47	XLAAP	200
L			22R3	701	110

A001	54.20	57.20	57708	.976	.120
A001	57.20	60.20	57709	.768	.150
A001	60.20	63.20	57710	.110	.160
A001	63.20	64.90	57711	.156	.080
A001	64.90	67.55	57721	.318	.420
A001	68.60	73.10	57722	.068	.010

L=

V2

R DARK GRREN TO GREENISH BLACK UNIT. MASSIVE. BLOCKY. SLIGHTLY
R MAGNETIC. UNIT HAS BEEN INTRUDED BY NUMEROUS QTZ VEINS (WITH
R ASSOCIATED CHLORITE). THE QTZ IS VERY VUGGY AND THE VUGS ARE
R COATED WITH JAROSITE. THE UNIT IS VEINED PROBABLY DUE TO ITS
R BRITTLE NATURE. THE LAAP IS BLEACHED NEAR THE QTZ VEINS.

A003 6860 7310 280

R HOLE ABANDONED DUE TO DRILLING DIFFICULTIES.

The A005 assay sets are selected
composites based on copper grades
and geology

	From	To	Length	Cu %	Au g/t
A005	29.00	60.20	31.20	1.022	.262
A005	60.20	73.10	12.90	.147	.150

/END

IDEN680201 KERR KS-073BQWL00AUG90CCC JTTAU690600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 5000MT 198.10090.00-60.00 9523.00 9862.00 1573.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM

S001 5000 14900 198.10080.00-64.00
 S002 14900 19810 198.10080.00-63.00

A003
 ALMM MAG

P 000 1680 OVBD

R OVERBURDEN-CASING 0.0-22.9 M

P 1680 2125 8KA TUFF TA <+

L OR2 H=

R 0.20 M RECOVERED, FINE GRAINED, EQUIGRANULAR, FINELY FOLIATED,
 R QTZ AND PY VEIN AND PY MICROVEINS TOP OF HOLE. STRONG OXIDE
 R STAINED, CLAY ALTERED ROCK, PITTED, LIMONITE MICROVEINS, QTZ
 R VEIN- STRONGLY FRACTURED- VERY FINE HAIR LINE FRACTURES. PYRITE
 R AND VERY FINE SULPHIDE INFILLING. SILICEOUS ROCK, MAY BE
 R BOULDERS?

N 1830 2125 XMCOR

P 2125 2740 SE TFXL P3P <+ TACC

L G) V) H*(<)

R FINE GRAINED, MODERATELY TO STRONGLY SHEARED CRYSTAL TUFF?
 R MODERATE TO INTENSE SERICITIZATION WITH CLAY AND TALC
 R DEVELOPMENT, UNIFORM, POORLY FOLIATED. CORE IS LEACHED IN
 R SECTIONS ADJACENT TO SHEAR OR FAULT ZONES WHERE THERE IS STRONG
 R ARGILLIC CLAY DEVELOPED. RELICT TEXTURES GENERALLY LOST. PYRITE
 R IS DISSEMINATED, AND COMMONLY ALIGNED ALONG FOLIATION PLANES,
 R WITH TRACE AMOUNT OF CC - PYRITE COMMON AS MICROVEINS +/-QTZ-
 R SERICITE ENVELOPES. STRONGLY SERICITIZED ZONES LACK VISIBLE
 R SULPHIDES. PALE GREEN TO LIGHT GREY IN COLOUR.

R 2250 2290LIMONITE STAINED FRACTURES TO PERVASIVE STAINING OF CORE,
 R OXIDIZED CLAY COATING ON FRACTURES, OXIDE FRONT AT 22.60 M

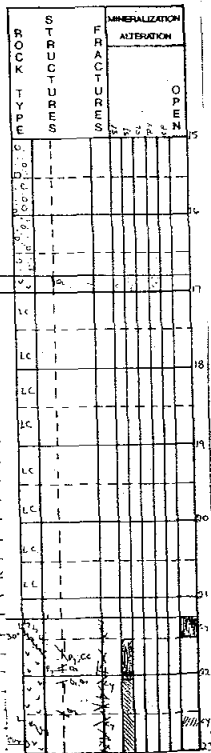
R 2320 2330CROSS-CUTTING QTZ-LIMONITE STAINED VEINS. VUGGY TEXTURE.
 R DISSOLUTION, MINOR YELLOW OCHRE JAROSITE; MINOR PYRITE APPEARS.

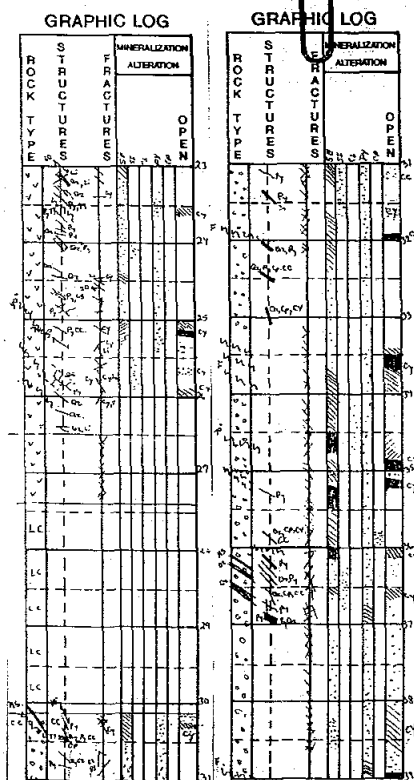
R 2180 2350PALE GREEN BLEACHED CORE.

D 2350 2610 X P1 D*CC B <= TA
 L E+ < <+ V) H+

R 2400 2405QTZ VEINS, FINE FRACTURE INFILLING WITH BLACK VERY FINE.
 R QTZ VEINS PARALLEL FOLIATION, CRACKLE TEXTURE, BLACK VERY FINE
 R GRAINED SULPHIDE AND PYRITE INFILLING.

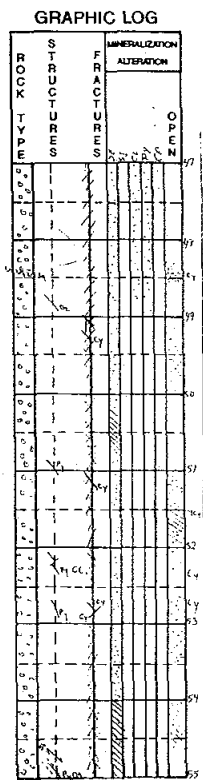
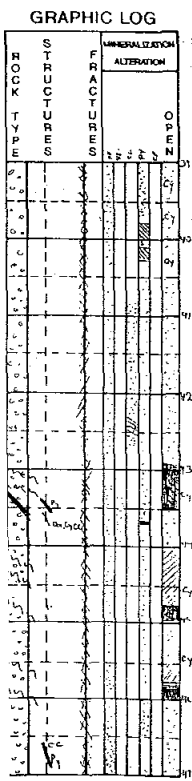
GRAPHIC LOG





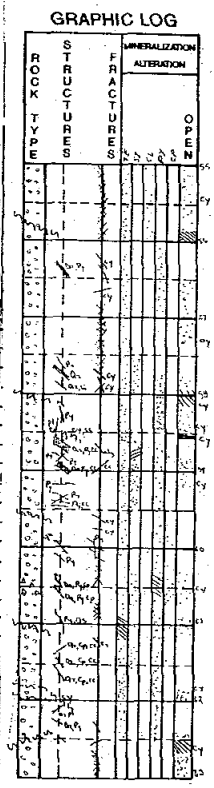
- R 2438 2445SERIES OF YELLOW/TAN CLAY INFILLED FRACTURES- LEACHED CORE,
R SERICITE RICH ENVELOPE.
- R 2510 2530FAULT, STRONG CLAY GOUGE, TOP CONTACT SHEAR AT 35 DEGREES CA.
R LOWER CONTACT AT 45 DEGREES CA.
- R 2570 2590 SL. SILICEOUS, FINE PYRITE MICROVEINS WITH FEEDER VEINS- WELL
R DEFINED QTZ- SERICITE ENVELOPE.
- R 2590 2595FRACTURE/SHEAR, CLAY COATED FRACTURE AND CLAY ALTERATION OF CORE
R CLAY PALE YELLOW IN COLOUR, LEACHED ZONE AROUND FRACTURE AND QTZ
R VEIN TO 26.00 M
- R 2615 2640BLEACHED ZONES OF CORE, 26.15-26.25 AND 26.30-26.40
- D 1680 2125 36 X
L 5R2 183
R FOOTAGE MARKS 21.3 M
- D 2440 2740 63 X
L 13R2 244
P 2740 7140 SE RBZN P5 Q) D+CV B*< CC
L P2 T* V)V=< >
- R STRONG SERICITIZED ROCK, RUBBLE TO CLAY RICH GOUGE, VERY WEAK
R COMPETENT TO COARSE GRAVEL OR FINER PARTICLES. GENERALLY CLAY
R WITH COARSE GRAINED QTZ. WHITE GREY TO PALE WHITE GREEN. WHERE
R EVIDENT, HIGHLY CONVOLUTED FOLIATION. QTZ VEINS AND SMALL SILICA
R RICH ZONE GENERALLY MORE COMPETENT. PYRITE PRESENT ASSOCIATED
R WITH QTZ VEINS AND AS MICROVEINS. MODE OF OCCURRENCE NOT KNOWN
R FROM 'GOUGE', THROUGH VERY PYRITE RICH BANDS ARE NOTICEABLE.
R CPY PRESENT AS IRREGULAR 'BLEBS' WITHIN QTZ VEINS- GENERALLY
R LACKING PYRITE. ASSOCIATED WITH BLACK-BLUE TINTED TARNISH-
R COVELLITE? FINE BLACK CRYSTALS TO IRREGULAR STAIN GENERALLY IN
R MICROFRACTURE WITH PYRITE OR ON FOLIATION PLANES, MAY BE
R CHALCOCLITE? QTZ-WHITE BULL QTZ, MASSIVE, ASSOCIATED WITH CPY AND
R QTZ VEINS HIGHLY FRACTURED 'NETWORK' PATTERN WITH BLACK
R INFILLING. VERY FINE GRAINED SULPHIDES OR CC?
- R 3150 3170QTZ VEINS, CRACKLE FRACTURING WITH PYRITE, WEAKLY SILICITIZED
R CORE.
- R 3250 3252QTZ WITH ~15% PYRITE AND DISSEMINATED CPY AND CHALCOCLITE.
- N 2740 3010 XMCR
- D 2740 3340 25 X
L OR1 274 XXX
R POOR RECOVERY-FOOTAGE MARKERS 30.5
- R 3500 3530FAULT, GREY/GREEN, SERICITE RICH, BORDERS TO CLAY GOUGE. QTZ
R GRAINS TO 2.0 MM. LOWER CONTACT SHARP AT 25 DEGREES CA.
- R 3585 3590QTZ VEIN, PY AND CV + CC
- D 3340 3640 40 X
L OR1 335 XXX
- R 3700 4040POOR RECOVERY, CORE IS SLIGHTLY RUBBLY, GENERALLY BROKEN DOWN TO

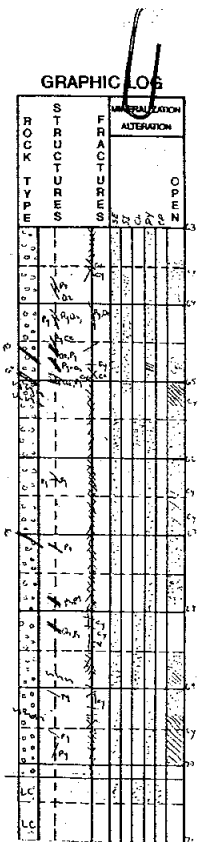
	From	To	Sample	Cu %	Cu % Au g/t Au g/t Ag ppm Pb ppm Zn ppm
				(dupl)	(dupl)
	A001	16.80	24.40	58194	.492 .290
	A001	24.40	27.40	58195	.474 .320
	A001	27.40	33.40	58196	1.660 .240
	A001	33.40	36.40	58197	1.420 .290



R GRITTY CLAY RICH SAND. TO CLAY RICH ZONES DISSEMINATED PYRITE
 R THROUGHOUT, VARIABLE, STRONG PYRITE RICH ZONES AT 39.75 TO 39.90
 R AND AT 40.15 TO 40.25 M
 D 3640 3940 33 X
 L OR1 366 XXX
 D 3940 4240 60 X
 L OR1 396 XXX
 D 4085 5850 58KA4RBZN P= Q) D= (<) CC
 L OR1 P+ D)
 R LIGHT TO MEDIUM GREY TO GREEN GREY IN COLOUR, LOCALLY MEDIUM
 R GRAINED, MOTTLED APPEARANCE; DECREASE IN SERICITE; RUBBLE IS QTZ
 R RICH, PYRITIC AND PATCHY ZONES ARE WEAKLY CHLORITIC. WHITE
 R ARGILLIC CLAY ALTERATION OF GRAINS IS PERSVASIVE BUT GENERALLY
 R WEAK. LOCALLY CLAY RICH GOUGE SHEAR ZONES. CLAY DEVELOPED ON
 R FRACTURE PLANES: GENERALLY POOR RECOVERY: GRAINY TO SUGARY
 R TEXTURE.
 D 4240 4840 66 X
 L OR1 427 XXX
 D 4840 5440 26 X
 L OR1 488 XXX
 R FOOTAGE MARKER 51.80 M
 R 5100 DEVELOPMENT OF YELLOW GREEN CLAY.
 R 5490 VERY POOR RECOVERY ~13%, RUBBLE TO GRAVEL, GROUND
 D 5440 6040 30 X
 L OR2 549 XXX
 R 5600 SERICITE-QTZ-PYRITE +/- CHALCOCITE + PALE BLUE CLAY (HALO?)
 R 5780 SUGARY TEXTURE TO CORE, SILICEOUS, VUGGY TO OPEN SPACE QTZ
 R VEINLET WITH LIMONITE STAIN.
 R 5860 SILICIFIED CORE, BORDERING QTZ VEINS, ~70 DEGREES CA., QTZ
 R CRACKLE TEXTURE, FINE GRAINED SULPHIDES AND CHALCOCITE INFILLING
 R FRACTURES. CONCENTRATION OF SECONDARY PYRITE AT MARGINS WITH
 R CPY INTERGROWN; CHALCOCITE WITH SULPHIDES ON VEIN AND IN FINE
 R LINEATIONS ALONG FOLIATION PLANES. 50 DEGREES CA.
 R 5850 CORE IS FRACTURED AND BLOCKY, MORE COMPETENT, SILICIFIED LOCALLY
 R POOR RECOVERY. WEAKLY ALTERED.
 R 6050 STRONG CRACKLE FRACTURED, QTZ VEIN HEALED BRECCIA, LATE OVERPRINT
 R OF PYRITE-CPY.
 R 6100 STRONG SERICITE, STRONG HEALED ZONE, SERICITE TO MINOR CLAY,
 R WELL DEVELOPED QTZ-SERICITE ENVELOPE ALONG PYRITE.
 D 6040 6340 43 X
 L OR2 610 XXX
 D 6340 6640 58 X
 L OR2 640 XXX
 R 6430 LOCALIZED BX, QTZ HEALED, SILICIFIED.
 R 6450 SILICIFIED, QTZ VEINS AND MASSIVE PYRITE BANDS PARALLEL

A001	36.40	39.40	58198	2.200	2.2000	.440
A001	39.40	42.40	58199	1.530		.530
A001	42.40	48.40	58200	1.610		.530
A001	48.40	54.40	58201	1.800		.600
A001	54.40	60.40	58202	1.460		.410
A001	60.40	63.40	58203	1.580		.390
A001	63.40	66.40	58204	1.210		.290





R FOLIATION -30 DEGREES CA.
D 6640 7140 36 X
L OR3 671 XXX
R 6840 6860 INTRODUCE SOME CHLORITE, MIXED WITH SERICITE ON FOLIATION WITH
R BLUE TARNISH BLACK COVELLITE?
R 6900 6950 WHITE KAOLINITE (ARGILLIC) CLAY ON FRACTURES AND PERSVASIVE,
R MINOR DISSEMINATED PY, GENERAL DECREASE.
N 7015 7140 XMCOR

R SINGLE PIECE OF CHLORITE RICH RUBLE, PYRITIC WITH QTZ VEIN,
R QUITE ROUND, GROUND, FINE GRAINED, CHALCOCITE AND CPY.
P 7140 7263 80FG9TFLP P1Q*P CU
L 45R4 321 (<)

R PALE WHITE TO MEDIUM GREEN, FINE TO VERY FINE GRAINED, GRANULAR
R IN APPEARANCE, SMALL, OVAL SCATTERED LAPILLI; GENERALLY LIGHTER
R GREEN AND APHANITIC, VERY FINE HAIRLINE FRACTURING, OBLIQUE TO
R CORE AXIS (-65). IRREGULAR, WITH HEMATITE INFILLING? (RED BROWN
R STREAK). TOP CONTACT LOST IN RUBBLE, UPPER SECTION BLEACHED TO
R 70.62 M. PALE WHITE GREEN, SHARP CONTACT AT 85 DEGREES CA.
R CONTROLLED BY EXTENT OF FRACTURING. VUGGY QTZ VEINS AT 71.60 +
R 71.63, AT 35 DEGREES AND 40 DEGREES CA. COLUMNAR INTERGROWTH
R OF QTZ AND HEMATITE (EARTHY RED/BROWN STEAK) AT 90 DEGREES CA.
R TO DISSOLUTION IN SECOND VEIN LEAVING LIMONITIC STAINED
R FRAMEWORK QTZ. VERY FINE, IRREGULAR HEMATITIC FRACTURES SUB-
R PARALLEL 90 DEGREES CA. ROCK IS SILICEOUS AT 71.75 TO 72.20.
R FRACTURES SUBPARALLRL TO CA. ARE SILICEOUS-LIMONITIC STAINED
R ORANGE/BROWN. CHLORITE MAY BE ASSOCIATED WITH FRACTURES OR AS
R IRREGULAR PATCHES INFILLING TENSION FRACTURES. NATIVE COPPER
R PRESENT ON FRACTURE PLANE AT 50 DEGREES CA. DENDRITIC CRYSTAL
R UPPER CONTACT SHARP AT 20 DEGREES CA. WITH APHANITIC ANDESITE
R DYKE. COPPER AND OXIDE STAINING ON FRACTURES PARALLEL CA.

A001	66.40	71.40	58205	1.380	.390
A001	71.40	74.40	58206	.616	.440

N 7235 7263 100APXLAAP P3 D)
L OR3
R APHANITIC, DARK GREEN/BLACK, DYKE, FINE CHLORITIC INFILLED
R FRACTURES ASSOCIATED WITH CONTACTS, CHLORITIC FRACTURE PLANES
R WITH OCHRE TO RED BROWN (COPPER?) STAINING. WHITE TALC ON UPPER
R CONTACT WITH TUFF AND MINOR HEMATIC. VERY VERY FINE GRAINED PY
R DISSEMINATED THROUGHOUT.

P 7263 8230 SE TUFF P1Q*Q+ D+ Q*=< CC
L E) <<+V+ D*
R FINE GRAINED, SHEARED TUFF, SHEARED, SERICITE-QTZ-PYRITE.
R LOCALLY CHLORITE AT DEPTH. BROKEN AND BLOCKY, GENERALLY
R COMPETENT, MODERATELY GOOD RECOVERY. WEAKLY FOLIATED. LOCAL
R FRACTURE ZONES, SOME DISPLACEMENT. HEALED, QTZ-PYRITE RICH.
R VUGGY QTZ VEINING THROUGHOUT, +/-LIMONITIC STAINING +/- PYRITE

R PYRITE ALSO PRESENT AS MICROVEINS, OBLIQUE AND SUBPARALLEL TO
R FOLIATION, +/-LIMONITIC STAINING. QTZ- SERICITE ENVELOPES
R COMMON. CHALCOCITE ASSOCIATED WITH CRACKLE FRACTURE QTZ AND PY
R VEINING. LOCALLY FRACTURED ZONES HAVE ASSOCIATED KAOLINITE WITH
R STRONG SERICITE. UPPER CONTACT WITH DYKE SILICIFIED.

D 7263 7440 86 4

L 14R3 732 XXX

R 7320 7322BROKEN CORE, EVIDENCE OF 1 CM WIDE PYRITE BAND, SPACE INFILLING
R COARSE GRAINED PY CRYSTALS SERICITE MARGINS WITH CC (SAME AT
R 73.75)

R 7390 7440CORE IS BECOMING MORE SERICITIC, IN CLAY, (BLEACHED) ALSO MORE
R BROKEN AS APPROACHING 'RUBBLY' ZONE.

R 7440 7480KAOLINITE, BROKEN, RUBBLE, DECREASE IN PYRITE.

R 7480 7620SILICIFIED CORE, LOCALLY FRACTURED WITH PYRITE VEIN INFILLING,
R PYRITE RICH (10% LOCALLY), TOP OF SECTION, PITTED PYRITE ZONES
R WITH LIMONITE INFILLING.

A001 74.40 77.40 58207 1.220 .360

A001 77.40 82.30 58208 1.160 .490

A001 82.30 88.30 58209 1.120 .350

R 7620 7630SILICIFIED ROCK, HIGH PERCENT PYRITE DISSEMINATED (25%),
R FRACTUREDQTZ VEIN CRACKLE WITH PYRITE+CPY INFILLING. CPY IS
R CLOSELY ASSOCIATED WITH INTRODUCED QTZ.

D 7440 7740 80 X 45

L OR3 792 487

R 7705 7730SILICIFIED, PYRITE HEALED FRACTURES, REVERSE MOVEMENT, VEINS
R RIMMED WITH LIMONITE, DISPLACED QTZ VEIN, SLIGHTLY VUGGY,
R MINOR PYRITE AND LIGHT TAN STAIN (NON CALCAREOUS)

R 7740 7750FINE PYRITE MICROVEIN AND OFFSHOOTS WITH WELL DEVELOPED QTZ
R ENVELOPE TO 2.5 MM, YELLOW CLAY ON FRACTURES.

R 7750 7760VUGGY QTZ VEIN, LIMONITE STAINED.

D 7740 8230 57 9 245

L OR3 792 157

N 7940 8230 XMCOR

R MIS-LATCH, GROUND AND LOST CORE, FEW GROUND PIECES, MIN. 5CM
R WIDE QTZ VEIN AND STRINGERS OF PYRITE AND CHLORITE, AT 50
R DEGREES CA., GROUND, BLOCKY CORE, UNDETERMINED DEPTH, 0.15 M
R REC.

N 8230 8480 6FG1FALT

L -R1

R FAULT ZONE, VERY POOR RECOVERY, SILTY-CLAY, MEDIUM BROWN,
R APHANITIC, TRACE PYRITE.

D 8230 8830 20 2

L 4OR1 823 XXX

P 8230 9140 CL RBZN

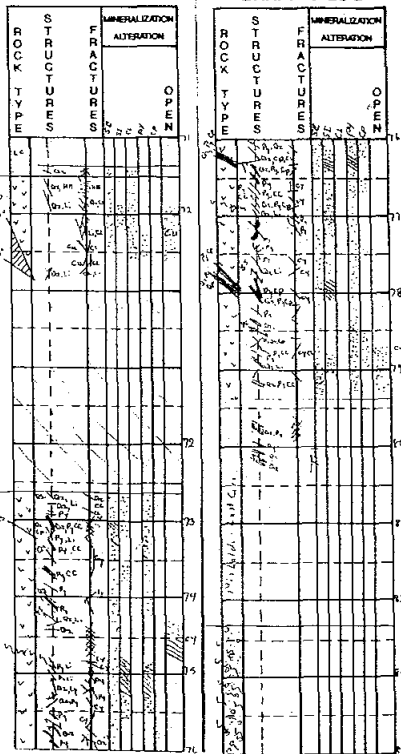
P) P2 D= B)<+ JA

E) Q+Q) E)<+ <)

R CHLORITE ALTERED. LAPILLI TUFF, VARIABLE AMOUNTS OF CHLORITE,
R (LOCALLY FUNCTION OF LAPILLI) WITHIN COMPETENT SECTIONS. FINE

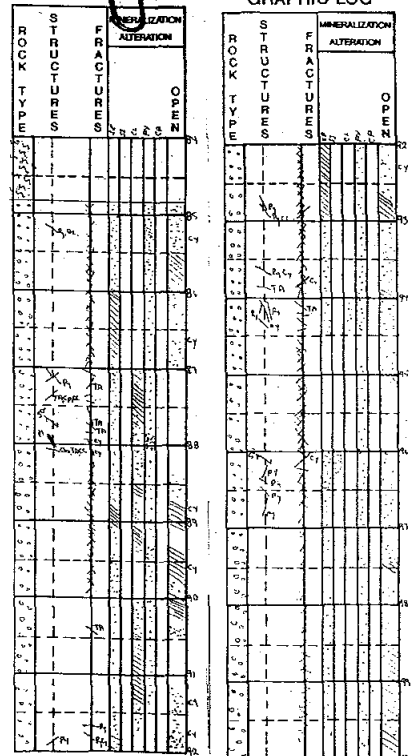
GRAPHIC LOG

GRAPHIC LOG



GRAPHIC LOG

GRAPHIC LOG



R GRAINED, POORLY FOLIATED, EVIDENCE OF COLOUR BANDING, SERICITE
 R PRESENT, PYRITE GENERALLY ON FRACTURES OR AS MICROVEINING. TOP
 R OF ZONE HAS TALC ALTERED FRACTURE INFILLING WITH DISSEMINATED
 R FINE GRAINED CPY AND CHALCOCITE. MEDIUM TO LIGHT GREEN, LOCALLY
 R BLEACHED. POOR TO VERY POOR RECOVERY. DISSEMINATED PYRITE,
 R LIKELY REMOBIILIZED MINERALIZATION.

N 8480 8700 SE2RBZN P1 Q) D= CC
 L P=Q= < D)

R CHALCOCITE, FOLIATION PLANES, MICROVEINS.

D 8830 9140 38 X
 L OR2 884 XXX

E 9140 10640 KA RBZN P2 D= <) CC
 L E) P3Q) D)

R GRADATIONAL UPPER CONTACT, SERICITIC +/- CHLORITE TO 94.00.
 R LIGHT GREY-WHITE, BLOCKY TO "PEA" SIZE GRAVEL, PERVASIVE CLAY
 R AND STRONG FRACTURE FILLING, PYRITE CONCENTRATION UNABLE TO
 R DETERMINE DUE TO STATE OF CORE, VARIABLE, EVIDENCE FOR MICRO-
 R VEIN CONCENTRATION AND CC.

N 9180 9400 SE8RBZN P3 D+ <) CCTA
 L P= D)Q*

R POOR RECOVERY

D 9140 9440 47 1
 L OR2 914 XXX

D 9440 10040 23 X
 L OR2 945

R 10060 10090 COMPETENT CORE WEAKLY SILICIFIED, HEALED FRACTURES, WITH PYRITE,
 R QTZ +/- SERICITE ENVELOPES LAPILLI FRAGMENTS? FRAGMENTAL TUFF?
 R PREFERENTIAL YELLOW/TAN CLAY.

D 10040 10640 12 X
 L OR1 1006

R FOOTAGE MARKER 103.6 M

P 10640 12550 SE7RBZN P2 Q* D+ <) CC
 L P10* <)

D 10640 10940 77 6
 L OR1 1067

N 10900 11280 KA3RBZN P2 D) <) TACV
 L P4 <+B(

D 10940 11240 60 2
 L OR2 1097 XXX

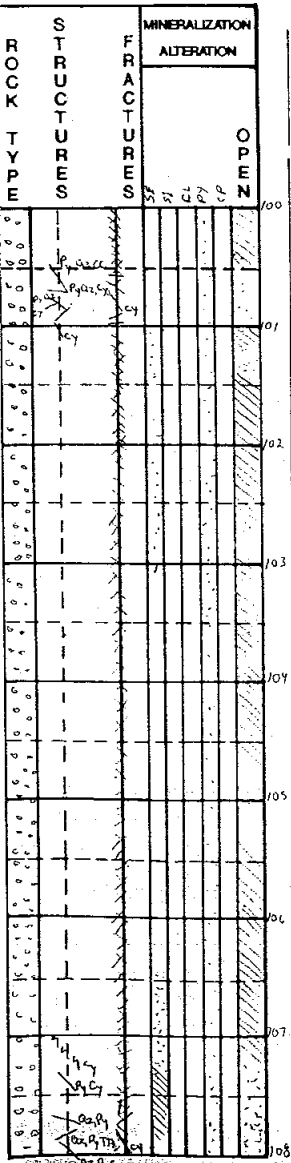
D 11240 11540 53 9
 L OR1 1128 XXX

R 11365 11440 ARGILLIC ALTERATION ZONE, MINOR CPY DISSEMINATED ON PYRITE AND
 R QTZ AND CLAY MICROVEINS, MALACHITE STAINING ASSOCIATED, VERY
 R PATCHY, MINOR DISSEMINATED PYRITE.

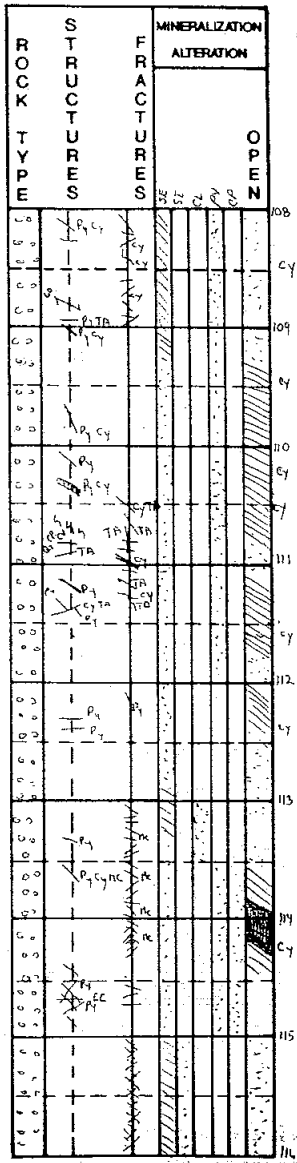
R 12040 GREEN/YELLOW CLAY WITH QTZ VEIN PR?, ALONG MICROVEIN

A001	88.30	91.40	58210	.988	.280
A001	91.40	94.40	58211	.916	.250
A001	94.40	100.40	58212	.924	.250
A001	100.40	106.40	58213	.824	.150
A001	106.40	109.40	58214	.848	.150
A001	109.40	112.40	58215	1.100	1.0900
A001	112.40	115.40	58216	1.130	.130
A001	115.40	121.40	58217	.808	.130

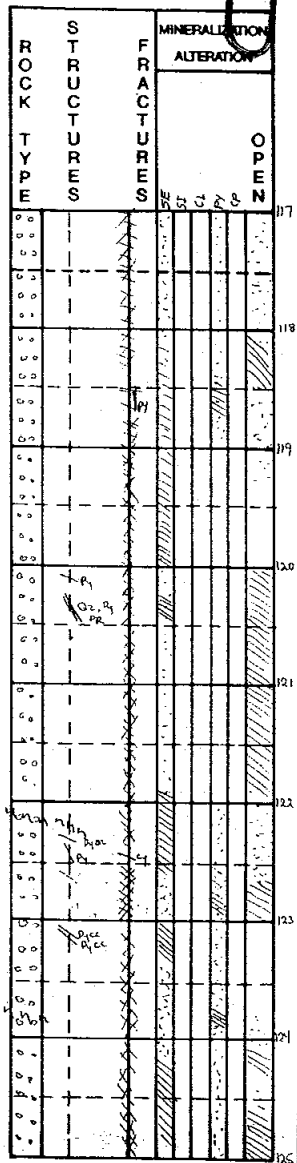
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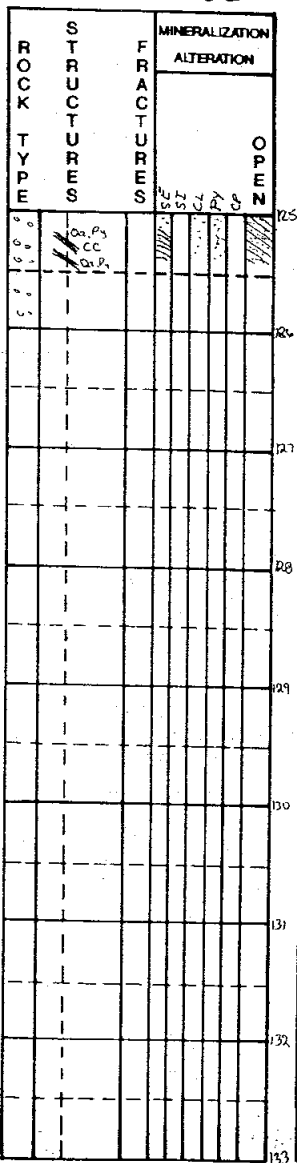
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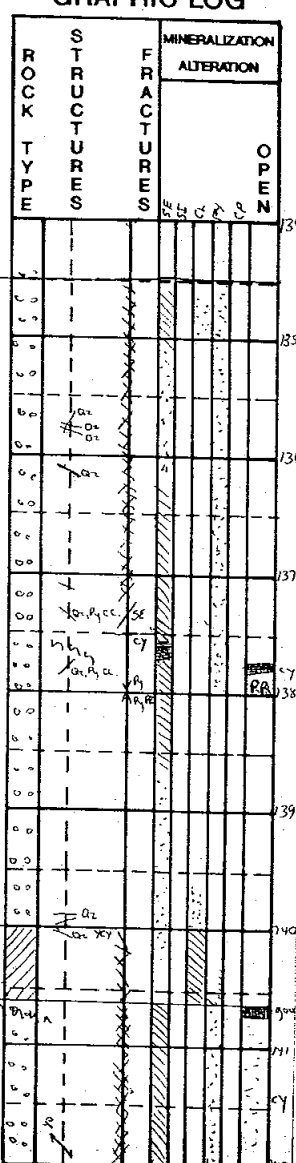
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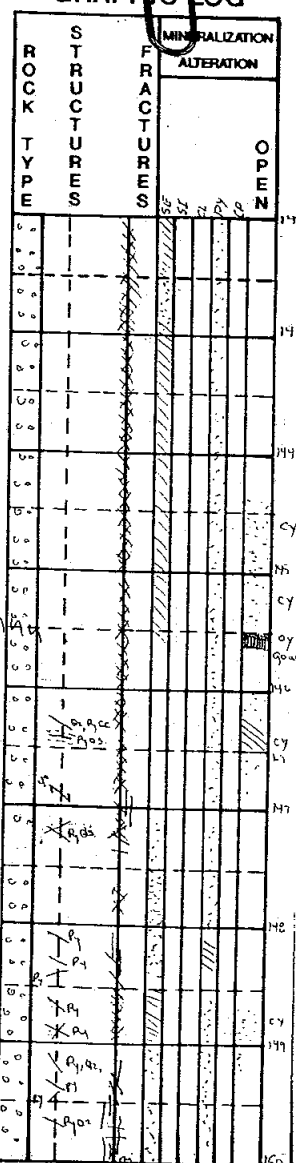
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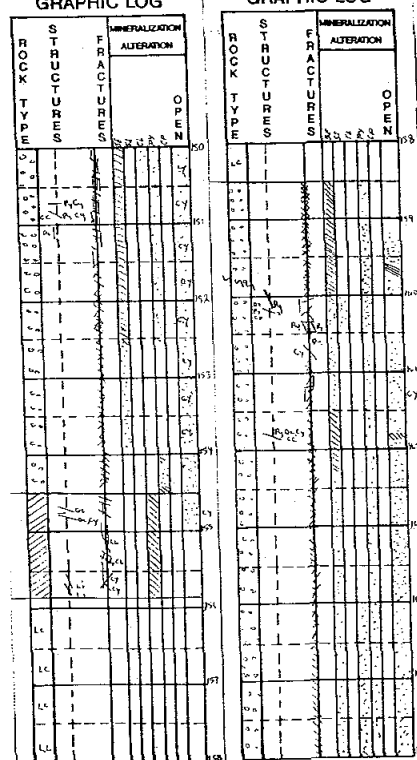
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N 12000 12190 KA1RBZN
 L
 R SIMILAR TO 109.00 TO 112.80
 D 12140 12400 58 7
 L OR2 1219 XXX
 R 12390 12395 FAULT? TRACE SANDY SILT.
 R 12500 CLAY RICH, SERICITIC, COARSE GRAINED PY CRYSTALS IN CLAY MATRIX
 R WITH CHALCOCITE.
 P 12550 13450 XMCOR
 L
 R LOST BOX OF CORE
 P 13450 16750 SE RBZN P4 Q* D= <=
 L Q=Q* <*<
 R FINE GRAINED, LOCALLY MEDIUM GRAINED, GRANULAR. GENERALLY
 R ALTERED SUCH THAT TEXTURE IS LOST; ALSO STATE OF BROKEN CORE. A001 121.40 125.40 58218 .544 .110
 R MEDIUM GREEN TO GREY-GREEN IN COLOUR. STRONGLY SERICITIZED, CLAY A001 125.40 125.50 58219 .952 .290
 R IS PRESENT DISSEMINATED IN CORE, GENERALLY ON FRACTURE PLANES, A001 134.50 137.50 58221 .466 .140
 R NOT TO SAME DEGREE AS ABOVE UNIT. DISSEMINATED PYRITE IS LIKELY A001 137.50 140.50 58222 .380 .120
 R REMOBLIZED, LOCALLY VERY HIGH, BUT NOT DETERMINED BECAUSE OF A001 140.50 146.50 58223 .328 .120
 R RUBBLE STATE. FRAGMENTS OF CORE EXHIBIT BOTH DISSEMINATED FINE
 R MICROVEINS OF PYRITE. QTZ MICROVEINS CAN BE FRACTURED WITH
 R SULPHIDE (PY) INFILLING OR WILL MARGIN PYRITE MICROVEIN. YELLOW
 R GREEN CLAY? PRESENT ON FOLIATION PLANES, PATCHY PR.
 D 13450 13750 62 X
 L OR1 1372 XXX
 R 13730 13745 COMPETENT CORE, APPEARS TO BE CRYSTAL TUFF, CHLORITE AND LIGHT
 R BROWN STRIATA, PHENOCRYSTS (BIOTITE) 2.0 TO 4.0 MM SCALE AND
 R SMALL BLEBS OF PYRITE + PR.
 R PYROPHYLLITE ON FRACTURE PLANES AND FOLIATION YELLOW GREEN CLAY
 N 14020 14055 XLAAP P3
 L
 R FINE GRAINED TO APHANITIC, MEDIUM GREEN, CHLORITIC FRACTURE
 R INFILLING, UNIFORM, NO BEDDING OR PRONOUNCED FLOW, UNFOLIATED,
 R TOP CONTACT LOST IN RUBBLE, TOP CONTACT, SLIGHT LIGHTENING OF
 R COLOUR IN BANDS PARALLEL 60 DEGREES CA., CLAY ON FRACTURES,
 R CHLORITE AT LOWER CONTACT.
 D 13750 14050 58 9
 L R2 1402 XXX
 D 14050 14650 40 9
 L OR2 1463 XXX
 R 14630 14645 COMPETENT 0.15CM OF CORE, STRONGLY SERICITIZED AND CLAY ALTERED,
 R FINELY FRACTURED WITH STRONG LIMONITE STAINING. QTZ-PYRITE VEIN
 R 65 DEGREES CA. FINE PYRITE VEINLETS WITH QTZ-SERICITE ENVELOPE
 R 2 MM.
 D 14650 14950 58 X

GRAPHIC LOG

GRAPHIC LOG



L OR2 1494 XXX
 R 14970 15100 CORE FRACTURED, BROKEN PARALLEL CA. FLAT PIECES.
 D 14950 15250 33 X
 L OR2 1524 XXX
 D 15250 15850 25 7
 L 5R2 1556 XXX
 N 15450 15590 APXLAAP

P4

VERY FINE GRAINED TO APHANITIC, MEDIUM TO DARK GREEN WITH PALE GREEN UPPER ZONE, BLEACHED, AT CONTACT. FINE CHLORITE INFILLED FRACTURES CLOSELY ASSOCIATED WITH UPPER CONTACT AT 35 DEGREES CA. FRACTURE PLANE AT 50 DEGREES WITH SSL AT 40 DEGREES TO PLANE UPPER CONTACT PYRITE RICH. NARROW QTZ MICROVEINS AT TOP OF UNIT. FINE CHLORITIC FILLED FRACTURES SUBPARALLEL CA. AT 154.70 - 154.83 M. TRACE FRAGMENT/CRYSTAL, DARK GREEN, 1.0 MM SCALE. LOWER CONTACT LOST IN RUBBLE. FRACTURES AT DEPTH HAVE WHITE TO YELLOW TO ORANGE STAINED CLAY COATINGS.

N 15590 15850 XMCOR
 D 15850 16150 70 X

L OR3 1585 XXX
 R 15985 16030 WEAKLY SILICIFIED, COMPETENT, BLOCKY CORE, FINE GRAINED, GRANULAR. DECREASE IN SERICITE TO <5%, ZONE IS FRACTURED WITH PYRITIC INFILLING, SUBPARALLEL TO CA. HEAVY CORE.

D 16150 16750 38 X
 L OR2 1646 XXX

R 16270 16780 SERICITIC ALTERATION ZONE WITH PREVALENT CLAY, GENERALLY ON FRACTURE SURFACES, INCREASES TO DEPTH.

R 16400 16560 PRESENCE OF CHLORITE, PATCH, PREVALENT ON FOLIATION PLANES EXHIBIT SSL.

R 16590 16780 CORE BECOMING 'BLOCKIER' BREAKING ALONG FOLIATION AT 70-75 DEGREES CA.

R 16600 16780 FLAT "POKER CHIP" BRACKAGE OF CORE.

R 16650 16675 CLAY RICH ZONE, PERVASIVE TO 10-15%, PYRITIC, PARALLEL FOLIATION AND DISSEMINATED.

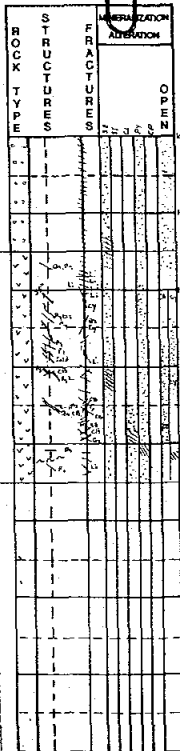
D 16750 17005 92 9 021
 L 40R3 123

P 16750 17005 FBXTUFF

L
 R FINE GRAINED, VERY WELL FOLIATED, COLOUR BANDED, GNEISSIC APPEARANCE, FOLIATION 60-65 DEGREES CA., COMPETENT, TOP OF UNIT BROKEN, BLOCKY, GENERALLY PARALLEL FOLIATION, H=4, TOP OF UNIT IS BLEACHED TO 168.00 M, PITTED, SLIGHTLY VUGGY, CLAY ALTERED YELLOW TO ORANGE CLAY ON FRACTURE PLANES. LIMONITE STAINING AND INFILLING ON PYRITIC MICROVEINS AND WITH DISSEMINATED PYRITE.

A001	146.50	149.50	58224	.336	.140
A001	149.50	152.50	58225	.280	.120
A001	152.50	158.50	58226	.096	.050
A001	158.50	161.50	58227	.344	.210
A001	161.50	167.50	58228	.372	0.3580
A001	167.50	170.50	58229	.091	.150

GRAPHIC LOG



R WEAK SERICITE ALTERATION THROUGHOUT. MORE EVIDENT TO DEPTH, LOSE
R CLAY. LIGHT GREEN AND GREY BANDING TO LIGHT GREY-GREEN AT DEPTH.
R CARBONATE INTRODUCED ON FOLIATION FRACTURE INFILLING FROM 168.75
R TO 170.05 M. PYRITE IS FINE GRAINED TO BLEBS, DISSEMINATED
R PREFERENTIALLY ALONG FOLIATION AND AS MICROVEINS. CHALCOCITE
R CLOSELY ASSOCIATED WITH PYRITIC MICROVEIN AND AS THIN
R SEGREGATIONS PARALLEL FOLIATION. CHLORITE ALTERATION PREVALENT
R AT DEPTH, GRADATIONAL FROM 169.60 M. FOLIATION ABRUPTLY MISSING
R FROM 170.15 TO 170.28 M, ZONE OF CARBONATE INFILLED "CRACKLE
R BRECCIA" FRACTURES. GREEN COLOUR ENDS AT 168.64, CARBONATE
R PRESENT AND SOME CLAY PARALLEL FOLIATION. SMALL KINK FOLD FROM
R 168.90-169.00 AT 15 DEGREES CA. FROM 169.20-169.30, PYRITE
R MICROVEINS RIMMED WITH LIMONITE, ARE OFFSET BY CARBONATE
R FRACTURE AT 85 DEGREES CA.

P 17005 19810 CLXTFLP Q=Q)P2<*D+ <) CUPO
L <+ <) V) <)B+

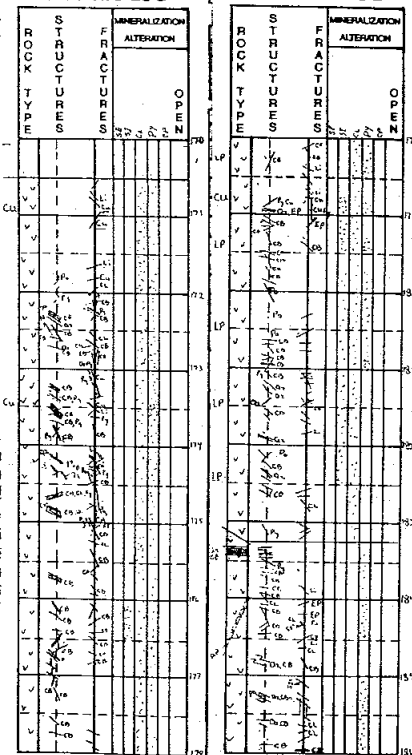
R MEDIUM TO FINE GRAINED, COMPETENT, H=4-5, DARK GREEN TO GREEN
R GREY IN COLOUR. LOCALLY SECTIONS CONTAIN FELSIC PHENOCRYSTS-
R MOTTLED APPEARANCE. SECTIONS VOID OR HAVE FEW CLASTS. GENERALLY
R HIGH CONCENTRATION OF CLASTS, +/- BOMBS, THAT ARE MATRIX
R SUPPORTED, CLASTS ARE VARIABLR. MAFIC TO FELSIC COMPOSITION,
R COMMONLY PORPHYRITIC. FRAGMENTS SUBROUNDED IN SHAPE. ROCK IS
R UNIFORM NON FOLIATED. CARBONATE FRACTURE FILLING AND QTZ +/-
R CARBONATE VEINS ARRE COMMON TO UPPER SECTION, DECREASE IN
R FREQUENCY WITH DEPTH. CORE GRADES FROM PERVASIVE CHLORITE
R ALTERATION TO A MOTTLED MIXTURE OF GREEN (CHLORITE) AND BROWN
R MAUVE (HORNSFEL) ALTERATION. PYRRHOTITE PRESENT AS IRREGULAR
R PATCHES THROUGHOUT BUT GENERALLY ASSOCIATED WITH FRAGMENTS. CORE
R WEAK TO MODERATELY MAGNETIC BELOW 170.00 M WITH BACKGROUND OF
R 60-80 X 10 (-5 POWER) SI UNITS. PYRITE DISSEMINATED AS BLEBS IN
R UPPER SECTION, BUT GENERALLY ASSOCIATED WITH FINE FRACTURES AND
R AS MARGINS TO QTZ/CARBONATE VEINS. NATIVE COPPER PRESENT ON
R FRACTURE PLANES, CHLORITE RICH. COMMON TO TOP OF SECTION.

R 17005 17025 ROCK NOT BRITTLE AS ABOVE SECTION, STRONGLY FOLIATED, CONTORTED
R FOLIATION WITH PYRITE AT TOP OF FOLIATION 76-80 DEGREES CA.
R FINE, SHORT STRINGERS OF CARBONATE IN FOLIATION. INTENSE ZONE
R OF MOVEMENT AT 170.12 TO 170.13, VERY DARK GREEN BLACK-PLANES
R ARE GREY CHLORITE AND SULPHIDES (PYRITE)-67 DEGREES CA.,
R FOLIATION GRADUAL DECREASE TO 170.25. DECREASE IN CARBONATE.

R 17025 17600 CHLORITIC, MEDIUM GRAINED, GRANULAR APPEARANCE, GRADING TO
R FINE GRAINED AT DEPTH, LAPILLI VISIBLE AT DEPTH, NOT VISIBLE IN
R UPPER 3 METRES (FUNCTION OF GRAIN SIZE) UPPER SECTION VERY
R FINELY FRACTURED, WITH CARBONATE INFILLING, CAUSES MOTTLED
R APPEARANCE WITH LIGHT AND DAEK GREEN PATCHES. FINE DISSEMINATED
R PYRITE <1%, GENERALLY ON FRACTURE. NATIVE COPPER ON FRACTURES

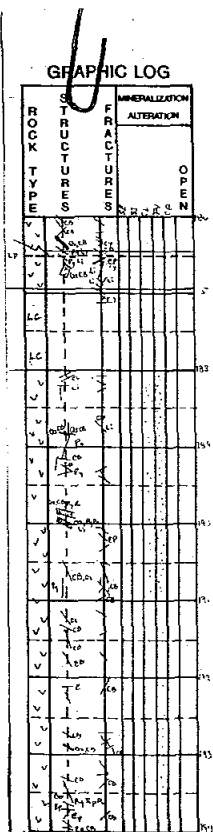
GRAPHIC LOG

GRAPHIC LOG



R STARTING AT 170.7 M. BEST AT 171.05 TO 171.13- COPPER 'FOIL'
R DENDRITIC AND RED COPPER OXIDE.
R 17240 17250 SMALL REVERSE SLIP MOVEMENT 40 DEGREES CA.
R 17260 17275 SCATTERED 'BLEBS' OF PYRITE, COARSE GRAINED AND CONCENTRATED
R WITH QTZ-CARBONATE FRACTURE FILL, FINE CARBONATE FRACTURE
R SUBPARALLEL CA. FRACTURE PLANE AT 172.80 M. MOSS GREEN, EPIDOTE?
R WITH CLAY.
R 17290 17319 LOW ANGLE FRACTURE 5 DEGREES CA., PATCHY CLAY, WITH NATIVE
R COPPER PARALLEL FRACTURE WITH PYRITE INFILLING.
R 17340 17355 FRACTURED, CARBONATE INFILLED, FINER GRAINED MATRIX, LAPILLI
R FRAGMENTS, DARK GREEN, CHLORITIC-0.2 TO 1 CM, BLEACHED ZONE.
R 17355 17363 CARBONATE VEIN WITH CHLORITE ENVELOPE.
R 17400 17440 BRITTLE ZONE, CRACKLE BRECCIA, FRACTURING ~50 DEGREES CA.
R AND INTERCONNECTED, CARBONATE INFILLED, >20 PER 10 CM
R 17485 17490 3.5 CM WIDE CARBONATE, FOLIATED TO FINELY BRECCIATED, LIGHTER
R GREEN, SILICA RICH IRREGULAR PATCHES PRESENT, DECREASE IN
R CHLORITE CONTENT, FINE GRAINED BELOW CARBONATE.
D 17050 17350 92 X 013
L 37R3 1706 214
R 17555 17572 HIGH CONCENTRATION, FINE FRACTURES, WITH 2.5 WIDE CARBONATE
R BAND AT BASE 70 DEGREES CA.-CHLORITE, IRREGULAR THE FRACTURES
R AS WELL.
D 17350 17650 93 X 114
L 57R3 1737 223
R 17660 18325 LAPILLI TUFF, LAPILLI TO BOMBS IN CHLORITIC PORPHYRITIC
R GROUNDMASS, FELDSPAR PHENOCRYSTS, MOTTLED FINE TO COARSE GRAINED
R FINE CARBONATE FRACTURE FILLING, DECREASE IN PYRITE <1%,
R PYRRHOTITE PRESENT, DISSEMINATED IN LAPILLI AND MINOR FRACTURE
R INFILLING. F-SPARS EUHEDRAL TO ANHEDRAL, LOCALLY (MAYBE IN
R LAPILLI) EXHIBIT RADIATING TEXTURE 'STAR' (OPHITIC), NATIVE
R COPPER WITH SULPHIDE MICROVEIN. MINOR HORNSFELSING.
D 17650 17950 90 X 211
L 58R4 1768 012
R 17860 17885 FRACTURED CORE PARALLEL CA., GREY AND WHITE CLAY WITH STRONG
R MULTI-COLOURED OXIDE STAINING, STEEL BLACK TO OCHRE TO YELLOW.
R NATIVE COPPER, METALLIC DENDRITIC CRYSTALS AND ASSOCIATED
R CRIMSON-BROWN OXIDE STAINING ASSOCIATED WITH CROSS-FRACTURES
R AT 90 DEGREES CA. WITH PYRITE, VUGGY QTZ VEIN +/- EPIDOTE AND
R PYRITE RICH BANDS PRESENT, WEAKLY SILICIFIED.
R A003 17975 17980 160
R PYRRHOTITE IN PORPHYRITIC GROUNDMASS 0.5 CM
R A003 17990 18005 300
R PYRRHOTITE DISSEMINATED IN FRAGMENT AND FRACTURE INFILLING 20
R DEGREES CA.
R A003 18060 18070 300

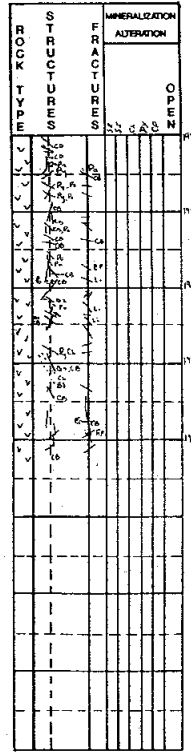
A001	170.50	173.50	58230	.062	.080
A001	173.50	176.50	58231	.021	.070
A001	176.50	179.50	58232	.049	.180



R SCATTERED 0.2 TO 0.5 CM CLUSTERS IN FRAGMENT.
D 17950 18250 100 X 013
L 78R3 1798 014
R 18260 18270 ZONE OF LOCAL HORNSFELSING, BIOTITIC ALTERATION WEAK BROWN/
R MAUVE COLOURING, WITH GREEN CHLORITIC ZONE AROUND CARBONATE
N 18325 18640 UF1 TUFF <<(B) PO
L 1859 <) V) B)
R VERY FINE GRAINED, GRADING TO FINE GRAINED, GRANULAR WITH DEPTH,
R MED TO LIGHT GREEN IN COLOUR, DACITIC COMPOSITION, HOMOGENEOUS,
R MINOR SCATTERED PYRITE (1-2%) CONCENTRATED AT CONTACT CONTACTS
R AND ON CHLORITIC FRACTURE PLANES. PYRRHOTITE IS SCATTERED AND
R CLOTTED IN QTZ-CARBONATE VEINING. CHLORITE FRACTURE PLANES
R OFTEN WITH SSL. FEW LAPILLI TO BASE. TOP CONTACT 65 DEGREES CA.
R SHARP, CONFORMABLE.
R 18400 18440 NARROW, THIN INTERLAYER FINELY BEDDED VOLCANIC ASH AT 5 DEGREES
R CA., PYRITE CONCENTRATED AT CONTACT, LOCAL FAULTING, REVERSE
R MOVEMENT.
D 18250 18550 100 X 024
L 48R3 1829 142
A003 18480 18510 300
R SCATTERED PO AND PY.
R 18600 18620 CORE IS LIGHTER GREEN, SLIGHTLY BLEACHED AS APPROACHING BROKEN
R BLOCKY CORE. FRAGMENTS OF QTZ WITH PYRITE-LIMONITIC HALO.
R 18639 18640 LOWER CONTACT WITH APHANITIC ASH OR LAPILLI AT 60 DEGREES CA.
R FINE FRACTURES, WEAKLY HORNSFELSED.
R 18653 18656 QTZ-CARBONATE VEIN WITH EPIDOTE? GREEN CLAY WITH STRONGLY
R OXIDIZED FRACTURE PLANE AT 5 DEGREES CA., OXIDE STRONG ON
R FRACTURE TO 186.65.
A003 18655 18665 270
R DISSEMINATED PYRRHOTITE, MAGNETIC, SCATTERED, WITH PYRITE.
N 18680 18800 XMCOR
L
R 18700 19723 HORNSFELSED, BRITTLE, HARD ROCK, PATCHY GREEN AND MAUVE BROWN
R COLOURING, CONTAINS PYRRHOTITE.
R 18810 18870 SPOTTY LIGHT WHITE-GREY ALTERATION HALOS, ABOUT 'SPOT' SOURCE?,
R GENERALLY SUBROUNDED, 2 TO 5 MM WITH DARK GREY CENTRE,
R CONCENTRATION FROM 188.10 TO 188.55. LIGHT HALO AROUND DISTINCT
R LARGE LAPILLI AT 188.55-188.70, 0.7 TO 1.0 CM.
R 18860 18905 FELSIC, QTZ RICH LAPILLI WITH UP TO 7% PYRRHOTITE, CUT BY QTZ -
R CARBONATE VEINS 65-70 DEGREES CA., CAUSED FINE TENSION FRACTURE
R OPEN SPACE INFILLED WITH GYPSUM? LIGHT ALTERATION HALOS ABOUT PO
D 18550 18850 50 X 014
L 15R4 1859 012
R 18970 QTZ-CARBONATE VEIN WITH HIGH CONCENTRATION PYRITE-PYRRHOTITE,
R VUGGY WITH CARBONATE INFILLING.

A001 179.50 182.50 58233 .020 .100
A001 182.50 185.50 58234 .020 .080
A001 185.50 188.50 58235 .028 .050

GRAPHIC LOG



R 19060 19810 LESS LAPILLI, GENERALLY SMALLER SIZE, MATRIX SUPPORTED.
 D 18850 19150 100 X 113
 L 73R3 1890 013
 R 19340 19810 EPIDOTE? GREEN SUGARY COATING ON FRACTURES AND VEINING.
 D 19150 19450 92 X 212
 L 70R3 1920 012
 R 19510 19610 LIGHTER GREY COLOUR TO CORE, NOT HORNSFELSED, HAVE FELSIC SPOTS
 R ALTERATION OR PHENOCRYSTS?
 R 19600 19723 HORNSFELSED, MAUVE/BROWN COLOURING, PATCHY, BRITTLE CORE.
 R 19620 19650 FINELY FRACTURED, PYRRHOTITE INFILLING, MINOR MOVEMENT REVERSAL
 R SLIP.
 R 19700 19725 HORNSFELSED, CHLORITE ENVELOPE AROUND QTZ-CARBONATE WITH MAUVE/
 R BROWN BIOTITIC ALTERATION HALDING CHLORITE.
 D 19450 19810 94 X 231
 L 53R3 1951 014
 R END OF HOLE
 R 125.00 TO 134.50 LOST CORE, NO SAMPLE.

A001	188.50	191.50	58236	.029	.500
A001	191.50	194.50	58237	.023	.120
A001	194.50	198.10	58238	.021	.060

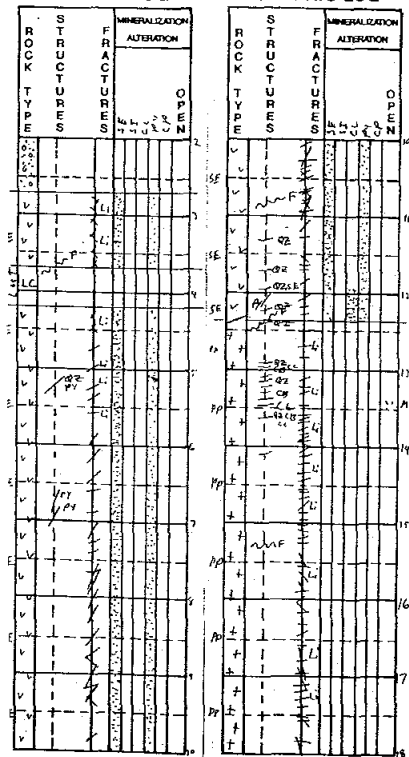
The A005 assay sets are selected
 composites based on copper grades
 and geology

	From	To	Length	Cu %	Au g/t
A005	16.80	27.40	10.60	.487	.298
A005	27.40	121.40	94.00	1.257	.334
A005	121.40	149.50	28.10	.408	.125
A005	149.50	170.05	20.55	.239	.119
A005	170.50	198.10	27.60	.030	.136
/END					

IDEN680201 KERR KS-074NQWL12AUG90WKH JTTAUG90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 3000MT 343.50000.00-90.00 9598.00 9767.00 1674.00
 /NAM SES1CLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXQZQPXXXXYY
 /SCL MT.2PC.0

GRAPHIC LOG

GRAPHIC LOG



L SCL PC.0 LCTM
 S001 3000 10700 343.50067.00-86.00
 S002 10700 19800 343.50072.00-84.00
 S003 19800 29400 343.50072.00-74.00
 S004 29400 34350 343.50081.00-75.00

A003

AUMM

MAG

P 000 270 OVBD

L

P 270 1235 SEXTUFF

P2 D1 <<
 <- G) <<<

R FINE GRAINED TUFF WITH ABUNDANT SERICITIC ALTERATION. UNIT IS
 R MADE UP OF QTZ AND F-SPAR OF APPROXIMATELY EQUAL AMOUNTS. UNIT
 R IS A LIGHT GREY COLOUR. MASSIVE. PY OCCURS AS VERY SMALL
 R DISSEMINATED CRYSTALS. THE BOTTOM 40 CM HAVE UNDERGONE CHLORITIC
 R ALTERATION. SMALL FAULTS WITH CLAY GOUGE OCCUR AT 3.70 AND 10.80
 R UNIT IS TERMINATED BY A FAULT. FROM 2.70 TO 4.50, THE UNIT IS
 R VERY BLOCKY. FRACTURES HAVE ABUNDANT LI/JA STAINING ALONG THEM
 R AND USUALLY HAVE A SMALL LI/JA ENVELOPE AROUND THEM. AREAS NEAR
 R LARGE FRACTURES SHOW SOME BLEACHING.

N 370 420 XMCOR

L

D 270 570 83 X 010

L 27R2 52 242

D 570 870 100 X 100

L 58R2 83 121

D 870 1100 98 X 000

L 17R2 131

D 1100 1235 100 X

L 59R2 113

P 1235 2650 HB9LAPP

L+

MC

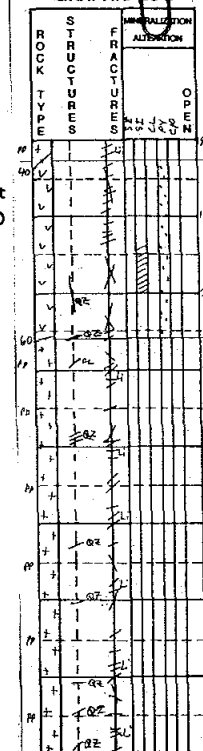
L

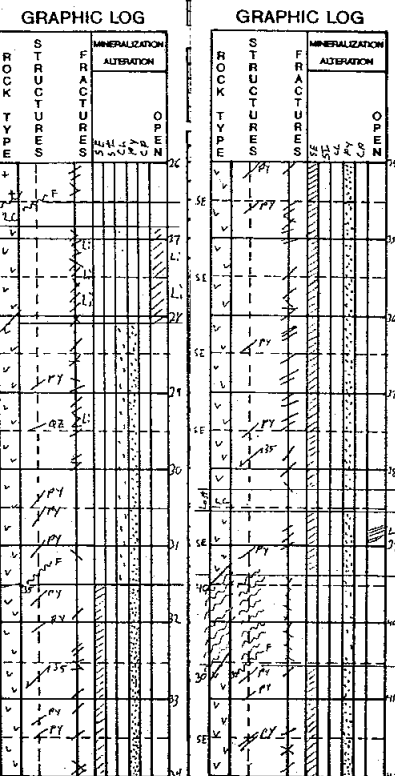
C.

R PORPHYRITIC HB (UP TO 7 MM LONG) SET IS A FINE GRAINED MATRIX OF
 R QTZ AND FELDSPAR (OF APPROXIMATELY EQUAL AMOUNTS). VERY RARE
 R PHENOCRYSTS OF F-SPAR (K-SPAR?) SEEN. UNIT IS A VERY LIGHT GREEN
 R COLOUR, HARD AND BRITTLE. SLIGHTLY MAGNETIC. QTZ/CARBONATE VEINS
 R WITH CL INFILLING OCCUR SPORADICALLY THROUGH THE UNIT AT RIGHT
 R ANGLE TO THE CORE. FRACTURES ARE INTENSELY HE AND LI STAINED.
 R MALACHITE SEEN ALONG ONE FRACTURE. PHENOCRYSTS RANGE FROM

	From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Au g/t
				(dupl)	(dupl)	(dupl)	(dupl)
A001	2.70	5.70	57712	.005		.190	
A001	5.70	8.70	57713	.005		.110	
A001	8.70	11.00	57714	.004		.310	
A001	11.00	12.35	57715	.051		.170	

GRAPHIC LOG





R LENTICULAR EUHEDRAL CRYSTALS TO ANHEDRAL BLOBS. NO PREFERRED
 R ORIENTATION TO THE PHENOCRYSTS, A VERY INTENSELY OXIDIZED ZONE
 R OCCURS FROM 12.35 TO 12.50. NO SULPHIDES SEEN. SMALL FAULT AT
 R 15.30. SPORADIC ZONES ARE BLEACHED.

D 1235 1535 100 X 020
 L 32R3 143 014
 D 1535 1825 100 X 000
 L 17R3 174 123
 N 1825 2060 100 XTUFF 110 D=
 L 34R4 204 130 <

R TUFF UNIT. FINE GRAINED. MEDIUM GREY. MASSIVE. ZONE FROM 19.40
 R TO 20.00 IS PARTIALLY SILICIFIED. LI STAINING ALONG FRACTURES.
 R PY AS VERY SMALL DISSEMINATED CRYSTALS.

D 2060 2360 100 X 010
 L 60R3 235 122
 D 2360 2650 100 X 011
 L 77R3 265 131
 P 2650 3150 DC7TUFF

R DARK GREEN, VERY FINE GRAINED UNIT. MASSIVE. VERY FINE
 R LAMINATIONS OF CL. UNIT IS COMPOSED OF QTZ (30%), F-SPAR (40%)
 R AND MAFICS (15%). PY OCCURS AS SMALL DISSEMINATED CRYSTALS AND
 R BLEBS ALIGNED ALONG LINEATIONS. VERY LITTLE ALTERATION IN THE
 R UNIT. SMALL FAULT WITH FE CEMENTED GOUGE AT 31.40. FAULT TRENDS
 R AT 35. A 5 CM ZONE OF BLEACHING OCCURS ON BOTH SIDES OF THE
 R FAULT. BOTTOM CONTACT IS THE START OF AN ALTERATION FRONT.

N 2650 2810 780XXTUFF 000 LI
 L 0R3 444 P3
 R VERY ALTERED ZONE DUE TO INTENSE OXIDATION BELOW THE FAULT AT
 R 26.50. LOST CORE FROM 26.50 TO 26.85. LI/JA STAINING PERSASIVE
 R THROUGHOUT THE UNIT. NO SULPHIDES SEEN (ALL WEATHERED OUT?)

D 2810 3000 100 X 010
 L 45R4 296 031
 D 3000 3150 100 X 010
 L 67R4 010

R MODERATELY FOLIATED TUFF UNIT WITH ABUNDANT SERICITIC ALTERATION
 R FOLIATION AT 35 AND INCREASES IN INTENSITY DOWNHOLE FROM WEAK
 R AT THE TOP TO MODERATELY-INTENSE NEAR THE FAULT ZONE. UNIT IS
 R LIGHT GREY AND CONSISTS OF FINE GRAINED QTZ AND F-SPAR (MODAL
 R COMPOSITION UNDETERMINED). PY OCCURS AS VERY SMALL DISSEMINATED
 R CRYSTALS AND OCCASIONAL MICROVEINLETS.

D 3150 3450 100 X 010
 L 80R2 326 021

A001	12.35	15.35	57716	.048	.010
A001	15.35	18.25	57717	.044	.020
A001	18.25	20.60	57718	.306	.290
A001	20.60	23.60	57719	.040	.010
A001	23.60	26.50	57720	.137	.020
A001	26.50	28.10	57723	.054	.070
A001	28.10	30.00	57724	.123	.660
A001	30.00	31.50	57725	.109	.270
A001	31.50	34.50	57726	.060	.130

L* D1 B*

P3 D1 <<

D 3450 3750 100 X 010
 L 52R2 357 031
 D 3750 3940 84 X 010
 L 53R2 387 020
 N 3825 3855 XMCOR
 L
 R 3875 3890 INTENSELY ALTERED/OXIDIZED ZONE, ABUNDANT LI STAINING
 N 3940 4055 90 XFALT 000 D= LI
 L OR1 XXX G5 T+

ZONE CONSISTS OF CHIPS OF TUFF WITHIN A CLAY GOUGE MATRIX.
 THE CLAY IS YELLOW TO WHITE. SOME LIMONITE.

D 4055 4290 100 X 020
 L 98R2 418 020
 P 4290 8015 SE9TFLP P3 D1 <+ MC
 L < > <+ <+ c.

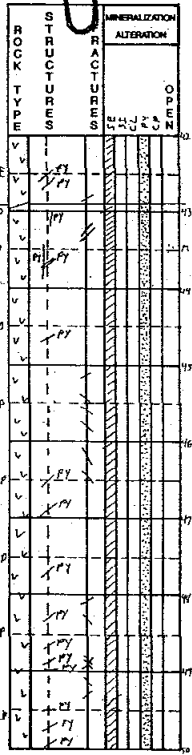
R MODERATE TO INTENSELY FOLIATED LAPILLI TUFF WITH ABUNDANT
 R SERICITIC ALTERATION. THE CLASTS ARE VERY LENTICULAR DUE TO THE
 R FOLIATING EVENT. FROM 42.90 TO 44.80 THE UNIT IS THE SAME AS THE
 R PREVIOUS TUFF UNIT. CLASTS VARY IN COMPOSITION FROM FELSIC FINE
 R GRAINED TO MORE MAFIC (DARKER) AND VERY FINE GRAINED. SMALL
 R JAROSITE ENVELOPES OCCUR BESIDE PY MICROVEINLETS. PY OCCURS AS
 R SMALL DISSEMINATED CRYSTALS AND MICROVEINLETS. A VERY LONG
 R FRACTURE, ALMOST PARALLEL TO CORE AXIS OCCURS FROM 53.50 TO
 R 54.50. THE FRACTURE ZONE IS APPROXIMATELY 2 CM WIDE AND IS
 R FILLED WITH LIMONITE AND/OR LEPIDOCROCITE. MALACHITE SEEN AT
 R 4.50

D 4290 4590 100 X 110
 L 83R2 448 010
 D 4590 4890 100 X 010
 L 93R2 479 020
 D 4890 5190 100 X 021
 L 83R2 509 110
 D 5190 5490 88 X 020
 L 22R2 540 110
 D 5490 5790 100 X 010
 L 88R2 570 011
 N 5290 5325 XMCOR
 D 5790 6010 100 X 010
 L 82R2 601 020
 D 6010 6135 100 X 020
 L 88R2 011
 N 6135 6550 98BK9LAAP 010 < >
 L 12R3 631 666 V+

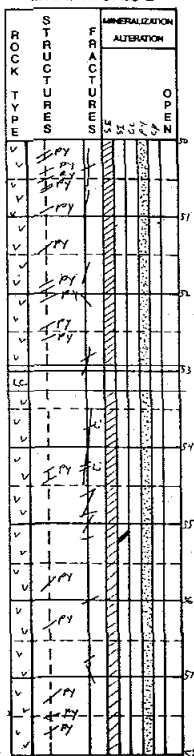
R DARK GREEN UNIT. MASSIVE. ABUNDANT FRACTURES WHICH HAVE INTENSE

A001 34.50 37.50 57727 .036 .060
 A001 37.50 39.40 57728 .077 .030
 A001 39.40 40.55 57729 .015 .030
 A001 40.55 42.90 57730 .073 .030
 A001 42.90 45.90 57731 .040 .040
 A001 45.90 48.90 57732 .079 .050
 A001 48.90 51.90 57733 .056 .060
 A001 51.90 54.90 57734 .053 .030
 A001 54.90 57.90 57735 .057 .040
 A001 57.90 60.10 57736 .090 .040
 A001 60.10 61.35 57737 .064 .050
 A001 61.35 63.10 57738 .050 .040
 A001 63.10 65.50 57739 .133 .020

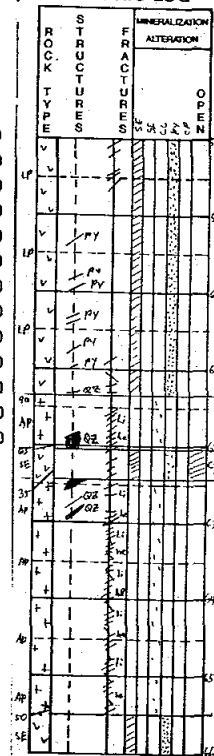
GRAPHIC LOG

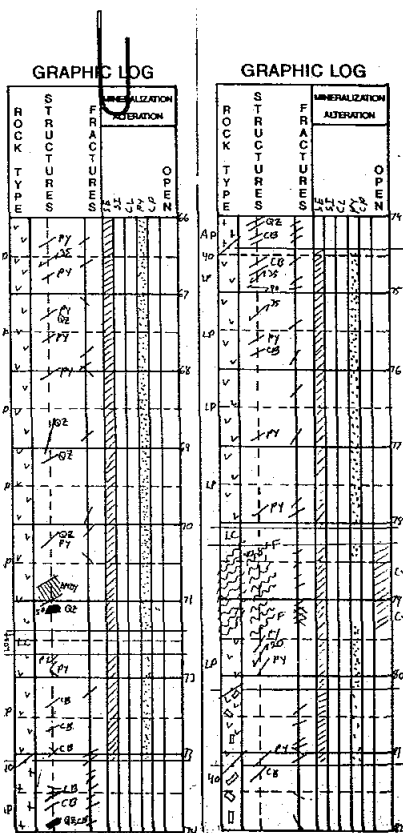


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R HE/LI STAINING ALONG SAME FRACTURES. ZONE OF LAPILLI TUFF FROM
R 62.05 TO 62.40 CONTAINING ABUNDANT CLAY ALTERATION. QTZ VEINS
R OCCUR AT BOTH ENDS OF THE TUFF XENOLITH. THE QTZ IS VUGGY AND
R INTENSELY LI STAINED. BLEACHING OCCURS AROUND THE QTZ VEINS.
R CL OCCURS AS FRACTURE FILLS AND AS LAMINATIONS WITH THE QTZ.
D 6550 6850 100 X 010
L 80R2 661 020
D 6850 7140 98 X 111
L 72R2 692 110
D 7140 7310 82 X 020
L 71R2 722 010
R 6900 6920 VERY ALTERED AND OXIDIZED ZONE
R AMYGDALOIDAL ANDESITE DYKE.
N 7140 7170 XMCOR
L
R BLEB OF CP SEEN IN QTZ VEIN AT 71.10.
R 7170 7200 FOLIATION IS PARALLEL TO CORE AXIS. AT 72.00, IT SWINGS BACK TO
R 35. FOLIATION IS INTENSE. PROBABLE FOLD.
N 7310 7440 98BKXLAAP 020 Q*
L 11R3 444 V+ V+
R 7480 7490 FOLIATION CHANGE FROM 35 TO 90 AND THEN BACK TO 35 DEGREES TO
R THE CORE AXIS.
D 7440 7740 100 X 010
L 93R2 753 111
D 7740 8015 88 X 010
L 36R2 782 031
N 7810 7830 XMCOR
L
R 7840 7935 FAULT ZONE CONSISTING OF ROCK FRAGMENTS IN A CLAY MATRIX. FAULT
R TRENDS AT 40.
R BELOW THE FAULT ZONE FOLIATION CHANGE TO 20 DEGREES.
P 8015 8115 98FLXPHPP 010 P3 D=
L 42R2 021
R EQUIGRANULAR FINE CRYSTALS OF QTZ AND F-SPAR WHICH HAS UNDERGONE
R MODERATE SERICITIZATION. UNIT IS MEDIUM GREY WITH A SLIGHT
R MOTTLED APPEARANCE. MASSIVE EXCEPT RIGHT AT THE BOTTOM WHERE
R THERE IS A WEAK FOLIATION AT 40 DEGREES. PY OCCURS AS VERY SMALL
R DISSEMINATED CRYSTALS.
P 8115 8925 F5XANPP D(
L <) V*
R PREMIER PORPHYRY. UNIT CONSISTS OF PORPHYRITIC PLAG AND K-SPAR
R SET IN A MATRIX OF F-SPAR (50% OF UNIT). PHENOCRYSTS CONSIST OF
R PLAGIOCLASE (15% OF UNIT) OCCURRING AS ANHEDRAL, PARTIALLY
R ALTERED BLEBS, UP TO 5 MM IN SIZE, AND K-SPAR (10% OF UNIT)
R OCCURRING AS SUBHEDRAL TO ENHEDRAL CRYSTALS UP TO 8 MM IN SIZE.

A001	65.50	68.50	57740	.093	.060
A001	68.50	71.40	57741	.095	.030
A001	71.40	73.10	57742	.093	.030
A001	73.10	74.40	57743	.024	.020
A001	74.40	77.40	57744	.064	.040
A001	77.40	80.15	57745	.081	11.500 11.800
A001	80.15	81.15	57746	.029	5.120 7.180

R THE UNIT IS MODERATELY FOLIATED AT 20 DEGREES. FROM 81.15 TO
 R 82.65 AND FROM 88.55 TO 89.25 THE FOLIATION IS INTENSE. THE
 R PHENOCRYSTS IN THESE ZONES ARE FLATTENED AND EXTENDED ALONG THE
 R FOLIATION. PY OCCURS AS VERY SMALL SCATTERED CRYSTALS. THE
 R CARBONATE EINLETS HAVE A YELLOWISH COLOUR.

D	8115	8415	100 X	111
L			100R3	814
D	8415	8715	100 X	121
L			83R3	844
D	8715	8925	X	111
L			R3	875
P	8925	10605	SEXTUFF	

P3 D1 <<
<) V)

LIGHT GREY, FINE GRAINED UNIT COMPOSED OF QTZ AND F-SPAR (AMOUNT
 UNDETERMINABLE) WITH ABUNDANT SERICITIC ALTERATION. WEAK
 FOLIATION TRENDING AT 30. SLIGHTLY MOTTLED APPEARANCE.
 OCCASIONAL LAPILLI CLASTS SEEN. PY ABUNDANT AND OCCURS AS
 DISSEMINATED CRYSTALS AND CRYSTALS CLUSTERS.

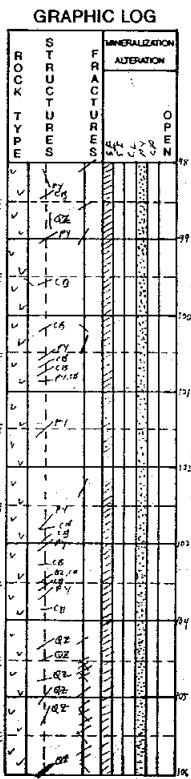
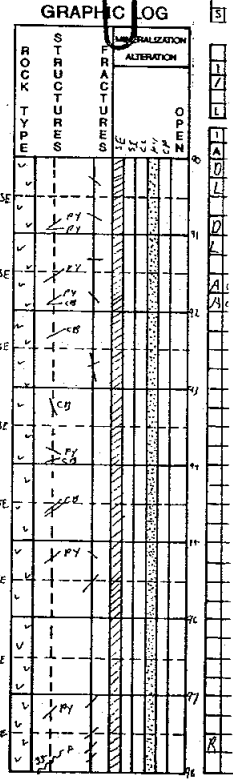
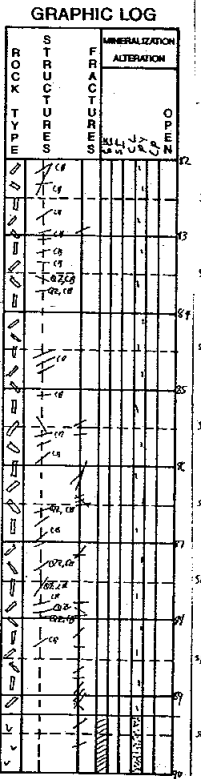
D	8925	9225	100 X	011
L			100R2	906
D	9225	9525	100 X	120
L			98R2	936
R				
D	9525	9825	98 X	010
L			77R2	966
R	9930	10010	ZONE OF ABUNDANT LAPILLI CLASTS	
D	9825	10125	100 X	121
L			100R2	997
D	10125	10425	100 X	021
L			100R2	1027
D	10425	10605	98 X	111
L			8R2	1057

SMALL FAULT WITH CLAY GOUGE, TRENDING AT 35 DEGREES, OCCURS
 AT 97.90.

P	10605	12340	SEXTFLP	
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P3 D2 <<
<) V*

TUFF UNIT IN WHICH LAPILLI CLASTS ARE ABUNDANT. THE MATRIX IS
 QTZ AND F-SPAR WHICH HAS UNDERGONE MODERATE TO INTENSE SERICITIC
 ALTERATION. MATRIX VARIES FROM FINE TO VERY FINE GRAINED.
 LAPILLI CLASTS VARY GREATLY IN COMPOSITION FROM FELSIC TO MAFIC.
 CLASTS REACH UP TO 5 CM IN SIZE. UNIT IS GREY WITH A MOTTLED
 APPEARANCE. UNIT HAS A WEAK TO MODERATE FOLIATION AT 40 DEGREES
 PY ABUNDANT AND OCCURS AS DISSEMINATED CRYSTALS AND CRYSTAL
 CLUSTERS ALIGNED ALONG FOLIATION. SMALL FAULTS, TRENDING 75



A001	81.15	84.15	57747	.007	.070
A001	84.15	87.15	57748	.033	.050
A001	87.15	89.25	57749	.020	.030
A001	89.25	92.25	57750	.048	.090
A001	92.25	95.25	57751	.040	.080
A001	95.25	98.25	57752	.041	.180
A001	98.25	101.25	57753	.060	.060
A001	101.25	104.25	57754	.037	0.0360
A001	104.25	106.05	57755	.054	.130

GRAPHIC LOG

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R DEGREES AND UNKNOWN OCCUR AT 108.25 AND 108.60.

D 10605 10905 96 X 111
 L 67R2 1088 020
 D 10905 11205 98 X 010
 L 87R2 1119 020
 R 11255 11275 QTZ/CARBONATE VEIN. CONTORTED.
 D 11205 11505 100 X 021
 L 93R2 1149 010
 D 11505 11805 100 X 021
 L 85R2 1180 110
 D 11805 12105 92 X 021
 L 60R2 1210 031
 N 11850 11875 XMCOR

R FAULT OF UNDETERMINED TREND AT 118.50.

D 12105 12340 98 X 010
 L 74R2 020
 P 12340 13420 KR6BXQZ

P= P= D3 V+V+
 J= V5

ZONE OF THE TUFF IN WHICH VEIN QTZ MAKES UP 50-60% OF THE UNIT. ORIGINAL ROCK USED TO BE A DACITIC TUFF. THE TUFF WAS INTRUDED BY THE VEINS AND VEINLETS AND THEN TECTONIC MOVEMENT FRACTURED THE QTZ IMPARTING A CRACKLED APPEARANCE. CARBONATE AND SULPHIDES WERE REPLACED IN THE FRACTURES IN THE QTZ. HOST ROCK HAS MINOR SERICITIC AND CHLORITIC ALTERATION. PY AND MINOR CP OCCURS AS LAMINATIONS WITH THE QTZ AND BY THEMSELVES IN THE HOST ROCK. ABUNDANT DISSEMINATED PY ALSO OCCURS. THE QTZ VEIN/VEINLETS AVERAGE 30-40 DEGREES TO CORE AXIS.

2 CM WIDE BAND OF PY AT 126.45.

D 12340 12640 100 X 555
 L 98R3 1241 120
 D 12640 12940 92 X 555
 L 83R3 1271 020
 N 12870 12895 XMCOR
 D 12940 13200 98 X 011
 L 69R3 1301 021
 D 13200 13420 96 X 010
 L 61R3 1322 030

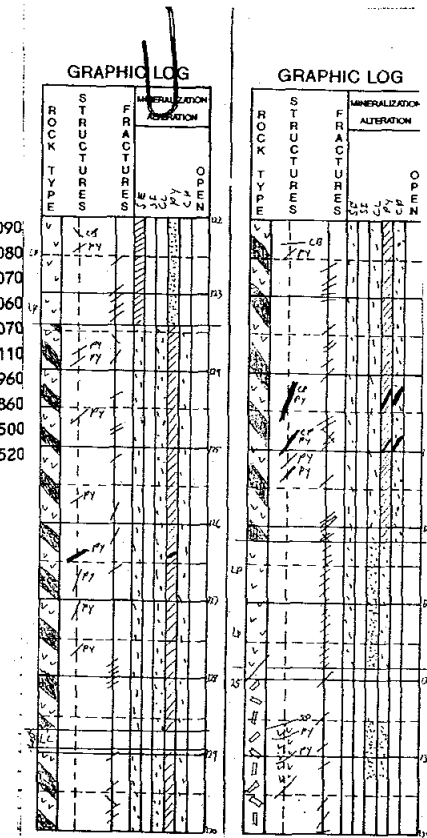
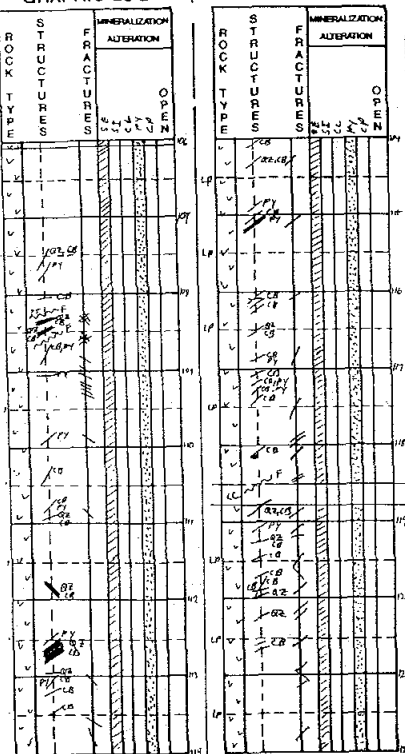
R MASSIVE SULPHIDE VEIN, 6 CM WIDE, CONSISTING OF CP WITH SUBORDINATE PY OCCURS AT 132.35. VEIN IS CONFORMABLE WITH FOLIATION (HERE AT 20 DEGREES).

R MASSIVE SULPHIDE VEINLET, 1 CM WIDE, CONSISTING OF CP WITH SUBORDINATE PY OCCUR AT 132.90.

P 13420 13580 98CLXTFLP 000 P1 P2 D=

A001 106.05 109.05 57756 .049
 A001 109.05 112.05 57757 .031
 A001 112.05 115.05 57758 .050
 A001 115.05 118.05 57759 .047
 A001 118.05 121.05 57760 .038
 A001 121.05 123.40 57761 .051
 A001 123.40 126.40 57762 1.020
 A001 126.40 129.40 57763 .556
 A001 129.40 132.00 57764 .488
 A001 132.00 134.20 57765 1.180

.090
 .080
 .070
 .060
 .070
 .110
 .960
 .860
 .500
 .520



L 19R2 444
 R TUFF UNIT WITH VERY ABUNDANT LAPILLI CLASTS. ABUNDANT, PERVASIVE
 R CHLORITE ALTERATION. CLASTS ARE PREDOMINANTLY FELSIC. PY AS
 R SMALL DISSEMINATED CRYSTALS. BLOCKY.

P 13580 14260 F39ANPP PO
 L <) J(D.

R PREMIER PORPHYRY. UNIT CONSISTS OF PORPHYRITIC PLAG AND K-SPAR
 R (50% OF UNIT) AND MAFICS (25%). PHENOCRYSTS OF PLAG (15% OF
 R UNIT) OCCURRING AS ANHEDRAL, PARTIALLY ALTERED BLEBS, UP TO
 R 5 MM IN SIZE, AND K-SPAR (5% OF UNIT) OCCURRING AS EUHEDRAL TO
 R SUBHEDRAL CRYSTALS UP TO 15 MM IN SIZE. THE UNIT IS WEAKLY
 R FOLIATED AT 25 DEGREES. VERY MINOR PO. SLIGHTLY MAGNETIC. TUFF
 R XENOLITH FROM 136.00 TO 137.40.

D 13580 13880 100 X 010
 L 83R3 162 121
 D 13880 14100 100 X 021
 L 40R3 1393 120
 D 14100 14260 100 X 010
 L 62R3 1423 120
 P 14260 14630 98MXXLAAP 131 PO
 L 47R3 1454 140 <) <* D.

R DARK GREEN WITH HOMOGENEOUS APPEARANCE. BLOCKY. THE BOTTOM 50 CM
 R IS BLEACHED TO A LIGHT GREEN. TOP CONTACT IS A QTZ/CB VEIN.
 R HIGHLY MAGNETIC. VERY MINOR PO SEEN.

A003 14260 14630 1290
 P 14630 16120 KRXBQZ Q1 L) D= V1V3 TNCU
 L J* V7 Q(R).

R ZONE OF THE TUFF UNIT IN WHICH VEIN QTZ MAKES UP 60-70% OF THE
 R UNIT. ORIGINAL ROCK USED TO BE SERICITIC TUFF. SOME MECHANISM
 R OF FORMATION AS THE PREVIOUS STOCKWORK ZONE IN THIS HOLE. ONLY
 R SULPHIDES WERE EMPLACED IN THE FRACTURES IN THE QTZ
 R (NO CARBONATE). HOST UNIT HAS UNDERGONE ABUNDANT SERICITIC
 R ALTERATION. SULPHIDES INCLUDE PY AND CP AS FRACTURE FILLS,
 R LAMINATIONS AND MASSIVE SULPHIDE BANDS. MINOR TENNANTITE AND
 R VERY MINOR NATIVE COPPER SEEN. MANY OF THE CP VEINLETS HAVE PY
 R RIMS.

R MASSIVE SULPHIDE VEIN CONSISTING OF CP WITH MINOR PY, WITH A
 R WIDTH OF 4 CM OCCUR AT 147.40.

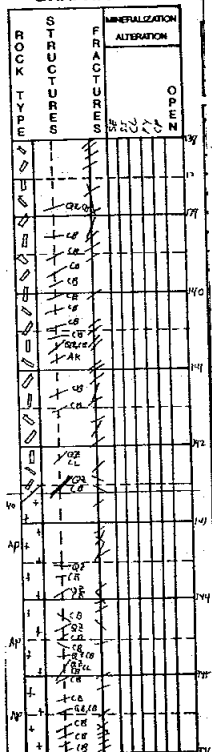
D 14630 14930 98 X 777
 L 52R3 1484 131
 D 14930 15230 100 X 777
 L 62R3 1515 031

R 15255 15270 MASSIVE PY VEIN.

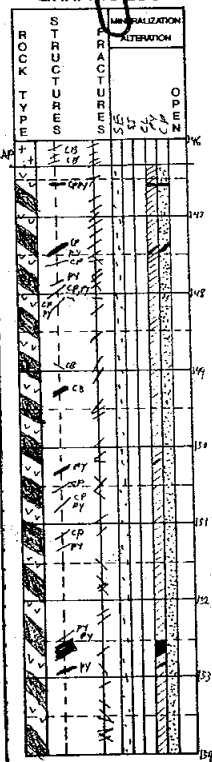
R 15480 15490 MASSIVE SULPHIDE VEIN CONSISTING OF A 1 CM CP VEIN ENVELOPED BY
 R MASSIVE PY.

A001 134.20 135.80 57766 .604 .200
 A001 135.80 138.80 57767 .100 .070
 A001 138.80 141.00 57768 .010 .020
 A001 141.00 142.60 57769 .003 .030
 A001 142.60 144.60 57770 .005 .020
 A001 144.60 146.30 57771 .046 .030
 A001 146.30 149.30 57772 1.600 .710
 A001 149.30 152.30 57773 1.900 1.900 .950

GRAPHIC LOG



GRAPHIC LOG



D 15230 15530 98 X 777
 L 53R3 1545 031
 D 15530 15830 98 X 777
 L 28R3 1576 040
 D 15830 16120 100 X 555
 L 72R3 1606 020
 P 16120 17175 ALXTUFF

P= P= D1 B+<1
 << <<<<

R TUFF UNIT WHICH HAS UNDERGONE VARYING DEGREES OF SERICITIC AND
 R CHLORITIC ALREACTION. CHLORITIC ALTERATION TENDS TO BE MINOR AND
 R PERVASIVE THROUGHOUT, WHILE SERICITIC ALTERATION IS PATCHY. UNIT
 R HAS ABUNDANT QTZ VEINLETS (WHICH ARE FRACTURED). THE UNIT IS
 R VERY BLOCKY FROM 166.70 TO 168.40.

D 16120 16420 98 X 131
 L 65R3 1637 030
 D 16420 16720 98 X 031
 L 52R3 1667 030
 R 16555 16565 FRACTURED QTZ VEIN WITH ABUNDANT PY AND CP.
 D 16720 16980 98 X 131
 L 35R3 1698 030
 D 16980 17175 X 120
 L R3 121
 P 17175 18490 MXXLAAP

L*Q+ HE
 V) V) O(

R DARK GREEN WITH HOMOGENEOUS APPEARANCE, BLOCKY NEAR THE BOTTOM.
 R MAGNETIC IN LIMITED AREAS. EPIDOTE SEEN IN A FEW AREAS. ABUNDANT
 R VEINS OF QTZ/CARBONATE, CARBONATE AND SIDERITE (OLIVE COLOURED
 R MINERAL REPLACING CALCITE). UNIT BETTER DESCRIBED AS AN ANDESITE
 R SPECULARITE AND HEMATITE SEEN IN QTZ/CARBONATE VEINS AND AS
 R COATINGS ALONG FRACTURES IN THESE VEINS. CHLORITE ALTERATION IS
 R ASSOCIATED WITH THE VEINLETS.

D 17175 17475 100 X 012
 L 57R3 1728 031
 D 17475 17775 X 021
 L R3 1759 020
 D 17775 18075 98 X 021
 L 37R3 1789 131
 D 18075 18300 98 X 010
 L 4R3 1820 040
 D 18300 18490 98 X 010
 L 10R3 040
 P 18490 20600 KRXXBQZ

Q1 Q= D= B+<2
 J+ V4

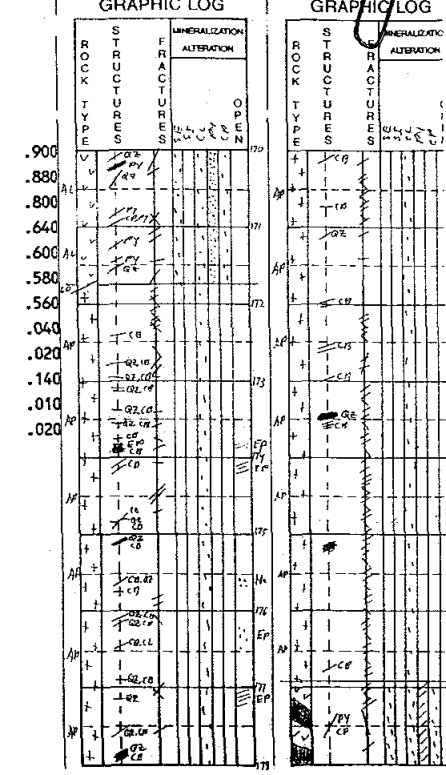
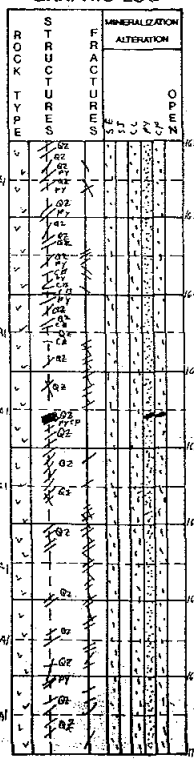
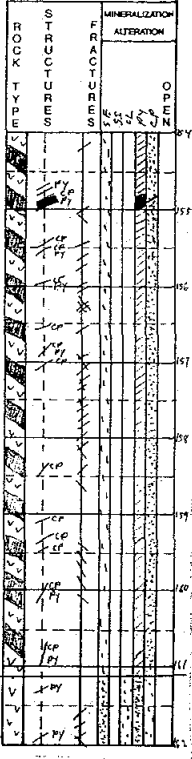
R ZONE OF THE TUFF UNIT IN WHICH VEIN QTZ MAKES UP 40-50% OF THE
 R UNIT. ORIGINAL ROCK USED TO BE A SERICITIC TUFF. SAME MECHANISM

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R OF FORMATION AS THE PREVIOUS STOCKWORK ZONES. SULPHIDES AND VERY
 R MINOR CARBONATE WERE INTRUDED IN THE FRACTURES IN THE QTZ.

D 18490 18790 98 X 444
 L 55R3 1850 030
 D 18790 19090 96 X 333
 L 22R3 1880 143
 D 19090 19390 90 X 444
 L 50R3 1911 133

R 19005 19170 UNIT IS VERY RUBBLY IN THIS ZONE.
 N 19110 19140 XMCOR

D 19390 19690 98 X 555
 L 68R3 1942 020
 D 19690 19990 100 X 555
 L 67R3 1972 020
 N 20000 20010 XMCOR

2 CM WIDE MASSIVE PY VEIN AT 201.85

D 19990 20290 87 X 555
 L 60R3 200 020
 D 20290 20600 98 X 440
 L 52R3 2033 020
 P 20600 23490 SE9TUFF

P3 O= D1 B-<<
 << <<<

R BLOCKY, MEDIUM GREY TUFF UNIT WITH ABUNDANT SERICITIC ALTERATION
 R FINE GRAINED. MODERATELY FOLIATED AT 40, SUGARY TEXTURE.
 R ZONE FROM 212.0 TO 224.0 HAS ABUNDANT LOST CORE. MINOR CHLORITIC
 ALTERATION.

D 20600 20900 98 X 130
 L 37R2 2064 030
 N 21000 21050 XMCOR

D 20900 21200 83 X 020
 L 20R2 2094 032
 D 21200 21850 39 X 010
 L 2R2 2124 888
 D 21850 22460 36 X 010
 L 3R2 2216 777

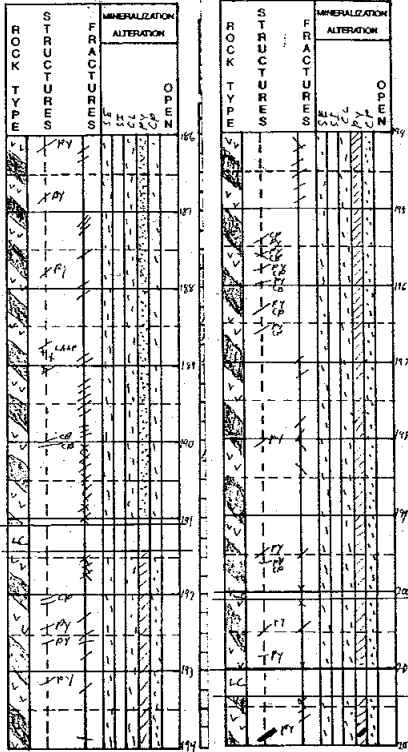
D 22460 22760 98 X 020
 L 48R2 2246 020
 D 22760 22950 98 X 010
 L 50R2 227 030
 N 22950 23120 100MXXLAAP 020
 L 100R3 2307 010

q* HEPO
 <) C.D.

R DARK BLACKISH GREEN WITH A HOMOGENEOUS APPEARANCE, HEMATITE

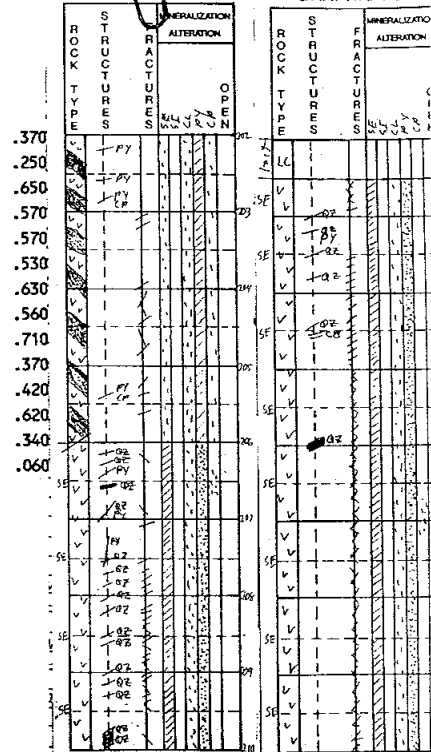
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R SEEN ALONG FRACTURES. CL OCCURS AS PATCHES WITH QTZ/CARBONATE
 R VEINS. UNIT IS SLIGHTLY BLEACHED ADJACENT TO THE QTZ/CARBONATE
 R VEINS. VERY MINOR PO SEEN.

D 23120 23320 98 X 120
 L 64R2 131
 D 23300 23490 98 X 010
 L BR2 2338 040

P 23490 25025 CLXR2N P1 P3 D2
 R TUFF UNIT WITH INTENSE CHLORITIC ALTERATION TECTONICALLY REDUCED
 R TO A RUBBLE. VERY POOR CORE RECOVERY. PY ABUNDANT AND OCCURRING
 R AS DISSEMINATED CRYSTALS THROUGHOUT THE ZONE.

D 23490 23680 90 X 000
 L OR2 2353 XXX
 D 23680 24290 29 X 000
 L OR2 2384 XXX
 D 24290 25025 39 X 000
 L OR2 2460 XXX
 P 25025 28200 ALXTUFF P1 D1 <<< GY

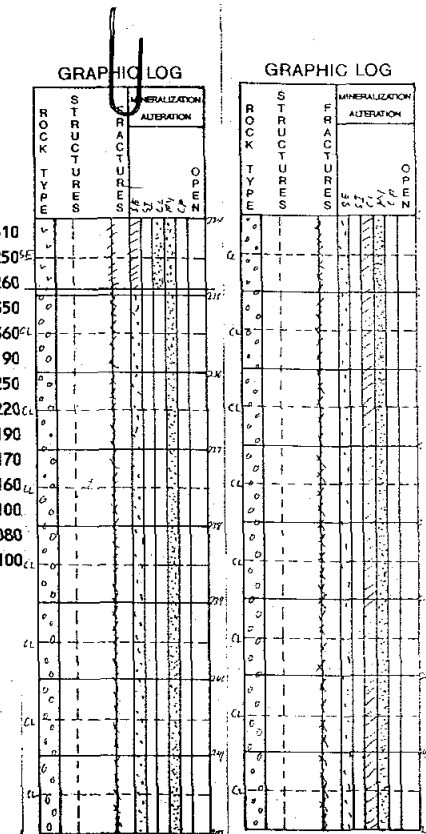
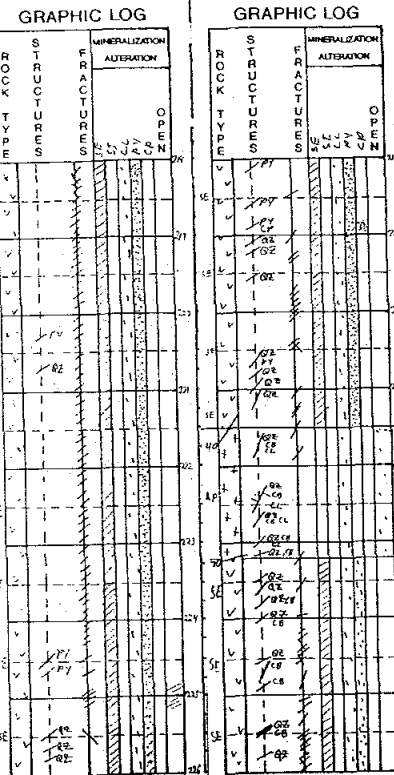
L Q*Q= <<< L*
 R LIGHT TO MEDIUM GREY UNIT CONSISTING OF FINE GRAINED. QTZ (30%)
 R AND F-SPAR (40%). MINOR PERVASIVE SERICITIC ALTRATION (10%) AND
 R PATCHY PYROPHYLLITIC ALTERATION. DISSEMINATED PY THROUGHOUT.
 R SMALL STRINGER OF GYPSUM ARE SCATTERED THROUGHOUT THE UNIT.
 R OCCASIONAL PY MICROVEINLETS ARE SEEN. UNIT, THOUGH NOT HARD,
 R IS COMPETENT. MASSIVE. PATCHES OF CLAY ALTERATION.

D 25025 25325 100 X 111
 L 93R2 2521 020
 D 25325 25625 100 X 120
 L 75R2 2551 020
 D 25625 25925 100 X 020
 L 94R2 2582 010
 D 25925 26225 100 X 010
 L 100R2 2612 000
 D 26225 26525 100 X 120
 L 98R2 2643 010
 D 26525 26825 100 X 121
 L 100R2 2673 010
 D 26825 27125 100 X 110
 L 100R2 2704 000

R 26775 27250 ZONE OF VERY ABUNDANT GYPSUM STRINGERS.
 D 27125 27425 100 X 010
 L 100R2 2734 000
 D 27425 27725 100 X 010
 L 100R2 2765 000
 D 27725 28025 100 X 010

A001 231.20 233.00 57800 .828
 A001 233.00 234.90 57801 .740
 A001 234.90 236.80 57802 .792
 A001 236.80 242.90 57803 1.110
 A001 242.90 250.25 57804 1.240
 A001 250.25 253.25 57805 .808
 A001 253.25 256.25 57806 .664
 A001 256.25 259.25 57807 .564
 A001 259.25 262.25 57808 .648
 A001 262.25 265.25 57809 .536
 A001 265.25 268.25 57810 .544
 A001 268.25 271.25 57811 .342
 A001 271.25 274.25 57812 .376
 A001 274.25 277.25 57813 .432

.310
 .250
 .260
 .350
 .360
 .190
 .250
 .220
 .190
 .170
 .160
 .100
 .080
 .100



L 100R2 2795 000
 R 27950 28150 ZONE OF LAPILLI CLASTS.
 R SMALL APHANITIC LUTITE DYKES FROM 277.75 TO 277.85, 280.25 TO
 R 280.40 AND 280.70 TO 280.85.
 D 28025 28200 100 X 010
 L 100R2 000
 P 28200 34350 AL9TFLP P1Q(D1 <(L1 FU
 L <(Q= <)* O(

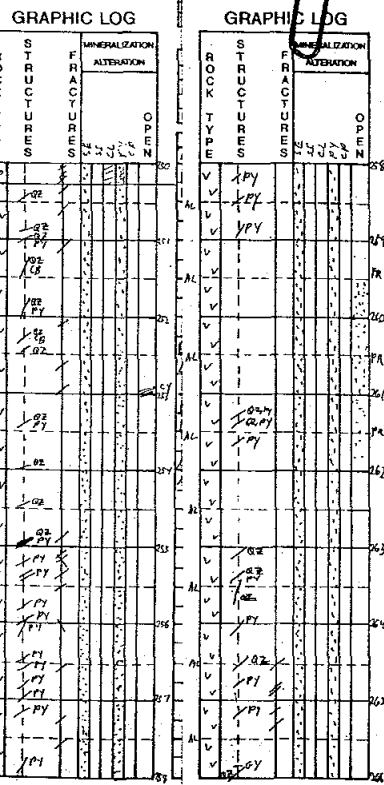
R VERY SIMILAR TO PREVIOUS UNIT EXCEPT FOR THE INCLUSION OF
 R ABUNDANT LAPILLI CLASTS AND AN INCREASE IN THE PY CONTENT.
 R MINOR PERVASIVE SERICITIC ALTERATION AND SMALL PATCHES OF
 R PYROPHYLLITIC ALTERATION. FOLIATION MODERATE TO INTENSE AT
 R 45-50.

D 28200 28500 100 X 010
 L 100R2 2825 000
 D 28500 28800 100 X 010
 L 100R2 2856 000
 R 29000 29020 ZONE OF SILICIFICATION.
 D 28800 29100 100 X 010
 L 94R2 2886 110
 D 29100 29400 100 X 110
 L 100R2 2917 000
 D 29400 29700 100 X 010
 L 100R2 2947 000
 D 29700 30000 100 X 000
 L 100R2 2978 000
 D 30000 30300 100 X 010
 L 98R2 3008 010
 D 30300 30600 100 X 030
 L 98R2 3039 100

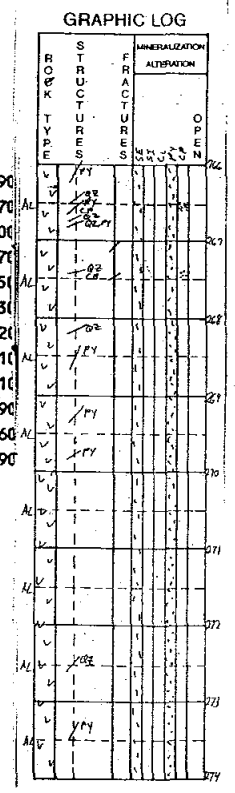
R PYRITE CRYSTALS ORIENTED INTO LAMINATIONS ARE ABUNDANT FROM
 R 303.50, DOWN
 R 30600 32930 FOLIATION IS INTENSE IN THIS REGION, HENCE, THE LAPILLI CLASTS
 R ARE EXTREMELY DEFORMED MAKING THEIR RECOGNITION DIFFICULT.

D 30600 30900 100 X 020
 L 100R2 3069 000
 D 30900 31200 100 X 020
 L 100R2 3100 010

R SMALL CP VEINLET WITH PY RIMS AT 311.80
 R 31370 31380 ZONE OF SILICIFICATION.
 R 31420 31700 FOLIATION IS VERY CONVOLUTED IN THIS ZONE DUE TO THE INTRUSION
 R OF APHANITIC ANDESITE DYKES.
 R GREEN MICA ALTERATION (VERY FINE CHLORITE?) OCCURS ON BOTH SIDES
 R OF THE LAAP DYKELET FOR 5 CM. DYKELET OCCURS AT 315.40
 R 31600 31650 APHANITIC ANDESITE DYKE WITH ABUNDANT CHLORITE FILLED FRACTURES.



A001	277.25	280.25	57814	.281
A001	280.25	282.00	57815	.148
A001	282.00	285.00	57816	.182
A001	285.00	288.00	57817	.123
A001	288.00	291.00	57818	.209
A001	291.00	294.00	57819	.322
A001	294.00	297.00	57820	.302
A001	297.00	300.00	57821	.257
A001	300.00	303.00	57822	.177
A001	303.00	306.00	57823	.251
A001	306.00	309.00	57824	.183
A001	309.00	312.00	57825	.237



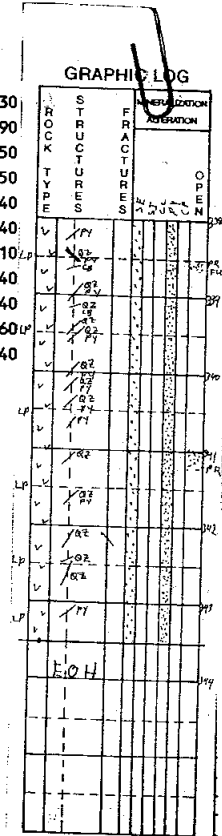
R MINOR QTZ/CARBONATE VEINLETS. GREEN MICA ALTERATION EXTENDS FOR
 R 5CM ON THE UPHOLE SIDE OF THE DYKE ONLY.

D	31200	31500	100	X	120
L			100R2	3130	010
D	31500	31800	100	X	010
L			100R2	3161	010
D	31800	32100	100	X	010
L			100R2	3191	010
D	32100	32400	100	X	110
L			100R2	3222	000
D	32400	32700	100	X	030
L			100R2	3252	030
D	32700	32980	100	X	110
L			100R2	3283	000
N	32980	33280	100	XXLAAP	110
L			73R4	3313	020
R					Q) D.
R					J) V+
R					DARK BLACKISH GREEN WITH A HOMOGENEOUS APPEARANCE. LARGE ZONE OF QTZ/CARBONATE VEINING FROM 331.75 TO 332.10. CL PATCHES AS ASSOCIATED WITH THE QT/CARBONATE. VERY MAGNETIC. VERY MINOR PY SEEN WITH THE QTZ/CARBONATE VEINS. BLOCKY.
A003	32980	33280			3020
R	33280	33300			ZONE OF CHLORITIC ALTERATION
D	33280	33580	100	X	120
L			100R2	3343	010
D	33580	33880	100	X	030
L			100R2	3374	010
D	33880	34100	100	X	020
L			100R2	3405	000
D	34100	34350	100	X	110
L			100R2	3435	010

The A005 assay sets are selected composites based on copper grades and geology

	From	To	Length	Cu %	Au g/t
A005	2.70	123.40	120.70	.059	.388
A005	123.40	135.80	12.40	.771	.663
A005	135.80	146.30	10.50	.040	.037
A005	146.30	171.75	25.45	1.544	.745
A005	171.75	184.90	13.15	.043	.050
A005	184.90	206.00	21.10	1.699	.511
A005	206.00	234.90	28.90	1.083	.430
A005	234.90	250.25	15.35	1.133	.344

A001	312.00	315.00	57826	.302	.130
A001	315.00	318.00	57827	.179	.090
A001	318.00	321.00	57828	.181	0.1750
A001	321.00	324.00	57829	.181	.050
A001	324.00	327.00	57830	.247	.040
A001	327.00	329.80	57831	.177	.040
A001	329.80	332.80	57832	.005	.010
A001	332.80	335.80	57833	.197	.040
A001	335.80	338.80	57834	.180	.040
A001	338.80	341.00	57835	.243	.060
A001	341.00	343.50	57836	.174	.040



A005	250.25	277.25	27.00	.546	-.162
A005	277.25	343.50	66.25	.207	.078
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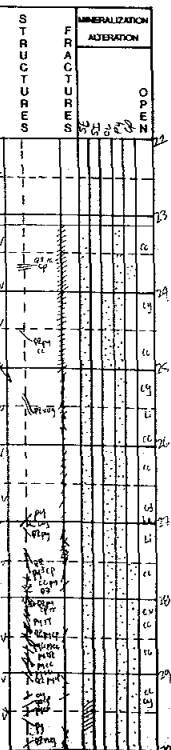
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 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 6300MT 251.50 0.00-90.00 9523.00 9862.00 1573.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTH

S001 6300 18500 251.50 00.00-88.00
 S002 18500 25150 251.50 00.00-88.00
 A003
 AUMM MAG

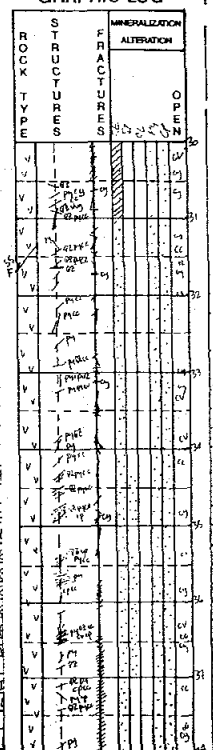
P 000 2320 XCSNG
 L
 R CASING, NO RECOVERY.
 P 2320 2800 61 XTXL 110 P2 P= D+HE <-< CC
 L OR2 244 XXX P+ <+ < <
 R LIGHT TO MEDIUM GREEN, FINE GRAINED WITH FINE LATHE LIKE
 R PHENOCRYSTS THROUGHOUT. FOLIATED, COMPOSITION VARIABLE, UNIFORM
 R TEXTURE. FRACTURED, LITTLE OXIDATION. NOT RUBBLE ZONE, BRITTLE
 R FRACTURES. MAINLY SERICITIC ALTERATION WITH CHLORITIC ALTERATION
 R OF GROUND MASS AND CY ALTERATION OF PHENOCRYSTS. PY DISSEMINATED
 R THROUGHOUT AND AS MICROVEINS. VUGGY QTZ VEINS AT ALL DIRECTIONS.
 R SOME SULPHIDES LEFT, MAINLY PY. MINOR CP MICROVEIN ASSOCIATED
 R WITH NON VUGGY QTZ BRECCIATED VEIN WITH CC MICROVEINS.
 R CHALCOCITE COMMON AS FLAT, BLUE BLACK MICROVEINS ASSOCIATED WITH
 R PY AND QTZ VEINS OR AS COATINGS ON PY CRYSTALS. CY RICH GOUGED
 R AREAS. SPECULAR HEMATITE ALSO ON SOME CY RICH FRACTURE SURFACES.
 R 2320 2400 LITTLE CHL ALTERATION, RESEMBLES PGI BELOW THIS ONE. CONTAINS CP
 R MICROVEIN ASSOCIATED WITH BRECCIATED QTZ.
 R 2400 2460 ABUNDANT CC, 5% ? AS COATING AND MICROVEINS ASSOCIATED WITH PY,
 R QTZ.
 R 2710 2711 SPECULAR HEMATITE ON CY RICH FRACTURE SURFACE.
 P 2800 4740 SEXTUFF P2P=P> D= <><< CCCV
 L G+ <><1 <<C>
 R VERY SIMILAR TO KS-074 STOCKWORK TUFF AND SI TUFF. SIMILAR QTZ
 R VEINS WITH VEINS OF PY-CP GENERALLY AT LOW ANGLES TO CORE AXIS.
 R ROCK HEAVILY SERICITIZED BUT COMPETENT DUE TO SILICIFICATION
 R (GREATEST ADJACENT TO QTZ VEINS). SERICITE INCREASES AT 55 M TO
 R 30%, SI DROPS UNTIL END OF INTERVAL. POSSIBLE PART OF RUBBLE
 R ZONE. LIGHT GREY, WELL FOLIATED, FEW FRAGMENTS. BRECCIATED QTZ
 R VEINS IRREGULAR, BOUDINAGED, WITH ASSOCIATED PY, CP AND CC
 R MICROVEINS THROUGHOUT. SILICIFICATION ADJACENT TO VEINS. VEINS
 R GENERALLY <2CM SOMETIMES DIFFICULT TO TELL FROM TUFF. ALSO HAVE
 R INDIVIDUAL PY AND CP VEINS +/-CC, CV WITHOUT QTZ ASSOCIATION.
 R 5-10% OF MINERALIZATION, MOST ASSOCIATED WITH QTZ. CC/CV QUITE

From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Ag
A001	23.20	26.00	57206	1.100	.290	
A001	26.00	29.00	57207	.880	.140	0.150

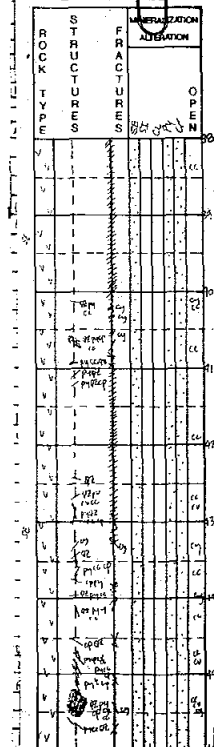
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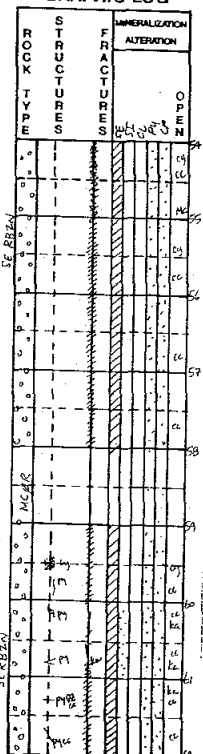
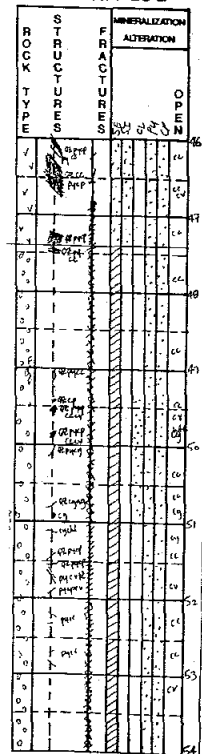


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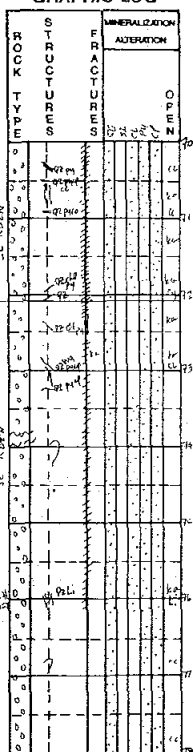
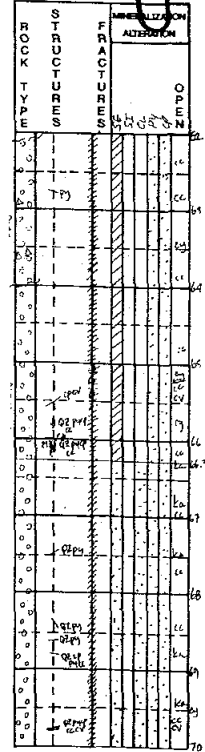


R DOMINANT IN QTZ, WITH PY-CP VEINS AND SOME ALONG FOLIATION.
R GIVES BLUISH TINT TO ROCK. PROBABLY COATING PY OFTEN CENTRALIZED
R SUBHEDRAL PY IN QTZ VEIN WITH STRINGERS/MICROVEINS. SOME VUGGY
R QTZ VEINS, MINOR.
D 2800 3100 87 X 221
L 30R3 305 131
R 3010 3050 VERY GOOD CRYSTALS OF COVELLITE ON FRACTURE OF PY VEIN. BRIGHT
R BLUE BUT COATING PY CRYSTALS.
D 3100 3400 92 X 222
L 16R3 335 222
D 3400 3700 93 X 120
L 17R3 366 221
D 3700 4000 42 X 010
L 0R3 396 XXX
D 4000 4300 55 X 111
L 0R2 427 XXX
D 4300 4740 89 X 121
L 37R3 457 221
R 4330 4400 FOLIATION DISRUPTED, SOME SILICIFICATION BUT LIGHT BLUE/PURPLE
R TINGEDUE TO CY THROUGHOUT. WHITE KAOLIN ON FRACTURE SURFACES.
R 4480 4500 CONCENTRATION OF PY AND CP IN VEINS ALONG FOLIATION. SOME QTZ
R AND CC, MINOR CV?
R 4500 4690 WELL SILICIFIED.
P 4740 6630 SEXRBZN P3P)P= D=MCKA<)<+ CCCV
L G) C-J)<)<1 <+C)
R SAME ROCK TYPE AS SE TUFF. UNIT BASED ON FRACTURE INTENSITY.
R SERICITE INCREASED, SI DECREASED. WHITE CY ON FRACTURE SURFACES
R AND INFILLING VUGGY AREAS ASSOCIATED WITH QTZ VUGGY VEINS AND
R BRECCIATED AREAS MINOR CHL PERVASIVE ALTERATION. FRACTURING
R BLOCK, BECOMES MORE FLAKY AT ABOUT 61 M.
D 4740 5100 50 X 111
L 0R2 488 XXX
R 4740 4900 MUCH LOST CORE.
R 4950 5100 MINOR PERVASIVE CHL ALTERATION.
D 5100 5500 43 X 111
L 0R2 518 XXX
R MARK AT 54.9
R 5300 5500 MISSING CORE, POOR RECOVERY.
R 5480 5481 MINOR LIGHT GREEN MALACHITE COATING FRACTURE SURFACE. FOUND
R ELSEWHERE; MINOR.
D 5500 5900 20 X CC
L 0R1 579 XXX D=
R FLAKY, SERICITIC, ABUNDANT PY, CC. SOME GRANULAR WHITE QTZ.
D 5900 6200 53 X 100
L 0R1 XXX

A001	29.00	32.00	57208	.848	.270
A001	32.00	35.00	57209	1.150	.430
A001	35.00	38.00	57210	1.250	3.060 3.100
A001	38.00	41.00	57211	1.420	.320
A001	41.00	44.00	57212	1.260	.310
A001	44.00	47.00	57213	1.190	.270
A001	47.00	50.00	57214	1.540	.400
A001	50.00	53.00	57215	1.280	.350
A001	53.00	59.00	57216	1.500	.390
A001	59.00	64.00	57217	1.470	.360

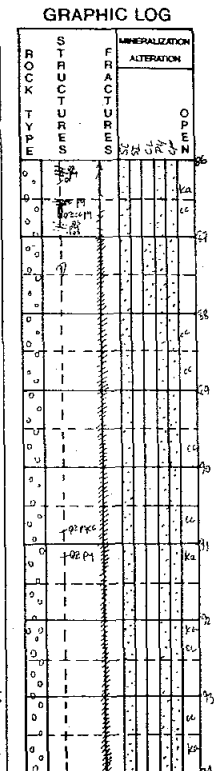
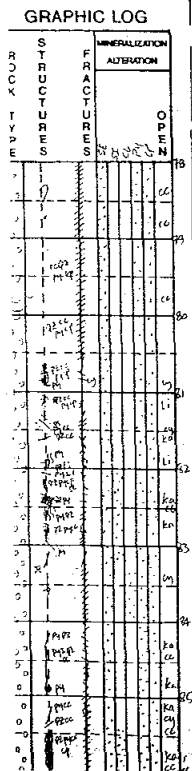
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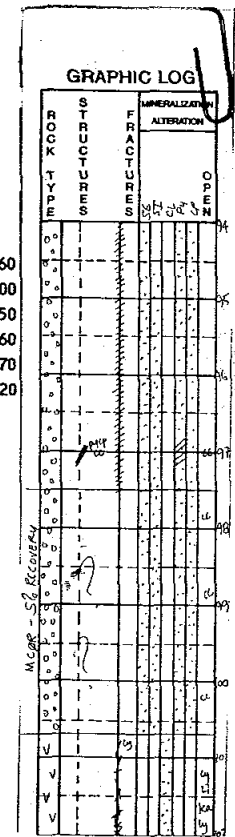
R 6000 6100 MORE COMPETENT, R2, BRECCIATED, SILICIFIED WITH WHITE CY INFILL
 R FEW SULPHIDE VEINS, MAINLY DISSEMINATED.
 R 5940 5960 80% GREY, MASSIVE CY. SOME WHITE STREAKS THROUGH IT. PROBABLY
 R OLD QTZ VEINS.
 R 6100 6200 LITTLE RECOVERY
 D 6200 6500 30 X
 L OR1 640 XXX
 R INTERVAL RESEMBLES MORE TYPICAL RBZN: FLAKY.
 R 6200 6400 VERY POOR RECOVERY, POSSIBLY BRECCIA OR FAULT ZONE?
 D 6500 6630 85 X 020
 L OR1 XXX
 R MORE COMPETENT, FOLIATION VERY DISRUPTED. CC AND CY ABUNDANT
 R (NOT WHITE CY). SANDY AND GRANULAR RUBBLE.
 P 6630 7210 CLXRBN P2 P2 D+KA <>< CC
 L J) <> <<-
 R BLOCKY, GREEN COLOUR BUT NOT COMPLETELY CHLORITIZED; SPOTS OF
 R WHITER MATERIAL PRESENT, WHITE QTZ VEINS GIVE MOTTLED LOOK.
 R BLACK SPECKS PROBABLY DUE TO FINE GRAINED DISSEMINATED PY AND
 R CC. MANY FRACTURES HIGH ANGLE TO CORE AXIS, CROSSCUTTING MEDIUM
 R ANGLE FOLIATION. FOLIATION NOT WELL DEFINED. NOT AS MUCH QTZ AND
 R PY VEINING AS PREVIOUSLY SEEN IN SE RBZN.
 D 6630 6900 50 X 010
 L OR1 671 XXX
 D 6900 7210 47 X 111
 L OR1 701 XXX
 P 7210 10380 SEXRBN P2P<> D+KA <>< CC
 L E) C) << <>
 R VERY SIMILAR TO SEE TUFF AND SE RUBBLE ZONE. LESS SERICITIC THAN
 R THAN PREVIOUS RBZN, PARTICLES ARE ROUNDED, GRAVELLY PIECES.
 R LIGHT GREY TO GREY GREEN, MODERATE FOLIATION, MOTTLED TEXTURE
 R WITH ABUNDANT CROSSCUTTING PY AND QTZ, QTZ-PY VEINS. BRECCIATED
 R QTZ VEINS WITH CC, PY NOT SO COMMON, GENERALLY SMALL VUGGY QTZ
 R VEINS +/-PY, CP AND SMALL PY MICROVEINS WITH QTZ, SOMETIMES QS
 R ENVELOPES, CC STILL DISSEMINATED SPORADICALLY THROUGHOUT AND
 R WITH PY OCCURENCES. CHL ASSOCIATED WITH QTZ VUGGY VEINS, MINOR.
 D 7210 7330 83 X
 L BR2 732 XXX
 R 7330 7620 30 CM CORE RECOVERED, CHLORITIC, KAOLINITE COATINGS, SOME LI
 R STAINS ASSOCIATED WITH QTZ VEINS AT 76.10, HAVE ASH TUFF, LIGHT
 R GREEN, UP TO 30% RUSTY VUGGY QTZ VEIN. CHLORITIC. PROBABLY HAVE
 R CHLORITIZED TUFF IN CONTACT WITH ASH SOMEWHERE BETWEEN 73.30 AND
 R 76.20 M.
 D 7330 7620 10 X P1 LI
 L OR2 762 XXX C+
 D 7620 7930 15 X

A001	64.00	67.00	57218	2.230	.390
A001	67.00	72.10	57219	1.910	.450
A001	72.10	76.20	57220	1.230 1.2100	.250
A001	76.20	81.00	57221	1.250	.220



L OR2 793 XXX
R POOR RECOVERY, ROUND GRAVEL TYPE PIECES. KA ON FRACTURE SURFACES
R SOME CHLORITE ALTERED PIECES, SOME BRECCIATED QTZ VEINS WITH PY,
R CP, CC. PIECES ALL MIXED UP.
D 7930 8200 52 X 110
L OR2 XXX
R 7930 8000 STILL GRAVELLY, 20 CM PARTICLES/PEBBLES.
R 7930 8050 GRAVELLY, MAINLY LIGHT GREY PARTICLES WITH PY, CC, QTZ, +/- CP.
R SOME CHLORITIC FRAGMENTS.
R 8050 8200 LESS GRAVELLY, MORE COMPETENT, SOME LI ON FRACTURE SURFACES.
R 8190 8191 PY SUBHEDRAL VEIN, CRYSTALS LOOK BRECCIATED BRECCIATED AND
R BROKEN PARALLEL PARALLEL TO CORE AXIS. SOME QS ENVELOPES.
D 8200 8500 47 X 210
L OR2 823 XXX
R 8320 8430 ANGULAR, SHARP SMALL CHIPS, POOR RECOVERY, SLIGHTLY MORE
R CHLORITE RICH, SOME BRECCIATED QTZ VEINS.
R 8500 8600 POOR RECOVERY, MAINLY WHITE QTZ VEIN WITH MICROVEINS AND
R DUSTING OF CC, PY, MINOR CP, SOME COVELLITE.
R 8700 8800 <10% RECOVERY.
D 8500 8800 37 X
L OR2 854 XXX
R 8700 8800 SLIGHTLY CHLORITIC, ANGULAR, FLAKY.
D 8800 9100 30 X
L OR2 884
R FRAGMENTS MORE FLAKY: CHIPS. SOME CHLORITIZED PIECES, SOME QTZ
R PIECES, MAINLY SERICITIC WITH DISSEMINATED CC.
D 9100 9450 21 X
L OR2 914 XXX
R SUBROUNDED FLAKES, MAINLY SERICITIC WITH CC. KA ON FRACTUR
R SURFACES. LITTLE CP SEEN.
D 9450 9750 17 X
L OR2 975 XXX
R INTERVAL QUITE COMPETENT, SILICIFIED WITH UP TO 10% SULPHIDES
R PY, CC, CP, POSSIBLY CV.
D 9750 10070 5 X MCOR
L OR2 1006 XXX
R GRAVELLY 97.50 TO 100.60, 2% RECOVERY 100.60 TO 100.70, 90%
R RECOVERY, ALL FRAGMENTS SILICIC WITH CP, PY, CC.
N 10070 10380 40 X TFAH P2 KALI
L 3R2 P2 C=C=
R VERY FINE GRAINED, LIGHT GREEN, EASILY SCRATCHED, POSSIBLY SOME
R PHENOCRYSTS ALTERED TO CY. FRACTURED, WITH CY AND LI IN FRACTURE
R PLANES AND VUGS. SOME MINOR TUFF RUBBLE WITHIN INTERVAL WITH QTZ
R CC, BORING. SOME DARK GREEN CHLORITE ON FRACTURE SURFACES. MAY
R BE APHANITIC LATITE (LAAP).

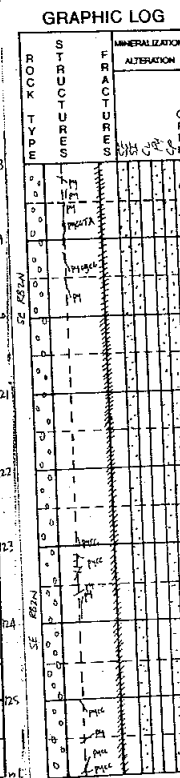
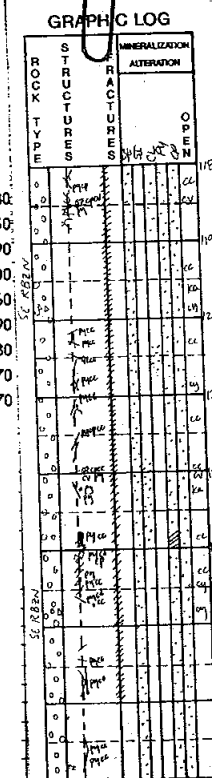
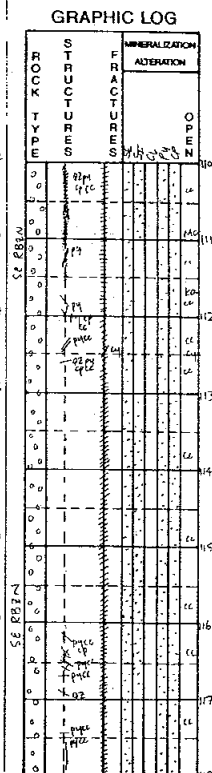
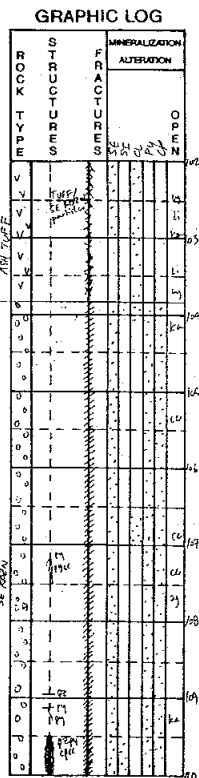
A001	81.00	84.00	57222	1.250	.260
A001	84.00	87.00	57223	.640	.400
A001	87.00	91.00	57224	.880	.150
A001	91.00	94.50	57225	1.010	.160
A001	94.50	100.70	57226	.524	.170
A001	100.70	103.80	57227	.732	.120

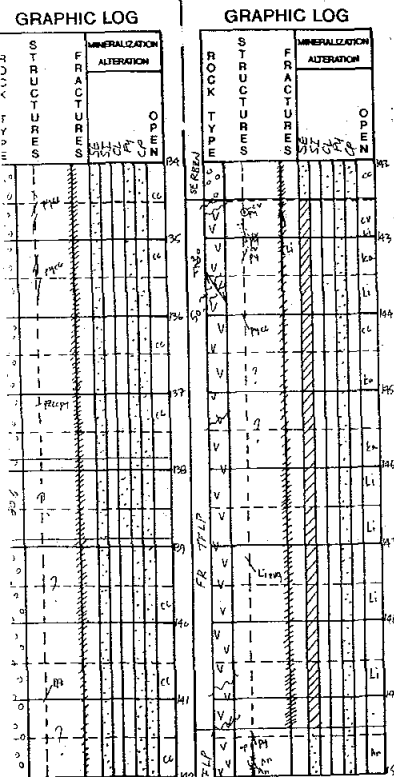


P 10380 14250 SE RBZN P2 P) D=KA <<< CCMC
 L C) << <)C-
 R LIGHT GREY, FLAKY TO BLOCKY, COMPETENT WITH RESPECT TO SE RBZN
 R (72.10-103.80). ABUNDANT BRECCIATED QTZ VEINS WITH PY, CP, CC.
 R INDIVIDUAL PY MICROVEINS WITH CC AND DISSEMINATED PY. MINOR
 R MC ON FRACTURE SURFACES. KA PRESENT BUT NOT SO COMMON.
 R SILICIFIED SECTIONS PROXIMAL TO QTZ VEINS. MINOR PATCHY CHLORITE
 R ALTERATION. INTERVAL IN GENERAL QUITE VUGGY. LOSS OF BRECCIATED
 R QTZ VEINS WITH DEPTH INTO MORE PY-CC MICROVEINING. APPROXIMATELY
 R 120 TO END.
 D 10380 10700 22 X
 L OR2 1067
 R ANGULAR CHIPS, PY, CC, QTZ IN GREY MATRIX. POOR RECOVERY.
 R SLIGHTLY CHLORITIC PROXIMAL TO ASH TUFF.
 D 10700 11000 67 X
 L OR2 1097
 R 10950 11000 SILICIC, WITH PY, CC, CP
 D 11000 11300 73 X
 L OR2 1128 XXX
 R 11000 11150 SILICIFIED, ABUNDANT CC, PY +/-CP
 R 11098 11099 MINOR MC ALONG FRACTURE.
 D 11300 11600 17 X
 L OR2 1158 XXX
 R ANGULAR JUMBLED PIECES, NOT REALLY FLAKY. HEAVILY SERICITIZED.
 D 11600 11900 87 X 120
 L OR2 1189 XXX
 R MORE COMPETENT BUT VERY FRACTURED, GENERALLY MED TO LARGE ANGLE
 R FRACTURES TO CORE AXIS. SANDY COMPONENT, MINOR LI STAINS.
 D 11900 12200 88 X 221
 L OR2 1219 XXX
 R 12150 12160 PY-CP VEIN AT 25 DEGREES, 0.5 CM WIDE, CC/CV UP TO 20% OF VEIN,
 R GRANULAR VEIN.
 R 12000 12030 MINOR CHLORITE.
 R 12200 12210 QTZ VEIN, GRANULAR TO SANDY WITH CP, PY, CV, CC. MINOR VEIN.
 D 12200 12500 62 X 221
 L OR2 1250 XXX
 R 12290 12300 IRREGULAR SUBHEDRAL PY VEIN, MINOR CC, CP. SILICIFIED ZONE.
 R 12370 12500 POOR RECOVERY- 60CM CORE, RELATIVELY COMPLETE.
 D 12500 12800 80 X 200
 L OR2 1250 XXX
 D 12800 13100 23 X
 L OR2 1280 XXX
 R JUMBLED, SOMEWHAT FLAKY INTERVAL, POOR RECOVERY.
 D 13100 13400 50 X
 L OR2 1311 XXX

A001	103.80	108.00	57228	.944
A001	108.00	111.00	57229	.568
A001	111.00	115.80	57230	.632
A001	115.80	119.00	57231	.740
A001	119.00	122.00	57232	.808
A001	122.00	125.00	57233	.632
A001	125.00	128.00	57234	.552
A001	128.00	133.00	57235	.536
A001	133.00	137.00	57236	.632

.180
.130
.090
.100
.160
.090
.080
.070
.070





D 13400 13700 43 X
 L OR2 1341 XXX
 R VERY CORNFLAKY, PARTICLES BRITTLE, MINERALIZATION SINCE APPROX.
 R 120 M IS A PERVASIVE CC DISSEMINATIONS, PY WITH CC AS MICROVEINS
 R WITH QS ENVELOPES. SOME SILICIFICATION BUT FEW QTZ VEINS. [CP]
 R EITHER DECREASED OR FINELY DISSEMINATED.

D 13700 14250 11 X
 L OR2 1402 XXX
 R 13780 13890 DEPTHS ESTIMATED, ONLY 10 CM CORE. SMALL LIGHT TO MEDIUM GREEN
 R TUFF IN CONTACT WITH PGI, CONTACT AT 20 DEGREES TO CORE AXIS,
 R CHLORITIZED. ASH TUFF IS WEAKLY FOLIATED WITH VUGGY VEINS COATED
 R WITH LI.

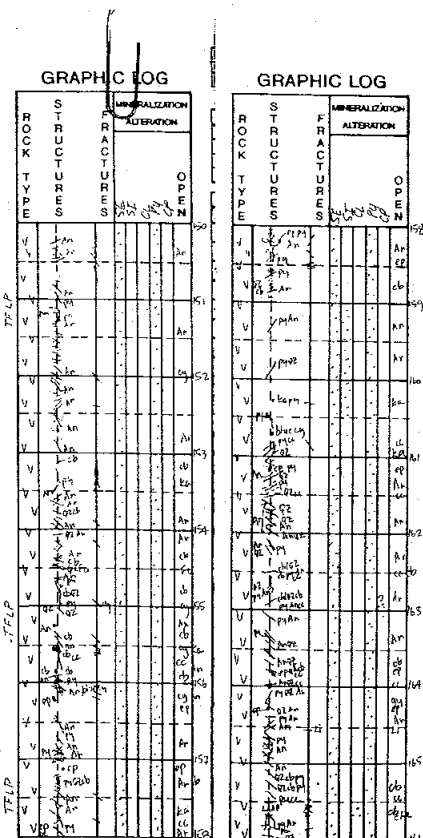
R 14020 142505 CM CORE, ROUNDED PEBBLES WITH CC, PY, QZ +/- CHLORITE.
 P 14250 14940 FR TFLP P3 D+LIKAD-<+ CVCC
 L J2 C=C+ E-D*
 R LOOKS VERY SIMILAR TO RBZN AT 135 M EXCEPT MORE OXIDIZED AND
 R BRECCIATED. TUFF FRAGMENTS VISIBLE, SAME ROCKTYPE AS BELOW.
 R HEAVILY SERICITIZED. UNIQUE FRACTURE PATTERN (SEE ALSO 135 M);
 R CROSSCUTS FOLIATION IN A REGULAR PATTERN. FOLIATION AT 30-40
 R DEGREES TO CORE AXIS, FRACTURE PATTERN AT -50 DEGREES (45-60)
 R IN OPPOSITE DIRECTION. 80% OF BREAKS IN ROCK OCCUR ALONG
 R FRACTURE PATTERN WITH KA AND LI COATINGS, 20% OCCUR ALONG
 R FOLIATION PLANES ALSO WITH KA AND LI COATINGS. SAME FRACTURE
 R PATTERN CAN ALSO BE SEEN VAGUELY IN VERY COMPETENT ROCK BENEATH
 R THIS PGI. PY DISSEMINATED 2-5%, MINOR CC COATINGS, MINOR PY
 R MICROVEIN AT 143 M HAS COVELLITE ENVELOPE, POSSIBLY AS PART OF
 R ALTERATION OF SOME FRAGMENTS. VERY MINOR CP, PY EUHEDRAL,
 R EXTREMELY SHARP CONTACT WITH UNIT BELOW, RECOVERY/RQD IMPROVES
 R QUICKLY.

D 14250 14600 19 X
 L OR2 1433 XXX
 R 14250 14440 RELATIVELY COMPETENT, COMPLETE.
 R 14440 146005-10 CM CORE ONLY

D 14600 14940 21 X
 L OR2 1463 XXX
 R LOSE SOME LIMONITIC STAINING AT END OF INTERVAL. RETURN TO SE
 R RBZN LOOKING MATERIAL.

P 14940 16890 XTFLP P1 Q<.<D+AHFU<*Q) KA
 L <Q) Q) K1B. <+ C)
 R LIGHT GREY, VERY MOTTLED, PATCHY TEXTURE. VERY HARD, COMPETENT,
 R SLIGHTLY SERICITIZED (CAN BE SCRATCHED) WITH SOME PATCHES OF
 R BLUE CY ALTERATION (POSSIBLY BLUE GYPSUM), SIMILARLY WITH CHL
 R ALTERATION. FRAGMENTS OF VARIOUS ORIGIN, ANGULAR TO ROUND,
 R ELONGATE PARALLEL FOLIATION. FOLIATION WEAK AT BEST. FRAGMENTS
 R ALTERED SELECTIVELY WITH FU, EP, PY AND/OR CHL OR CY. MAFIC

A001	137.00	142.50	57237	.504	.080
A001	142.50	149.40	57238	.226	0.2220 .110



R FRAGMENTS TEND TO BE FU, PY-CHL ALTERED, OTHERS SERICITIC OR
R BLUE CY ALTERED. EARLIER PY-QTZ-CB OR PY-CB VEINING AND PATCHES
R COMMON. PY MICROVEINS ARE NOT. EVERYTHING CROSSCUT AND MIXED UP
R BY WHITE ANHYDRITE STOCKWORK VEINING TO PATCHY. VEIN/PATCH EDGES
R VERY VAGUE, DIFFICULT TO DISTINGUISH VEIN FROM MATRIX: MOTTLED
R PATCHY APPEARANCE. DIFFICULT TO DISTINGUISH QTZ FROM CB FROM AN
R LATER CLEAR AN/GY PRODUCES VERY ANGULAR SMALL MICROVEINS ACROSS
R ALL, SOMETIMES RECESSIVE IN CORE (EASY TO SEE).

R SEE PGI (142.50-149.40) FOR FRACTURE PATTERN DESCRIPTION.

D 14940 15300 69 X 221
L 63R3 1524 100
R 15060 15080MAFIC FRAGMENT, UP TO 10% DISSEMINATED PY, BOUNDED BY CY, AN.
R 15260 15285SEVERAL BLACK MAFIC FRAGMENTS, ABUNDANT PY, CHL ALTERATION.

D 15300 15600 100 X 222
L 77R3 1554 211
R 15300 15360LARGE FRAGMENT, DACITIC WITH DISSEMINATED PY, BLuish ALTERATION
R SOFT.

R 15405 15600CB PATCHES WITH QTZ, PY, ANHYDRITE PATCHES ALSO. HAVE
R DISSEMINATED CC ASSOCIATED WITH CB RICH AREAS.

D 15600 15900 94 X 211
L 90R3 1585 111

R CLOSE ASSOCIATION BETWEEN ANHYDRITE AND BLUE CY ALTERATION (MAY
R BE BLuish GY/AN?)

R 15710 15735HIGH CONCENTRATION OF SUBHEDRAL PY WITH INTERSTITIAL CB-Qtz,
R POSSIBLY AN? (MINOR)
R SOME PY REMOBLIZED INTO LATE STAGE VEINS, SOME ASSOCIATED WITH
R AN.

R 15850 15900Qtz RICH, WITH CB. MINUTE CLEAR GY-AN VEINS CROSSCUT ALL, VERY
R ANGULAR. GY VEINS -1-2%, LITTLE CLOUDY WHITE AN. USE GY TO
R DISTILNGUISH FROM CLOUDY WHITE AN.

D 15900 16200 100 X 121
L 98R3 1615 000

R 15900 16100Qtz RICH, LITTLE AN EXCEPT SMALL MICROVEINS OF CLEAR GY
R THROUGHOUT. MOTTLED DUE TO VAGUE, IRREGULAR Qtz VEINS WITH PY
R TROUGHOUT (PY SUBHEDRAL)

D 16200 16500 95 X 121
L 88R3 1646 000

R 16230 16280SILICIFIED, ABUNDANT SUBHEDRAL PY VEINS WITH INTERSTITIAL Qtz-
R CB +/-AN. LARGER VEINS ALSO HAVE CHL ALTERATION AND FLAT BLUE-
R BLACK CC BLEBS AND MICROVEINS. NO CP VISIBLE.

R 16390 16391SMALL BLEB OF CP? IN Qtz-AN VEIN. MAY BE TARNISHED PY?

R 16420 16500SOME CLEAR GY MICROVEINS.

D 16500 16810 97 X 122

L 83R3 1676 011

R 16500 16550ABUNDANT PY VEINS WITH Qtz ENVELOPE, CHL, CC. Qtz-CB-PY IN VEINS

A001	149.40	153.00	57239	.057	.110
A001	153.00	156.00	57240	.103	.110
A001	156.00	159.00	57241	.266	.110
A001	159.00	162.00	57242	.256	.080
A001	162.00	165.00	57243	.230	.110
A001	165.00	168.00	57244	.370	.110 0.100

74 2500

GRAPHIC LOG

GRAPHIC LOG

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION		OPEN
		ALTERATION	ALTERATION	
V	Fractures	Py	Qtz	66
V	Fractures	Py	Qtz	67
V	Fractures	Py	Qtz	68
V	Fractures	Py	Qtz	69
V	Fractures	Py	Qtz	70
V	Fractures	Py	Qtz	71
V	Fractures	Py	Qtz	72
V	Fractures	Py	Qtz	73
V	Fractures	Py	Qtz	74

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION		OPEN
		ALTERATION	ALTERATION	
V	Fractures	Py	Qtz	66
V	Fractures	Py	Qtz	67
V	Fractures	Py	Qtz	68
V	Fractures	Py	Qtz	69
V	Fractures	Py	Qtz	70
V	Fractures	Py	Qtz	71
V	Fractures	Py	Qtz	72
V	Fractures	Py	Qtz	73
V	Fractures	Py	Qtz	74

R AND PATCHES.

R 16550 16570 LIGHT GREEN LAAP (APHANITIC LATITE) WITH CB-CHL MICROVEINS. KA ON FRACTURES, LITTLE SULPHIDES.

R 16600 16750 INTENSE AN STOCKWORK: ANGULAR, IRREGULAR VEINS UP TO 0.3 CM, ALL DIRECTIONS, SOMETIMES WITH QTZ-PY. LITTLE CB.

R 16650 16655 CP-PY VEIN WITH INTERSTITIAL QTZ AT 40 DEGREES TO CORE AXIS. UNDEFINED CONTACTS. AN INTERMIXED WITH VEIN, NOT REALLY CROSS-CUTTING.

R 16600 16750 POSSIBLY SOME PERVASIVE KF ALTERATION-HARD, YELLOW-PINK COLOUR OF MATRIX.

R 16750 16760 VERY FINE GRAINED PY +/- CP VEIN/CONCENTRATION. MICROFRACTURES PARALLEL TO CORE AXIS. POSSIBLY INFILLED WITH CLEAR GY. AN-Qtz BORDER.

R 16810 16811 CONTACT WITH LAAP SHARP, 90 DEGREES TO CORE AXIS, SOME CB-Qtz-CC POSSIBLE TENSION GASHES PERPENDICULAR TO CONTACT.

R 16810 16890 94 XLAAP P3 D-CLLI<. AH Q1 Q=<C=Q1 <= DARK-MEDIUM GREEN WITH EXTENSIVE VEINS AND PATCHES OF IRREGULAR Qtz-CB-CHL +/- BROWN CY.

E 16890 20210 XTFLP P1 O)D)D+AH <) CC <.Q) <= K2 <)

R SIMILAR TO PREVIOUS TFLP, EXCEPT ABUNDANT Qtz-PY +/- CB STOCKWORK IRREGULAR VEINS. ANHYDRITE VEINS LESS COMMON, RESTRICTED TO SMALL LATE STAGE MICROVEINS (GY) THAT CROSSCUT MOST OTHER FEATURES, PY AS DISSEMINATIONS, MAINLY ASSOCIATED WITH Qtz IRREGULAR STOCKWORK. MINOR CP, CC, ASSOCIATED WITH SUBHEDRAL PY. SERICITIC ALTERATION, 10%, LITTLE OTHER ALTERATION, PERHAPS SPOTTY KF ALTERATION? EP AND CHL MAINLY AS ALTERATION OF FRAGMENTS, PERVASIVE FOR LAST 4 M OF INTERVAL, SLIGHTLY MORE ANHYDRITE AT TOP OF PGI.

D 16890 17200 97 X 222

L 97R4 1707 000

R 17130 17150 SILICIFIED, SOME EP ALTERATION, ABUNDANT SUBHEDRAL PY, ABUNDANT GY MICROVEINS.

R 17150 17260 SILICIFIED, PURPLE COLOUR, ABUNDANT SUBHEDRAL PY, POSSIBLY SOME CP, CC, KF ALTERATION.

R 17230 17240 IRREGULAR Qtz-PY-CP-CC PATCH. ANHYDRITE MICROVEINS.

R 17150 17500 POSSIBLY KF ALTERATION.

D 17200 17500 93 X 221

L 93R4 1737 001

R INTENSE ANGULAR AN-GY MICROVEINS CROSSCUT EVERYTHING.

R 17480 17500 MINOR FU ALTERATION WITH PY-CC MICROVEINS +/- Qtz

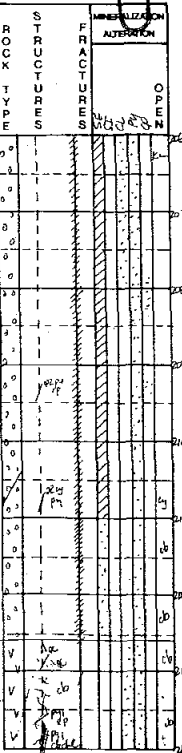
D 17500 17800 100 X 222

L 96R4 1768 100

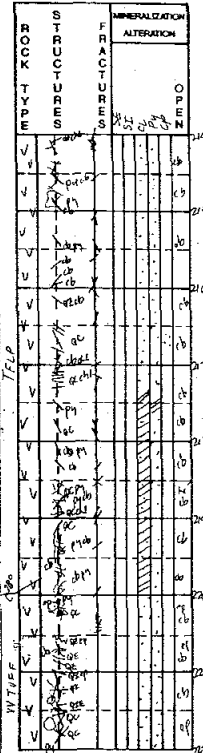
R ENTIRE INTERVAL CONTAINS BOTH Qtz AND GY STOCKWORK.

A001	168.00	171.00	57245	.183	.080
A001	171.00	174.00	57246	.362	.060
A001	174.00	177.00	57247	.252	.080
A001	177.00	180.00	57248	.147	.060

GRAPHIC LOG



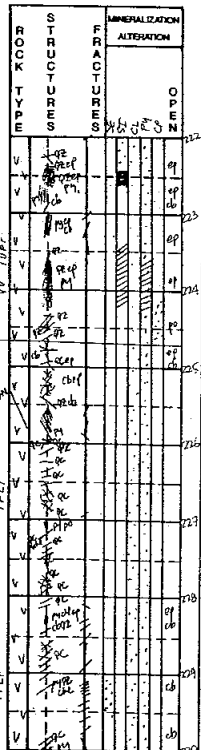
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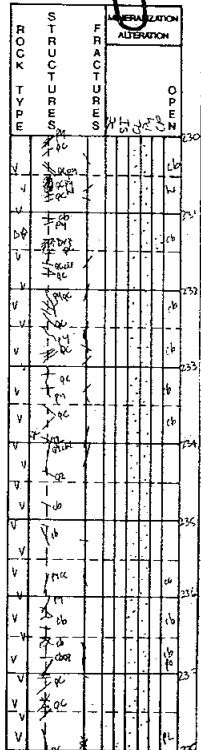
R NO OXIDATION. SOME KA INFILLS VUGS. NO FRACTURE PATTERN AS SEEN
R IN PREVIOUS RBZN. SOME QS ENVELOPES AROUND PY VEINS.
D 20210 20500 43 X
L OR2 2042 XXX
D 20500 20800 67 X
L OR2 2073 XXX
D 20800 21100 67 X
L OR2 2103 XXX
D 21100 21260 81 X
L OR2 XXX <)
R INTERVAL MORE BLOCKY, POSSIBLY MC OR FUCHSITE ON FOLIATION
R PLANES AT 212.0 M. PARTS ALONG FOLIATION. WELL FOLIATED, CB, PY
R VEINS.
P 21260 25150 8TFLP P2B*D=QCCLD* PO
L K1<) D)
R MEDIUM GREEN BROWN, COMPETENT, WEAK-MODERATE FOLIATION, FELSIC
R INT. COMPOSITION OF FRAGMENTS, UP TO 10 CM ROUND TO ANGULAR,
R SHARP BOUNDARIES. PERVASIVE CHL ALTERATION PATCHY, SPORADIC;
R PERVASIVE BROWN ALTERATION OF MATRIX THROUGHOUT MOST OF INTERVAL
R PY DISSEMINATED TO SPOTTY, AS ALTERATION OF FRAGMENTS WITH CHL.
R EXTENSIVE CB AND QTZ-CB IRREGULAR STOCKWORK. NO PY OR QZ-PY
R VEINING PO DISSEMINATED AND PATCHY, ASSOCIATED WITH PY, BRONZE-
R GOLD COLOUR, ALSO ASSOCIATED WITH QTZ-CB +/-PY VEINS. SOME CP
R WITH PO-PY
R 21370 21400WELL BANDED PY-CB-CHL ZONE AT 20 DEGREES TO CORE AXIS.
D 21260 21600 91 X 220
L 69R3 2134 210
R 21400 21520PY PATCHY, INTERSTITIAL B/N FRAGMENTS.
A003 21260 21600 0
D 21600 21980 97 X 221
L 75R3 2164 220
R 21665 21666PY-CP BLEB, SOME CHL MICROVEINS.
R 21730 21980HIGH FRAGMENT CONCENTRATION, CHLORITIZED, VEIN TO PERVASIVE CB,
R VERY MOTTLED, BRECCIATED WITH CB-PY INFILL. MAINLY PY, POSSIBLY
R CP DISSEMINATED, INTERSTITIAL. SLIGHTLY MAGNETIC. YELLOW CB
R PERVASIVE, WHITE CB VEINS. POSSIBLY SOME HE MICROVEINS
R ASSOCIATED WITH QC, PY.
N 21980 22460 94VVXTUFF 122 P+P+ P)D=EPQCB*Q+ PO
L 67R3 2225 110 V)<= V+ B)
R MEDIUM TO LIGHT GREEN, BLEACHED, MOTTLED, VEINED/STOCKWORK,
R WELL FOLIATED. BANDED AT 5-20 DEGREES TO CORE AXIS WITH PY, CB,
R BLACK FINE GRAINED STUFF-ARGILLITE?, EP. CROSSCUT BY QTZ AND QC
R VEINS AND INTENSE STOCKWORK IN AREAS (LIKE WEBBING).
R SILICIFICATION AND GREEN EPIDOTIZATION SPORADIC THROUGHOUT.
R CREAM EP ASSOCIATED WITH QTZ VEINS. INTERVAL POSSIBLY STRINGER

A001	202.10	205.00	57257	.260	.170
A001	205.00	207.00	57258	.221	.130
A001	207.00	210.00	57259	.248	.130
A001	210.00	212.60	57260	.148	0.1520 .130
A001	212.60	216.00	57261	.027	.080
A001	216.00	219.80	57262	.029	.110
A001	219.80	223.00	57263	.032	.090
A001	223.00	226.00	57264	.026	.180

GRAPHIC LOG



GRAPHIC LOG



R ZONE TO VMS? SPORADICALLY MAGNETIC UP TO 60 X 10 (-5 POWER),
R CORRESPONDS WITH SULPHIDE CONCENTRATIONS.
R 22200 22260 SILICIFIED-EPIDOTIZED ZONE WITH PY BLEBS, EXTENSIVE STOCKWORK.
R LARGE QTZ-EP VEIN 222.40-222.60. EP GROWING FROM EDGES,
R PERPENDICULAR TO CONTACT, WELL BANDED BENEATH QTZ-EP PATCH.
R 22360 22435 QTZ EP VEIN, HOST ROCK VERY SULPHIDE RICH, SILICIFIED. CP, PO IN
R HOST ROCK AT BOTTOM CONTACT. HIGH MAG.
D 22460 22800 100 X 333
L 76R3 2256 100
R 22540 22580 SOME BANDING, SIMILAR TO VEINED TUFF NESTED INTERVAL.
D 22800 23100 97 X
L 47R3 2286
R 22935 23010 SIMILAR TO VEINED TUFF, SOME BANDING, EXTENSIVE STOCKWORK.
R BLEACHED, BANDED. POSSIBLY SOME CC.
R 22830 22835 CHL AND EP ALTERATION ASSOCIATED WITH SUBHEDRAL PY BLEBS.
D 23100 23400 87 X 121
L 75R4 2316 210
R 23130 23140 HOST ROCK BRECCIATED, INFILLED WITH QC, PY, CP.
R 23280 23400 PROBABLE CRYSTAL TUFF, EUHEDRAL PF CRYSTALS, UNIFORM FINE
R GRAINED MATRIX.
D 23400 23700 97 X 221
L 72R4 2347 111
R INTERVAL COMPETENT, GOOD LAPILLI TUFF, BROWN MATRIX, MAG
R INDICATES PO.
R 23435 23470 EUHEDRAL DISSEMINATED PY, MINOR SUBHEDRAL PY, DIFFERENT, A
R LITTLE CB.
A003 23400 23700 350
D 23700 24000 97 X 121
L 90R4 2377 111
A003 23700 24000 100
R 23890 23900 BRECCIATED WITH QC INFILL.
R 23900 23901 FIRST APPEARANCE OF PO WITH PY DISSEMINATED. MAG SUSCEPTIBILITY
R INCREASE.
D 24000 24300 97 X 222 PO
L 88R4 408 100 B=
R INTERVAL HEAVILY STOCKWORKED, ABUNDANT PO.
R 24100 24102 GREEN MOSSY COATING WITH BLACK ON FRACTURE SURFACES.
R 24275 24280 COARSE PY-PO-CHL VEIN, CROSSCUT BY QC STOCKWORK.
D 24300 24600 95 X 121
L 50R4 2438 221
A003 24300 24600 300
R 24460 24480 YELLOW CB PATCH, ANGULAR, SHARP BOUNDARIES.
D 24600 24900 91 X 022
L 51R4 2469 220
A003 24600 24900 250

A001 226.00 229.00 57265 .026 .070
A001 229.00 232.00 57266 .042 .060
A001 232.00 235.00 57267 .013 .060
A001 235.00 238.00 57268 .015 .050
A001 238.00 241.00 57269 .024 .040
A001 241.00 244.00 57270 .019 .030
A001 244.00 247.00 57271 .023 .060
A001 247.00 251.50 57272 .016 .080

D 24900 25150 100 X 112
 L 75R4 2499 111
 A003 24900 25150 150

The A005 assay sets are selected
 composites based on copper grades
 and geology

	From	To	Length	Cu %	Au g/t
A005	23.20	47.40	24.20	1.144	.635
A005	47.40	108.00	60.60	1.219	.282
A005	108.00	142.50	34.50	.610	.093
A005	142.50	202.10	59.60	.225	.099
A005	202.10	212.60	10.50	.221	.141
A005	212.60	251.50	38.90	.024	.077
/end					

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION		OPEN	ELEVATION
			MINERALIZATION	ALTERATION		
V	rc					230
V	rc					231
V	rc					232
V	rc					233
V	rc					234
V	rc					235
V	rc					236
V	rc					237
V	rc					238
V	rc					239
V	rc					240
V	rc					241
V	rc					242
V	rc					243
V	rc					244
V	rc					245
V	rc					246
V	rc					247
V	rc					248
V	rc					249
V	rc					250
V	rc					251
V	rc					252
V	rc					253
V	rc					254
V	rc					255
V	rc					256
V	rc					257
V	rc					258
V	rc					259
V	rc					260

GRAPHIC LOG

ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION		OPEN	ELEVATION
			MINERALIZATION	ALTERATION		
V	rc					261
V	rc					262
V	rc					263
V	rc					264
V	rc					265
V	rc					266
V	rc					267
V	rc					268
V	rc					269
V	rc					270
V	rc					271
V	rc					272
V	rc					273
V	rc					274
V	rc					275
V	rc					276
V	rc					277
V	rc					278
V	rc					279
V	rc					280
V	rc					281
V	rc					282
V	rc					283
V	rc					284
V	rc					285
V	rc					286
V	rc					287
V	rc					288
V	rc					289
V	rc					290

IDEN680201 KERR KS-0768QWL15AUG90DJB JTTAUG90S38 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 3500MT 141.30090.00-70.00 9391.00 9876.00 1513.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM

S001 3500 8800 141.30090.00-71.00
 S002 8800 14130 141.30090.00-75.00
 A003

ALUMM MAG
 P 000 760 CSNG

R CASING, NO CORE RECOVERED.

P 760 860 MCOR

R NO CORE RECOVERED, TOO WEATHERED

P 860 1360 900XTFXL P= LI CC
 L GOR1 91 XXXX P5 P1 P1
 R HIGHLY OXIDIZED, VERY SOFT, CLAY RICH, LEACHED CRYSTAL TUFF.
 R CORE IN WHITE WITH JAROSITE STAIN FROM (8.6 TO 9.5 M), LIMONITE
 R STAINED WITH CHALCOCITE BANDS FROM (9.5 TO 12.2 M) AND
 R CHALCOCITE STAINED 10% FROM (12.2 TO 14.4 M). MODERATE FOLIATION
 R AT 60 DEGREES CA. 5% DISSEMINATED PYRITE CUBES IN CHALCOCITE
 R SECTIONS.

P 1360 2650 SKXTFXL P2 P1 D+ B) CC
 L V+ C) V1 C)

R MOTTLED GREY AN WHITE, SERICITE ALTERED CRYSTAL TUFF, WITH
 R NUMEROUS BOUDINAGED QTZ PYRITE VEINS WHICH HAVE CREAM COLOURED
 R CALCITE INFILLING. THE QTZ-PYRITE VEINS FORM A STOCKWORK WHICH
 R GRADUALLY DECREASES IN INTENSITY DOWN SECTION. THE CHLORITE
 R CONTENT OF THE MATRIX INCREASES DOWNWARD TO 23.0 M AND THEN
 R DIMINISHES. PYRITE- DISSEMINATED IN MATRIX AND IN QTZ-VEINS,
 R CHALCOCITE COATS PYRITE ALONG FRACTURES AND IN FRACTURED VEINS.
 R WHILE CLAY COATS FRACTURES.

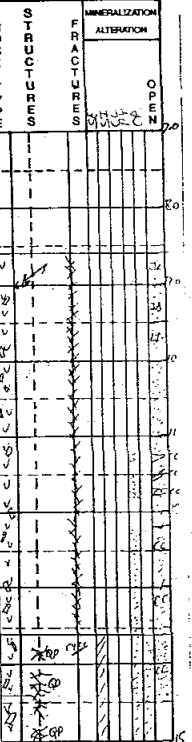
D 1360 1700 81 X 444 C)
 L 56R2 152 122 V3

R CHALCOPYRITE 1% OCCURS ON FRACTURES.

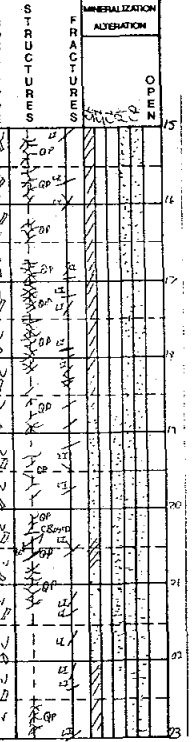
D 1700 2000 87 X 333 P1 P2
 L 47R2 183 222 V1
 R 1900 2000 INCREASE IN CHLORITE ALTERATION, SLIGHT BLUE TINGE TO CORE
 D 2000 2300 87 X 222
 L 82R3 213 121
 D 2300 2650 100 X 122
 L 65R2 244 222

	From	To	Sample	Cu %	Cu % Au g/t	Au g/t
				(dupl)	(dupl)	
A001	8.60	13.60	56632	.564		.230
A001	13.60	17.00	56633	.616		.220
A001	17.00	20.00	56634	.656		.320
A001	20.00	23.50	56635	.848		.420
A001	23.50	26.50	56636	.904		.230

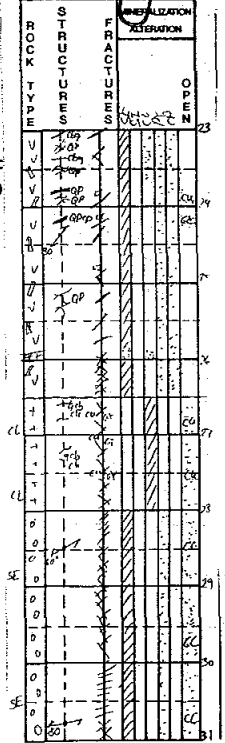
GRAPHIC LOG



GRAPHIC LOG

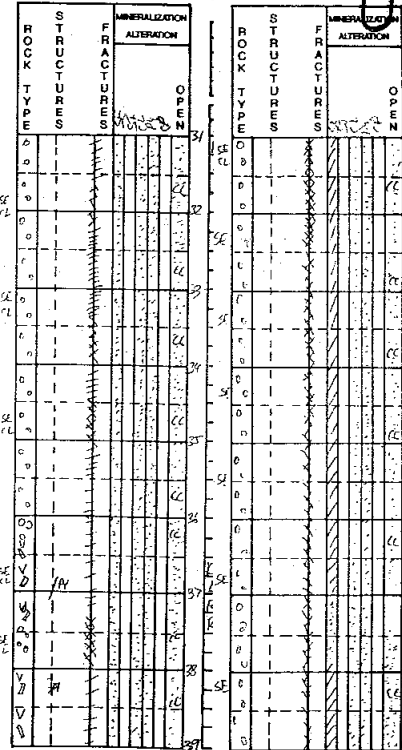


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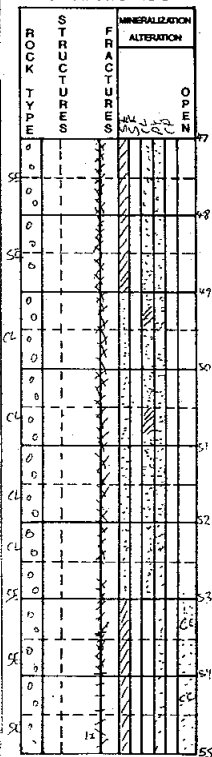
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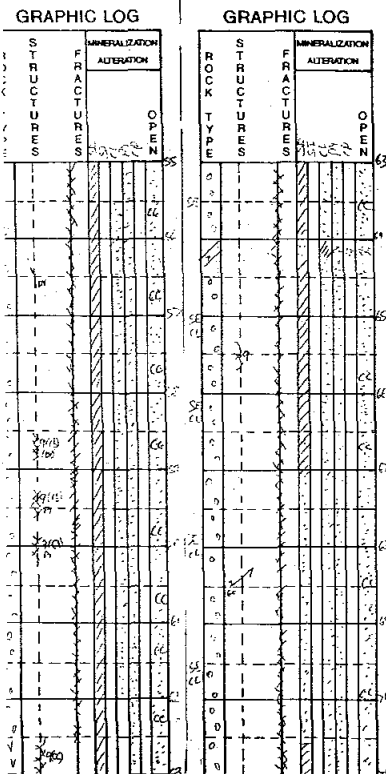


R 2400 2410 NATIVE COPPER OCCURS AS CRYSTALS ON FRACTURE SURFACES
R 2420 2440 CHALCOCITE COATS FRACTURE PLANES IN QTZ-PY-CP VEIN.
R 2580 2600 BLEACHED FINE GRAINED ANDESITE DYKE
P 2650 2800 71 CLXANDY 111 P3 GYLI CU
L 00R2 244 333 C) C+C+ C)
R FINE GRAINED, DARK GREEN, UNIFORM, FRACTURED ANDESITE DYKE
R WITH QTZ-CARBONATE-CHLORITE EXTENSION VEINS AND CLAY-GYPSUM
R (SECONDARY)- NATIVE COPPER- LIMONITE ON FRACTURES. THE VEINS
R ARE LEACHED OF CALCITE AND THE DYKE IS CHLORITE ALTERED.
P 2800 10120 SEXRBZN P1 P= D= CC
L C) <)<) C)
R HIGHLY FRACTURED, BLOCKY TO CORNFLAKE TO COMPETENT CORE.
R SOFT H=3, MOTTLED GREY AND GREEN DEPENDING UPON ALTERATION.
R ALTERATION VARIES FROM SERICITE TO SERICITE-CHLORITE. THE ROCK
R IS INTENSIVELY FOLIATED IN SERICITE ALTERATION AREAS. 80 DEGREES
R CA. FEW PYRITE VEINS CROSSCUTTING FOLIATION 0.5MM IN THICKNESS.
R QTZ VEINS ARE COATED WITH CHALCOCITE 1% POKER CHIP PIECES OF
R SCHIST HAVE CHALCOCITE ON FRACTURE PLANES 5% FELDSPARS ARE STILL
R VISIBLE IN SERICITE-CHLORITE ALTERED ROCKS. THIS UNIT MIGHT BE
R AN ALTERED CRYSTAL TUFF.
D 2800 3100 69 X P3 P. D1 CCMO
L 00R2 305 XXX C+C.
R 2830 2831 MOLYBDENITE COATS FOLIATION PLANE
D 3100 3620 64 X P2 P1
L 00R2 335 XXX
R SERICITE-CHLORITE ALTERATION INCREASES DOWN THE HOLE, FELDSPARS
R ARE STILL VISIBLE IN THIS ALTERATION.
D 3620 3960 80 CLXFXL
L 21R2 366 336
R MORE COMPETENT CORE, SERICITE-CHLORITE ALTERED, FELDSPARS ARE
R STILL VISIBLE, VERY WEAKLY FOLIATED.
D 3960 4460 41 X P)
L 00R2 427 XXX
D 4460 4880 71 X P)
L 00R2 457 XXX
D 4880 5180 99 CLXRBZN P1 P2
L 14R2 488 XXX
R SUGARY QTZ CRYSTALS IN VUGS, LINE FRACTURES WITH WHITE CLAY;
R DISSEMINATED PYRITE IN VUGS.
D 5180 5490 94 SEXRBZN P2
L 16R2 518 XXX <)
R VUGGY QTZ FILLED FRACTURE REMAIN AFTER CALCITE HAS DISSOLVED.
R 5% DISSEMINATED PYRITE CUBES.
D 5490 5790 97 X
L 00R2 549 XXX

A001	26.50	28.00	56637	.424	.070
A001	28.00	31.00	56638	1.290	.210
A001	31.00	36.20	56639	.792	.170
A001	36.20	39.60	56640	1.100	.210
A001	39.60	44.60	56641	.792	.130
A001	44.60	48.80	56642	.840	.100
A001	48.80	51.80	56643	.764	.160
A001	51.80	54.90	56644	.728	.210
A001	54.90	57.90	56645	.680 0.6480	.140

GRAPHIC LOG





R IN CHLORITE ZONE, FRACTURES HAVE CHLORITE SELVAGES.

D 5790 6100 84 X 222

L 7R2 579 XXX

D 6100 6410 93 X 222

L 21R2 610 XXX

R TRACE MOLYBDENITE ON FOLIATION PLANE AT 63.2 M, MOLYBDENITE
MITGHT BE CHALCOCITE.

D 6410 6710 80 X 222 P1

L 8R2 640 XXX D+

R 6410 6430 ANDESITE DYKE, FINE GRAINED, DARK GREEN, CONTACTS 60 DEGREES TO
FOLIATION AND 30 DEGREES TO CA., CP IN BLEBS IN A QTZ-CARBONATE
-CHL EXTENSION VEINS 2 CM THICK, CP HAS A CHALCOCITE RIM.

R 6600 6710 CLAY ALTERATION OF FELDSPARS AND CHLORITE SELVAGES TO FRACTURES
WITH VUGGY QTZ-CLAY VEINS

D 6710 7200 53 X

L 00R2 701 XXX

R SERICITE ENVELOPES AROUND EARLY PYRITE VEINS IN CHLORITE
ALTERATION.

D 7200 7620 67 X

L 00R2 732 XXX P1

R PERVASIVE CLAY ALTERATION OF FELDSPARS, FINE GRAIN WHERE ROCK
HAS PERVASIVE SERICITE ALTERATIONS.

R 7350 7620 THE MATRIX IS CHLORITE ALTERED AND FINER GRAINED THAN THE
SERICITE ALTERED SECTION; THUS, THE ORIGINAL ROCK MAYBE A TUFF.
THE FINE GRAINED MATRIX CONTINUES TO THE BOTTOM OF THE PRINCIPAL
INTERVAL AT 101.2 M.

D 7620 8100 49 X

L 00R2 793 XXX P1

R PERVASIVE CLAY ALTERATION OF FINE GRAIN FELDSPARS IN SERICITE
ALTERED SECTIONS.

D 8100 8530 66 X

L 00R2 823 XXX

R VUGGY QTZ-PYRITE VEINS HAVE CHLORITE SELVAGES WHEN THEY CROSSCUT
SERICITE ALTERATION.

D 8530 9000 36 X

L 00R2 884 XXX

R VUGGY QTZ-PYRITE VEINS HAVE CHLORITE SELVAGES WHEN THEY CROSSCUT
SERICITE ALTERATION.

D 9000 9500 48 X

L 00R2 945 XXX

R MARK 91.4

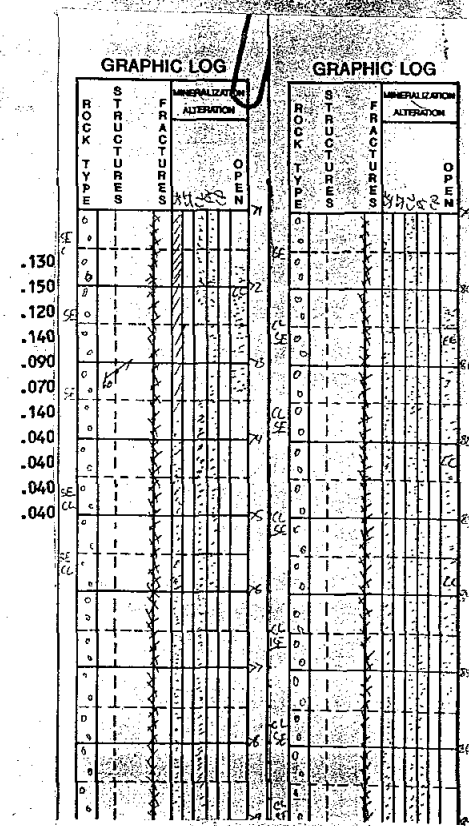
D 9500 10000 25 X

L 00R2 975 XXX

R JAROSITE STAIN ON FRACTURES FROM 97.5-100.0 M

D 10000 10120 54 X

A001	57.90	61.00	56646	.800
A001	61.00	64.00	56647	.560
A001	64.00	67.10	56648	.536
A001	67.10	72.00	56649	.552
A001	72.00	76.20	56650	.480
A001	76.20	81.00	56651	.440
A001	81.00	85.30	56652	.500
A001	85.30	90.00	56653	.450
A001	90.00	95.00	56654	.178
A001	95.00	98.00	56655	.316
A001	98.00	101.20	56656	.334

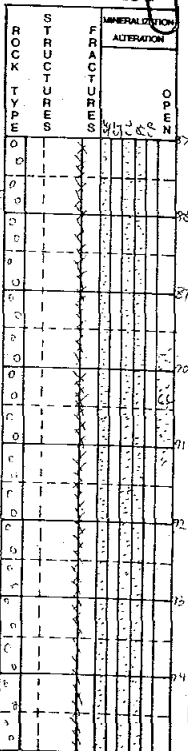


L 00R2 100 XXX
R TWO SHEARED FINE GRAINED, DARK ANDESITE DYKES AT 100.9-101.0 M
P 10120 14130 KRXTFLP P1P+D= PO
L V1 V1 D)
R CRACKLE BRECCIA CEMENTED BY QTZ-CALCITE VEINS IN A DARK GREEN
R MOTTLED, FINE GRAINED LAPILLI TUFF. FRAGMENTS (40% OF UNIT) ARE
R ROUNDED 5-50 MM IN SIZE, FELSIC-FELDSPAR PORPHYRY 40%, FELSIC
R APHANITIC 50%, BLACK, SUBROUNDED 5%. DISSEMINATED PYRITE BLEBS
R 1% OCCUR IN FINE GRAINED MATRIX WHICH IS IN PART CLAY, EPIDOTE
R AND CHLORITE ALTERED. EARLY PYRITE VEINS ARE CROSSCUT BY CALCITE
R QTZ FILLED FRACTURES. DISSEMINATED PO IN MATRIX 1% MAGNETIC
R SUSCEPTIBILITY UP TO 1200 X 10 (TO THE -5 POWER) SI
D 10120 10400 98 X 444
L 80R3 1036 122
D 10400 10700 94 X 444
L 68R3 1067 122
R 10650 10700 PERVASIVE EPIDOTE REPLACEMENT OF FELDSPARS IN MATRIX
D 10700 11000 100 X 444 P1
L 100R3 1097 110
D 11000 11350 97 X 444
L 75R3 1128 122
D 11350 11490 100 X 222
L 14R3 XXX
R NATIVE COPPER AND CUPRITE COATINGS 1.0% ON WEATHERED FRACTURE
R PLANES. THE CALCITE FILLED CRACKLE BRECCIA HAD DISSOLVED
R ALLOWING THE PRECIPITATION OF CU.
D 11490 11800 90 X 444
L 71R3 1158 122
R 11690 11720 WEAK PERVASIVE EPIDOTE ALTERATION OF FINE GRAIN MATRIX OF
R LAPILLI TUFF.
D 11800 12100 90 X 222
L 80R3 1189 111
R DECREASE IN THE NUMBER OF CALCITE FILLED FRACTURES BELOW 119.0M,
R LARGE (UP TO 2.0 CM) CALCITE-Qtz, VEINS HAVE PYRRHOTITE AND
R PYRITE BLEBS (1%) IN THEM.
D 12100 12400 96 X 222
L 96R3 1219 110
R MAGNETIC SUSCEPTIBILITY UP TO 1200 X 10 (-5 POWER) SI WITH A
R BASE VALUE OF 400 X 10 (-5 POWER) SI.
D 12400 12700 94 X 111
L 88R3 1250 111
R MAGNETIC SUSCEPTIBILITY UP TO 2000 X 10 (-5 POWER) SI WITH A
R BASE VALUE OF 400 X 10 (-5 POWER) SI.
D 12700 13050 96BIXTFLP 022 B1 PO
L 95R4 1280 011 D+ D+

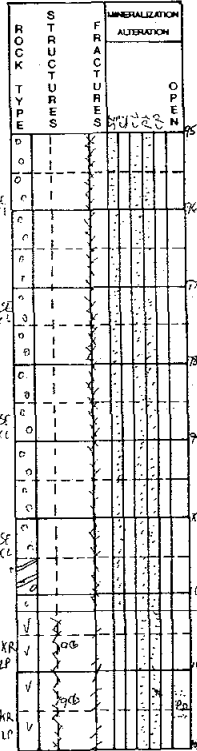
A001 101.20 104.00 56657 .023
A001 104.00 107.00 56658 .021
A001 107.00 110.00 56659 .018
A001 110.00 113.50 56660 .022
A001 113.50 114.90 56661 .301 0.3000
A001 114.90 118.00 56662 .072
A001 118.00 121.00 56663 .044
A001 121.00 124.00 56664 .050
A001 124.00 127.00 56665 .027
A001 127.00 130.50 56666 .047

.010
.020
.030
.020
.120
.040
.080
.040
.030
.040

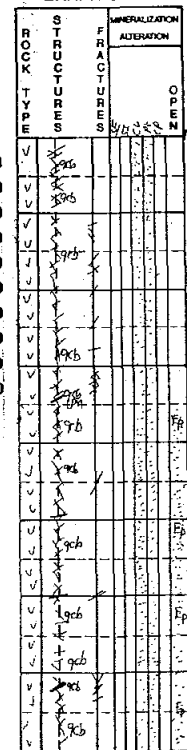
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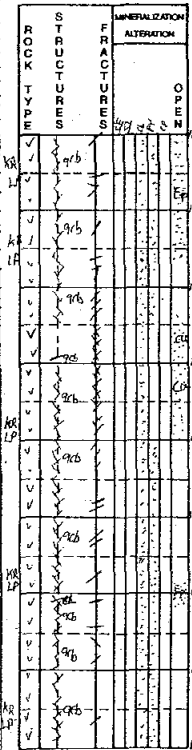
GRAPHIC LOG



GRAPHIC LOG



GRAPHIC LOG



IDEN680201 KERR KS-077NWL19AUG90WKH JTTAUG90L38 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
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 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXXQZAPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM
 S001 12800 25600 256.00082.00-87.00
 A003

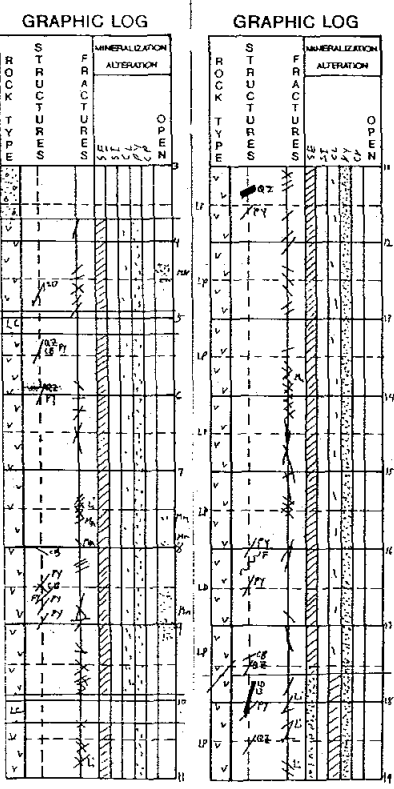
AUMM MAG
 P 000 370 OVBD
 L
 P 370 3550 SE9TFLP P30-0) D1 <) CMM
 L <- Q) <)* D(R*

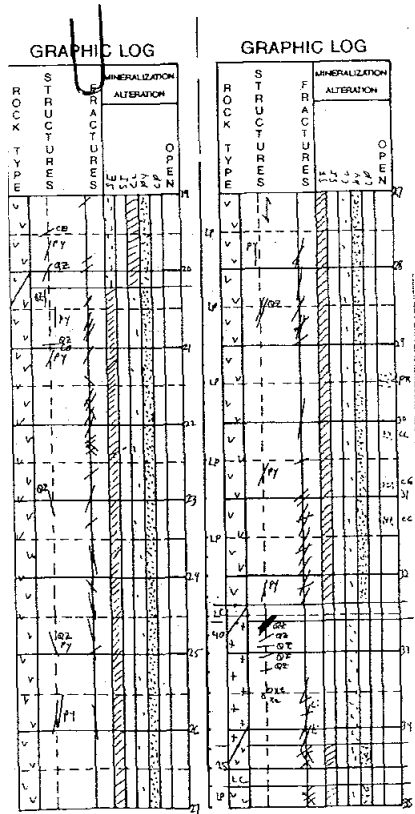
R TUFF UNIT COMPOSED OF ABUNDANT LAPILLI CLASTS WITHIN A FINE
 R GRAINED MATRIX OF QTZ AND FELDSPAR WHICH HAS UNDERGONE ABUNDANT
 R SERICITIC ALTERATION. LAPILLI CLASTS ARE FELSIC TO MAFIC IN
 R COMPOSITION (FELSIC PREDOMINANT) AND ARE EXTREMELY STRETCHED OUT
 R ALONG THE FOLIATION PLANE. FOLIATION AT THE TOP OF THE HOLE IS
 R INTENSE AT 20 DEGREES. AT 20.20, THE FOLIATION CHANGES AND RUNS
 R DIRECTLY ALONG THE CORE AXIS FOR THE REST OF THE UNIT. INTENSE
 R LIMONITE STAINING ALONG FRACTURES. OCCASIONAL MANGANITE STAINING
 R ALONG SOME FRACTURES. A 2 CM WIDE FRACTURE AT 18.00 HAS BEEN
 R CEMENTED BY LEPIDOCROCITE AND LI. UNIT IS A LIGHT GREY IN COLOUR
 R PY OCCURS AS VERY SMALL DISSEMINATED CRYSTALS AND OCCASIONAL
 R MICROVEINLETS.

	From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Ag ppm	Pb ppm	Zn ppm
				(dupl)		(dupl)			
A001	3.70	6.70	57837	.157		.040			
A001	6.70	9.70	57838	.136		.050			
A001	9.70	12.70	57839	.074		.040			
A001	12.70	15.55	57840	.045		.030			
A001	15.55	17.65	57841	.070		.170			
A001	17.65	20.20	57842	.075		.130			

N 490 520 XMCOR
 L
 N 990 1020 XMCOR
 L
 D 370 670 90 X 010
 L 52R2 52 121
 D 670 970 98 X 020
 L 65R2 82 131
 R 1130 1140QTZ VEIN
 D 970 1270 88 X 010
 L 37R2 113 030
 D 1270 1555 98 X 000
 L 23R2 143
 D 1555 1765 98 X 010
 L 26R2 174 130
 N 1765 2020 98CLXYFLP 110 P1 P3 D1 <*
 L 67R2 121 << <*

R VERY SIMILAR TO THE P UNIT EXCEPT FOR AN ABUNDANCE OF MAFIC
 R CLASTS (NOW CHLORITE) AND CHLORITE ALTERATION IN THE MATRIX.

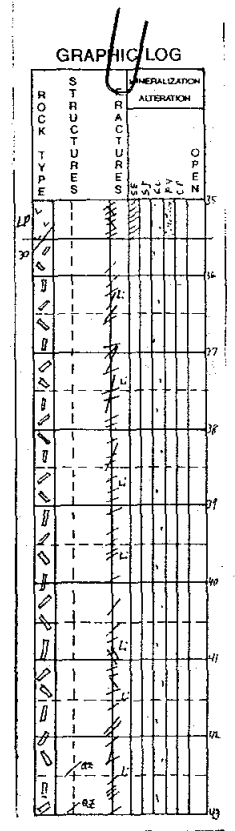




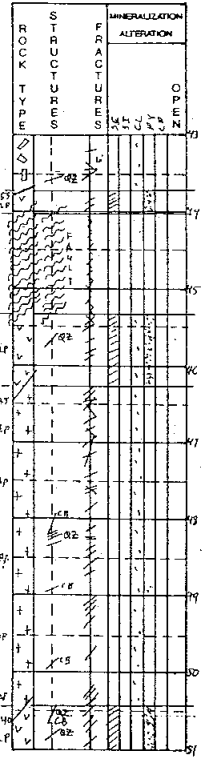
R MAYBE A FLOW OF MORE MAFIC ORIGINAL COMPOSITION.

D 2020 2320 98 X 101
L 53R2 204 220
D 2320 2620 98 X 100
L 33R2 234 210
D 2620 2920 98 X 100
L 53R2 265 210
D 2920 3260 93 X 100
L 39R2 296 220
N 3235 3260 XMCOR
L
N 3260 3420 100FGXLATT 011 L) LI
L 44R3 110 V+ C*
R DAEK GREEN, FINE GRAINED UNIT COMPOSED OF FELDSPAR (60%) AND
R MAFICS (40%). VERY SIMILAR TO THE PREVIOUS LAAP BUT WITH A
R SLIGHTLY LARGE GRAIN SIZE. A 10 CM WIDE QZVN OCCURS AT THE TOP
R OF THE UNIT. THE VEIN HAS LARGE VUGS. CHLORITE FRACTURE FILLS
R OCCURS AT A HIGH ANGLE TO THE CORE, WHILE EXISTING FRACTURES
R ARE AT A VERY LOW ANGLE TO THE CORE AND ARE INTENSELY LI STAINED
R TWO SMALL ARGILLITE (?) XENOLITH OCCURS AT 33.50.
N 3450 3470 XMCOR
D 3420 3550 87 X 000
L OR2 666
P 3550 4370 FSXANPP L(LI
L < C T+
R PREMIER PORPHYRY, WHITE PLAGIOCLASE AND RARE BROWN K-SPAR
R PHENOCRYSTS SET IN A MEDIUM GREEN, FINE GRAINED MATRIX OF F-SPAR
R AND HB. PHENOCRYSTS MAKE UP 15% OF THE UNIT OF WHICH 1% ARE
R K-SPAR. PLAGIOCLASE PHENOCRYSTS RANGE FROM 1 TO 5 MM WHILE
R K-SPAR AVERAGE 8 MM. UNIT IS MODERATELY FOLIATED AT 15 DEGREES.
R UNIT IS BLOCKY AND IS VERY OXIDIZED. FRACTURES ARE INTENSELY LI
R STAINED. CHLORITE USED TO OCCUR AS FRACTURE FILLS, BUT NOW IS
R MOSTLY INFILLED BY FERRICRETE. SLIGHTLY MAGNETIC.
D 3550 3850 98 X 000
L 10R3 357 130
D 3850 4150 98 X 000
L 18R3 387 131
D 4150 4370 98 X 010
L 20R3 418 131
A003 3550 4370 180
P 4370 7225 SE9TFLP P3 O* D1 B.<(OCLI
L <+ <* <)T(
R TUFF UNIT COMPOSED OF ABUNDANT LAPILLI CLASTS WITHIN A FINE
R GRAINED MATRIX OF QTZ AND FELDSPAR WHICH HAS UNDERGONE INTENSIVE
R SERICITIC ALTERATION. LAPILLI CLASTS RANGE FROM FELSIC TO MAFIC

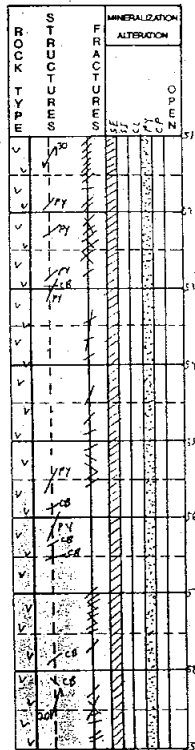
A001	20.20	23.20	57843	.133	0.1230	.060
A001	23.20	26.20	57844	.032		.040
A001	26.20	29.20	57845	.126		.040
A001	29.20	32.60	57846	.301		.050
A001	32.60	34.20	57847	.042		.020
A001	34.20	35.50	57848	.099		.110
A001	35.50	38.50	57849	.035		.010
A001	38.50	41.50	57850	.031		.020
A001	41.50	43.70	57851	.039		.040
A001	43.70	46.25	57852	.089		.060



GRAPHIC LOG



GRAPHIC LOG



R AND ARE EXTREMELY STRETCHED ALONG THE FOLIATION PLANE. FOLIATION
R IS MODERATE AT 25-35 DEGREES. OCCASIONALLY INTENSE LI STAINING
R ALONG FRACTURES. PY ABUNDANT AS DISSEMINATED CRYSTALS AND
R MICROVEINLETS.

N 4400 4535 33 XFALT 000
L OR2 448 XXX
R FAULT ZONE WITH VERY POOR RECOVERY AND WHAT WAS RECOVERED WAS
R VERY SMALL CHIPS. FAULT TREND UNDETERMINABLE.

D 4370 4400 100 X 000
L OR2 020
D 4535 4625 95 X 010
L 39R2 020
N 4625 5040 98MXLAAP 110 L(D.
L 19R3 479 131 << <<

R DARK GREEN, HOMOGEOUS APPEARANCE. VERY RARE CALCITE AMYGDULES.
R FRACTURES ARE VERY LI STAINED. VERY MINOR PY ASSOCIATED WITH
R QTZ/CB VEINING.

D 5040 5340 98 X 111
L 27R2 509 031
D 5340 5640 98 X 110
L 50R2 539 130
R FROM 57.90 ON, THE FOLIATION INCREASES TO INTENSE AT 20.0
D 5640 5940 98 X 011
L 37R2 570 131
D 5940 6240 98 X 111
L 57R2 600 121
D 6240 6540 100 X 021
L 75R2 631 030
D 6540 6840 98 X 020
L 80R2 661 100
D 6840 7030 100 X 020
L 97R2 692 010
D 7030 7225 100 X 120
L 95R2 010

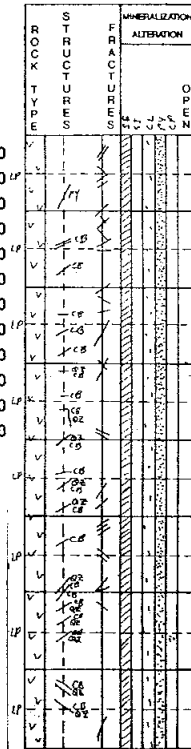
P 7225 9440 FL9PHPP P= D1 QC
L << <<

R ROCK IS COMPOSED OF FINE GRAINED PLAGIOCLASE (35%) AND
R DISSEMINATED PY (15%). MINOR SERICITIC ALTERATION OF THE
R PLAGIOCLASE HAS OCCURRED (5-10%). UNIT IS WHITE WITH A SLIGHT
R MOTTLED APPEARANCE DUE TO THE PY FORMING SMALL CLUSTERS. UNIT IS
R MODERATELY FOLIATED AT 15 DEGREES. ABUNDANT QTZ/CARB VEINLETS.

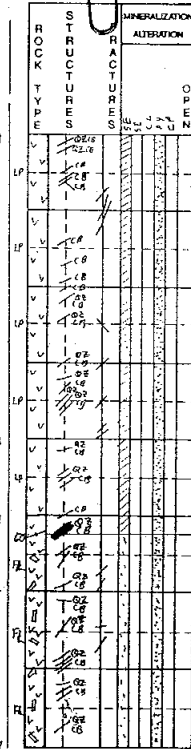
D 7225 7525 100 X 131
L 75R3 011
D 7525 7825 100 X 131
L 85R3 753 110

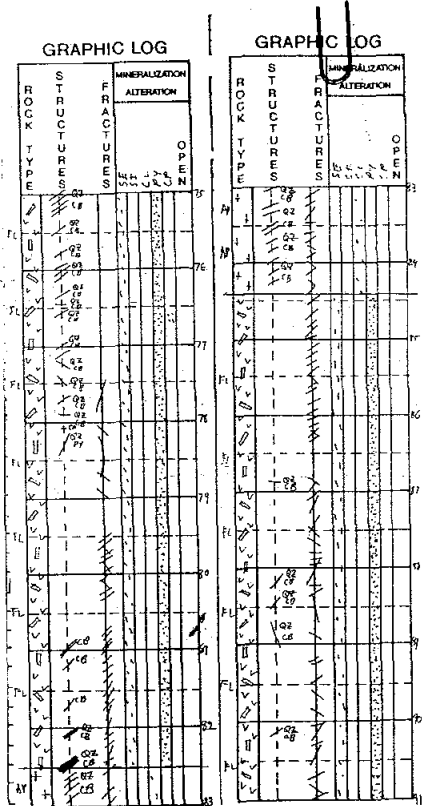
A001 46.25 47.90 57853 .050
A001 47.90 50.40 57854 .092
A001 50.40 53.40 57855 .120
A001 53.40 56.40 57856 .091
A001 56.40 59.40 57857 .071
A001 59.40 62.40 57858 .059
A001 62.40 65.40 57859 .041
A001 65.40 68.40 57860 .074
A001 68.40 70.30 57861 .038
A001 70.30 72.25 57862 .085
A001 72.25 75.25 57863 .085
A001 75.25 78.25 57864 .138 0.1330 .130

GRAPHIC LOG



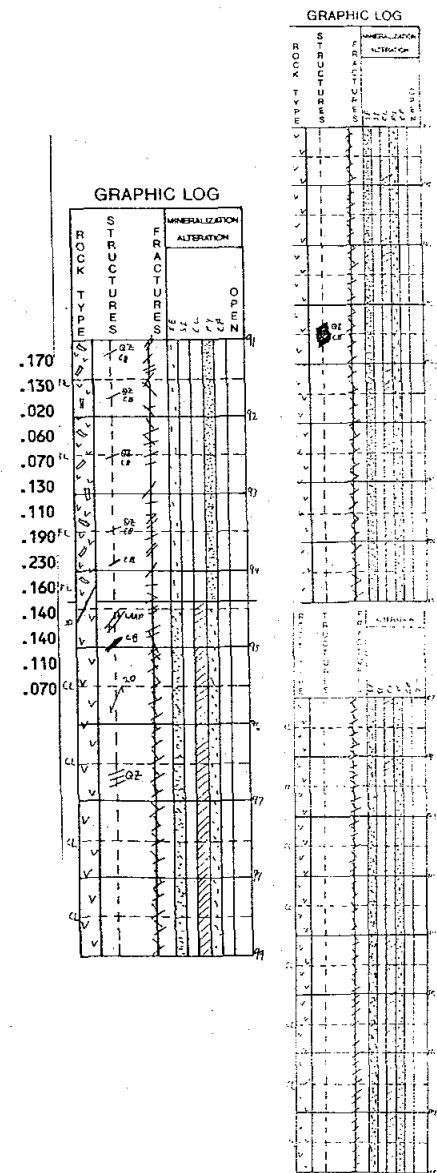
GRAPHIC LOG

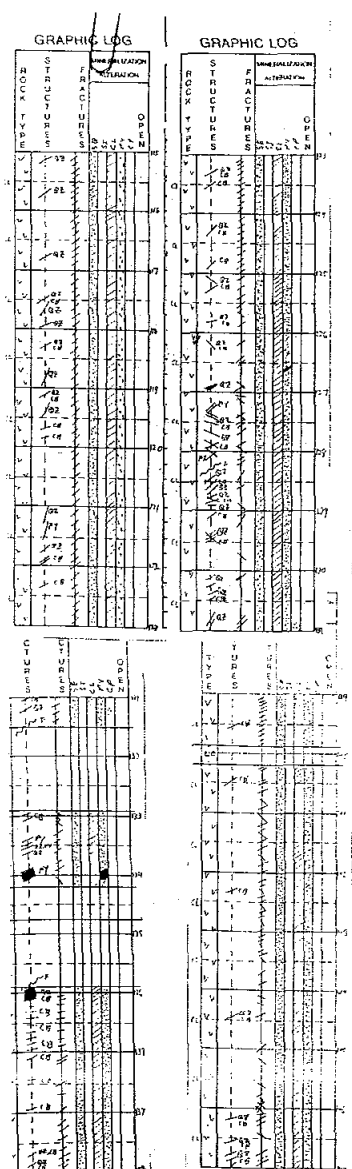




D	7825	8000	98 X	000		
L			34R3 783	020		
D	8000	8250	98 X	020		
L			14R3 814	130		
N	8250	8440	95VVXLAAP	030	L)	QC
L			21R3 844	031		<1
R	DARK GREEN, HOMOGEOUS APPEARANCE. ABUNDANT QTZ/CARBONATE					
R	VEINLETS. CL AS FRACTURES FILLS. BLOCKY. MASSIVE.					
D	8440	8740	98 X	001		
L			20R3	131		
D	8740	9040	98 X	110		
L			58R3 875	122		
D	9040	9240	98 X	010		
L			50R3 905	120		
D	9240	9440	98 X	010		
L			30R3 936	031		
R	CONTACT IS GRADATIONAL WITH THE UNDERLYING UNIT.					
P	9440	14890	CL9TUFF		P1 P3 D1	B-V= QC
L					<+>	<)<- V+
R	TUFF UNIT COMPOSED OF QTZ AND F-SPAR (OF UNDETERMINED AMOUNTS)					
R	WITH ABUNDANT CHLORITIC AND SERICITIC ALTERATION. THE UNIT FROM					
R	95.00 TO 111.90 IS VERY BLOCKY TO RUBBLY (BUT NOT THE RBZN)					
R	WHILE FROM 111.90 TO 124.70 THE UNIT IS VERY BLOCKY. AFTER					
R	124.70, THE UNIT IS BLOCKY IN SMALL SSECTIONS ONLY. PY OCCURS AS					
R	SMALL DISSEMINATED CRYSTALS AND RARELY AS MICROVEINLETS. A					
R	SMALL APHANITIC ANDESITE DYKE, 4 CM WIDE OCCURS AT 94.60. UNIT					
R	IS INTENSELY FOLIATED AT 20 DEGREES. POOR CORE RECOVERY IN THE					
R	RUBBLY SECTION.					
D	9440	9960	69 X	010		
L			10R2 966	666		
R	10235	10270	BLOCKY QTZ/CARB VEIN.			
D	9960	10880	27 X	010		
L			0R2 1027	777		
D	10880	11190	98 X	000		
L			0R2 1119	666		
D	11190	11490	98 X	000		
L			0R2 1149	555		
D	11490	11800	98 X	110		
L			27R2 1180	444		
D	11800	12100	98 X	110		
L			13R2 1210	444		
R	FOLIATION INTENSITY HAS DECREASED FROM EARLIER SO THAT THE UNIT					
R	IS NOW MODERATELY FOLIATED AT 30 DEGREES.					
D	12100	12400	98 X	120		
L			0R2 1240	444		

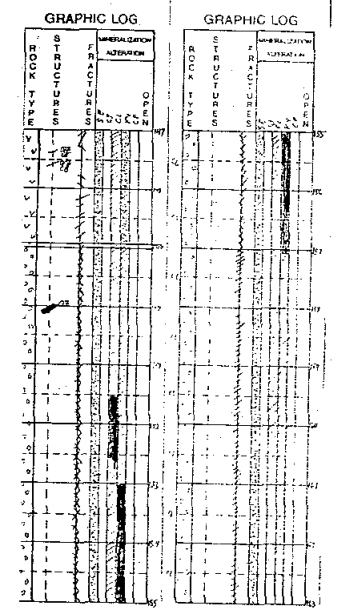
A001	78.25	80.00	57865	.133
A001	80.00	82.50	57866	.060
A001	82.50	84.40	57867	.014
A001	84.40	87.40	57868	.019
A001	87.40	90.40	57869	.017
A001	90.40	92.40	57870	.020
A001	92.40	94.40	57871	.019
A001	94.40	99.60	57872	.046
A001	99.60	108.80	57873	.175
A001	108.80	111.90	57874	.134
A001	111.90	114.90	57875	.167
A001	114.90	118.00	57876	.154
A001	118.00	121.00	57877	.134
A001	121.00	124.00	57878	.105



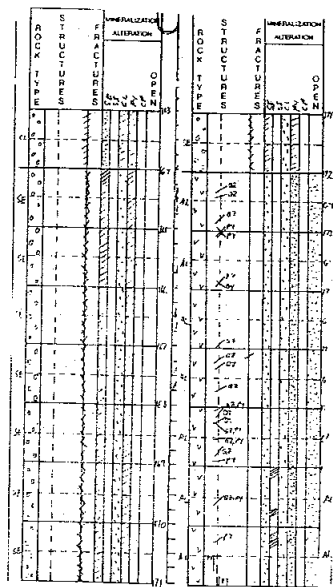


D 12400 12700 98 X 021
 L 40R2 030
 D 12700 13000 98 X 031
 L 57R2 1271 031
 R MASSIVE PY VEIN 3 CM WIDE AT 126.6
 R SMALL FAULT, TRENDING AT 128.30
 N 13150 13280 XMCOR
 L
 R FROM 132.80 TO 133.30 IS RUBBLY. FAULT EVIDENCE (GOUGE, VERY
 R SMALL CHIPS) AT 131.50
 D 13000 13300 57 X 120
 L 23R2 1301 020
 R 13280 13420 FOLIATION WEAK TO MODERATE AT 50 DEGREES.
 R 13392 13403 MASSIVE PY VEIN WITH MINOR INTERSTITIAL QTZ.
 N 13420 13475 100AMXANDY 000 AC
 L 100R3 000
 R BLACK, APHANITIC. RARE QTZ AMYGDULES. MASSIVE. VERY MAGNETIC.
 A003 13420 13475 3000
 N 13475 13590 XMCOR
 L
 R REMNANTS OF A FAULT OCCURS AT 135.90 (IE; GOUGE).
 R 13610 13690 FOLIATION IS MODERATE AND VARIES FROM 70-90 DEGREES. AFTER 136.9
 R FOLIATION BECOMES WEAK AT 50 DEGREES, ABUNDANT CB VEINLETS IN
 R THIS ZONE.
 D 13300 13420 98 X 020
 L 0R2 1332 030
 D 13475 13775 62 X 012
 L 17R2 1362 012
 N 13980 14020 XMCOR
 L
 D 13775 14075 87 X 010
 L 15R2 1393 040
 D 14075 14375 98 X 010
 L 20R2 1423 040
 D 14375 14675 98 X 010
 L 43R2 1454 031
 D 14675 14890 98 X 010
 L 47R2 1484 130
 P 14890 16400 CLXRBZN
 L
 R RUBBLE ZONE PORTION OF THE CL TUFF. POOR CORE RECOVERY. ZONE
 R FROM 151.50 TO 152.50 IS VERY CHLORITE RICH (>50%). RETURN FROM
 R 153.00 TO 157.10 IS PY DUST WITH MINOR TUFF FRAGMENTS. FROM
 R 157.10 TO 164.00 THE UNIT IS MORE BLOCKY THEN RUBBLY.
 D 14890 15760 39 X 000

A001	124.00	127.00	57879	.225	.160
A001	127.00	130.00	57880	.424	.290
A001	130.00	134.20	57881	.442	.260
A001	134.20	137.75	57882	.030	.060
A001	137.75	140.75	57883	.050	.050
A001	140.75	143.75	57884	.009	.040
A001	143.75	146.75	57885	.086	.080
A001	146.75	148.90	57886	.023	.080



P1 P4 D3
 v)



L OR2 1515 XXX
 D 15760 16400 34 X 000
 L OR2 1606 888
 P 16400 17200 SEXRBZN

P3 P1 D3

R VERY SIMILAR TO PREVIOUS P UNIT EXCEPT SERICITIC ALTERATION
 R NOW THE DOMINANT FORM WITH CHLORITE ALTERATION BEING SECONDARY.

D 16400 16670 90 X 000
 L OR2 1667 XXX
 D 16670 16980 90 X 000
 L OR2 1698 XXX
 D 16980 17200 90 X 000
 L OR2 XXX
 P 17200 25600 ALXTUFF

P1Q=P= D1 B(V= GYMO
 V* V=<< <*&(<

R TUFF UNIT WHICH HAS UNDERGONE MINOR SERICITIC AND CHLORITIC
 R ALTERATION. UNIT IS MEDIUM GREY IN COLOUR AND VERY FINE TO FINE
 R GRAINED. THE UNIT IS MADE UP OF QTZ AND F-SPAR (OF UNDETERMINED
 R AMOUNTS) MINOR MAFICS (NOW CHLORITE). QTZ VEINS AND SILICIFIED
 R ZONES ARE PREVALENT WITH THE QTZ HAVING A CRACKLED APPEARANCE.
 R SULPHIDES (PY AND MINOR CP) HAVE INTRUDED ALONG THESE FRACTURES
 R MAKING THE QTZ ZONES VERY SULPHIDE RICH, MOLYBENITE SEEN IN SOME
 R OF THE QTZ/SILICIFIED ZONES. FROM 172.00 TO APPROXIMATELY 184.00
 R THE NON SILICIFIED ZONES HAVE ABUNDANT GYPSUM FILLED
 R MICROFRACTURES. A SMALL PATCH OF CRYSTALLINE ANHYDRITE OCCURS
 R WITHIN A SILICIFIED ZONE AT 182.50. PY ALSO OCCURS AS
 R DISSEMINATED CRYSTALS IN THE TUFF. FOLIATION IS WEAK TO MODERATE
 R AT 40 DEGREES.

D 17200 17500 100 X 020
 L 100R2 1728 000
 D 17500 17800 100 X 021
 L 100R2 1759 010

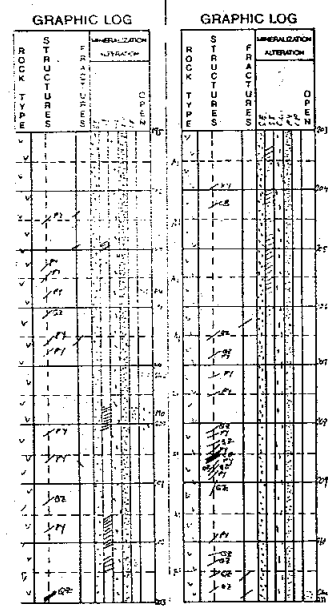
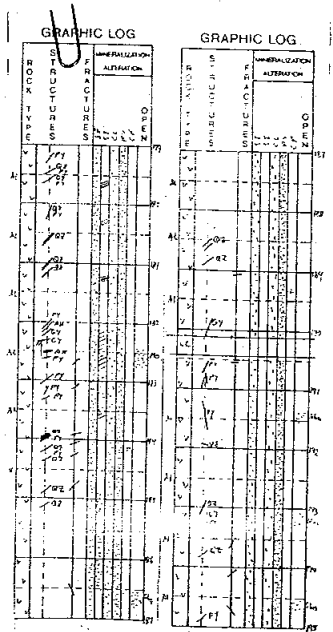
R SMALL ZONES (10-20 CM IN SIZE) SCATTERED THROUGHOUT, SHOW SMALL
 R DEVITRIFIED GLASS FRAGMENTS.

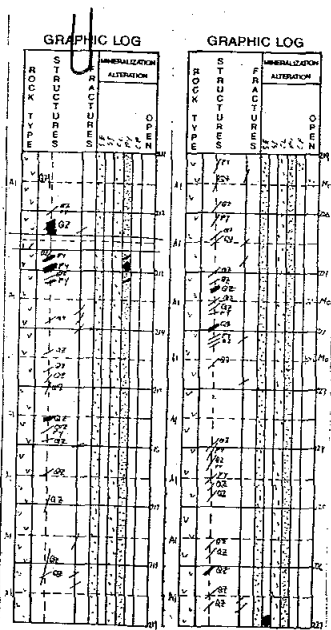
D 17800 18100 100 X 120
 L 100R2 1789 000
 D 18100 18400 100 X 121
 L 100R2 1820 010
 D 18400 18700 100 X 010
 L 98R2 1850 010

R 18200 18365 ZONE OF SILICIFICATION. PATCHES OF ANHYDRITE AND SMALL PATCHES OF
 R MOLLY. ABUNDANT PY. SOME GYPSUM AS FRACTURE FILLS (ALTERED
 R ANHYDRITE?)

R 18490 18650 ZONE OF MINOR SILICIFICATION.
 D 18700 19000 100 X 110

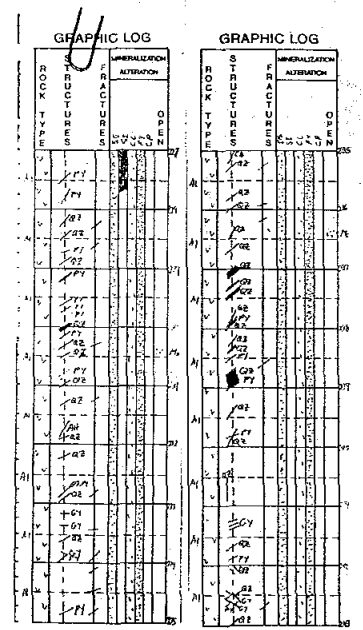
ROCK TYPE	STRUCTURE	ALTERATION	DEPTH (m)	START (m)	END (m)	VALUE	VALUE
V			148.90	157.60	57887	1.250	.630
V			157.60	164.00	57888	.191	.100
V			164.00	166.70	57889	.472	.160
V			166.70	169.80	57890	.496	.190
V			169.80	172.00	57891	.600	.270
V			172.00	175.00	57892	.704	0.6920
V			175.00	178.00	57893	.660	.300
V			178.00	181.00	57894	.692	.240
V			181.00	184.00	57895	.456	.210
V			184.00	187.00	57896	.580	.170

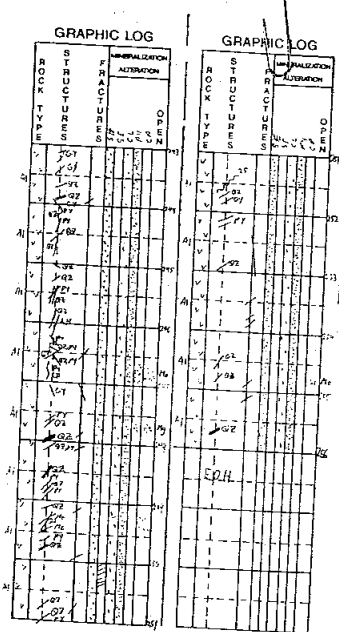




L	100R2	1881	001	
D	19000	19300	92 X	111
L		90R2	1911	001
N	19015	19040	XMCOR	
L				
D	19300	19600	100 X	110
L		100R2	1941	010
D	19600	19900	100 X	020
L		100R2	1972	010
D	19900	20200	100 X	010
L		100R2	2002	010
R	20390	20630	ZONE OF ABUNDANT SILICIFICATION	
D	20200	20500	100 X	010
L		100R2	2033	000
D	20500	20800	100 X	010
L		100R2	2063	010
D	20800	21100	100 X	130
L		100R2	2094	010
R			PINK CARBONATE VEIN WITH ABUNDANT PY AT 208.50. VEIN IS 6 CM WIDE.	
D	21100	21400	93 X	120
L		90R2	2124	010
N	21240	21260	XMCOR	
L				
R			MASSIVE PY VEIN, 5.5 CM WIDE AT 212.80	
R			MASSIVE PY VEIN, 10 CM WIDE AT 212.95	
R			MASSIVE PY VEIN, 3 CM WIDE AT 213.20	
D	21400	21700	100 X	120
L		100R2	2155	110
D	21700	22000	100 X	110
L		100R2		110
D	22000	22300	100 X	030
L		100R2	2185	110
D	22300	22600	100 X	120
L		100R2	2246	000
R	22685	22770	ZONE OF INTENSE SILICIFICATION.	
D	22600	22900	100 X	021
L		100R2	2277	010
D	22900	23200	100 X	130
L		100R2	2307	010
D	23200	23500	100 X	021
L		100R2	2337	011
D	23500	23800	100 X	120
L		100R2	2368	010
D	23800	24100	100 X	120

A001	187.00	190.00	57897	.376	.110
A001	190.00	193.00	57898	.292	.090
A001	193.00	196.00	57899	.284	.130
A001	196.00	199.00	57900	.376	.090
A001	199.00	202.00	57901	.352	.070
A001	202.00	205.00	57902	.652	.170
A001	205.00	208.00	57903	.584	.160
A001	208.00	211.00	57904	.300	.130
A001	211.00	214.00	57905	.380	.120
A001	214.00	217.00	57906	.328	.160
A001	217.00	220.00	57907	.440	.120
A001	220.00	223.00	57908	.352	.090
A001	223.00	226.00	57909	.324	.130
A001	226.00	229.00	57910	.284	.100
A001	229.00	232.00	57911	.420	.180
A001	232.00	235.00	57912	.268	.060
A001	235.00	238.00	57913	.308	.070





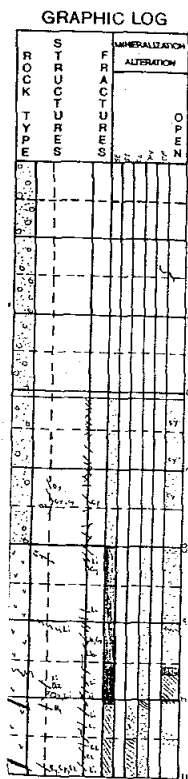
L 100R2 2399 010
D 24100 24400 100 X 130
L 100R3 2429 010
R FOLIATION CHANGES TO APPROXIMATELY 10 DEGREES TO CORE AXIS AT APPROXIMATELY 244.0
R 24400 24700 100 X 220
L 100R3 2460 010
D 24700 25000 100 X 030
L 100R3 2490 110
R FOLIATION CHANGES TO 60 DEGREES FROM 247.60 TO 248.0 WHERE IT CHANGES TO 45.
R MAGNETITE SEEN IN A QTZ VEINLET AT 247.70
R MOLY OCCURS AS COATINGS ALONG FRACTURES AT 249.30
R OCCASIONAL GYPSUM FILLED MICROFRACTURES FROM 246.00 TO THE END OF THE HOLE.
R SMALL FAULT, TRENDING AT 25 DEGREES, AT 251.55. FAULT IS 3 CM WIDE.
D 25000 25300 100 X 020
L 97R3 2520 110
D 25300 25600 100 X 010
L 98R3 2551 010

A001 238.00 241.00 57914 .552 .170
A001 241.00 244.00 57915 .352 .080
A001 244.00 247.00 57916 .440 .060
A001 247.00 250.00 57917 .508 .130
A001 250.00 253.00 57918 .456 .120
A001 253.00 256.00 57919 .504 .040

The A005 assay sets are selected composites based on copper grades and geology

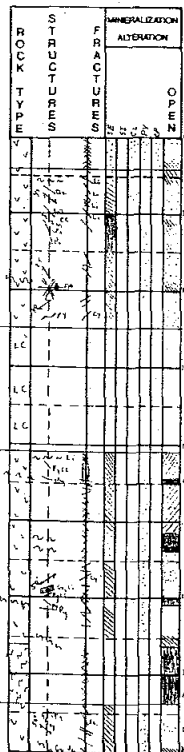
	From	To	Length	Cu %	Au g/t
A005	3.70	94.40	90.70	.081	.068
A005	94.40	127.00	32.60	.142	.168
A005	127.00	134.20	7.20	.435	.273
A005	134.20	148.90	14.70	.040	.061
A005	148.90	172.00	23.10	.703	.335
A005	172.00	187.00	15.00	.618	.232
A005	187.00	256.00	69.00	.397	.112

/END



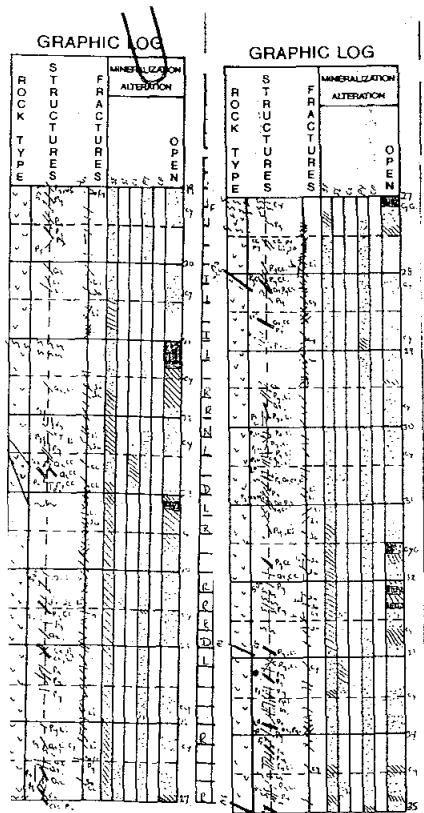
IDEN680201 KERR KS-0788QWL17AUG90CCC JTTAUG90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 5485MT 219.50090.00-70.00 9785.00 9817.00 1671.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM
 S001 5485 16460 219.50090.00-63.00
 S002 16460 21950 219.50090.00-55.00
 A003
 AUUMM MAG
 P 000 610 OVBD
 L
 R CASING TO 6.10 M. 6.10 TO 7.75 M CLAY RICH BLOCKY, BOULDERS?
 R POOR RECOVERY, NOTE DARK GREEN, APHANTIC, SILICIFIED 0.7 CM
 R CORE WITH PO. GENERALLY CORE SERICITE-CLAY ALTERED, TAN YELLOW
 R TO PALE GREEN WITH OXIDIZED STRINGERS OR PATCHES. OXIDIZED
 R PYRITE.
 P 610 4294 SE TUFF P3Q*Q) D* B)B+ CC
 L P1 <=<) D+
 R FINE GRAINED, LIGHT WHITE-GREY TO PALE GREEN TO GREY IN COLOUR
 R WELL FOLIATED, MODERATELY TO WEAKLY COMPETENT, FRACTURING ALONG
 R FOLIATION PLANES. CLAY RICH SECTIONS THROUGHOUT, COMMON AT TOP
 R AS SECONDARY WEATHERING OF SERICITE, SHEARING/FAULT ZONES AT
 R DEPTH. LOCALLY SILICIFIED SECTIONS. CORE BECOMES QTZ RICH AT
 R DEPTH. PYRITE CONTENT IS LOW THROUGHOUT UNIT, CLAY RICH
 R SECTIONS GENERALLY LESS (TRACE TO <1%). PYRITE IS FINE OR BLEBS
 R DISSEMINATED OR ALIGNED TO FOLIATION. AT DEPTH SULPHIDES (PYRITE
 R +/-CPY) INFILL FRACTURES AND BORDER QTZ VEINS, LIMONITE STAINING
 R BORDERS PYRITE OR IS PRESENT WHEN SULPHIDES ARE NOT SEEN. CPY
 R VISIBLE, CLOSELY ASSOCIATED WITH QTZ VEINS. CLAY IS PERVASIVE
 R THROUGH SECTIONS, OR PRESENT ON FRACTURE PLANES. WHITE, LOCALLY
 R YELLOW JAROSITE.
 N 800 1010 96SE7TFLP P4 D)
 L OR2 91 <+
 R FINE GRAINED, SCATTERED LAPILLI, QTZ FRAGMENTS TO FELSIC
 R COMPOSITION.
 D 1010 1140 X P2 <1 B* B)V+ HSCC
 L V B)V*
 R SLIGHTLY MORE COMPETENT ROCK, MOTTLED LIGHT GREY TO DARK GREEN/
 R BLACK. LIMONITE OXIDE STAINING THROUGHOUT BUT STRONGEST AT TOP
 R AND BOTTOM OF UNIT. BANDS OF LIMONITE STAINED FRACTURED QTZ
 R BOUDINS ALTERNATE WITH CHLORITE RICH BANDS THAT CONTAIN
 R DISSEMINATED PYRITE AND HEMATITE? BANDS OF MASSIVE PYRITE
 R LOCALLY TARNISHED) AT 10.20 AND 10.80 M. CPY FINE GRAINED,

GRAPHIC LOG



R SCATTERED THROUGHOUT (0.5%) AND WITH PYRITE IN VEIN; MOST
R BOUDINS QTZ WITH LIMONITE STAINED FRACTURES.
D 610 1210 38 8 113
L OR1 91 174
R 1140 1200 LOOSE SULPHIDES, CHLORITE AND QTZ BOUDINS, SERICITIC QTZ WITH
R VARIABLE CLAY, PERVASIVE LIGHT BROWN OXIDE STAIN WITH STRAINING
R LIMONITE ON FRACTURES.
R 1300 1310 FOLD AXIS 85 DEGREES TO CORE AXIS, CORE IS BLEACHED THROUGHOUT
N 1350 1510 XMCOR
L
D 1210 1510 41 4 012
L OR2 122 XXX
D 1510 1830 58KA8 P3 D)
L OR1 P4
R LIGHT GREY, SERICITIC TUFF, BROKEN RUBBLE, CLAY GOUGE/SHEARS,
R KAOLINIZATION. PYRITE+/-CHALCOCITE PARALLEL FOLIATION. LOW
R RECOVERY. SECTION 0.5 M IN LENGTH MODERATELY COMPETENT, INCREASE
R PY-CC, LOSE CLAY-SOME ON FOLIATION FROM ~16.50 TO 17.00 M
R 1710 1750 COMPETENT CORE.
R 1750 1830 FAULT, CLAY GOUGE ~0.15 CM RECOVERED.
D 1510 1830 55 9
L OR2 152 XXX
R CORE LIGHT GREEN-GREY BECOMING GREY, SHEARING PARALLEL FOLIATION
R YELLOW (JAROSITE) CLAY ON FRACTURE PLANES, CORE BECOME BLEACHED
R AT 20.0 M.
R 1900 1915 FINE PYRITE MICROVEINS +/- QTZ-SERICITE ENVELOPE, CLAY PARALLEL
R FOLIATION.
R 1965 1966 PYRITE VEIN. COARSE GRAINED PYRITE (TO 1.5MM) AT 40 DEGREES CA.
D 2055 2180 97KAX P2
L OR1 213 P5
R LIMONITE STAINED CLAY ALTERED TUFF, LOW PY. LITTLE RELIEF
R TEXTURE RETAINED, BLOCKY CORE AT 55-65 DEGREES TO CORE AXIS.
D 1830 2130 88 X 143
L 13R2 183 167
R 2180 2250 QTZ-SERICITE TUFF, ORIGINAL ROCK, SLIGHTLY BLEACHED, LIMONITE
R AND JAROSITE ON FOLIATION. BROKEN PARALLEL FOLIATION. BECOMES
R COMPETENT ~22.35 AND CHLORITIC, WHITE CLAY INFILLED
R MICROFRACTURES. PYRITE MICROFRACTURES PARALLEL CORE AXIS.
R PYRITE AND CC DISSEMINATED.
N 2250 2275 100CL*TFP P1 P2 D) <) CC
L OR2 V+ D)
R CONTACT SHARP AT 40 DEGREES TO CORE AXIS, CHLORITIC, FOLIATED
R LAPILLI TUFF. FOLIATION AT 40 DEGREES TO CORE AXIS, FINE TO
R MEDIUM GRAINED, GREEN, FRACTURED WITH PYRITE INFILLING AND
R NORMAL SLIP MOVEMENT. LOWER CONTACT, SHARP COLOUR CHANGE AT 25

	From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Ag ppm	Pb ppm	Zn ppm
				(dupl)	(dupl)				
	A001	6.10	12.10	58239	.260	.370			
	A001	12.10	15.10	58240	.176	.220			
	A001	15.10	18.30	58241	.472	.120			
	A001	18.30	21.30	58242	.212	.130			
	A001	21.30	24.30	58243	.314	.460			



R DEGREES TO CORE AXIS. FRACTURED QTZ VEINS OXIDIZED AND
R FRAGMENTED.

D 2300 2375 KAX P3
L OR2 P3
R SAME AS 20.55 TO 21.80, CLAY RICH, IN SECTIONS, JAROSITE AND
R LIMONITE OXIDATION PREVALENT. RUBBLE.

R 2375 2430 FOLIATED TUFF, LIGHT GREEN GREY, DECREASING CLAY, BLEACHED, CORE
R BECOMING COMPETENT AND GREY IN COLOUR, TRACE PYRITE, CLAY ON
R FOLIATION, CORE IS FRIABLE- BREAK BY HAND ALONG FOLIATION.

R 2430 2431 SERICITIC QTZ-PYRITE TUFF, LIGHT TO MEDIUM GREY, DISSEMINATED
R PYRITE PARALLEL FOLIATION AND MICROVEINS OF PYRITE.

R 2440 2442 PY QTZ= PYRITE MICROVEIN WITH QTZ SELVAGE.

R 2410 2666 FEW SMALL FRAGMENTS, PARALLEL FOLIATION, ELONGATED. (~ 1/15CM)
R PYRITE AND CC ON FOLIATION. QTZ VEIN, OFFSET AT 25.05 M, PYRITE
R AND CC RIM EDGES.

D 2130 2430 70 9
L OR1 243 XXX
R 2635 2640 CLAY MORE PREVALENT, BLEACHED CORE, SHEAR?
R 2652 2657 QTZ VEINS, WITH BLEACHED, NON PYRITIC ROCK, YELLOW.
R 2680 2690 OFFSET QTZ VEIN, FINE FRACTURES WITH PYRITE INFILLING, FRACTURE
R SUBPARALLEL TO CORE AXIS PRIOR TO FAULTING.

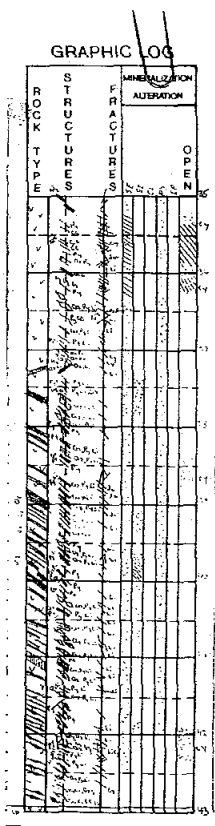
R 2690 2740 FAULT ZONE, STRONG CLAY GOUGE WITH SMALL FRAGMENTS AT 27.00 TO
R 17.10. UPPER CONTACT -60 DEGREES TO CORE AXIS, LOWER CONTACT AT
R 35 DEGREES TO CORE AXIS. CLAY RICH AT 27.30 TO 27.40 M.

D 2430 2730 87 9
L OR2 244 XXX
R 2740 2860 POORLY FOLIATED, INCREASE IN CHALCOCITE, PARALLEL FOLIATION.
R 2890 3005 WELL SHEARED, HEAVY CORE RELATIVE TO REST, DISCONTINUOUS
R STRINGERS PYRITE AND LIMONITE. ODD FRAGMENT, GENERALLY QTZ,
R DISRUPTED FOLIATION, WEAK FOLIATION, FRACTURES CUTTING
R FOLIATION, PYRITIC WITH LIMONITE MARGINS, CLAY ON FOLIATION,
R H=3-4, MINOR YELLOW CLAY PARALLEL FOLIATION.

D 2730 3030 70 X 245
L 13R2 274 XXX
D 3050 3095 X P1 B)
L <- <=<
R STRONGLY SHEARED ZONE, APHANITIC, MEDIUM GREY IN COLOUR,
R INCREASE QTZ VEINING AT TOP, FINE MICROVEINS QTZ OR PYRITE+
R QTZ DISTINCT WITH YELLOW CLAY (NON-CALCAREOUS). LOWER CONTACT
R SHARP AT 55 DEGREES TO CORE AXIS. NARROW PITTED QTZ WITH CC.

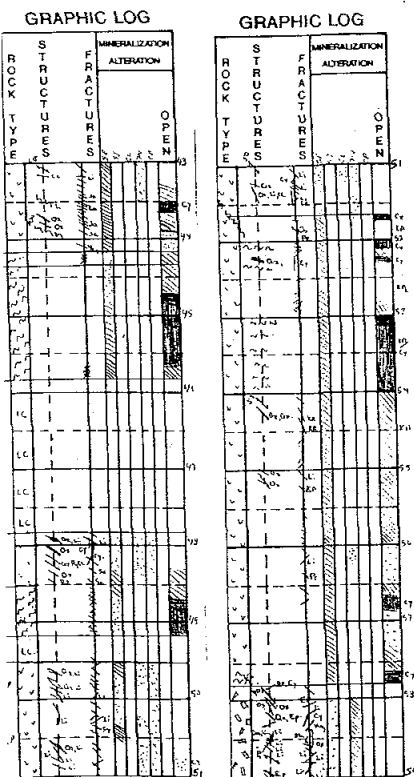
R 3100 3120 FRACTURED CORE, HEALED WITH PY (LIMONITE STAINED) REMOBILIZED
R BLEBS OF PYRITE. ANGULAR FRAGMENT OF QTZ VEIN. PYRITIC FRACTURE
R OFFSET REVERSE MOVEMENT.

R 3170 3240 SHEARED CORE, STRONG CLAY DEVELOPED AT 31.70 - 31.75 AND AT
R 32.10, 32.20 AND 32.35. ASSOCIATED WITH JA.



D 3030 3330 63 X
 L 18 305
 D 3240 4294 VVXTUFF P1Q+ B+ <=
 L E) V)V2
 R FOLIATED TUFF, INTRODUCTION OF QTZ VEINS WHICH HAVE BECOME
 R BOUDINAGED. QTZ IS FINELY FRACTURE (IRREGULAR NETWORK) WHICH ARE
 R LIMONITE STAINED +/- PYRITE. PYRITE RICH BANDS AND SILICIFIED
 R CORE AT TOP OF UNIT. MODERATELY TO POORLY FOLIATED. PY IS FINELY
 R DISSEMINATED AND AS SHORT STRINGERS WEAKLY PARALLEL TO FOLIATION
 R ~<2%, AS MICROVEINS/FRACTURE FILLING WITH LIMONITE 3-4%,
 R ASSOCIATED WITH QTZ VEINS 10-15%, AND AS VEINS 2%. SERICITE
 R ALTERED LOCALLY SHEARED, BROKEN CORE WHICH IS BLEACHED, BECOMING
 R CLAY RICH AND HAS ASSOCIATED JAROSITE VEINS, 1.0 TO 4.0 CM WIDE
 R 3340 3360MOR BLEBS CLAY IN CORE, PARALLEL FOLIATION.
 R 3378 3380VUGGY PITTED QTZ WITH PY, LIGHT WEIGHT, ~60 DEGREES TO CORE AXIS
 R BOUNDED BY CLAY ALTERED SERICITE 3 CM WIDE.
 D 3330 3630 100 X 055
 L 31R2 335 267
 R 3520 3625SHEARED ZONE, INCREASE PERVASIVE CLAY, CORE BECOMES BROKEN,
 R BLOCKY. YELLOW JAROSITE ON FRACTURES WITH CLAY TO BASE, BANDS
 R PARALLEL FOLIATION, OF BLACK SOOTY CLAY, ALTERATED CHALCOCITE,
 R LIMONITE STAINING.
 R 3690 3740FRACTURED CORE, HEALED, PYRITE AND LIMONITE WITH BOUDINAGED QTZ,
 R CLAY AND GROUND CORE ON FRACTURES WITH PATCHES OF CHALKY VERY
 R WHITE CLAY, VERY SOFT.
 R 3840 3875CORE GREY IN COLOUR, LOSE LIMONITE, CLAY ON FRACTURES, AND
 R ON FOLIATION.
 D 3630 3930 92 X 080
 L 28R3 366 153
 R 3840 4280HIGH CONCENTRATION FRACTURED QTZ VEINS WITH PYRITE AND LIMONITE
 R STAINING, PATCHY SILICIFICATION OF CORE PROXIMAL TO VEINING,
 R PYRITE MICROVEINING COMMON, CPY VISIBLE, PATCHY, PROXIMAL TO QTZ
 R VEIN AT 39.90 M. FRACTURE OXIDIZED, BROWN GREY.
 R 4140 4230PRESENCE OF CLAY, CORE IS LIGHTER IN COLOUR, BROKEN WITH LIMONIT
 R AND CLAY ON FRACTURES, YELLOW-BROWN TO DARK BROWN BLACK OXIDE.
 D 3930 4294 97 X 081
 L 40R3 396 143
 P 4294 5170 CL7TFLP P1 P1 D+
 L <) V)
 R FINE GRAINED, GRANULAR, WEAKLY FOLIATED, GREEN-GREY TO LIGHT
 R GREEN-GREY, MOTTLED WITH ORANGE-BROWN OXIDIZED VEINS, FRACTURES
 R AND LAPILLI. FRACTURE PLANES ARE OXIDIZED, GENERALLY WITH PATCHY
 R WHITE, CLAY. MANY MICROVEINS (REMNANT PYRITE) AND QTZ VEINS
 R CONTAIN OXIDE STAINED CLAY. QTZ VEINS COMMONLY PRESENT AS QTZ
 R AUGENS, FRACTURED WITH LIMONITE STAINING (REMNANT PY). SIMILAR

A001	24.30	27.30	58244	.776	.420
A001	27.30	30.30	58245	.992	.380
A001	30.30	33.30	58246	.956	0.9480
A001	33.30	36.30	58247	1.060	.490
A001	36.30	39.30	58248	1.260	.400
A001	39.30	42.30	58249	1.410	.500
A001	42.30	45.80	58250	.576	.250



R TO PREVIOUS UNIT. TOP OF UNIT IS SERICITE RICH, LACKS LIMONITE,
R UNIFORM AND LIGHT GREEN-GREY IN COLOUR, LOCAL SECTIONS KAOLINITE
R RICH- PALE YELLOW WHITE-WHITE IN COLOUR.

N 4415 4580 22KXFALT P3 KA
L OR1 G2 P3
R FAULT AND LOST CORE (44.35-45.70 M)

N 4580 4780 KA3FALT P4 KA
L G2 P4
R FAULT ZONE, KOALINIZED-SERICITIZED CORE. -70-80% CORE LOST.

D 4294 4580 54 2
L 9R2 427
R MARK AT 45.70

R 4805 4830 DECREASE IN CHLORITE, INCREASE SERICITE, BROKEN CORE. QTZ VEIN
R LEACHED WITH PYRITE RIMMING AND CHALCOCITE.

N 4830 4960 38KA9FALT P4 KA
L OR1 G2 P4
R CORE STRONGLY KAOLINIZED, SUGARY TEXTURE, YELLOW-TAN WITH
R PERVASIVE OXIDE STAINING. SERICITE ALTERING TO CLAY. FAULT ZONE
R AT 48.60 - 49.50, LOW RECOVERY.

N 4920 4950 XMCOR
R 5030 5050 BLEACHED CORE WITH PERVASIVE OXIDE STAINING. SUB-PARALLEL TO
R CORE AXIS (LARGE PATCH)

D 4580 5170 49 X
L 9R2 488

R 5120 5170 CORE BECOME BLEACHED, TO BLUE GREY, LOSE CHLORITE, INCREASE
R SERICITE.

P 5170 6400 30SEBFLP P4 Q) KA
L OR1 G3Q) V) P3
R UPPER CONTACT FAULT AT 30 DEGREES TO CORE AXIS, CLAY GOUGE WITH
R FRAGMENTS, FINE GRAINED, LOCALLY GRANULAR, STRONGLY SERICITIC,
R CLAY RICH ROCK. ORIGINAL TEXTURES GONE, ODD QTZ AUGEN OR
R LAPILLI REMAINS. OVERALL A TAN-YELLOW COLOUR WITH DARK TO RED
R BROWN PATCHES SCATTERED THROUGHOUT, (ALTERED LAPILLI OR PYRITIC
R RICH SECTIONS?). BLOCKY BUT GENERALLY INCOMPETENT RUBBLE TO
R GRAVEL. LOCALLY YELLOW GREEN DUE TO PYROPHYLLITE? POOR RECOVERY
R 30% CHLORITE LAPILLI. LOWER CONTACT FAULT CLAY GOUGE. FOLLOWING
R CORE IS GROUND.

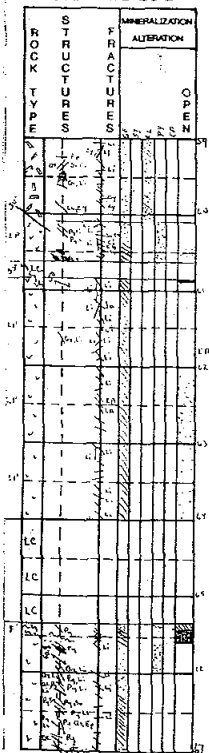
D 5170 5780 30 9
L OR1 518

D 5780 6080 87 X 133
L 9R31 549 136

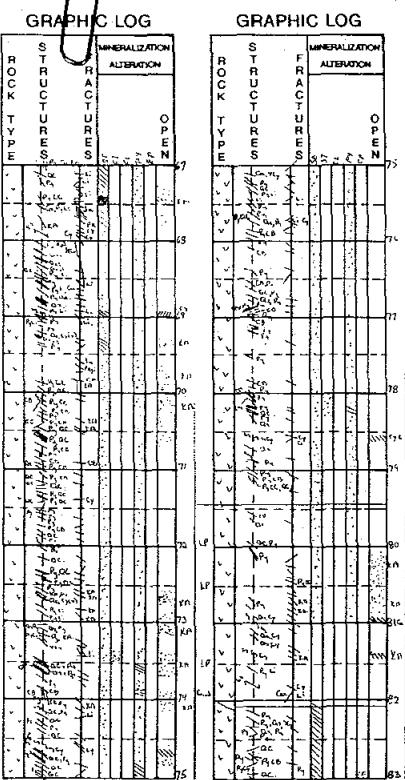
N 5775 6005 F5XANPP Q1 P5
L D1<+ <)

R APHANITIC TO FINE GRAINED WITH COARSE TO VERY COARSE GRAINED
R PHENOCRYSTS OF FELDSPAR. LIGHT GREEN AT TOP AND BOTTOM OF UNIT

GRAPHIC LOG

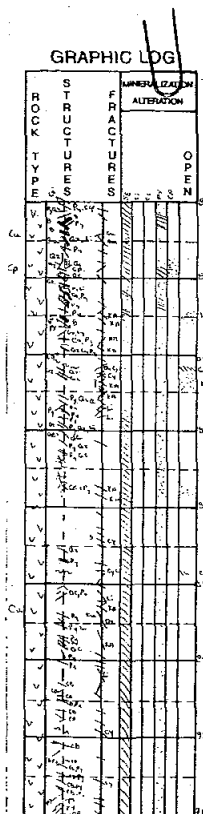


R MEDIUM GREEN THROUGHOUT. FOLIATION VERY STRONG AT TOP AND
R BOTTOM OF UNIT. GRADUALLY DECREASING TO MIDDLE. PHENOCRYSTS ARE
R ELONGATED TO ALIGNED ALONG FOLIATION. CRYSTAL FORM ON FOLIATION.
R 0.5 TO 0.1 CM IN SIZE. PHENOCRYSTS WITH ALTERED, SERICITIZED,
R AND ARE PALE WHITE GREEN IN DARK GREEN CHLORITE GROUNDMASS.
R CHLORITE ALSO SEEN ON FINE FRACTURE FILLING. EPIDOTE PRESENT ON
R FOLIATION, WITH QTZ VEINING AND AS FRACTURE INFILLING. PALE
R PINK-RED SHEEN TO PALE COATING ON FOLIATION PLANES (COPPER
R OXIDE?). LOCALLY VUGGY QTZ VEINS WHICH ARE STRONGLY OXIDIZED,
R AND OXIDIZED MICROFRACTURES. OPEN VUGS CROSSCUT FOLIATION 58.40
R TO 58.50, SOME OXIDIZED CLAY OTHERS BLACK FINE CLAY.
A003 5775 6005 54
R AVG OF 6 READINGS, MIDDLE OF UNIT AVG 150 X 10 (-5 POWER)
R 5890 5955 WEAKLY TO NONFOLIATED, LIGHTER GREY GREEN.
R 5940 5955 VUGGY OPENS PACIES, SUBANGULAR, 2.0 TO 3.5 CM, CHLORITE RIMMED,
R PITTED LIMONITIC STAINED QTZ INFILLING IN SOME.
R 6005 6060 FINE GRAINED, FOLIATED, LIGHT GREY, SERICITE-QTZ-PYRITE.
R SIMILAR TO TOP OF UNIT. OXIDIZATION ONLY PRESENT ON FRACTURES,
R PYRITE IS DISSEMINATED, (1-2%) AND AS MICROVEINS (<1%). QTZ VEIN
R 60.45 TO 60.55, BOUDINAGED NO DISTINCT LAPILLI.
N 6060 6080 XMCOR
L
R 6080 6400 SERICITIZED LAPILLI TUFF-SAME AS 51.70-57.75, PERVASIVE YELLOW-
R TAN TO BROWN OXIDE STAIN, CORE IS BLOCKY, MODERATELY COMPETENT,
R DECREASE IN KAOLINITE. SERICITE 30-50% OPEN VUGS WITH ROSE RED
R TO BROWN STAINING. FAULT CONTACT AT 60.8 TO 30 DEGREES TO CORE
R AXIS, CLAY GOUGE.
R 6145 6180 STRONG LIMONITE STAINING, MEDIUM BROWN, VUGGY TO PITTED TEXTURE.
R 6180 6200 PYRROPHYLLITE ON FOLIATION YELLOW GREEN.
R 6390 6400 PYRROPHYLLITE PRESENT (ALTERATION OF LAPILLI?)
D 6080 6400 81 X 1
L OR2 610 136
P 6400 9595 SE TUFF P2 Q* B= < KAQC
L E(Q) G+ V* P)V+
R FINE GRAINED, UNIFORM, HOMOGENEOUS, MODERATELY FOLIATED, MEDIUM
R TO LIGHT GREY, WEAK TO MODERATE (LOCALLY), SERICITE ALTERATION.
R QTZ WITH CARBONATE VEINING, +/- PYRITE SUBPARALLEL TO FOLIATION.
R PYRITE, REMOBIILIZED TO ALIGN ON FOLIATION. PRESENT AS BANDS
R (0.5 TO 2.0 CM)-RARE QTZ-SERICITE ENVELOPES. PATCHES OF LIGHT
R CREAM COLOURED CARBONATE AND FRACTURE FILLING WHITE CLAY GOUGE
R MATERIAL, TOP AND BOTTOM OF UNIT. KAOLINITE-CLAY ALTERATION
R MAY BE YELLOW TO ORANGE IN COLOUR (OXIDE STAINING) AT FRACTURES
N 6400 6530 XMCOR
L
R LOSE OXIDE STAINED SERICITE UNIT ABRUPTLY, CLAY GOUGE.



R 6650 6660 VUGGY, PITTED QTZ VEIN, DULL GREEN, HARD, CLAY +/- EPIDOTE?
 R INFILLING AND OXIDE STAIN.
 D 6650 6660 56 7 243
 L 22R3 640 475
 R 6700 6710 FINE, IRREGULAR PYRITE FRACTURES, <1 MM, HAVE GREEN ENVELOPES-
 R MINOR CHLORITE? GREEN COLOURED SERICITE OR PRESENCE OF VERY
 R FINE GRAINED SULPHIDES. NO VISIBLE CPY.
 R 6725 6790 CORE IS BLEACHED AT EITHER END, FRACTURED 3-4/10 CM- PRESENCE
 R OF KAOLINITE.
 R 6800 6853 LATE VERTICAL FRACTURE AT 10 DEGREES TO CORE AXIS, NATIVE COPPER
 R ALONG LENGTH-METALLIC CRYSTALS AND CRIMSON RED OXIDE, WHERE
 R FRACTURE CUTS PYRITE BAND- NATIVE COPPER PRESENT.
 R 6950 7080 LIGHTER GREY IN COLOUR, INCREASE IN SERICITE WITH MINOR KAOLINITE
 R GENERALLY ON FOLIATION. INCREASE IN QTZ-CARBONATE PATCHES AND
 R VEINS.
 D 6700 7000 98 X 136
 L 23R4 671 136
 R 7245 7385 KAOLINITE INCREASE, CORE LIGHT GREY, LOCALLY YELLOW CLAY PRESENT
 R ASSOCIATED WITH QTZ VEIN AND INCREASE DISSEMINATED PY. CORE IS
 R FRACTURED, MORE CORE IS LOCALLY SILICIFIED, VEIN OF QTZ-CARB,
 R YELLOW-WHITE WITH GREY-WHITE QTZ VEIN CUTTING LATER PYRITE AT
 R MARGINS.
 D 7000 7300 96 X 117
 L 48R2 701 025
 R 7550 7572 SLIGHTLY BLEACHED CORE, ADJACENT TO FRACTURE AND OXIDIZED
 R FRACTURES.
 R 7515 7530 SLIGHTLY BLEACHED, WEAKLY OXIDIZED BANDS AND QTZ PARALLEL
 R FRACTURES. WEAKLY CALCAREOUS.
 D 7300 7600 88 X 014
 L 46R3 732 123
 R 7805 7825 FRACTURED, QTZ VEINING AND PYRITE HEALED. PYRITE TO 7-10%
 D 7600 7900 100 X 024
 L 73R4 762 013
 N 7945 8205 945EXTFLP P2 B= QCKA
 L 60R3 Q) Q) <*<+Q*+<+<
 R FINE GRAINED, WELDED, POORLY FOLIATED, MEDIUM TO BLUE GREY,
 R MINOR PATCHY CARBONATE, PYRITE MICROVEINS FINELY FRACTURED,
 R LAPILLI GENERALLY INDISTINCT= MOTTLED APPEARANCE TO MODERATELY
 R SILICIFIED. PATCHES OF YELLOW, HARD CLAY WITH QTZ?
 R 8020 8070 PRESENCE OF KAOLINITE, MORE FRACTURES PARALLEL FOLIATION.
 D 7900 8200 100 X 011
 L 60R3 792 131
 R 8180 8190 FRACTURE AT 30 DEGREES CA. OPPOSITE FOLIATION AT 60 DEGREES CA.
 R RED-BROWN (CRIMSON) STAIN ON FRACTURE, AFTER COPPER? VUGGY QTZ
 R VEINING AND PATCHES WITH FLAT GREEN CLAY INFILLING.

A001	45.80	51.80	58251	.588	.480
A001	51.80	57.80	58252	.023	.230
A001	57.80	60.80	58253	.316	.110
A001	60.80	64.00	58254	.044	.320
A001	64.00	67.00	58255	.291	.190
A001	67.00	70.00	58256	.326	.200
A001	70.00	73.00	58257	.300	.210
A001	73.00	76.00	58258	.228	.190
A001	76.00	79.00	58259	.310	.190
A001	79.00	82.00	58260	.262	.170



D 8205 9235 F89TUFF P3 B= CUB*←= QCKA
L E(←* G) S(←*V+ ←+Q.

R CORE IS VERY HOMOGENEOUS. LIGHT GREY IN COLOUR, VERY STRONGLY
R SHEARED. SERICITE-QTZ PYRITE. QTZ-CARBONATE AS IRREGULAR PATCHES
R AND VEINS USUALLY ASSOCIATED WITH PYRITE BLEBS. PYRITE
R REMOBLIZED TO ALIGN ALONG FOLIATION AS THIN STRINGERS OR AS
R WIDE, PYRITE RICH BAND (NOT MASSIVE). PYRITE ASSOCIATED WITH
R QTZ FRACTURE FILLING IN BRITTLE SECTIONS. BLUER GREY BANDS
R GENERALLY 3-10 CM WIDE REACT BRITTLE, SHARP CONTACT WITH LIGHT
R GREY SHEARED CORE. GRANULAR APPEARANCE, VERY FINE GRAINED. VERY
R HARD, WON'T SCRATCH. MAY BE RICHER IN QTZ AND FINE SULPHIDES?
R HIGH % OF DISSEMINATED PYRITE. OPEN SPACE FRACTURES ARE QC OR
R QTZ+/-PY INFILLED. OFFSET BY FRACTURES. TO BOTTOM BRITTLE CORE
R ACTS AS FRAGMENTS WITHIN SERICITE GROUNDMASS. MINOR CPY
R ASSOCIATED WITH QTZ VEINS. VISIBLE NATIVE COPPER ON FRACTURES
R CROSSCUTTING FOLIATION.

R 8325 8340TWO BANDS, BLUE GREY, SILICEOUS ZONES, BRITTLE, FINELY FRACTURED
R PARALLEL TO CORE AXIS. PERPENDICULAR MARGINS OF BAND- QTZ AND
R YELLOW CLAY INFILLED. (3=BRITTLE)

R 8340 8350BROKEN CORE, STRONGLY OXIDIZED, QTZ VEIN, OPEN SPACE INFILLING.
R OXIDIZED, NATIVE COPPER ON FRACTURE X-CUTTING FOLIATION AT 35
R DEGREES TO CORE AXIS WHICH PARALLELS THE 1.0 CM QTZ VEIN.

R 8375 8398BLUE GREY BRITTLE MATERIAL, QTZ FRACTURE INFILLING, UPPER
R CONTACT AT 35DEGRRES TO CORE AXIS, VERY FINE FAINT FRACTURES IN
R DIRECTIONS. SECOND BAND BELOW, LOWER CONTACT AT 60 DEGREES TO
R CORE AXIS. QTZ WITH MINOR CHALKY YELLOW-WHITE CLAY INFILLING.

R 8410 8430BAND OF BRITTLE MATERIAL? 70 DEGREES TO CORE AXIS, WITH QTZ +
R PYRITE FRACTURE INFILLING, LOCALLY OFFSET PARALLEL TO CORE AXIS
R 6 CM WIDE PYRITE RICH BAND BELOW, LOWER CONTACT 45 DEGREES.

D 8200 8500 95 X 024
L 53R4 823 133

R 8610 8690PARALLEL TO FOLIATION AND IRREGULAR PATCHES, QTZ-CARBONATE WITH
R PYRITE.

R 8733 8740FINELY FRACTURED +/- FRAGMENTS, FRACTURES SERICITE AND CY,
R GRANULAR WITH BLACK FINE GRAINED CLAY, GROUND SULPHIDES?

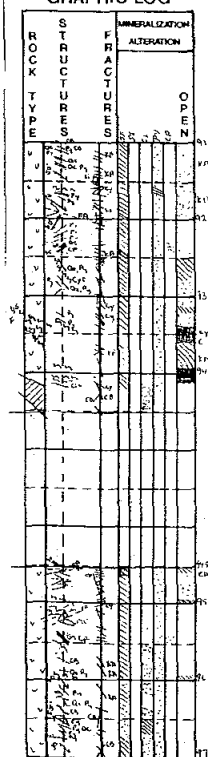
D 8500 8800 97 X 122
L 63R4 853 127

R 8840 8853STRINGERS AND LAPILLI OF BRITTLE MATERIAL IN SERICITE, FINE
R PYRITE AND LIMONITE MICROVEINING AND YELLOW CLAY FRACTURE
R INFILLING, FRACTURE AT 30 DEGREES, X-CUT FOLIATION OF 70-75
R DEGREES TO CORE AXIS. OXIDIZED FRACTURE PLANE WITH VISIBLE
R COPPER.

D 8800 9100 97 X 024
L 53R4 884 213

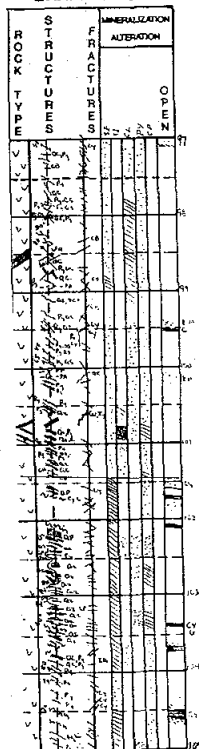
R 9075 9082PERVASIVE, YELLOW GREEN CLAY, SEEN IN EARLIER HOLES.

GRAPHIC LOG



- R 9120 9140 SEGREGATION BANDS OF SERICITE AND QTZ-CARBONATE-PYRITE -0.5 TO
R 1.1 CM WIDE, PARALLEL TO FOLIATION, CLAY ON FOLIATION PLANES,
R CORE FRACTURED MORE.
- R 9165 9170 SHEAR ZONE, VERY FINE, GREY, SULPHIDE CLAY AT 65 DEGREES TO CORE
R AXIS.
- R 9175 9182 FOLD, CHANGE IN FOLIATION F.A. AT 91.80 AT 70 DEGREES TO CORE
R AXIS.
- R 9190 9200 BROKEN CORE PARALLEL TO CORE AXIS.
- R 9200 9235 MIXTURE OF FOLIATED SERICITE AND BRITTLE MATERIAL, QTZ CARBONATE
R INFILLING SMALL TENSION FRACTURES. BRITTLE ROCK ACTS AS LAPILLI
R WITHIN SERICITE GROUNDMASS, PYRITE DISSEMINATED THROUGHOUT, AND
R AT BOUNDARIES OF FRAGMENTS AND AS MICROVEINS, CP WITH QC VEIN.
- R 9235 9258 STRONG SERICITE, FAINT GREEN +/- PR. DISSEMINATED PY. INCREASE
R KAOLINITE.
- D 9258 9415 CY8 P3 D+ KA
L G2 Y) P1
- R STRONGLY FRACTURED AND CLAY GOUGE RICH. BROKEN CORE TO WEAKLY
R COMPETENT GOUGE WITH COARSE GRAINED QTZ FRAGMENTS SUBANGULAR.
R TOP AT 93.35 AT 45 DEGREES TO CORE AXIS, DARK GREY CLAY (FINE
R SULPHIDES?) LOWER CONTACT -93.55 AT 30-35 DEGREES TO CORE AXIS.
- R 9397 9415 STRONGLY SHEARED, CLAY RICH, DARK GREY FROM FINE SULPHIDES.
- D 9100 9595 95 X 114
L 6R2 914 276
- N 9415 9450 100AMXANDY P1<>
L 25R3 <>
- R VERY FINE GRAINED TO APHANITIC, WITH FINE GRAINED DARK GREEN/
R BLACK FRAGMENTS. SMALL FELSIC SUBROUNDED INCLUSIVE?/ AMYGDULES
R WHITE REACTION RIMS, WITH QTZ RICH CENTRES, NOT NOTICEABLY
R CALCAREOUS. TOP CONTACT SHARP, IRREGULAR AT 70 DEGREES TO CORE
R AXIS. LOWER CONTACT AT 50 DEGREES TO CORE AXIS. BOTH CONTACTS,
R LIGHTER GREEN IN COLOUR, SHOW BANDING PARALLEL CONTACT. MINOR
R WHILE PATCHES OF CLAY ON FRACTURES, FINE FRACTURE AT 10 DEGREES
R TO CORE AXIS, CALCAREOUS. (MAY BE LAAP). EPIDOTE ON FRACTURES.
R LATITE COMPOSITION?
- A003 9430 9440 2300
- D 9450 9595 SE9TUFF P3 Q) B* KA
L <> V) Q+
- R SERICITE ALTERED TUFF, LOCALLY CLAY, DECREASES AT DEPTH,
R FOLIATED, CRENULATED AND SMALL SCALE KINK FOLDING. FINE
R FRACTURES, LOW ANGLE TO CORE AXIS. CALCAREOUS. GRADATIONAL
R INCREASE OF CHLORITE BASE. BLEBS OF PYRITE WITH CHLORITE ZONE,
R CHLORITE PATCHES, CORE IS BROKEN. BLOCK, MORE COMPETENT AT DEPTH
R CP WITH QTZ VEIN, PYRITE DISSEMINATED, BANDS PARALLEL FOLIATION.
- R 9538 9540 QTZ VEIN, BLEBS OF CP +/- WEAK CARBONATE.
- R 9540 9542 DISSEMINATED CHLORITE APPEARING.

GRAPHIC LOG

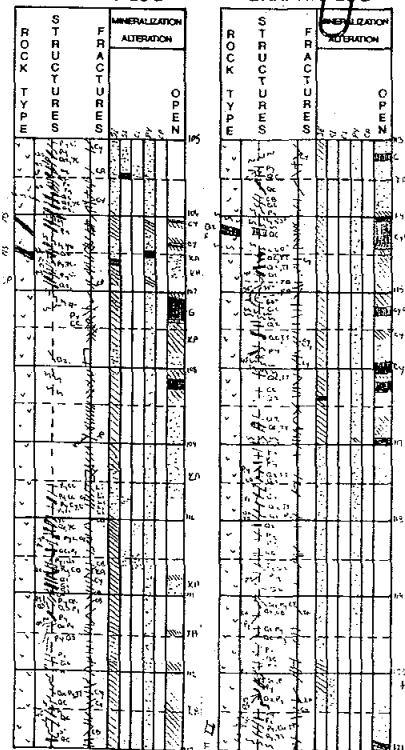


R 9510 9570CRENULATED FOLIATION, STRONG SERICITE, BLEBS OF CHLORITE,
R MOTTLED WITH BLEBS OF PYRITE.
P 9595 10145 CL9TUFF P2 P2 B+ <+ QC
L E) <+ <+
R FINE TO VERY FINE GRAINED, MODERATELY FOLIATED, MEDIUM SHEARED
R LOSE ORIGINAL TEXTURE LOCALLY. POSSIBLY TFLP? QTZ-CARBONATE
R MICROVEINING +/- PY. PY MICROVEINS WITH ENVELOPES. SERICITIC,
R BREAKS EASILY ALONG FOLIATION. KAOLINITE CLAY ON FOLIATION,
R GRADATIONAL UPPER-LOWER CONTACT, ALTERNATING BANDS +/-CHLORITE.
R BLEBS OF PYRITE TO CRYSTALS ALIGNED PARALLEL FOLIATION AS
R STRINGERS OR BANDS, ZONES OF CHLORITE BLEBS, FRAGMENTS PARALLEL
R FOLIATION, ELONGATED,, MOTTLED APPEARANCE. CARBONATE FRACTURE
R FILLING. SILICEOUS YELLOW CLAY WITH PYRITE MICROVEINS?
D 9595 9700 93 7 032
L 10R2 914 234
R 9750 9780ALTERNATING BANDS+/-CHLORITE, SLIGHT FRACTURE OFFSETTING,
R COMPETENT PYRITE MICROVEIN <1 MM WITH ENVELOPES, LIGHT GREY IN
R COLOUR, 2-5 MM PARALLEL FOLIATION 40-45 DEGREES TO CORE AXIS AND
R XCUT AT 50 DEGREES (~15 MICROVEINS OVER 10 CM)
R 9850 98604.5 CM WIDE QTZ AND MINOR CARBONATE VEIN XCUT FOLIATION AT 50
R DEGREES TO CORE AXIS.ACCOUNTS FOR KINK IN FOLIATION.
R 9865 9875QTZ AND YELLOW CLAY +/-CARB CUT BY FRACTURE FILL.
D 9700 10145 100 X 132
L 47R2 975 124
R 9920 9970PYRITE MICROVEIN AND FRACTURE FILL, QTZ-SERICITE ENVELOPES,
R GENERALLY YELLOW, ASSOCIATED YELLOW CLAY? LOW PYRITE <2%.
R 10000 10145GRADATIONAL DECREASE IN CHLORITE, CORE LOCALLY SILICEOUS,
R PYRITE WITH QTZ-SERICITE ENVELOPES 30-45 DEGREES TO CORE AXIS.
R 10095 10230CORE SILICEOUS FROM 100.6 TO 101.10. GRADATIONAL AT TOP AND
R BOTTOM. FRACTURE CONTACT AT 106.00 AT 15 DEGREES CA;
R INTRODUCTION OF QTZ (25-30%) AND PYRITE (15-20%) AT 100.74 TO
R 100.90 M. PATCHY CHLORITE AT VEIN EDGES, QTZ VEIN CROSSCUTTING
R FOLIATION. YELLOW CLAY (YC) INFILLED FRACTURES.
P 10145 13530 SE TUFF P2 Q+ B= D) <+ KAYC
L E) G1 V=V+ Q=Q1
R FINE GRAINED, SHEARED , (LOCALLY MEDIUM GRAINED, GRANULAR),
R POOR TO NON-FOLIATED. MEDIUM GREY TO LIGHT GREY (CLAY ALTERED
R ZONE) TO GREEN GREY. PATCHY CHLORITE NEAR TOP OF UNIT PARALLEL
R FOLIATION. SCATTERED THROUGH ZONE BUT CONCENTRATED TO DEPTH IS
R YELLOW TO YELLOW GREEN CLAY (AS SEEN IN 89-05). KAOLINITE AND
R CLAY GOUGE ZONE COMMON MID SECTION. CORE IS COMPETENT AND VERY
R UNIFORM AT DEPTH. HIGH CONCENTRATION QTZ VEINING AT TOP OF UNIT,
R QTZ APPEARS BOUDINAGED LOCALLY. PYRITE BLEBS DISSEMINATED, BANDS
R WITH PY MICROVEINS, WITH QTZ. MINOR CARBONATE AT TOP OF UNIT-
R MORE PREVALENT AS QTZ-CARBONATE +/-PYRITE AT DEPTH. LAPILLI SEEN

R AT DEPTH OVER 30 CM, QUESTIONABLE IF THROUGHOUT UNIT BUT NOT
 R SEEN DUE TO SHEARING AND FOLIATION? (YELLOW CLAY), CPY AND
 R SCATTERED BLEBS BN WITHIN TOP QTZ RICH SECTION.
 D 10145 10700 X P1 Q= B1 D) <= B*KA
 L <) G) V1V Q)
 R FINE GRAINED, MODERATELY FOLIATED TO MOTTLED LOOKING CORE, WITH
 R CRACKLE FRACTURED QTZ VEINS, GENERALLY BOUDINAGED, WITH BANDS
 R OF SERICITE +/- CHLORITE AND PYRITE WRAPPED AROUND. DISSEMINATED
 R TO STRINGERS OF CP AND BN VISIBLE ON FOLIATION AND ASSOCIATED
 R TO QTZ.
 R 10145 10155 STRONG SHEAR ZONE, PALE LIGHT GREEN. VERY FINE GRAINED, FOLDED,
 R STRONG SERICITE, LOWER FRACTURE BLACK, VERY FINE GRAINED,
 R SULPHIDE RICH CLAY.
 R 10230 10270 FINE GRAINED DISSEMINATED CP IN QTZ FRACTURES AND IN FOLIATION,
 R CONVOLUTED ABOUT QTZ, BN ALONG FOLIATION.
 R 10335 10336 LOOSE CHLORITE AND CPY AND BN, QTZ TO 103.80
 D 10145 10300 97 5 007
 L 30R2 1006 016
 R 10390 10515 FINE GRAINED, FOLIATED, UNIFORM, SERICITE TUFF, LACKS QTZ VEINS,
 R LESS PYRITE, MINOR CHLORITE.
 R 10450 10465 CLAY GOUGE SHEAR ZONE, BLEACHED CORE TOP AND BOTTOM.
 R 10515 10700 INCREASE IN QTZ VEINING, CONVOLUTED FOLIATION WRAPPED AROUND
 R VEINS, BLUE-GREEN GREY IN COLOUR. INCREASE PYRITE BANDS ALONG
 R FOLIATION. QTZ IS BRITTLE, FRACTURED, GROUND QTZ IN FRACTURES
 R +/- MINOR CARBONATE, LACK CP AND BN (MINOR AMOUNT AT 105.40 TO
 R 105.50, VUGGY QTZ).
 D 10300 10600 97 X 017
 L 15R2 1036 116
 R 10660 10670 VERY FINE GRAINED, PALE GREY BAND OF STRONG SERICITE ALTERED
 R TUFF? (ASH?) FINE PYRITE MICROVEINS WITH LIMONITE (<0.5MM).
 R OFFSET PY VEIN WITH YELLOW SILICEOUS CLAY AT 55 DEGREES TO CORE
 R AXIS. SHARP LOWER CONTACT WITH QTZ VEIN RICH TUFF AT 75 DEGREES
 R TO CORE AXIS.
 R 10680 10690 QTZ VEIN, FRACTURED PERPENDICULAR TO EDGES, YELLOW CLAY
 R INFILLING WITH LIMONITE STAIN. PARALLEL BAND OF PY. CP SMEAR ON
 R TOP FRACTURE PLANE, PY >8-10%
 R 10700 10990 BADLY BROKEN, BLOCKY CORE, SERICITE WITH KAOLINITE ALTERATION,
 R LOCALLY CLAY GOUGE. GRANULAR, PITTED SURFACES WITH OXIDE
 R STAINING POOR RECOVERY 28% (<1 M OVER 3.2). PYRITIC AND CO OXIDE
 R STAINING +/- COVELLITE (BLUE IRRIDESCENCE). WHITE PATCHY CLAY ON
 R FRACTURES AND BROKEN SURFACES. MINOR CHLORITE, LIGHT TO MEDIUM
 R GREY IN COLOUR. WEAKLY FOLIATED AT 70 DEGREES TO CORE AXIS.
 R RUBBLE LOCALLY.
 D 10600 10900 53 X
 L OR2 1067 XXX

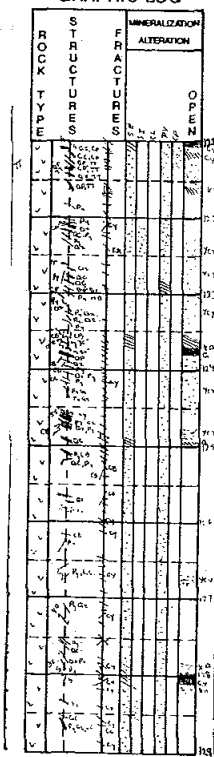
GRAPHIC LOG

GRAPHIC LOG



- R 10970 10990BROKEN CORE AT 60-70 DEGREES TO CORE AXIS, VUGGY QTZ VEINS,
 R LIMONITE STAINED, PYRITE BAND AT 45 DEGREES TO CORE AXIS, PITTED
 R OPEN VUGS WITH CHALKY WHITE CLAY.
- R 10990 11185SERICITE-QTZ-PYRITE TUFF, PYRITE VEINING WITH QTZ +/- CARBONATE
 R ENVELOPE. PERVASIVE FINE YELLOW TO YELLOW GREEN CLAY, TO EDGES O
 R OF ENVELOPES. OVER ALL COLOUR YELLOW-GREEN. LIGHT ALTERATION
 R HALO'S AROUND PYRITE RICH BANDS, ADDITIONAL GREEN FROM SE.
- R 11020 11530WIDE ZONES OF QTZ-CARBONATE +/-PYRITE VEINS, VARIETY OF ANGLES
 R TO CORE AXIS. LOCALLY FOLDED, CLAY RICH MARGINS AND GOUGE.
- R 11000 11020FINELY FOLIATED TUFF, BLUE GREY, FRACTURED, PITTED QTZ WITH YC
 R JJIN CENTRE, MINOR PY. HEAVY SECTION OF CORE FOR SIZE.
- R 11020 11030PYRITE VEIN WITH QTZ MARGINS IS OFFSET, NORMAL SLIP MOVEMENT,
 R INFILLED PYRITE CARBONATE FRACTURE FILLING.
- R 11185 11260CLAY RICH ZONE, NON-DESCRIPT FOLIATION, IRREGULAR QTZ +/-
 R CARBONATE VEINING. PATCHY FRACTURE FILLING CARBONATE, PYRITE
 R BLEBS SCATTERED. ELONGATED WHITE GREY FRAGMENTS? OR BROKEN
 R VEINING 112.5 TO 112.60 M (CLAY RICH)
- D 10900 11200 80 X 114
 L OR2 1097 116
- R 11320 11322SHEAR AT 60 DEGREES TO CORE AXIS, SSL AT 40 DEGREES TO PLANE,
 R DARK GREY, SULPHIDE RICH CLAY.
- R 11352 11360QTZ WITH CARBONATE FOLDED VEIN, FA=65 DEGREES TO CORE AXIS.
- R 11410 11440FAULT, CLAY GOUGE WITH FRAGMENT 3.0 CM WIDE WHITE QTZ VEIN,
 R MINOR CARB AT MARGINS. UNFRACTURED, LOWER CONTACT 60 DEGREES
 R PYRITE CLAY.
- R 11445 11450QTZ-CARBONATE VEIN AND BLEBS OF BLUE TINTED SOFT GREY METALLIC
 R TETRAHEDRITE TT?
- R 11460 11520GENTLE OPEN FOLD, FA=90 DEGREES AT 114.73, TOP LIMB ~40 DEGREES
 R TO CORE AXIS, LOWER LIMB 35 DEGREES, UNFOLIATED, QTZ-CARB
 R VEINING EITHER SIDE, BOUND BY CLAY RICH SHEAR ZONE, SECOND FA
 R AT 115.05 M ~70 DEGREES TO CORE AXIS, TOP LIMB 35 DEGREES TO
 R CORE AXIS, LOWER LIMB 60 DEGREES TO CORE AXIS.
- D 11200 11500 87 X 013
 L 10R2 1128 137
- R 11558 115600.5 CM WIDE QTZ-CARB VEIN WITH BLUE-BLACK TETRAHEDRITE BLEBS,
 R SOME VARIABLE FOLIATION, ALSO ASSOCIATED WITH QTZ-CARB BLEB.
- R 11610 11624CLAY GOUGE ZONE YELLOW CLAY PRESENT, TOP CONTACT AT 80 DEGREES
 R LOWER CONTACT AT 60 DEGREES TO CORE AXIS.
- R 11689 11691GOUGE, GREY SULPHIDE CLAY, 75-80 DEGREES TO CORE AXIS.
- D 11500 11800 98 X 023
 L 31R2 1158 126
- D 11800 12100 98 X 123
 L 93R3 1189 124
- R 12045 12080FINE MICROVEIN PY AND DISSEMINATED PY +/- TT (SUBHEDRAL TO
 R EUHEDRAL, DARK BLUE BLACK) AND AS FINE WISPS IN VEINS IN QTZ

GRAPHIC LOG



R VEINS AS BLEBS, DISSEMINATED IN CORE AND RIMMING PYRITE STRINGERS.

R 12090 12110 FAULT ZONE, STRONG CLAY GOUGE TOP CONTACT AT 60 DEGREES, LOWER CONTACT AT -50 DEGREES TO CORE AXIS. SERIES OF FRACTURES AT BASE AND CLAY INFILLED QTZ FRAGMENTS IN CLAY. BLACK CLAY SMEAR ON TOP CONTACT.

R 12230 12300 POORLY FOLIATED, CP ON FOLIATION -<2%

R 12230 12490 WEAKLY SILICEOUS NUMEROUS QTZ LENSES (VEINS?) SHEARED. FOLIATION 60 DEGREES TO CORE AXIS, GRADUAL APPEARANCE OF YELLOW CLAY. SPOTTY AT TOP, INCREASE AT 122.80-124.50. ~4-5% BANDS OF PERVASIVE YELLOW CLAY, CUT BY QTZ CORE AND PYRITE MICROVEINS. YELLOW-GREY COLOUR TO CORE. PATCHES OF CLAY WEAKLY PARALLEL FOLIATION.

R 12299 12300 CPY AND MINOR MOLY ON FRACTURE. PARALLEL FOLIATION PLANE. QTZ-CARB VEIN ANDS PYRITE.

R 12360 12378 SHEAR-SHARP TOP CONTACT 35 DEGREES TO CORE AXIS, FINE BLACK GREY CLAY ON FRACTURE.

R 12380 12490 DISTINCT, YELLOW GREY COLOUR TO CORE, DUE TO CLAY AND 8-10%

D 12100 12400 97 X 014
60R3 1219 113

R 12490 12495 SMALL SHEAR AT 60 DEGREES TO CORE AXIS, MINOR GOUGE <0.5 CM. KAOLINITE PERVASIVE.

R 12500 12950 POORLY FOLIATED, WEAKLY ALTERED, MODERATELY SHEARED TUFF (POSSIBLY LAPILLI TUFF?). MEDIUM-LIGHT BLUE-GREY. QTZ-CARB PATCHES TO FRACTURE FILL YELLOW-WHITE, NOT WHITE AS ABOVE, TRACE YELLOW CLAY WITHIN CORE.

R 12599 12600 FRACTURE AT 65 DEGREES TO CORE AXIS, BLCK GREY CLAY WITH SSL AT 15 DEGREES TO PLANE.

D 12400 12700 100 X 113
43R3 1250 125

R 12783 12784 FRACTURE AT 50 DEGREES TO CORE AXIS, GREY, CLAY, NO SSL

R 12795 12815 FAULT, CLAY GOUGE WITH GROUND ROCK FRAGMENT. TOP AT 35 DEGREES TO CORE AXIS, LOWER CONTACT AT 50 DEGREES. OXIDE STAINING ARE BLEACHED FOR 3 CM ON SIDE SIDE.

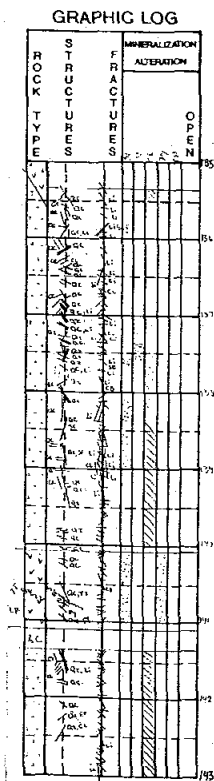
R 12810 12855 LAPILLI TUFF, CLAST SUPPORTED, SUB ANGULAR, QTZ CARBONATE (YELLOW WHITE) IRREGULAR FRACTURE FILLING, SILICEOUS PYRITE RIMS CLASTS AND PRESENT AS BANDS 45-55 DEGREES TO CORE AXIS. CLASTS ELONGATED, FELSIC LEAD TO BELIEVE THAT LAPILLI IN SECTION NOT SEEN BECAUSE OF FOLIATION.

R 12912 12915 NARROW SHEAR AT 70 DEGREES TO CORE AXIS, BLACK GREY SULPHIDE CLAY WITH KAOLINITE ON FRACTURE.

N 12950 13360 98CY=TFLP CV B*B1 YCQC
R3 P= B(V+ Q=V)

R WELL DEFINED LAPILLI CLASTS, GENERALLY IN BANDS, SCATTERED BANDS OF YELLOW CLAY THROUGHOUT. INCREASE IN BLEBS OF PYRITE-ALIGNED

A001	82.00	85.00	58261	.270	.190
A001	85.00	88.00	58262	.307	.190
A001	88.00	91.00	58263	.233	.110
A001	91.00	94.00	58264	.239	.140
A001	94.00	97.00	58265	.100	0.0990 .130
A001	97.00	100.00	58266	.111	.130
A001	100.00	103.00	58267	.510	.310
A001	103.00	106.00	58268	.720	.470
A001	106.00	109.00	58269	.892	.420
A001	109.00	112.00	58270	.530	.250
A001	112.00	115.00	58271	.050	.420
A001	115.00	118.00	58272	.210	.110
A001	118.00	121.00	58273	.390	.210
A001	121.00	124.00	58274	.514	.180
A001	124.00	127.00	58275	.083	.120

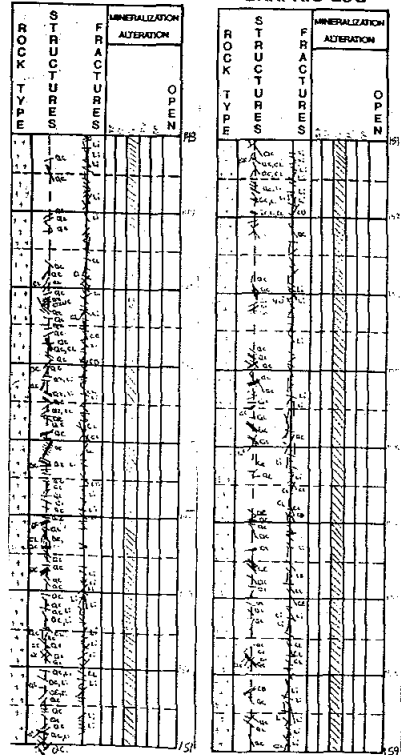


R MEDIUM TO DARK GREEN, FINE GRAINED TO VERY FINE GRAINED AT
R UPPER AND LOWER CONTACTS. (ASSOCIATED WITH CHILLING AT MARGINS)
R BROKEN, VERY BLOCKY CORE, LOCALLY FRACTURES SUBPARALLEL TO CORE
R AXIS. QTZ WITH CARBONATE VEINING AND FRACTURE FILLING THROUGHOUT
R VEINS ARE VUGGY WITH OPEN SPACE, COMMONLY OXIDIZED. FRACTURE
R PLANES CAN BE CHLORITIC, VERY POLISHED OR STRONGLY OXIDIZED WITH
R LIMONITE. LOCALLY EPIDOTIZED BANDS, METASOMATISM DUE TO QTZ
R VEINING? LOCALLY BRITTLE RESPONSE EXHIBITED BY DYKE WITH FINE
R GRAINED DARK GREEN CHLORITE INFILLING. (NOTICEABLE AT TOP OF
R SECTION). MINOR PYRITE WITH SOME OF THE QTZ-CARB VEINS AND
R FRACTURE FILLINGS. UNFOLIATED. CORE IS WEAKLY MAGNETIC, 15-20 X
R 10 (-5 POWER) SI UNITS OVERALL. TRACE PO +/- MAGNETITE (MG).
R VERY FINE GRAINED DISSEMINATED PYRITE. CP WITH QTZ VEINS +/- MC
R 13608 13640 FINE GRAINED CORE, SLIGHT YELLOW SPECKLED APPEARANCE, BRITTLE
R RESPONSE, OPEN SPACE FRACTURING WHICH HAS BEEN INFILLED WITH
R VERY DARK GREEN, VERY FINE GRAINED CHLORITE. (LIQUID-SOLID STATE)
R ALLOWED LINES OF WEAKNESS FOR QTZ VEINING.
R 13743 13768 QTZ VEINS (8 OVER 8 CM AT 1-3 MM) ZONE IS PISTACHIO GREEN,
R PERVASIVE EPIDOTIZATION TOP CONTACT AT 65 DEGREES TO CORE AXIS,
R SSL AT 60 DEGREES TO PLANE. CP-MC WITH QTZ VEIN LOWER ZONE AT
R 13.68-137.73, FRACTURED ZONE- FINE FRACTURES PARALLEL EDGE OF
R CORE AT 5 DEGREES QTZ CARB INFILLED (MYRMEKITIC APPEARANCE)
D 13530 13900 95 X 322
L OR3 1372 423
R 13985 14008 VERY STRONG SHEAR ZONE, VERY FINELY FOLIATED, MODERATELY SOFT,
R DARK CHLORITE ON FOLIATION. WITH SOME QTZ-CARB VEIN WHICH IS
R SLIGHTLY OFFSET, GREY CLAY AND CHLORITE ON FOLIATION.
N 14008 14108 SE=TFXL P= B+ TTQC
L V* B(<*)
R LIGHT GREY, FINE GRAINED WITH SUBHEDRAL TO EUHEDRAL LATHS, SOME
R ALTERED TO TALC, OTHERS ARE DARK HALOS AROUND PYRITE CLOTS.
R MOTTLED APPEARANCE, NON FOLIATED, QTZ-CARBONATE FRACTURE FILLING
R AND VEINING. BLOCKY CORE, STRONG SHEAR AT 140.65-140.75, CHANGE
R OF ROCK AT 140.75-141.08 TO TFLP, VERY PYRITIC, WEAKLY FOLIATED.
R QTZ-CB VEIN HAS TT.
N 14108 14130 XMCOR
L
D 13900 14200 85 6 212
L OR3 1402 514
D 14200 14500 85 X 211
L OR3 1433 XXX
R 14510 14525 EPIDOTIZATION OF CORE, FINE QTZ VEIN STOCKWORK, TOP CONTACT
R SHARP ALONG QTZ VEINING, LOWER CONTACT GRADATIONAL WITH FINER QC
R VEINLETS WITH CHL INFILLING. CORE DENSE RELATIVE TO DYKE. NO
R VISIBLE SULPHIDES, FINE GRAINED GRANULAR.

A001	127.00	130.00	58276	.062	.080
A001	130.00	133.00	58277	.105	.140
A001	133.00	136.00	58278	.247	.280
A001	136.00	139.00	58279	.006	.020
A001	139.00	142.00	58280	.037	.070
A001	142.00	145.00	58281	.002	.010

GRAPHIC LOG

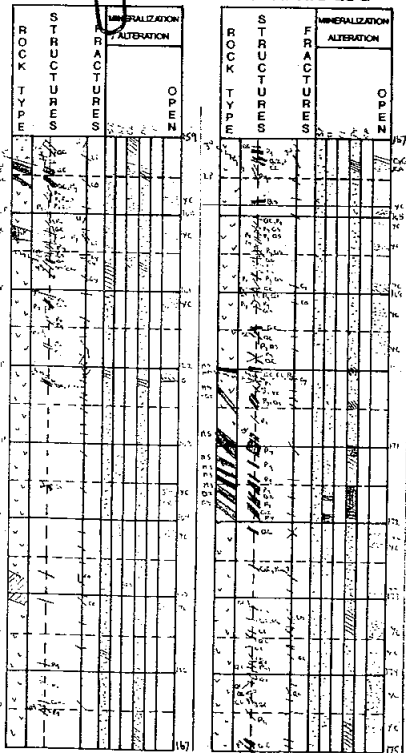
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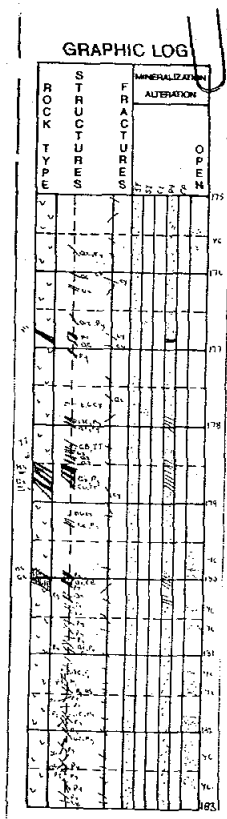
- R 14650 14680QTZ-CARBONATE VEINING 60-70 DEGREES TO CORE AXIS, PITTED WITH
R LIMONITE STAIN.
- R 14715 14730ZONE OF WEAK EPIDOTIZATION. 20-25 DEGREES TO CORE AXIS, 1.5 CM
R THICK, MEDIUM TO LIGHT GREEN WITH SPOTTY PISTACHIO GREEN. CUT BY
R A NUMBER OF PERPENDICULAR FINE QTZ-CARB VEINLETS AT 70 DEGREES
R TO CORE AXIS.
- D 14500 14800 95 X
L 0 1463
- R 14820 14830IRREGULAR FRACTURE FILL OF QC-CL-PINK ROSE COLOURED MINERAL?
R NON CALCAREOUS CHLORITE INFILLS FINE RADIATING FRACTURES
R PARALLEL TO CORE AXIS.
- R 14930 14950VERY WEAK EPIDOTIZATION MOTTLED DARK AND LIGHT GREEN, DENSE CORE
D 14800 15100 100 X 124
L 13R3 1493 114
- R 15082 15115QC VEINLETS NETWORK AT 65 DEGREES AND CROSSCUT AT 35 DEGREES TO
R CORE AXIS.
- R 15140 15155VUGGY, LIMONITE, STRONG OXIDE STAINED. QC VEINS 12 OVER 15 CM AT
R 60-65 DEGREES TO CORE AXIS, 0.4 TO 1.0 CM.
- R 14290 143002.5 CM WIDE QC-FRACTURE INFILLING, FRACTURES AT 40 DEGREES TO
R CORE AXIS. STRONG LIMONITE STAINED, WITH SSL AT 40 DEGREES TO
R PLANE.
- D 15100 15400 93 X 132
L 27R3 1524 132
- D 15400 15935 93 X 242
L 19R3 1554 324
- R 15775 17925DYKE MATERIAL BECOMING FINE GRAINED TO MARGIN.
- R 15929 15930LOWER CONTACT SHARP AT 75 DEGREES TO CORE AXIS, QC FLOODING
R ABOVE VEIN FOR 2.5 CM. FINE CHLORITE TENSION FRACTURES ~60
R DEGREES TO CORE AXIS CUT VEINS, 10 DEGREES TO CORE AXIS.
- P 15935 16780 SE9TFLP P= <* B1 <= QC
L v* <
- R GREEN GREY TO MEDIUM GREY, FINE GRAINED TO PORPHYRITIC (VARIES
R FROM TUFF TO CRYSTAL TUFF GROUNDMASS), WEAKLY TO NON-FOLIATED,
R CLASTS SUBROUNDED TO ELONGATED ALONG FOLIATION 55 TO 70 DEGREES
R TO CORE AXIS. CLASTS VARY 0.5 TO 3 CM IN SIZE, GENERALLY VERY
R FINE GRAINED, +/-FRACTURES +/-PY. LOCALLY SECTIONS CLASTS
R SUPPORTED TO MATRIX SUPPORTED, ~35% CLASTS, CLAST SUPPORTED
R ZONES. FINELY FRACTURED, WITH INCREASE IN PYRITE FRACTURE
R FILLING. BANDS OF QTZ +/- CARBONATE AND DISSEMINATED BLEBS OF
R PYRITE TO DEPTH. QTZ CARBONATE VEINING AND FRACTURE FILLING
R COMMON- MINOR CL AT TOP OF UNIT. WEAK SCATTERED PATCHES OF
R YELLOW CLAY. COMPETENT CORE. QTZ WITH MINOR CB AT UPPER CONTACT
R PYRITE AND CHLORITE RIM VEINS.
- R 16060 16113LIGHT GREY, SERICITIC CRYSTAL TUFF? BECOMES WEAKLY FOLIATED AT
R DEPTH. ANGULAR, BROWN GREY FRAGMENTS OF UNALTERED ROCK

GRAPHIC LOG

GRAPHIC LOG



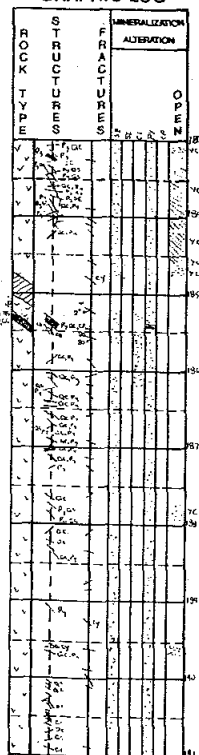
R SURROUNDED BY QTZ-SERICITE HALO- 160.63-160.70-RESULT OF
R SHEARING ABOVE. DARK GREY, GENERALLY PYRITIC LATHS/FRAGMENTS.
R 1 TO 3 MM ELONGATED TO FOLIATION. SOME ALTERED TO TALC.
R 16109 16110 COLOUR CHANGE, SHARP CONTACT 70 DEGREES TO CORE AXIS, PRESENCE
R OF YELLOW CLAY BELOW, BECOMES FRACTURES.
R 16205 16215 SHEAR AT 65 DEGREES TO CORE AXIS, CLAY GOUGE, CB ON FRACTURE
R PLANE, BROKEN, RUBBLE CORE. SSL AT 50 DEGREES TO PLANE, PINK-
R FLESH COLOURED MINERAL IN QC VEIN.
D 15935 16000 94 9 232
L 31R2 1585 332
D 16000 16300 98 X 112
L 55R4 1615 024
R 16418 16419 SHARP CONTACT AT 65 DEGREES TO CORE AXIS, START OF BAND OF YC,
R LOWER CONTACT AT 164.28 WITH FRACTURE AT 65 DEGREES TO CORE AXIS
N 16476 16513 APXLAPP H(
L <*<
R PORPHYRITIC LATITE FELSIC LATHS, WEAKLY ZONED, DARK CENTRES,
R DARK PHENOCRYST NEAR CONTACTS. LIGHT TO MEDIUM GREEN. CONTACTS
R AT 70 - 75 DEGREES TO CORE AXIS. WEAKLY FOLIATED AT TOP 40
R DEGREES TO CORE AXIS. FELSIC COMPOSITION.
R 16513 16782 INCREASE IN PYRITE, RIMMING CLASTS, FRACTURE FILLING, +/- QTZ
R CARB BANDS (PY 8-10%).
D 16300 16780 100 9 011
L 82R3 1646 012
R 16646 16650 PATCHY BRIGHT BLUE GREEN CLAY? APPEARS WITH YC ZONES, BUT
R BRIGHTER AND GREENER IN COLOUR.
R 16670 16720 SILICEOUS, INCREASE IN BLEBS OF PYRITE, MINOR CB, (PY-15-20%)
P 16780 18515 SE TUFF P=Q) B2 TT <= QCYC
L E) B*V+< <+Q+
R FINE GRAINED, GRANULAR, LIGHT TO MEDIUM GREY TO GREEN GREY.
R WEAKLY TO NON FOLIATED. COMPETENT, HOMOGENEOUS CORE. LOCALLY
R PATCHY YELLOW CLAY +/- ASSOCIATED BLEBS OF BLUE-GREEN CLAY.
R MINOR FRACTURE FILLING OF QTZ-CARBONATE, CAN BE LOCALLY
R ASSOCIATED WITH FRACTURED SECTIONS, IRREGULAR PATCHY INFILLING
R RESULTS. GENERALLY PYRITE REMOBLIZED, DISSEMINATED BLEBS
R PREFERENTIALLY ALONG FOLIATION. PYRITE RICH ZONES ASSOCIATED
R WITH FRACTURED ROCK AS MASSIVE. COMMONLY PYRITE MICROVEINS
R CROSSCUT QTZ-CARBONATE +/- PYRITE FINE VEINLETS 1-15 MM, NARROW
R QTZ-SERICITE ENVELOPE, AS NETWORK VEINING.
R 16950 17000 SILICIFIED SECTION WITH PY MICROVEINS AND AS FRACTURE INFILLING.
R BLUE GREEN CLAY AT 169.85
D 16780 16900 97 X 232
L 38R3 1677 112
R 17000 17005 PYRITE BAND 30-40% PY AND BLACK GRANULAR HEMATITE, FRACTURED
R WITH GREY SULPHIDE RICH CLAY 70 DEGREES TO CORE AXIS.



R 17030 17043 FRACTURE CORE AT 30-35 DEGREES TO CORE AXIS, MASSIVE PYRITE
 R BANDS AT 30 DEGREES TO CORE AXIS WITH QTZ VEIN BOUND BY PYRITE.
 R QTZ-BLUE-GREY TO WHITE, PATCHY IN APPEARANCE (STRAINED)
 R 17090 17115 PYRITE AND QTZ AND MINOR CARBONATE, VEIN TOP CONTACT AT 40
 R DEGREES TO CORE AXIS, LOWER CONTACT AT 90 DEGREES TO CORE AXIS
 R (-8.5 CM TRUE WIDTH PYRITE TO 50 TO 60%)
 R 17115 17185 NUMBER OF NARROWER BANDS OF PYRITE, MASSIVE +/- QTZ AND
 R CARBONATE. VERY WEAKLY ALTERED TO MODERATELY SILICEOUS CORE.
 R 17200 17230 SILICIFIED CORE, FRACTURED WITH WHITE QTZ-CARB INFILLING,
 R PARALLEL TO CORE AXIS AND AT 65-75 DEGREES TO CAORE AXIS. PINK
 R COLOURED UNKNOWN AT 172.23 IN FRACTURE FILL.
 D 16900 17200 98 X 141
 L 47R3 1707 112
 R 17293 17295 BLUE-GREEN CLAY PATCH.
 R 17300 17345 INCREASE IN DISSEMINATED PY 20% CORE IS WEAKLY SILICIFIED,
 R VUGGY, PITTED DISSOLVED QTZ-CARB FRACTURE FILL.
 R 17345 17460 VUGGY, OPEN SPACE DISSOLUTION CONTINUES. STRONG FROM 173.90 TO
 R 174.35
 R 17460 17515 HIGH PYRITE 10-15% DISSEMINATED.
 D 17200 17500 100 X 121
 L 52R4 1757 122
 R 17515 17630 DECREASE IN PYRITE, TO 3-5%
 R 17607 17609 FINE QTZ-CARB VEIN, FRACTURED AT 65 DEGREES TO CORE AXIS,
 R STRONG PYRITE RICH GREY CLAY IN FRACTURE. SMEARED PY SSL AT 40
 R DEGREES TO PLANE.
 R 17680 17685 PYRITE VEIN AT 75 DEGREES TO CORE AXIS, TOP FRACTURE, SULPHIDE
 R CLAY, LOWER CONTACT AT 65 DEGREES TO CORE AXIS, BOUND BY YELLOW
 R WHITE QTZ-CARB VEIN.
 R 17778 17783 PYRITIC AND SILICEOUS CORE, BOUND BY PYRITE AND BLUE GREEN CLAY
 R -60 DEGREES TO CORE AXIS. SOFT GREASY.
 R 17827 17833 CARBONATE +/- QTZ VEIN AT 70-65 DEGREES TO CORE AXIS, CREAM
 R WHITE WITH UNKNOWN PINK-ROSE COLOURED MINERAL -5%. BLEBS OF TT
 R 17833 17873 ALTERNATING QTZ VEINS (BLUE-GREY +/- CARB) SLIGHTLY BOUNDAGED
 R 60-70 DEGREES TO CORE AXIS, 1.0-1.5 CM WIDE WITH INCREASE OF
 R PYRITE TO 178.52 TO 178.73, MASSIVE PYRITE AND QTZ VEIN, BANDED
 R AS ABOVE. LOWER CONTACT AT 40 DEGREES WITH GREY CLAY +/- CARB
 R +/- TT
 D 17500 17800 97 X 013
 L 76R3 1768 111
 R 17995 18010 PYRITE- QTZ-CARB VEIN, 4 CM OF PYRITE EITHER SIDE OF 6.0 CM OF
 R QTZ-CARB VEIN, FINELY FRACTURED AND CC CONTRACTS TO 60 DEGREES
 R TO CORE AXIS. MINOR UNKNOWN PINK ROSE MINERAL? CARB? <1%
 R 18040 18425 RETURN TO HOMOGENEOUS CORE, UNIFORM, GRADATIONAL INCREASE IN
 R YELLOW CLAY 3-10%, CORE FRACTURED HAS QTZ-CARB+PY FRACTURE
 R INFILLING CUT BY LATER FINE PYRITE +/- QTZ-SERICITE ENVELOPES AS

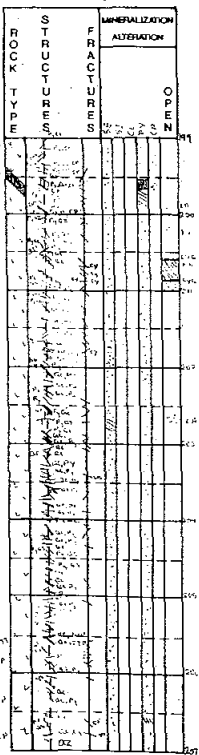
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A001	148.00	151.00	58283	.001	.020
A001	151.00	154.00	58284	.002	.010
A001	154.00	157.00	58285	.001	.010
A001	157.00	160.00	58286	.017	.040
A001	160.00	163.00	58287	.157	.110
A001	163.00	166.00	58288	.053	.140
A001	166.00	169.00	58289	.158	.200
A001	169.00	172.00	58290	.208	.260
A001	172.00	175.00	58291	.171	.190
A001	175.00	178.00	58292	.127	.150

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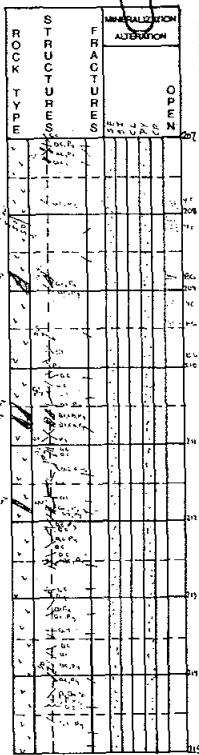


R MICROVEIN STOCKWORK. PY <5%. BLUE GREEN CLAY AT 180.40 TO 180.50
R PATCHES.
D 17800 18100 99 X 011
L 73R3 1798 111
R 18160 18260 PATCHY YELLOW CLAY (MUSTARD YELLOW) MARGINED BY QTZ-CARB-PYRITE
R VEINS, PYRITE WITH QTZ SERICITE ENVELOPES, GIVES PATCHWORK
R APPEARANCE.
R 18330 18480 WEAK MODERATE YELLOW CLAY (20-25%), PATCHY APPEARANCE DEFINED BY
R PYRITE-QTZ-SERICITE AND QTZ-CARBONATE-PYRITE VEINS STOCKWORK.
R UNABLE TO DETERMINE TIME RELATIONSHIP BETWEEN VEINS. SEE PYRITE
R QTZ-SERICITE CUT QTZ-CARB-PYRITE AND VICE VERSA. PY-QTZ-SERICITE
R MOST ABUNDANT. POSSIBLY 2 AGES OF PY-QTZ-SE VEIN, EVIDENCE OF
R OFFSETTING WHERE THEY CROSSCUT EACH OTHER. ENVELOPES VARY- 1-2 MM
R TO 0.5 TO 1 CM.
D 18100 18515 100 X 433
L 92R3 1829 014
N 18478 18505 UFXLATT Q) < *D*
L
R FINE GRAINED, PALE GREEN, HOMOGENEOUS, LATITE DYKE. SHARP
R CONTACTS AT 50 DEGREES TO CORE AXIS. MINOR TENSION FRACTURES
R NEAR CONTACTS. UPPER CONTACT HAS FINE, MOSS GREEN CLAY (EPIDOTE)
R AND LOWER FRACTURE AT 40 DEGREES HAS SSL AT 2 DEGREES TO PLANE.
P 18515 20560 FG TUFF P= Q+ D= V*B= QCCC
L E) V) <=C)
R FINE GRAINED TO VERY FINE GRAINED, WEAKLY TO NON FOLIATED,
R COMPETENT, MEDIUM TO LIGHT GREY, LOCALLY GREEN GREY. ROCK
R GENERALLY FRESH, SECTIONS VARY FROM CHLORITIC TO SERICITE +/-
R CLAY ALTERATION. QTZ-CARB +/- PYRITE FRACTURE FILLING AND MICRO-
R VEINING, VARIES FROM WHITE TO YELLOW (YELLOW CLAY IN QTZ?)
R PYRITE BLEBS ALIGNED PARALLEL FOLIATION, ASSOCIATED WITH QTZ-
R CARB AND FINELY DISSEMINATED (ORIGINAL?). CPY ASSOCIATED WITH
R PYRITE QTZ-CARB VEINS AND CHALCOHITE.
R 18515 18620 VERY WEAK CHLORITIC ALTERATION, CORE LIGHT GREEN GREY, TOP
R CONTACT AT 60 DEGREES TO CORE AXIS, LOWER CONTACT AT 50 DEGREES
R TO CORE AXIS.
R 18637 18647 PYRITE-QTZ-CARB VEIN AND CP + CC.
D 18515 18700 97 9 122
L 71R3 1859 013
D 18700 19000 96 X 012
L 51R4 1890 012
R 19000 19200 WHITE QTZ-CARBONATE VEINING/FRACTURE FILL, COMMON 4-10 CM
R SPACING, GENERALLY 65-75 DEGREES TO CORE AXIS. PYRITE 2-3%
R 19100 19200 PYRITE 2-10% IN QTZ-CARBONATE VEINS.
D 19200 19300 100 X 133
L 85R3 1920 123

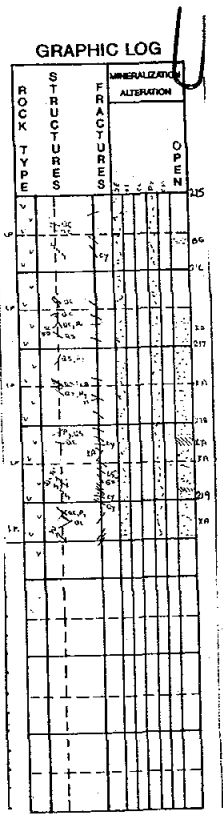
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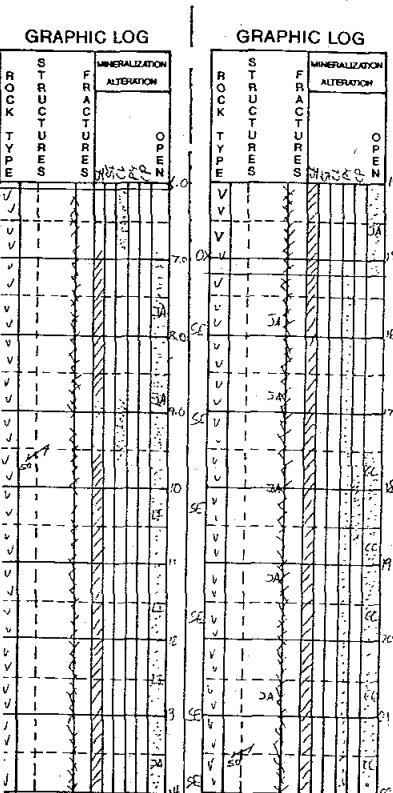
Rock Type	Structure	Fractures	Mineralization Alteration	Description	Code	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6
				55R4 2012 122	L						
				20265 20275 FRACTURED, BROKEN CORE, SERICITIC AND KA.	R						
				20280 20290 QTZ-CARB KNOTS WITH PYRITE RIMMING IN A BAND 50 DEGREES TO CORE AXIS.	R						
				20320 20420 QTZ CARB FRACTURE FILLING +/- <1% PY, WHITE ON WEATHERED SURFACE - UP TO 10 VEINS/10 CM, GENERALLY 70-90 DEGREES TO CORE AXIS.	R	A001	178.00	181.00	58293	.108	0.1060 .270
				20385 20395 FINELY FRACTURED ZONE, 30 DEGREES TO CORE AXIS, OFFSETTING VEINS AT 65-70 DEGREES TO CORE AXIS, QTZ CARB INFILLING.	R	A001	181.00	184.00	58294	.222	.250
				20420 20560 FRACTURE FILLING IS YELLOW ON COLOUR.	R	A001	184.00	187.00	58295	.094	.210
				20200 20560 93 X 124	D	A001	187.00	190.00	58296	.059	1.140
				62R4 2042 123	L	A001	190.00	193.00	58297	.040	.210
				20553 20558 QTZ CARB AND ORANGE/FLESH UNKNOWN ? AT 65 DEGREES TO CORE AXIS, SECOND VEIN AT 50 DEGREES TO CORE AXIS, QC AND TT FRACTURE INFILLING VEIN, PYRITE AT MARGINS.	R	A001	193.00	196.00	58298	.042	.220
				20560 21950 SE TFLP P2 B= QC Q= V) <=	P	A001	196.00	199.00	58299	.243	.210
				FINE TO MEDIUM GRAINED, GROUND MASS VARIES FROM UNIFORM TUFF TO CRYSTALS TUFF. WEAKLY FOLIATED, LOCALLY NON-FOLIATED, GRANULAR SECTIONS. PYRITE FINELY DISSEMINATED AND PARALLEL TO FOLIATION. 3-5% CLASTS ELONGATED PARALLEL FOLIATION, SUBROUNDED TO SUB-ANGULAR. CORE MEDIUM TO LIGHT GREY TO PALE GREEN WITH BLUE GREY TO LIGHT GREY CLASTS. TOP OF UNIT, SERIES OF HEALED FRACTURES, +/- ASH TUFF LENSES (205.20 - 205.80)	R	A001	199.00	202.00	58300	.664	.270
				20660 20678 FRACTURED ZONE HEALED WITHIN LAPILLI, PYRITE WITH WHITE QTZ CARB MARGINS.	R	A001	202.00	205.00	58301	.120	.190
				20735 20752 PATCHES OF BLUE-GREEN CLAY/MICA. EITHER SIDE OF VERY FINE GRAINED FRACTURED ZONE OF LAPILLI (ASH) FRAGMENTS?	R	A001	205.00	208.00	58302	.072	.220
				20560 20800 97 X 124	D	A001	208.00	211.00	58303	.076	.180
				90R3 2073 022	L	A001	211.00	214.00	58304	.040	.170
				20815 20830 SHEAR ZONE, HEALED BRECCIATION. 0.5 TO 1.0 CM ANGULAR FRAGMENTS, IN LIGHT, VERY FINE GRAINED WEAKLY CALCAREOUS MATRIX SUPPORTED.	R	A001	214.00	217.00	58305	.055	.160
				20860 20867 LARGE, FELSIC LAPILLI, SILICEOUS, LIGHT GREY, FINELY FRACTURED WITH PYRITE.	R	A001	217.00	219.50	58306	.051	.150
				20940 21068 SCATTERED PATCHES OF BLUE GREEN TO LIME GREEN CLAY? GENERALLY AT MARGINS OF LAPILLI.	R						
				21050 21300 PALE GREEN COLOUR TO CORE, CHLORITE WITH LAPILLI, FINE GRAINED SHEARED GROUND MASS AT -55 DEGREES TO CORE AXIS.	R						
				20800 21100 98 X 123	D						
				86R3 2103 003	L						
				21100 21400 100 X 122	D						
				84R3 2134 002	L						
				21570 21580 LOW ANGLE FRACTURE WITH GREY CLAY ON PLANE AT 30 DEGREES, MINOR QTZ-CARB + PY VEIN - GROUND SULPHIDES?	R						
				21660 21950 KAOLINITE WITHIN CORE, GRADUALLY INCREASE TO 5-10% AT DEPTH, CORE LIGHT GREEN GREY IN COLOUR, FRACTURED MORE PARALLEL	R						



R FOLIATION, INCREASE SF, PYRITE DECREASE, 2-3%. BLUE GREEN CLAY
 R AT 217.40.
 D 21400 21700 100 X 111
 L 82R3 2164 112
 R 21747 21755 QTZ-CARB VEIN +/- PYRITE (SMALL STRINGERS) FRACTURED AT 50
 R DEGREES TO CORE AXIS, QTZ-CARB INFILLING PARALLEL FOLIATION.
 R 21763 21764 FRACTURE AT 65 DEGREES TO CORE AXIS, SSL AT 25 DEGREES TO PLANE.
 R 21900 21950 DECREASE IN KAOLINITE TO 3-5%
 D 21700 21950 94 X 111
 L 54R2 2195 114
 R MARK 219.50 END OF HOLE.

The A005 assay sets are selected
 composites based on copper grades
 and geology

	From	To	Length	Cu %	Au g/t
A005	6.10	24.30	18.20	.284	.277
A005	24.30	42.30	18.00	1.076	.430
A005	42.30	51.80	9.50	.584	.395
A005	51.80	100.00	48.20	.211	.184
A005	100.00	112.00	12.00	.663	.362
A005	112.00	124.00	12.00	.291	.230
A005	124.00	166.00	42.00	.055	.076
A005	166.00	184.78	18.78	.163	.220
A005	184.78	196.00	11.22	.056	.461
A005	196.00	205.00	9.00	.342	.223
A005	205.00	219.50	14.50	.059	.177
/END					



IDEN680201 KERR XS-079BQWL23AUG90DJB JTTAUG90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 2500MT 100.50090.00-60.00 9894.00 9745.00 1658.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0

LSCL PC.0 LCTM
 S001 2500 7500 100.50075.00-60.00
 S002 7500 10050 100.50070.00-56.00
 A003

ALUMM MAG
 P 000 610 OVBD

R CASING AND OVERBURDEN
 P 610 1520 OXXTUFF

P4 P+ DJJALI
 P1 C)C+V+V)

	From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Ag ppm	Pb ppm	Zn ppm
--	------	----	--------	------	-------------	--------	--------	--------	--------

R OXIDIZED CORE CONSISTING OF WEAK TO VERY WEAK CLAY, CHLORITE AND SERICITE ALTERED SECTIONS. SERICITE RICH SECTIONS ARE WEATHERED TO CLAY AND SERICITE, LIMONITE OR JAROSITE STAINED. PYRITE WAS DISSEMINATED IN CORE- 5%, MODERATE FOLIATION, 40 DEGREES TO CORE AXIS. ALL QTZ VEINS ARE WEATHERED TO A BOXWORK OR VUGGY QTZ 3%. TRACE OF GREEN MICA IN SERICITE SCHIST.

A001	6.10	9.00	56671	.007	.390				
A001	9.00	12.20	56672	.020	.370				
A001	12.20	15.20	56673	.018	.300				
A001	15.20	18.30	56674	.452	.590				
A001	18.30	21.30	56675	.458	.470				

D 610 900 87 X

L 00R2 61 XXX

D 900 1220 80 X

L 10R2 91 XXX

R 900 940CHLORITE ALTERATION OF TUFF, CORE IS SOFT H=3, DARK GRAIN, JAROSITE STAINED WITH BOUDINAGED QTZ VEINS 5%

D 1220 1520 89 X

L 4R1 122 XXX

P 1520 4300 SEBTUFF P4 D)JA B.V) CC C) C) V) C)

R WEAK, FRACTURED, MOTTLED GREY AND WHITE, MODERATELY FOLIATED SERICITE ALTERED WITH MINOR CHLORITE ALTERATION IN SECTIONS. SERICITIC TUFF MAY ALSO IN PART BE A CRYSTAL AND LAPILLI TUFF QTZ VEINS CROSSCUTTING FOLIATION ARE BOUDINAGED WITH CARBONATE INFILLING, MOST OF THE CARBONATE HAS BEEN LEACHED. PYRITE VEINS ARE RELATIVELY UNALTERED EXCEPT 1% OF THEM HAVE CHALCOCITE COATINGS. AGGREGATES OF PYRITE AND CHALCOPYRITE IN MILKY WHITE QTZ VEINS HAVE 5% CHALCOCITE COATINGS. JAROSITE COATS FRACTURES FROM (15.2 M TO 25.5 M)

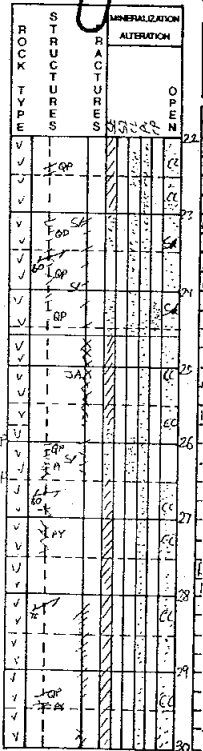
D 1520 1830 88 X

L 0R2 152 XXX

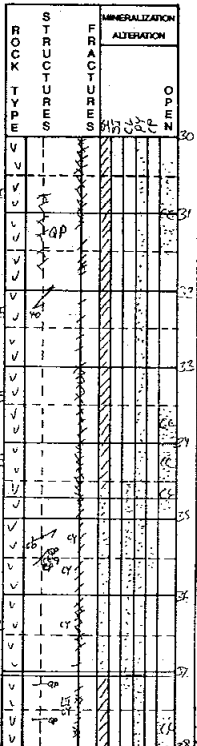
D 1830 2130 52 X

L 0R2 183 XXX

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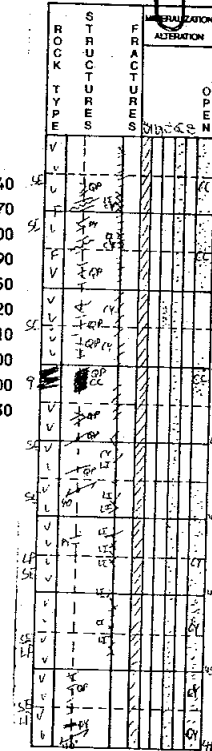


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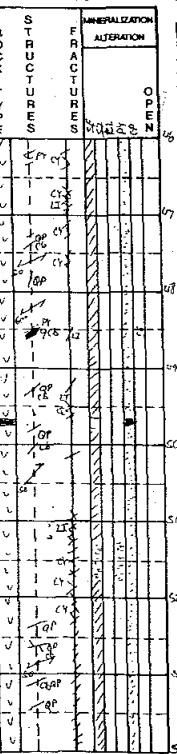
D	2130	2300	81	X					
L					OR2	213	XXX		
D	2300	2460	78	X			031	P1	SU
L					28R2	244	030		V1 C+
R					NATIVE SULPHUR CRYSTALS (3%) COAT FRACTURES IN CHLORITE ALTERED TUFF, CHALCOCITE COATS FRACTURES IN QTZ VEINS, CHALCOPYRITE BLEBS 1% AND PYRITE CUBES 0.5 MM.				
D	2460	2740	76	X			222		
L					24R2	274	222		
R					WHITE CLAY ON FRACTURE SURFACES.				
D	2740	3050	50	X			111		
L					14R2	305	333		
D	3050	3470	70	X			222		
L					16R2	335	888		
D	3470	3710	60	CLXTUFF			111	P= P1	B.
L					19R2	366	666		C) V1
R					CHLORITE ALTERED TUFF WITH 10% BOUDINAGED QTZ VEINS, WHITE CLAY COATS FRACTURE SURFACES WHICH PARALLEL FOLIATION. MODERATE FOLIATION AT 60 DEGREES TO THE CORE AXIS. CHALCOPYRITE BLEBS TRACE IN MILKY WHITE QTZ/CALCITE VEINS.				
D	3710	4000	58	SEXTUFF			111		
L					19R2	396	777		
R					LIMONITE AND CLAY COAT FRACTURES IN SMALL FAULT ZONES AT (38.8 TO 39.0 M) AND (39.2-39.4 M)				
R					CHALCOCITE COATS SULPHIDES IN BRECCIATED MILKY WHITE QTZ VEINS.				
D	4000	4300	93	X			222		
L					34R2	427	222		
R	4100	4160	BRECCIATED AND MILKY WHITE QTZ VEINS WITH VEIN/VEINLETS OF PYRITE AGGREGATES, CHALCOCITE FILLING FRACTURES AND COATING PYRITE AND POSSIBLE TETRAHEDRITE IN MILKY QTZ 1%. 10% SERICITE SCHIST INCLUSIONS.						
R	4250	4300	POSSIBLE LAPILLI TUFF, SERICITE AND CLAY ALTERED.						
P	4300	5810	SEXTUFF					P4	D+ V. CC
L									V+ CC
R					FRAGMENTS IN LAPILLI TUFF ARE ELONGATE, PARALLEL TO FOLIATION SERICITE ALTERED, AND COMPOSE 10% OF UNIT. TRACE BLACK ROUNDED FRAGMENTS 5MM IN DIAMETER, REMAINDER ARE FINE GRAINED, FELSIC IN COMPOSITION. ALTERATION - SERICITE WITH YELLOW BROWN CLAY 5%. CHALCOCITE 1% COATS PYRITE IN VEINS.				
D	4300	4600	83	X			222		
L					43R2	457	333		P1
D	4600	4900	98	SEXTFLP			121		
L					62R2	488	111		
R	4850	4860	QTZ VEIN WITH YELLOW DOLOMITE FILLED FRACTURES 10%, FINE GRAINED PYRITE (2.0 CM THICK) AT TOP, VEIN PARALLELS FOLIATION, TRACE CP						

GRAPHIC LOG

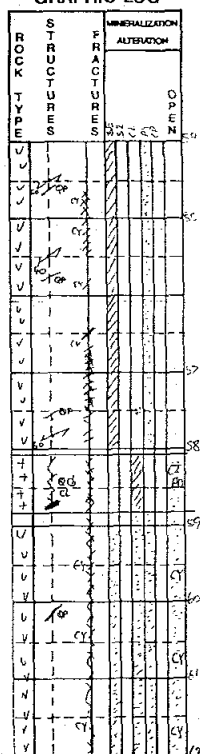


A001	21.30	23.00	56676	.648	.540
A001	23.00	24.60	56677	.900	.570
A001	24.60	27.40	56678	.680	.400
A001	27.40	30.50	56679	.516	.290
A001	30.50	34.70	56680	1.360	1.3500
A001	34.70	37.10	56681	1.020	.320
A001	37.10	40.00	56682	1.070	.310
A001	40.00	43.00	56683	.580	.300
A001	43.00	46.00	56684	.336	.200
A001	46.00	49.00	56685	.348	.230

GRAPHIC LOG



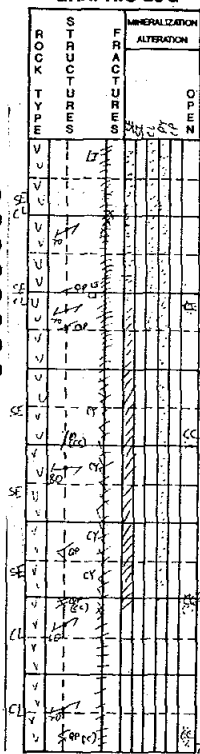
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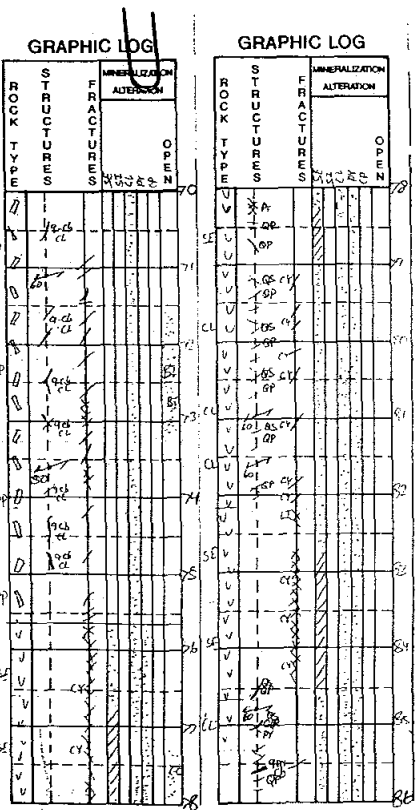


R AND PY BLEBS.
D 4900 5200 75SEXTFLP 111
L 32R2 518 333
R YELLOW DOLOMITE FILLS FRACTURES IN QTZ/PYRITE VEINS
R 4960 4970 MASSIVE FINE GRAINED PYRITE VEIN, TRACE CHALCOCITE ON FRACTURES
R VEIN PARALLELS FOLIATION AT 40 DEGREES TO CORE AXIS.
D 5200 5500 76SEXTFLP 121
L 18R2 549 242
D 5500 5810 76 X 111
L 29R2 579 333 C+
R CLAY ON FRACTURE SURFACES PARALLEL TO FOLIATION, CHLORITE
R SELVAGES AROUND BOUDINAGED QTZ/PY VEINS.
P 5810 5882 90CLXLATT 222 P4 POC1
L 51R3 444 V) V) B)C.
R DARK GREEN, FINE GRAINED, CHLORITE ALTERED ANDESITE DYKE WITH
R PYRRHOTITE FILLED WITH VESICLES, MODERATE FOLIATION 30 DEGREES
R TO CORE AXIS. BLEACHED EDGES, LIGHT GREEN, EXTENSION QTZ/
R CARBONATE/CHLORITE CROSSCUT UNIT AND EARLY CHLORITE/QTZ VEINS.
R CUPRITE COATS FRACTURES. MAGNETIC SUSCEPTIBILITY UP TO 800 X
R 10 (-5 POWER) SI.
P 5882 7000 CLXTUFF P1 P+ D+ CC
L C.
R MOTTLED MEDIUM GREEN AND WHITE, FINE GRAINED, WELL FOLIATED,
R CHLORITE AND CLAY ALTERED, SOFT H=3, TUFF, PYRITE IS
R DISSEMINATED 2-5%, IN QTZ/PYRITE VEINS 1%. CORE VARIES FROM
R BLOCKY TO POKER CHIPS PIECES, SERICITE ALTERATION INCREASES
R DOWN HOLE. TRACE CHALCOCITE ON FRACTURES WHICH HAVE PYRITE CUBES
D 5882 6200 62 X 111 P1
L OR2 610 777 P1
D 6200 6500 51 X 111 LI CI
L OR2 640 777 C)
R RECOVERED CORE CONSISTS OF POKER CHIP PIECES, LIMONITE AND CLAY
R COATS MOST FRACTURE SURFACES. SERICITE ALTERATION INCREASES
R BELOW 64.2 M
D 6500 6810 74SEX 111 P4 CC
L OR2 671 777 C.
R TRACE CHALCOCITE COATING PYRITE ABUNDANT WHILE CLAY 5% ON
R FRACTURES. RECOVERED CORE CONSISTS OF POKER CHIP PIECES.
D 6810 7000 89CLX 111 CI
L 38R2 555 C.
R CHALCOCITE COATS PY 1% AT 68.1 M AND 69.7 M, FOLIATION IS
R CONTORTED IN BOTH AREAS. CUPRITE COATS (TRACE) ON LIMONITE
R STAINED FRACTURES.
P 7000 7560 CLXANPP P= P1 BI
L V) P= P1 V)

A001	49.00	52.00	56686	.920	.580
A001	52.00	55.00	56687	.488	.360
A001	55.00	58.10	56688	.472	.920
A001	58.10	58.82	56689	.138	.050
A001	58.82	62.00	56690	.488	.230
A001	62.00	64.50	56691	.488	.340
A001	64.50	68.10	56692	.512	.280
A001	68.10	70.00	56693	.956 0.9700	.340

GRAPHIC LOG





R PREMIER PHORPHYRY, MOTTLED GREEN AND PURPLE IN CENTER OF UNIT
 R AND WHITE AND GREEN ABOVE AND BELOW. FOLIATION DIRECTION IS
 R CONSTANT AT 60 DEGREES TO CORE AXIS. FELDSPAR PHENOCRYSTS HAVE
 R TWO SIZES:K-SPAR EUHEDRAL 5 TO 15 MM IN DIAMETER 1% PLAGIOCLASE
 R - WHITE- 2-5 MM, 30% HORNBLENDE-0.5 -2 MM 10%. CENTER OF
 R INTERVAL HAS A PURPLE GROUNDMASS WHICH IS PROBABLY DUE TO
 R SECONDARY BIOTITE FROM POTASH ALTERATION OR HORNFELSING.
 R PLAGIOCLASE IN THIS ZONE ARE CHLORITIZED. UNIT IS CROSSCUT BY
 R QTZ-CALCITE (YELLOW)-CHLORITE EXTENSION VEINS WITH CHLORITE
 R SELVAGES.

D	7000	7300	76 X	111
L			58R3 701	121
D	7300	7560	85 X	111
L			46R3 7312	211
P	7560	10050	SEXTUFF	

P1 P= D+ <)
 V+ V+

A001	70.00	73.00	56694	.018	.005
A001	73.00	75.60	56695	.020	.005
A001	75.60	79.00	56696	.352	.240
A001	79.00	82.20	56697	.243	.270
A001	82.20	84.60	56698	.496	.160
A001	84.60	87.40	56699	.240	.210
A001	87.40	91.00	56700	.211	.160
A001	91.00	94.00	56701	.308	.210
A001	94.00	97.50	56702	.276	.150
A001	97.50	100.50	56703	.225	.130

R FINE GRAINED, MOTTLED GREEN AND WHITE IN CHLORITE ZONE AND GREY
 R AND WHITE IN SERICITE ZONE- BELOW 87.5 M. MODERATELY FOLIATED
 R 60 DEGREES TO CORE AXIS. PYRITE VEINS (1%) IN CHLORITE ALTERED
 R TUFF HAVE QS ENVELOPES. EARLY QP VEINS DO NOT HAVE ENVELOPES,
 R BUT HAVE DOLOMITE INFILLING OF FRACTURE IN THEM. LATE CALCITE
 R QTZ-CHLORITE VEINS HAVE CHLORITE SELVAGES IN BOTH ALTERATION
 R ZONES. VERY MINOR IN SERICITE. PYRITE IS DISSEMINATED THROUGHOUT
 R THE UNIT AS CUBES 0.1 - 0.5 MM- 2.5% IN CL AND 5% IN SE. THE
 R NUMBER OF PYRITE MICROVEINS INCREASE WITH ALTERATION FROM 1%
 R TWO 2%

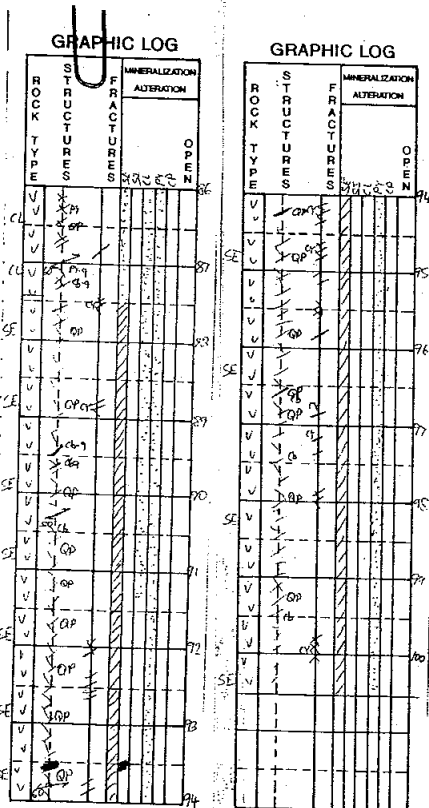
D	7560	7900	100SEX	222	P3 P1
L			26R2 762	777	
D	7900	8220	94CLX	222	
L			81R3 792	111	E)
R			QTZ-SERICITE ENVELOPES AROUND QTZ-PYRITE VEINS		
D	8220	8460	70SEX	111	P2
L			25R2 853	444	E)
D	8460	8740	94CLXTUFF	222	
L			82R3 853	010	E)
D	8740	9100	97SEXTUFF	222	
L			75R3 884	011	
D	9100	9400	97 X	222	
L			93R3 914	111	

R 9360 9370SILICIFIED ZONE WITH DISSEMINATED PYRITE 1% AND CALCITE FILLED
 R FRACTURES 1%
 D 9400 9750 97 X 333
 L 75R3 945 222
 R 9730 9750LAPILLI TUFF FRAGMENT 1 X 2 CM PARALLEL TO FOLIATION
 D 9750 10050 97 X 333

L 85R3 975 222
 R 9950 10050 FLATTEN LAPILLI FRAGMENTS- SAME COMPOSITION AS MATRIX
 R END OF HOLE AT 100.50 M

The A005 assay sets are selected
 composites based on copper grades
 and geology

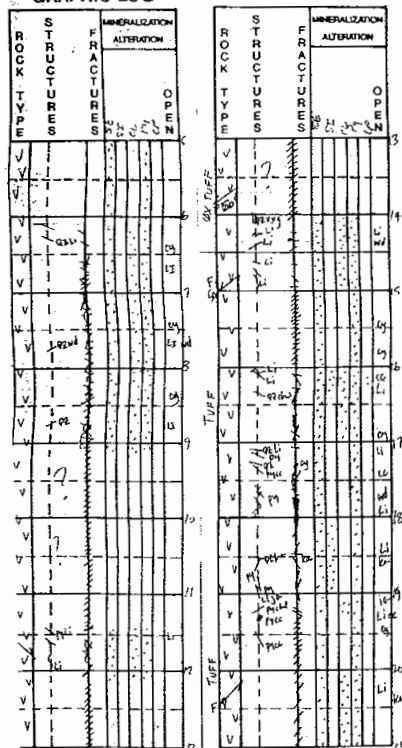
	From	To	Length	Cu %	Au g/t
A005	6.10	15.20	9.10	.015	.353
A005	15.20	30.50	15.30	.576	.463
A005	30.50	40.00	9.50	1.186	.374
A005	40.00	70.00	30.00	.534	.371
A005	70.00	75.60	5.60	.019	.005
A005	75.60	84.60	9.00	.352	.229
A005	84.60	100.50	15.90	.251	.170
/END					



IDEN680201 KERR KS-080BQWL21AUG90KME JTTAUG90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
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 LNAM QSCBFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM
 S001 5000 10060 100.60087.00-59.00
 A003

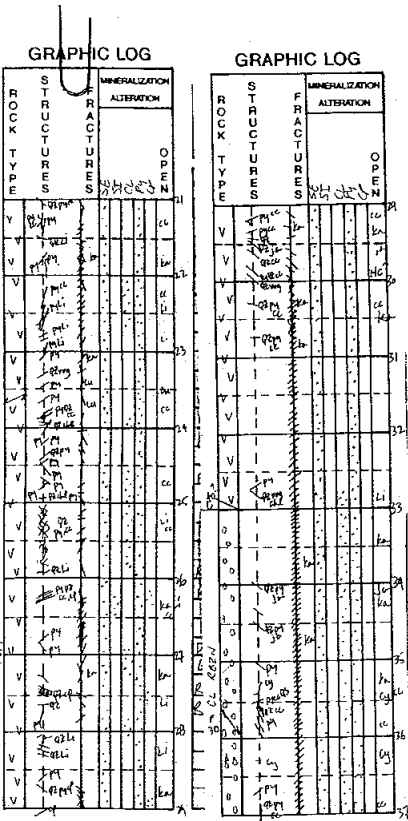
GRAPHIC LOG

GRAPHIC LOG



AUMM MAG
 P 000 300 OVBD
 L
 R 300 610PUT CASING IN TO 6.10, FRACTURE AND UNCONSOLIDATED CORE.
 P 300 1450 OXXTUFF P1 P1 LIWD
 L P3 C1C=<)V+
 R GREY YELLOW GREEN, WELL FOLIATED, VUGGY, OXIDIZED, FRACTURED,
 R BRECCIATED. SAME AS UNIT BELOW BUT HEAVILY CY ALTERED, EASILY
 R SCRATCHED WITH QTZ VEINS AND SULPHIDES INTENSELY LEACHED GIVING
 R VUGGY, RUSTY APPEARANCE. SOME PATCHY CHLORITE ALTERATION,
 R MAINLY SERICITIC AND CLAY (GRUNGY CY, NOT KA) FRACTURED MAINLY
 R ALONG FOLIATION PLANES, SOME ON XCUTTING VEINS OR BREAKS.
 D 300 910 20 X 010
 L 0R2 91 XXX
 D 910 1450 31 X
 L 15R2 122 XXX
 R 1220 1400ABUNDANT MISSING CORE, ONLY 50 CM
 R 910 1140ABUNDANT MCCR, 10 CM
 P 1450 3300 XTUFF P1Q)Q= D=L1KA<.) CC
 L C- C*C* V) C)
 R LIGHT GREY TO MEDIUM GREEN, TUFF UNIT COMPOSITION VARIES WITHIN
 R P.G.I. GENERALLY LIGHT GREY, MODERATE-STRONG FOLIATION WITH <
 R 5% FRAGMENTS ELONGATE PARALLEL FOLIATION. ALTERATION OF
 R FRAGMENTS INCLUDES PY, CHL, PERVASIVE SE ALTERATION, PATCHY
 R CHL ALTERATION: CHANGES WITH TUFF COMPOSITION. CHLORITE RICH
 R ROCKS CONTAIN MORE FRAGMENTS, HIGHER MAFIC COMPONENT, SOME CP.
 R PY DISSEMINATED ALONG FOLIATION AND AS AN-SUBHEDRAL PY+/-QTZ
 R MICROVEINS (1%). SOME LARGER QTZ-PY VEINS POSSIBLY WITH CP.
 R LITTLE OXIDATION, FRACTURES OFTEN XCUT FOLIATION, QS ENVELOPES
 R VISIBLE AROUND PY MICROVEINS IN CHLORITE RICH AREAS. PATCHY
 R SILICIFICATION, GENERALLY ASSOCIATED WITH QTZ VEINING.
 D 1450 1750 70 X 111
 L 10R3 152 311
 R 1600 1630SILICIFIED, PY, CC, CHLORITE, LI. FOLLOWED BY CHLORITE RICH
 R ZONE, MINOR CP BLEB.
 R 1730 1800LOSS OF CHL, ABUNDANT PY IRREGULAR MICROVEINS AND BLEBS,

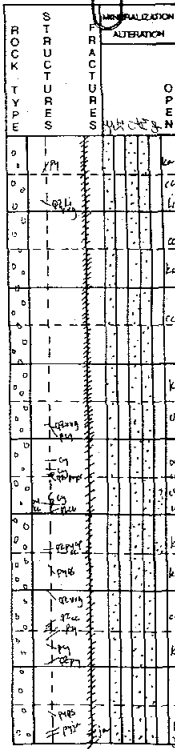
	From	To	Sample	Cu % (dupl)	Au g/t (dupl)	Ag ppm	Pb ppm	Zn ppm
R	A001	6.10	9.10	57273	.007			.110
R	A001	9.10	14.00	57274	.027			.320
R	A001	14.00	17.00	57275	.196	0.1920		.110
R	A001	17.00	20.00	57276	.294			.130



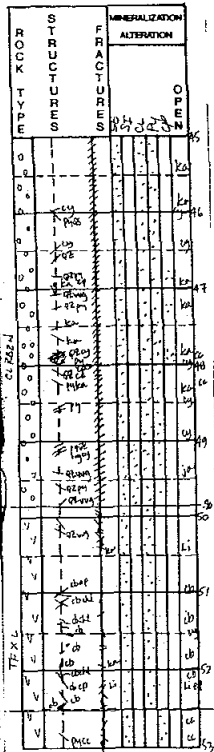
R
D 1750 2100 74 X 110 KA
L R3 183 231 C)
R 2000 2100CHLORITIZED WITH MAFIC FRAGMENTS, KAOLINITE ON FRACTURE PLANES.
D 2100 2400 90 X 221
L 23R3 214 231
R 2300 2400FEW FRAGMENTS, SERICITIC, PY ALONG FOLIATION PLANES, DENDRITIC
R CU ON FRACTURE SURFACES, LITTLE LI CC ASSOCIATED WITH PY.
D 2400 2700 83 X 130
L 17R3 244 221
R 2400 2450SIMILAR TO (23.0-24.0) AT 24.50, CONTACT WITH FRAGMENT RICH
R CHLORITIZED TUFF.
R 2500 2580CHLORITE RICH WITH VUGGY PTYGMATIC QTZ VEINS WITH LI, PY, CC
R POSSIBLE CP.
R 2620 2630IRREGULAR QTZ VEIN WITH PY, CP, PASTEL TARNISHING, CC. KAOLINITE
R VERTICAL, BLOCKY FRACTURING TO 27 DEGREES, WITH KA COATINGS.
R CHLORITIZED AT END.
D 2700 3000 93 X 022
L 3R3 274 231
R 2740 2840HIGHLY FOLIATED ZONE, PY MICROVEINS, BLEACHED, WHITE QTZ VEIN
R PERPENDICULAR TO CORE AXIS WITH CP BLEB FRACTURED BOTH WITH
R FOLIATION AND AGAINST FOLIATION DISTURBED.
R 2980 2981POSSIBLE LIGHT BLUE-GREEN MALACHITE COATING ON FRACTURE SURFACE
R WITH KA.
D 3000 3300 47 X 021
L OR3 305 XXX
R INTERVAL FRACTURED, SERICITE INCREASING TOWARDS RBZN BELOW.
R ABUNDANT PY WITH CC COATINGS, WELL FOLIATED; LIGHT GREY.
R 3100 3300VERY LITTLE CORE, <1 CM.
P 3300 4980 CLXRBZN P1 P2 D=JA <+ CC
L E) P1 C- <) C+
R DARK MEDIUM GREEN, BLOCKY-FLAKY, HEAVILY KAOLINIZED ON FRACTURE
R SURFACES. FRACTURES GENERALLY PARALLEL FOLIATION. FEW FRAGMENTS
R UNIFORM. PY MICROVEINS +/- QS ENVELOPES @ ALL DIRECTIONS COMMON
R VUGGY, BRECCIATED QTZ VEINS PATCHY, HIGHER IN INTERVAL. CC AS
R COATINGS ON PY (DISSEMINATED AND VEINED) LITTLE CP OBSERVED,
R CLAY IS PERSVASIVE, ALSO SEEN IN ALTERED VEINS. VUGGY QTZ VEINS
R WITH JA.
D 3300 3600 80 X 120
L OR2 335 XXX
D 3600 3900 60 X 111
L OR2 366 XXX
R 3600 3800MOTTLED, PATCHY APPEARANCE.
R 3960 4000FLAKY, TRUE? RUBBLE ZONE. POOR RECOVERY. CC DISSEMINATED
R THROUGHOUT D INTERVAL.

A001	20.00	23.00	57277	.370	.080
A001	23.00	26.00	57278	.432	.160
A001	26.00	29.00	57279	.560	.240
A001	29.00	33.00	57280	.516	.220
A001	33.00	36.00	57281	.512	.260
A001	36.00	40.00	57282	.512	.410

GRAPHIC LOG



GRAPHIC LOG



D 3900 4200 40 X
 L OR2 396 XXX
 D 4200 4500 50 X 121
 L OR2 427 XXX
 R 4240 4245CP ASSOCIATED WITH QTZ VEINS WITH CC. SOME CHL MICROVEINS.
 R 4350 4355TYPICAL QTZ VEIN/MICROVEIN WITH VUGGY QTZ, CENTRAL SUBHEDRAL
 R PY. FOLLOWS FOLIATION.
 D 4500 4980 72 X 221
 L OR2 457 XXX
 R 4500 4600RUBBLE ZONE, GRAVELLY TO FLAKY, POOR RECOVERY. CC DISSEMINATED
 R THROUGHOUT.
 R 4620 4625DARK GREEN CHLORITE ON FOLIATION PLANES.
 R 4675 4676TYPICAL QTZ VEIN WITH CENTRAL SULFIDES, POSSIBLY SOME CP.
 R 4870 4920RUBBLE, KAOLINITE RICH, BLUE-GREEN TINGE TO EVERYTHING, LESS
 R CHLORITE.
 P 4980 5690 SE TFLP P2 Q) J=LIKA <+ CC
 L E+ P+ <+C*<) C) A001 40.00 43.00 57283 .556 .190
 R LIGHT GREY, MODERATELY FOLIATED, FELSIC FRAGMENTS AND MATRIX, A001 43.00 46.00 57284 .412 .160
 R COMPETENT, SLIGHT SERICITIZATION AND MATRIX, COMPETENT, SLIGHT A001 46.00 49.80 57285 .460 .160
 R SERICITIZATION AND QS ENVELOPE. MINOR PY DISSEMINATED, MAINLY A001 49.80 53.00 57286 .163 .070
 R ELONGATE BLEBS PARALLEL FOLIATION, INTERSTITIAL WITH FRAGMENTS. A001 53.00 56.00 57287 .201 .180
 R CC COATINGS ASSOCIATED WITH PY. LI/JA COATINGS ALSO WITH PY. A001 56.00 59.00 57288 .322 .240
 R SOME POSSIBLY DISSEMINATED CC. SIMILAR TO SETFXL IN 89-19. MINOR
 R PERVASIVE YELLOW CY ALTERATION.
 N 4980 5255 73 XTFXL 120 P+ P2<*D*LIKA CL
 L 27R4 518 121 <+ C+C) S.
 R MEDIUM GREEN, FINE GRAINED, LIGHT GREY PHENOCRYSTS ELONGATE
 R PARALLEL FOLIATION, UNIFORM. GREEN TUFF WITH ALTERED PF
 R PHENOCRYSTS. CONTACT WITH LOWER UNIT GRADUAL AT 50 DEGREES,
 R WELL FOLIATED, MINOR WHITE CB VEINS WITH CHL SELVAGES, SOME
 R OLIVE GREEN EP. FEW SULFIDES ANYWHERE. MINOR BLEACHING AT TOP
 R AND ADJACENT TO FRACTURES.
 D 5255 5600 97 X 120
 L 58R4 548 220
 R 5500 5550ABUNDANT CC DISSEMINATED AND AS SUBHEDRAL CRYSTALS ON FRACTURE
 R PLANES WITH KAOLINITE +/- LI.
 D 5600 5690 83 X 031
 L 30R4 030
 R 5650 5690ABUNDANT CC, FOLIATED, FRACTURED.
 P 5690 7130 CYXTFLP P1 D+LI <= CC
 L E=B) P2 C. <) C+
 R YELLOW GREY, FOLIATED AT 45-50 DEGREES, FRAGMENTS DIFFICULT TO
 R SEE DUE TO ALTERATION, WELL DEFINED QS ENVELOPES ASSOCIATED WITH
 R PY MICROVEINS. PY GENERALLY PARALLEL FOLIATION, SOME XCUTTING
 R PATCHY RELATIONSHIPS, CB BLEBS ASSOCIATED WITH PY MICROVEINS.

Sample ID	Length	Width	Area	Weight	Volume
A001	40.00	43.00	57283	.556	.190
A001	43.00	46.00	57284	.412	.160
A001	46.00	49.80	57285	.460	.160
A001	49.80	53.00	57286	.163	.070
A001	53.00	56.00	57287	.201	.180
A001	56.00	59.00	57288	.322	.240

GRAPHIC LOG

CORRECTION	STRUCTURE	FRACTURES	MINERALIZATION ALTERATION		OPEN
			MINERALIZATION	ALTERATION	
77					
78					
79					
80					
81					
82					
83					
84					
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					

GRAPHIC LOG

CORRECTION	STRUCTURE	FRACTURES	MINERALIZATION ALTERATION		OPEN
			MINERALIZATION	ALTERATION	
77					
78					
79					
80					
81					
82					
83					
84					
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					

R FOLIATION, DIFFICULT TO SEE, MOLY SMEARED ALONG FOLIATION PLANES,
R BLUISH TINT.
R 7502 7507CB-QTZ-CHL VEIN, MINOR SUBHEDRAL PY ASSOCIATED IN HOST ROCK.
P 7525 8000 APXTUFF P2 CLQC
L S=<1<-

R SIMILAR TO PREVIOUS APTUFF, MEDIUM GREEN, STRIPED DUE TO MINOR
R BLEACHING ALONG 60 DEGREES FRACTURE PATTERN. XCUT BY ANGULAR CB
R AND Q-CB VEINS WITH CHL SELVAGES. LI AND CY ON FRACTURE SURFACES
R UPPER CONTACT IS QTZ VEIN, BOTTOM CONTACT SHARP, LITTLE
R MINERALIZATION.

A003 7525 8000 20
D 7525 7800 84 X 231
L 25R4 762 221
D 7800 8000 48 X 130
L 29R4 792 230
P 8000 10060 SEXTFXL P1 D1LIFU <) CCMO
C)B* <) C*B-

R SIMILAR TO (71.3-75.3): LIGHT GREY, UNIFORM, WEAK-MODERATE
R FOLIATION, MINOR FRAGMENTS, VERY COMPETENT, NOT EASILY SCRATCHED
R PY MAINLY DISSEMINATED SUBHEDRAL 10%, SOME SECTIONS WITH PY
R SUBHEDRAL MICROVEINS WITH ASSOCIATED CB,QTZ. POSSIBLY KF
R ALTERATION? PERVASIVE? SOME SECTIONS HAVE CREAMY WHITE MATRIX
R WITH IRREGULAR CREAMY VEINS +/- QTZ,PY OFTEN WITH DISSEMINATED
R BLACK SPECKS POSSIBLY CC OR MO. MAY MISTAKE CREAMY KF? FOR CB
R HARD, DOES NOT FIZZ. MINOR FU ASSOCIATED WITH PY IN SOME QTZ
R RICH AREAS.

D 8000 8300 100 X 121
L 40R4 823 220
D 8300 8600 97 X 231
L 59R4 853 221
D 8600 8900 87 X 122
L 69R4 884 200
R 8600 8900 MAINLY DISSEMINATED MO, VAGUE QC VEINS +/-PY. POSSIBLY KF
R PERVASIVE ALTERATION? PY SUB-EUHEDRAL, GOOD STRIATIONS.
D 8900 9200 98 X 131
L 77R4 914 211

R 8950 9030 MINOR FRAGMENTS PY DISSEMINATED AND INTERSTITIAL, SOME FU.
R POSSIBLY SILICIFIED.
R 9090 9400 POSSIBLY KF ALTERATION, PERVASIVE AND IN VEINS, SOME FU. VERY
R COMPETENT. PY MAINLY DISSEMINATED, WEAK FOLIATION, BLACK CC
R OR MO FLECKS THROUGHOUT.

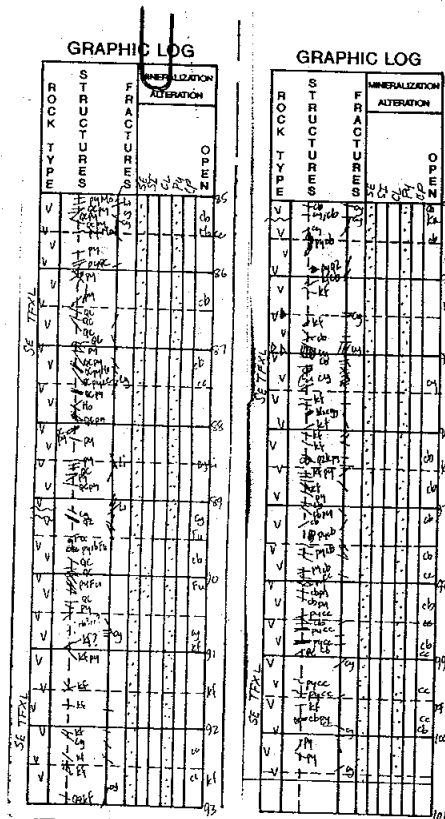
D 9200 9500 95 X 221
L 62R4 945 122
D 9500 9800 100 X 032
L 31R4 975 121

A001	59.00	62.00	57289	.189	.100
A001	62.00	65.00	57290	.080	.100
A001	65.00	68.00	57291	.151	.330
A001	68.00	71.30	57292	.150	.110
A001	71.30	75.30	57293	.141	.140
A001	75.30	78.00	57294	.013	.020
A001	78.00	80.00	57295	.105	.020
A001	80.00	83.00	57296	.137	.110
A001	83.00	86.00	57297	.012	.030
A001	86.00	89.00	57298	.081	.110
A001	89.00	92.00	57299	.064	.110
A001	92.00	95.00	57300	.015 0.0160	.020
A001	95.00	98.00	57301	.045	.080
A001	98.00	100.60	57302	.060	.110

- R 9480 9550BRECCIATED, CY RICH ZONE, FOLIATION PERPENDICULAR TO CORE AXIS.
 R SOME KINKS IN IT.
 R 9710 9730ABUNDANT FRAGMENTS, PY, POSSIBLY KF, CB ASSOCIATED WITH PY.
 D 9800 10060 86 X
 L 32R4-1006
 R 9910 9911COMMON TO HAVE CY RICH SLIPPING ALONG FRACTURES AT 60 DEGREES.

The A005 assay sets are selected
 composites based on copper grades
 and geology

	From	To	Length	Cu %	Au g/t
A005	6.10	23.00	16.90	.162	.169
A005	23.00	33.00	10.00	.504	.208
A005	33.00	49.80	16.80	.490	.243
A005	49.80	80.00	30.20	.154	.135
A005	80.00	100.60	20.60	.059	.081
/END					

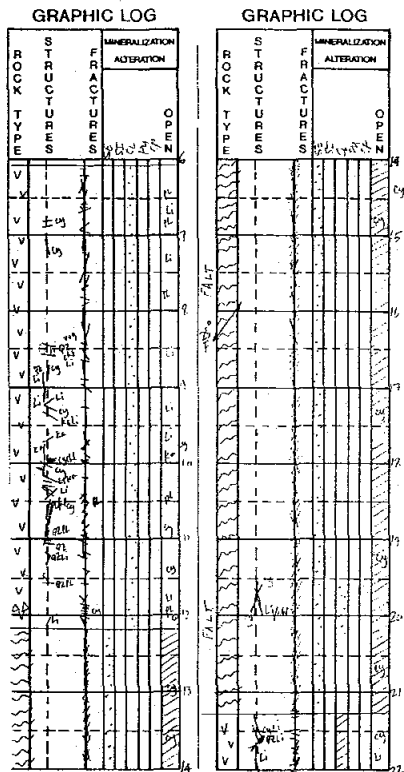


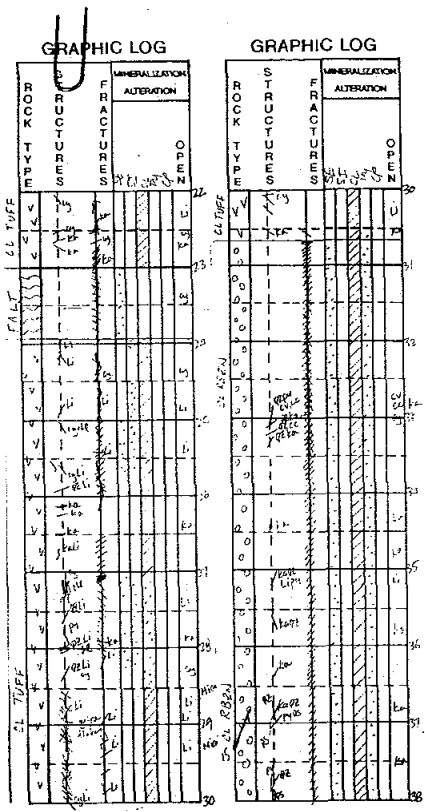
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 LNAM QSCBKFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM

S001 3000 10000 143.30270.00-75.00
 S002 10000 14330 143.30270.00-76.00
 A003
 ALUMM MAG

P 000 610 OVBD P2 LIWD KA
 L G) C=C+V <>
 P 610 1220 OX TUFF
 L
 R MEDIUM GREEN, UNIFORM, SMALL PF PHENOCRYSTS 10-20%, NO FRAGMENTS
 R HEAVILY FRACTURED IN ALL DIRECTIONS, LI, PL COATINGS. CHLORITIZED
 R SOME KA AS FRACTURE FILL QTZ VEINS VERY VUGGY, LITTLE
 R MINERALIZATION. MUCH VEIN MATERIAL HAS BEEN ALTERED TO VARIOUS
 R CLAY. ORIGINAL VEINS POSSIBLY QTZ-CB-CHL.
 D 610 900 55 X
 L OR2 61 644
 D 900 1220 88 X 122
 L 32R2 91 XXX
 R 1060 1110 LARGE ALTERED VEIN/BRECCIA WITH YELLOW CY, CHL. ORIGIN POSSIBLE
 R QTZ-CB-CHL.
 P 1220 2130 FALT P2 P1 L1
 L G2 C)
 R LIGHT GREY YELLOW TO GREEN YELLOW, INTENSE CY ALTERATION BUT
 R FRAGMENTS FLAKY. FRACTURES ALONG FOLIATION? AT SMALL ANGLE TO
 R CORE AXIS, 25-30 DEGREES. SOME CROSSCUTTING FRACTURES ALSO EXIST
 R ORIGINAL ROCK PROBABLY TUFF (SIMILAR TO PGI ABOVE AND BELOW).
 R HEAVILY BLEACHED, FAULTED/BRECCIATED. GENERALLY QTZ RICH
 R FRAGMENTS LEFT, OTHERS ARE GONE, SPORADIC CHL ALTERATION STILL
 R RETAINED WITH VISIBLE LI STAINS IN COMPETENT SECTIONS.
 R WELL FOLIATED. CY PATCHY IN HEAVILY GOUGERD AREAS OTHERWISE
 R SERICITIC.
 D 1220 1520 33 X
 L OR1 122 XXX
 D 1520 1830 29 X
 L OR1 152 XXX
 D 1830 2130 27 X
 L OR1 183
 R SOME STRUCTURES VISIBLE: CHL ALTERATION, LI VEINS WITH CHL
 R ENVELOPES, CY IN POSSIBLE OLD CB VEINS ALL AT SMALL ANGLE TO

	From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Ag ppm	Pb ppm	Zn ppm
				(dupl)	(dupl)				
A001	6.10	9.10	57303	.023		.060			
A001	9.10	12.20	57304	.020		.070			
A001	12.20	15.20	57305	.005		.120			
A001	15.20	21.30	57306	.014		.120			





R CORE AXIS.
 P 2130 3070 CL TUFF Q+P3 LIKA
 L G* C+<)V-
 R DARK MEDIUM GREEN, UNIFORM TO PATCHY WITH BOTH MAFIC AND PF
 R SUBHEDRAL PHENOCRYSTS (10-15%), OVERALL CHLORITIZATION, MODERATE
 R FOLIATION AT 40 DEGREES, VARIABLE. PATCHY SILICIFIED AREAS SHOW
 R MODERATE FOLIATION, BUT MOTTLED APPEARANCE WITH CHLORITE
 R SHEARING AROUND QTZ RICH FRAGMENTS. FRACTURES FILLED WITH
 R KAOLINITE, CY, LI OXIDATION MATERIAL. COATS FRACTURES AS WELL
 R LITTLE MINERALIZATION / SULFIDES. PATCHY BLEACHING ALONG
 R FRACTURES AND MICROVEINS.

D 2130 2300 71 X 220
 L 19R3 213 232
 N 2300 2390 50 XFALT P2 LI
 L OR2 XXX G2 C*
 R SIMILAR TO FALT (12.2-21.3 M), BLEACHED FRACTURES AT 30 DEGREES
 R (FOLIATION) AND CROSSCUTTING AT 50 DEGREES.

A001	21.30	24.40	57307	.020	.050
A001	24.40	27.40	57308	.059	.090
A001	27.40	30.70	57309	.145	.080
A001	30.70	36.60	57310	.660	.310

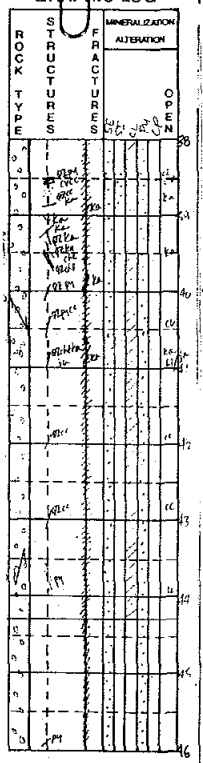
D 2390 2710 94 X 211
 L OR3 244 XXX
 R 2500 2600 SILICIFIED ZONE, BLEACHED, SERICITIZED.
 R 2600 2700 FLAKY FRACTURING, GENERALLY AT 45 DEGREES, CROSSCUTS VEINING.
 D 2710 2840 90 X 221 P1P1 J*
 L OR3 244 XXX
 R MODERATE ANGLE FRACTURES, SILICIFIED, CHL INTERSTITIAL BETWEEN
 R SILICIFIED FRAGMENTS OF ROCK. SLIGHTLY FRAGMENTAL AT BOTTOM
 R (LAPILLI). BOUNDED AT BOTTOM BY QTZ-CHL VUGGY VEIN.

A003 2710 2840 20
 D 2840 3070 87 X 010
 L 60R4 305 XXX
 R SLIGHTLY MORE COMPETENT, LESS CHLORITIC BOTH MAFIC AND PF
 R PHENOCRYSTS (<2MM) UPTO 60%, UNIFORM LOOKS LIKE CRYSTAL MUSH,
 R PROMINENT HEXAGONAL MICA FLAKES THROUGHOUT (5%), BREAKS ALONG
 R HAIRLINE FRACTURES WITH LI COATINGS.
 R 2840 2970 MICA FLAKES DOMINANT, MAY BE CHANGE IN ROCKTYPE.

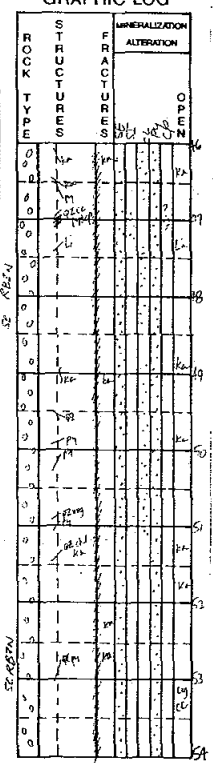
A003 2840 2970 50
 P 3070 4430 CL RBZN P1 P3 D-KALI <) CCCV
 L E) <+C.<)<* <-C-
 R DARK GREEN, PATCHY, FRAGILE, FRACTURES ALONG FOLIATION AT 10-30
 R DEGREES. UNIFORM CHLORITIZATION WITH VUGGY QTZ AND PY MICROVEINS
 R WITH QS ENVELOPES THROUGHOUT. SOME BRECCIATED QTZ WITH PY, CC
 R MINOR. MOST VEINS VUGGY WITH KA INFILL. PY RESTRICTED TO MICRO-
 R VEINS? MINOR, DIFFICULT TO SEE. SOME PY POSSIBLY SMEARED ON
 R FRACTURE PLANES? ANHEDRAL.

D 3070 3350 30 X
 L OR2 335 X63

GRAPHIC LOG



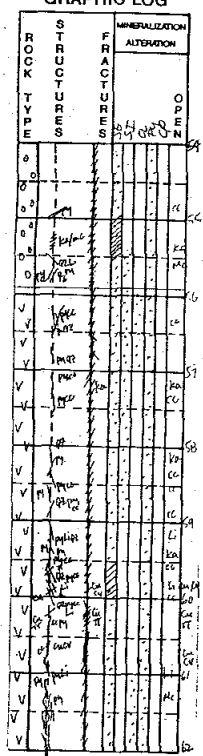
GRAPHIC LOG



R 3070 3300 MOST CORE LOST? VERY FLAKY.
D 3350 3660 70 X 200
L OR2 366 X63
D 3660 3960 80 X 210
L OR2 396 X63
R 3850 3860 BRECCIATED QTZ VEIN WITH CV, CC, PY
D 3960 4430 57 X
L OR2 427 XX3
P 4430 5590 SE RBZN P2 Q= D+KA <- CC
C) <+ <-> C-
R SIMILAR TO CHLORITE RUBBLE ZONE, PATCHY CHL ALTERATION, LIGHT
R GREY, WELL FOLIATED 20-30 DEGREES TO CORE AXIS. VUGGY QTZ VEINS
R VUGGY QTZ VEINS, SUBHEDRAL DISSEMINATED PY UP TO 2.5% FLAKY,
R ABUNDANT FRACTURES PARALLEL TO CORE AXIS, LITTLE OXIDATION.
D 4430 4870 66 X
L OR2 457 X73
R 4700 4710 SILICIFIED AREA, PY WITH CC COATINGS DISSEMINATED, POSSIBLY SOME
R CP BLEBS. BOUNDED IN CHLORITIZED SECTION.
D 4870 5180 57 X
L OR2 487 X73
D 5180 5590 61 X
L OR2 549 X74
R 5490 5570 INCREASED SERICITE, INTENSE KA ON FRACTURES, LIGHT BLUE GREEN
R MALACHITE COATINGS, PY MICROVEINS WITH COATINGS WITH LI/JA STAIN
R PY EUHEDRAL.
P 5590 6900 FB TUFF P2P+Q= D)JAKA <- CC
L E) P1 <.C* <-<-> C*
R LIGHT GREY, STRONG FOLIATION AT 20-35 DEGREES, VARIABLE. FINE-
R MEDIUM GRAINED, UNIFORM, NO FRAGMENTS. SIMILAR TO RBZN, NOT SO
R INTENSELY FRACTURED. PY MICROVEINS +/- QS ENVELOPES ALONG
R FOLIATION, SOMETIMES CROSSCUTTING. LI ASSOCIATED WITH SUBHEDRAL
R PY LARGE VUGGY QTZ VEINS +/- PY WITH JA, MEDIUM SMALL ANGLE TO
R CORE AXIS, X CUT FOLIATION, SOME PARALLEL FOLIATION, PATCHES OF
R CHL PERVASIVE ALTERATION, MAINLY SERICITIZED. UNIT BECOMES VERY
R UNIFORM DULL BROWN GREY WITH DEPTH. UNIT GRADATIONAL WITH RBZN
R ABOVE, CONTACT ARBITRARY. NATIVE COPPER ON FRACTURE/ FOLIATION
R PLANES OCCURS AT 59.0 M AND DOWNWARD WITH INCREASE CC, PY
R VEINS CROSSCUT QTZ VEINS.
D 5590 5900 98 X 300
L 13R3 580 X62
R INTERVAL HAS ZONES OF HARD, POSSIBLY SILICIFIED AREAS SURROUNDED
R BY SOFTER SERICITIC, TALC AREAS. GIVES PATCHY APPEARANCE.
R INDISTINCT ZONES WITH BLUE- BLACK CC FLECKS THROUGHOUT. SOME
R CHLORITIZATION.
D 5900 6200 97 X 320

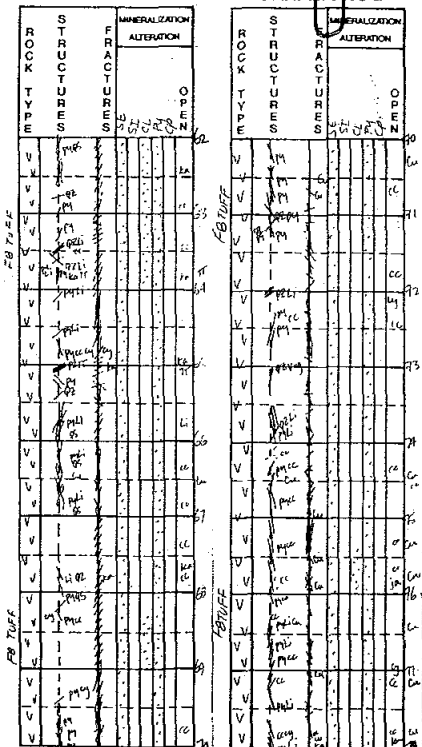
A001	36.60	39.60	57311	.568	.230
A001	39.60	44.30	57312	.468	.290
A001	44.30	48.70	57313	.388	.150
A001	48.70	52.00	57314	.384	.180
A001	52.00	55.00	57315	.301	.100
A001	55.00	58.00	57316	.576	.230
A001	58.00	61.00	57317	.432	.160

GRAPHIC LOG



GRAPHIC LOG

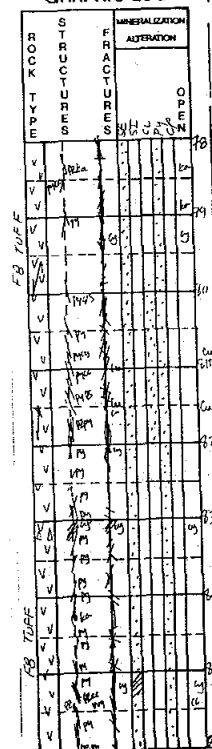
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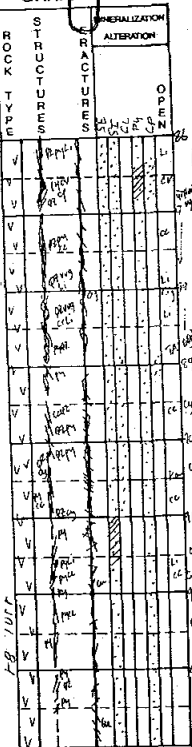
L 20R3 609 X62
R SIMILAR TO ABOVE DITTO, LESS PATCHY.
R 5980 6000HIGH INTENSITY OF VUGGY QTZ VEINS WITH EUHEDRAL PY, CC COATINGS
R 11. NATIVE COPPER, CV ON FRACTURE AT 35 DEGREES CROSSCUTTING
R FOLIATION AT 35 DEGREES, POSSIBLY SOME TENNANTITE.
R COPPER NOT NECESSARILY ON FRACTURES CROSSCUTTING FOLIATION.
R 6100 6200HIGH CONCENTRATION OF PY BLEBS ELONGATE PARALLEL TO CORE AXIS.
R SOME CHLORITIZATION, VISIBLE QS ENVELOPES.
D 6200 6500 87 X 220
L 0R3 640 X73
R INTERVAL MORE BLOCKY, FRACTURES SMALL-MEDIUM ANGLE TO CORE AXIS.
R 6390 6400EUHEDRAL PY AND TT VEINS WITH KAOLINITE, QTZ VEIN.
D 6500 6900 95 X X20 CU
L 0R3 670 X72 U.
R 6650 6655SMALL DENDRITIC CU ON FRACTURE SURFACE.
R 6700 6800BLUE SOFT CLEAR TALC BLEBS. ALSO CC.
R 6890 6900CLAY, HEAVILY FRACTURED, GREENISH SERICITIZED. HIGH
R CONCENTRATION OF FINE DENDRITIC CU, UP TO 2%. NO PARTICULAR
R ORIENTATION FOR FRACTURES EXCEPT PARALLEL TO CORE AXIS. SOME
R ASSOCIATED CC OR TT. MINOR CHLORITIZATION?
R 6970 6972NATIVE CU WITH CC ON FRACTURE PLANES.
E 6900 8200 FBXTUFF CU
L U*
R EXTENDED UNIT, THE SAME AS PREVIOUS FB TUFF, NATIVE CU ON FRACTU
R SURFACES WITH CC MUCH MORE FREQUENT. FRACTURING SLIGHTLY LESS,
R ROCK MORE COMPETENT, FRACTURES STILL GENERALLY <40 DEGREES.
R UNIFORM, MEDIUM GGRAINED, WELL FOLIATED, CU POSSIBLY FOUND WHEN
R FRACTURES CROSSCUT PY-CC (TT) VEINS.
R 6900 7000LIGHT GREY, GREEN, LITTLE PY BUT DISSEMINATED SMEARED CC UP TO
R 5%
D 7200 7500 97 X 320
L 28R3 731 422
R FRACTURES CROSSCUT PY VEINS.
R 7480 7600ABUNDANT CU ON FRACTURE PLANES INTENSELY PY-CC VEINS. MINOR CHL
R ALTERATION.
D 7500 7800 95 X 310
L 40R3 762 422
D 7800 8200 95 X 310
L 15R3 792 430
R 7990 8160CHLORITIZED, SOME CU AT 81.1 M. WELL DEVELOPED QS ENVELOPES ON
R PY MICROVEINS UP TO 3 MM POSSIBLE BLUE GREY TENNANTITE.
E 8200 10040 FBXTUFF P2P+ KA <+
L E) C)<+
R SIMILAR TO FBXTUFF (55.90-69.00M). LIGHT GREY, WELL FOLIATED,
R UNIFORM, SERICITIC, MINOR CHLORITE FRACTURES ALMOST PARALLEL

A001	61.00	64.00	57318	.292	.140
A001	64.00	67.00	57319	.149	.100
A001	67.00	70.00	57320	.169	.060
A001	70.00	73.00	57321	.264	.150
A001	73.00	76.00	57322	.241	.160
A001	76.00	79.00	57323	.348	.120
A001	79.00	82.00	57324	.328	.110

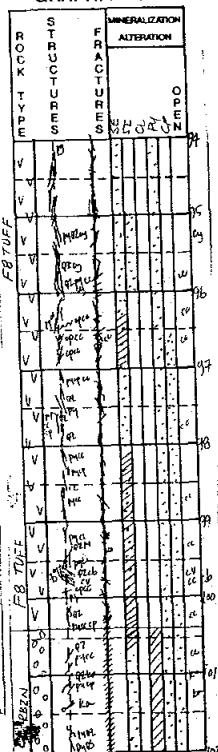
GRAPHIC LOG



GRAPHIC LOG



GRAPHIC LOG



R FOLIATION AND CORE AXIS. MORE PY MICROVEINS THAN PREVIOUSLY, HAS
 R PATCHY LOOK DUE TO SILICIFICATION/SERICITIZATION AS PREVIOUS.
 R LITTLE CU ON FRACTURES.

D 8200 8500 93 X 400
 L 7R3 823 421
 D 8500 8800 100 X X20
 L 21R3 853 X20

R INTERVAL SILICIFIED.
 R 8620 8680 QTZ VEINS WITH LARGE PY SUB-EUHEDRAL GRANULAR VEIN AT 10 DEGREES
 R TO CORE AXIS. NICE TARNISHING RAINBOW COLOURS, MINOR CP BLEBS,
 R SOME CV. QTZ VEINS VUGGY.

D 8800 9100 92 X 651 TA
 L 6R3 883 653 B.

R FRACTURES FOLLOW FOLIATION, FOLIATION DOWN CORE AXIS, WAVY.
 R 8880 8900 BLUE TALC BLEBS, PATCHY TEXTURE TO CORE.
 R 8800 9100 ABUNDANT YELLOW HARD STUFF, PRESENT SINCE 86.7 M. INTERSTITIAL
 R JUST CY ASSOCIATED AS INFILL IN QTZ VEINS.

D 9100 9400 100 X 310
 L 6R3 914 751

R 9170 9175 COPPER WITH CC ON FRACTURE. VERY ORANGE OXIDATION OF PY VEIN.
 D 9400 9700 97 X 320 B.
 L 10R3 945 432

R INTERVAL PATCHY
 R 9650 9700 VAST QUANTITIES (UP TO 5%) BLEBS TO IRREGULAR VEINS CP INSTEAD
 R PY. CC PLENTIFUL. HEAVILY SERICITIZED SECTION.

D 9700 10040 100 X B. CC
 L 11R3 975 <. D)

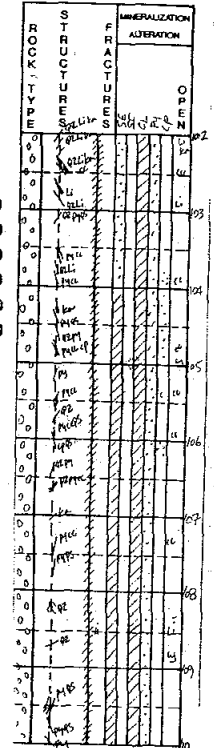
R 9740 9745 PASTEL TARNISHED PYRITE.
 R 9550 10040 START OF CP BLEBS: INTERVAL IS HEAVILY SERICITIZED WITH PATCHY
 R ELONGATE ALTERATION WITH SILICIFICATION IN BETWEEN. ALTERATION
 R NOT SPATIALLY RELATED TO PY MICROVEINS OR QTZ. PY WITH CC VEINS
 R PARALLEL FOLIATION/ALTERATION. AS DOES VUGGY QTZ. CP BLEBS AND
 R VEINS ARE VEINS ARE SPATIALLY CLOSE TO VUGGY QTZ VEINS BUT NOT
 R INTIMATE. BLEBS CONTAIN CC/CR, OFTEN CROSSCUT FOLIATION.
 R ASSOCIATED WITH INTENSE ANASTOMOSING SERICITE ALTERATION? SOME
 R QTZ HAS PINK HUE.

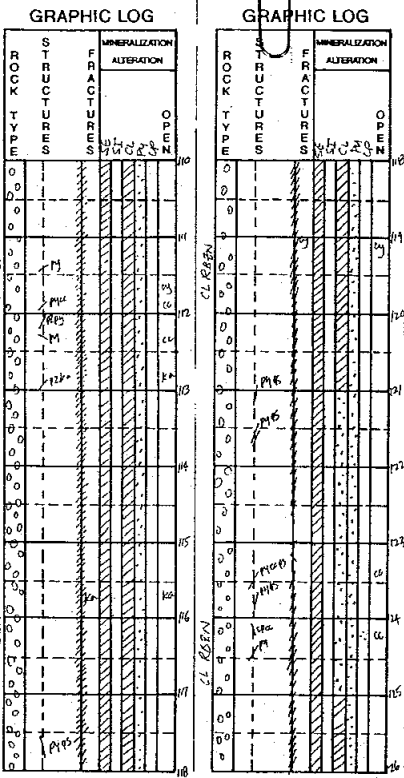
P 10040 14330 CL RBZN P3 P3 D1KA <?< CC
 L E= G) C) <+ V*

R DARK-MEDIUM GREEN, PATCHY, FLAKY, ANASTOMOSING ALTERATION
 R BETWEEN CHLORITE AND QS. QS ALSO AS ENVELOPES AROUND PY MICRO-
 R VEINS. CP SEEN AS TRACE ONLY, NO ORIENTATION POSSIBLE. VUGGY QTZ
 R VEINS UP TO 0.5 CM WIDE, CLOUDY TO PINK, LITTLE INTERSTITIAL
 R MINERALIZATION. PGI VERY CONSISTANT THROUGHOUT ALTHOUGH
 R CHLORITIZATION VARIES, DIFFICULT TO DISTINGUISH BETWEEN VEIN
 R AND DISSEMINATED PY. MINOR LI, MOSTLY KA COATINGS ON FRACTURES.

A001	82.00	85.00	57325	.253	.200
A001	85.00	88.00	57326	.640	0.6360
A001	88.00	91.00	57327	.736	.380
A001	91.00	94.00	57328	.732	.240
A001	94.00	97.00	57329	.736	.180
A001	97.00	100.40	57330	.588	.300

GRAPHIC LOG

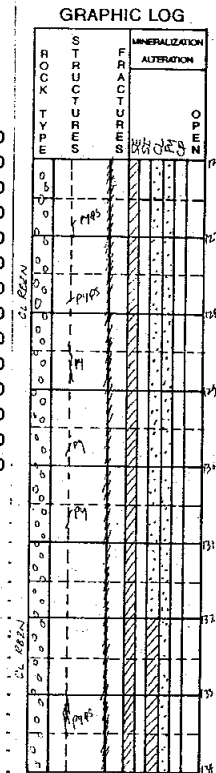




R FRACTURES FLATTER (50 DEGREES) AT TOP AND PERPENDICULAR TO
 R STEEPER (25-30 DEGREES) AT BOTTOM, SOME PARALLEL TO CORE AXIS.
 R CHANGES BETWEEN 120-125 M. WELL FOLIATED, ORIENTATION DIFFICULT,
 R POSSIBLY 20-30 DEGREES TO CORE AXIS? THROUGHOUT INTERVAL.

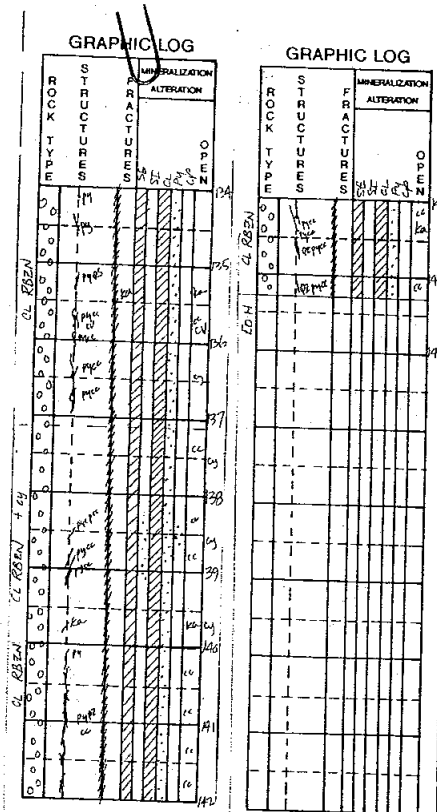
D	10040	10400	93	X	220	
L			OR2	1036	XXX	
D	10400	10700	92	X		
L			OR2	1097	XXX	
D	10700	11000	85	X		
L			OR2	1097	XXX	
R	10950	10960	WELL DEVELOPED QS ENVELOPES (2MM) AROUND PY MICROVEINS.			
D	11000	11300	90	X		
L			OR2	1128	XXX	
D	11300	11600	100	X		
L			OR2	1158	XXX	
R			UP TO 15% PY, (SOME CP?) ALL RUBBLE, NO STRUCTURES SEEN			
D	11600	11900	87	X		
L			OR2	1188	XXX	
R	11800	11900	INTENSE CHLORITIZATION			
D	11900	12200	90	X		
L			OR2	1219	XXX	
D	12200	12500	90	X		P2
L			OR2	1250	XXX	
D	12500	12800	67	X		
L			OR2		XXX	
D	12800	13100	55	X		
L			OR2		XXX	
D	13100	13400	58	X		
L			R2	1311	XXX	
R	13300	13400	VERY FLAKY, FRACTURES PARALLEL TO CORE AXIS, WELL DEVELOPED QS ENVELOPES, DEPTH ESTIMATED ONLY.			
D	13400	13720	87	X		
L			OR2	1341	XXX	
D	13720	14000	88	X		
L			OR2	1372	XXX	P1
R			SIMILAR TO OTHER INTERVALS BUT WITH YELLOW CLAY ALTERATION. YELLOW GREEN TINT TO ALTERATION, ABUNDANT PY (SUB-EUHEDRAL), VISIBLE CP, CC COATING PY.			
D	14000	14330	58	X		
L			OR2	1402	XXX	
R			VISIBLE ANASTOMOSING OR STRINGERS OF VARIOUS ALTERATION, ABUNDANT PY WITH CC COATINGS AND PASTEL TARNISH. MINOR CV. SOME PY-CC VEINS BORDER AREAS OF SI OR LESS CHL-SE ALTERATION BUT PY LESS COMMON IN SI ALTERATION THAN IN CHL-SE. END OF HOLE AT 143.30 M.			

A001	100.40	104.00	57331	.332	.210
A001	104.00	107.00	57332	.356	.270
A001	107.00	110.00	57333	.212	.160
A001	110.00	113.00	57334	.452	.190
A001	113.00	116.00	57335	.412	.210
A001	116.00	119.00	57336	.336	.250
A001	119.00	122.00	57337	.320	.180
A001	122.00	125.00	57338	.271	.150
A001	125.00	128.00	57339	.332	.180
A001	128.00	131.00	57340	.264	.220
A001	131.00	134.00	57341	.404	.210
A001	134.00	137.00	57342	.572	.240
A001	137.00	140.00	57343	.360	.160
A001	140.00	143.30	57344	.364 0.3700	.230



The A005 assay sets are selected
composites based on copper grades
and geology

	From	To	Length	Cu %	Au g/t
A005	6.10	30.70	24.60	.039	.089
A005	30.70	44.30	13.60	.573	.285
A005	44.30	55.90	11.60	.379	.152
A005	55.90	61.00	5.10	.491	.189
A005	61.00	85.00	24.00	.255	.130
A005	85.00	100.40	15.40	.684	.312
A005	100.40	143.30	42.90	.356	.205
/END					



IDEN680201 KERR KS-082BQWL23AUG90WKH JTTAUG90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 4500MT 152.40090.00-60.00 9902.00 9691.00 1656.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBCFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0

LSCL PC.0 LCTM
 S001 4500 12000 152.40090.00-54.00
 S002 12000 15240 152.40090.00-54.00
 A003
 AUMM MAG

P 000 430 OVBD
 L
 P 430 1140 AL9TUFF P1 P= D- J* JA
 L V=< T(

TUFF UNIT COMPOSED OF QTZ (40%), F-SPAR (40%) AND A MINOR
 MAFICS (5%). THE F-SPAR AND MAFICS HAVE BEEN PARTIALLY ALTERED
 TO SERICITE (10%) AND CHLORITE (5%). UNIT IS FINE GRAINED AND
 A VERY LIGHT GREEN IN COLOUR. MASSIVE. FROM 4.30 TO 4.80 A QTZ
 VEIN WAS INTERSECTED. THE VEIN IS CRACKLED AND ABUNDANT CP AND
 BIOTITE ARE EMPLACED WITHIN THE FRACTURES. BE ALSO OCCURS AS
 SCATTERED LAMINATIONS FROM 6.10 TO 7.20. THE QTZ VEIN IS VERY
 BLOCKY. SMALL FAULT OCCURS FROM 6.60 TO 6.70, TRENDING AT 40
 DEGREES.

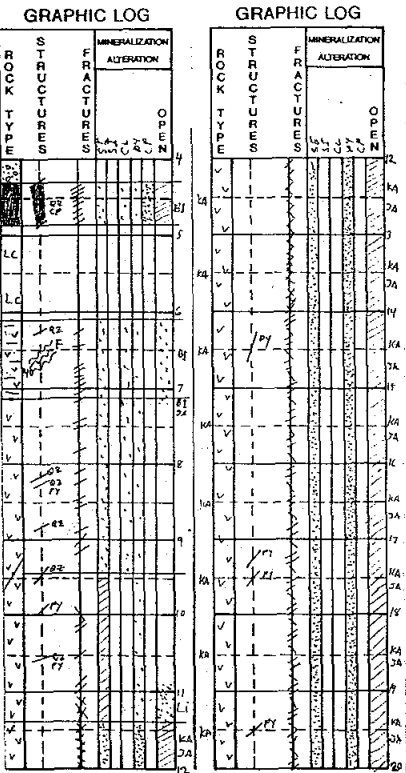
N 480 610 XMCOR
 L
 N 610 710 98 XAGLM 010 D-
 D 20R2 61 031
 L 710 940 98 X 010
 L 83R2 92 020
 N 940 1140 98SEXTUFF 010 P3 D= << LI
 L 50R2 020 <<< Q+

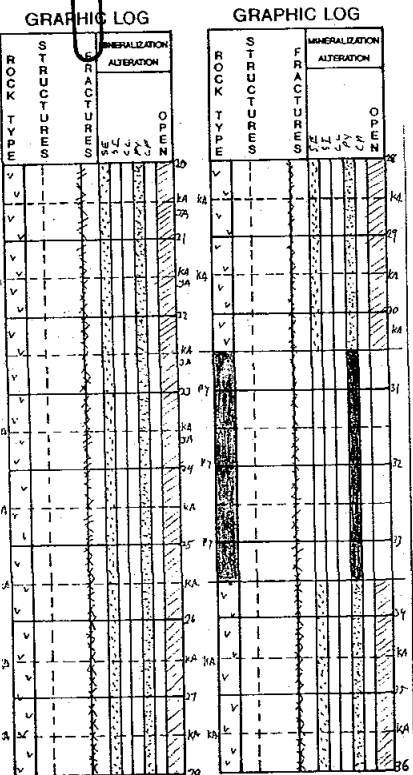
SIMILAR TO THE PREVIOUS UNIT EXCEPT FOR INTENSIVE SEECITIC
 ALTERATION (30%), LIGHT TO MEDIUM GREY. FINE GRAINED. WEAK TO
 MODERATELY FOLIATED AT 50 DEGREES. PY OCCURS AS TINY
 DISSEMINATED CRYSTALS. THE BOTTOM 50 CM IS VERY OXIDIZED AND
 BLOCKY.

P 1140 3710 KA9TUFF P2 D1 << JACC
 L P3 Q=D(

TUFF UNIT WHICH HAS UNDERGONE INTENSIVE CLAY ALTERATION. THE
 CLAY IS PRIMARILY KAOLINITE BUT SIGNIFICANT JAROSITE OCCURS FROM
 11.40 TO 26.00. THE UNIT IS RUBBLY TO VERY BLOCKY AND VERY SOFT.
 THE ROCK IS A WHITISH GERY COLOUR EXCEPT FOR THE REGIONS WITH
 ABUNDANT JA WHERE A LIGHT YELLOW PREDOMINATES. CORE RECOVERY IS
 POOR AT THE TOP AND THE BOTTOM OF THE UNIT. PY IS ABUNDANT AS

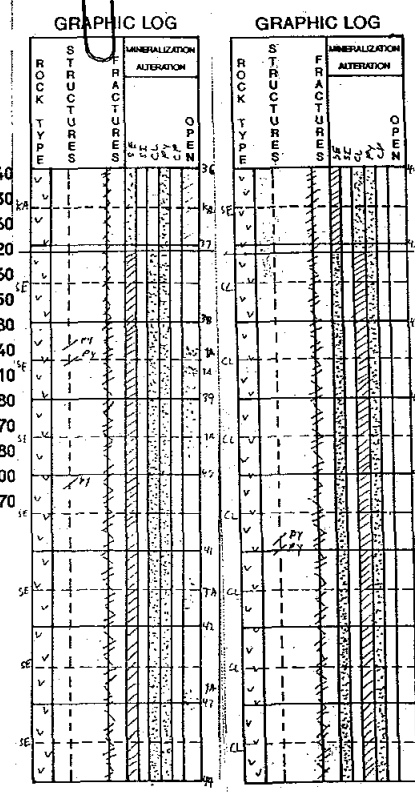
From	To	Sample	Cu %	Cu % Au g/t Au g/t Ag ppm Pb ppm Zn ppm	(dupl)	(dupl)
A001	4.30	7.30	57920	1.020	.130	
A001	7.30	9.40	57921	.484	.060	
A001	9.40	11.40	57922	.536	.150	





R	DISSEMINATED CRYSTALS. VERY MINOR CHALCOCITE CRYSTALS SEEN			
R	BETWEEN 34.00 AND 35.00.			
D	1140	1530	85 X	100
L			22R2 122	999
D	1530	1830	95 X	100
L			7R2 183	666
D	1830	2130	95 X	010
L			5R2 213	777
D	2130	2440	95 X	000
L			0R2 244	888
D	2440	2740	73 X	000
L			13R2 274	666
D	2740	3050	37 X	000
L			0R2 305	XXX
N	3050	3350	37PYXMSX	000
L			0R3 335	888
R	UNIT IS 100% MASSIVE PY CRYSTALS			
D	3350	3710	55 X	000
L			0R2 366	999
P	3710	4510	SEXTUFF	
L				
R	VERY ALTERED TUFF UNIT WITH ABUNDANT CHLORITE ALTERATION. UNIT HAS A VUGGY TEXTURE. TALC OCCURS SPORADICALLY AS INTERSTITIAL MASSES AND OCCASIONALLY ALONG FRACTURES. PY IS ABUNDANT AS SMALL DISSEMINATED CRYSTALS. THE UNIT IS VERY BLOCKY AND SOFT.			
D	3710	3960	95 X	010
L			7R2 396	777
D	3960	4270	95 X	010
L			0R2 427	777
D	4270	4510	97 X	000
L			0R2	555
P	4510	5350	CLXTUFF	
L				
R	VERY SIMILAR TO PREVIOUS UNIT EXCEPT THE EXTENT OF CHLORITE ALTERATION HAS INCREASED TO APPROXIMATELY 30% OF THE UNIT. ABUNDANT SERICITIC AND MINOR CLAY ALTERATION ALSO OCCUR. PY OCCURS AS DISSEMINATED CRYSTALS. UNIT IS VERY BLOCKY AND RUBBLY WITH A VUGGY TEXTURE.			
D	4510	4880	95 X	000
L			0R2 457	777
D	4880	5180	95 X	010
L			4R2 518	555
D	5180	5350	95 X	000
L			0R2	777
P	5350	6590	SEXTUFF	

A001	11.40	15.30	57923	.028	0.0280				
A001	15.30	18.30	57924	.012					
A001	18.30	21.30	57925	.020					
A001	21.30	24.40	57926	.037					
A001	24.40	27.40	57927	.066					
A001	27.40	30.50	57928	.184					
A001	30.50	33.50	57929	2.030					
A001	33.50	37.10	57930	.380					
A001	37.10	39.60	57931	.392					
A001	39.60	42.70	57932	.352					
A001	42.70	45.10	57933	1.010					
A001	45.10	48.80	57934	1.150					
A001	48.80	51.80	57935	1.160					
A001	51.80	53.50	57936	1.020					



L Q+ M*DC
 R FINE GRAINED, LIGHT-MEDIUM GREY UNIT COMPOSED OF QTZ AND F-SPAR
 R WHICH HAVE UNDERGONE SIGNIFICANT SERICITIC ALTERATION. MINOR
 R CHLORITIC AND PATCHY CLAY ALTERATION ALSO OCCURS. UNIT IS
 R MODERATELY-INTENSE FOLIATED AT 60 DEGREES. UNIT IS BLOCKY AND
 R IN SMALL ZONES, RUBBLY. TALC OCCURRING AS FRACTURE FILLS SEEN
 R FROM 57.00 TO 58.00. SMALL ZONE OF MASSIVE TENNANTITE (EXACT
 R WIDTH UNDETERMINABLE DUE TO RUBBLING) OCCURS AT 55.85. CP
 R OCCURRING AS MICROVEINLETS AT 61.60. PY OCCURS AS DISSEMINATED
 R CRYSTALS AND RARE MICROVEINLETS. OCCASIONAL CHALCOCITE SEEN IN
 R THE TOP SECTION OF THE HOLE.

D	5350	5650	95	X	000
L			OR2	549	888
D	5650	5950	98	X	000
L			9R2	579	454
D	5950	6250	98	X	100
L			13R2	610	444
D	6250	6590	59	X	010
L			02	640	444
N	6450	6590		XMCOR	

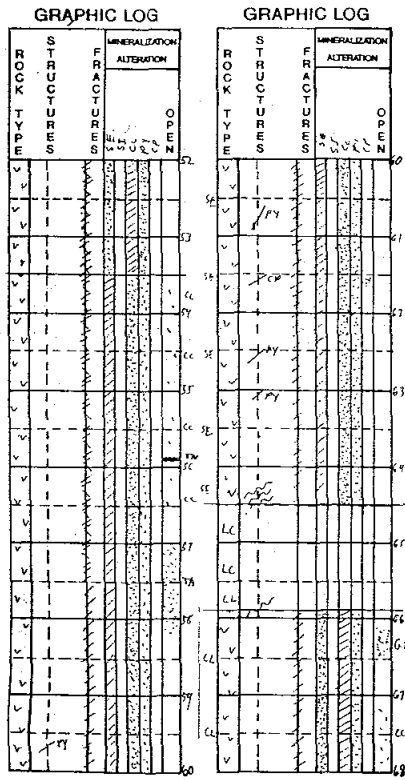
R A FAULT OCCURS AT 64.30 AND THERE IS 20 CM OF GOUGE BEFORE THE
 R LOST CORE ZONE.
 P 6590 7450 CLXTUFF P2 P3 D1 << CCTA
 L <<< D)J<

R SIMILAR TO THE PREVIOUS UNIT EXCEPT FOR AN INCREASE IN THE CL
 R ALTERATION TO 30%. UNIT IS LIGHT GREYISH GREEN AND FOLIATED AT
 R 55.0. MINOR PY AND SEEN AS DISSEMINATED CRYSTALS. PY
 R MICROVEINLET PARTIALLY ALTERED TO JA. BLOCKY, GYPSUM FILLED
 R FRACTURES FROM 66.10 TO 66.50.

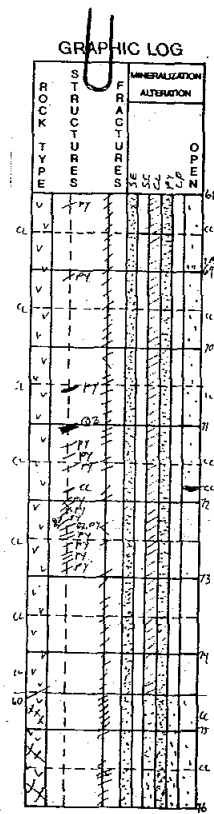
D	6590	6890	98	X	010
L			OR2	671	444
D	6890	7190	98	X	020
L			27R2	701	333
D	7190	7450	98	X	030
L			38R2	732	030
P	7450	7940		KR4BXQZ	

L P1 P= D1 +++1 CC
 L V4 D)
 R ZONE OF THE SETUFF WHICH A STOCKWORK OF QTZ VEINS HAVE INTRUDED
 R THIS QTZ HAS BEEN CRACKLED (BY A COMPRESSION EVENT?) AND
 R SULPHIDES HAVE INTRUDED ALONG THE FRACTURES IN THE QTZ FORMING
 R A BRECCIA. THESE VEINS MAKE UP APPROXIMATELY 40% OF THE UNIT.
 R INTRUDING SULPHIDES ARE PYRITE AND MINOR CHALCOPYRITE AND
 R CHALCOCITE.

D	7450	7750	100	X	010
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A001	53.50	56.50	57937	1.270	.440
A001	56.50	59.50	57938	1.390 1.3600	.520
A001	59.50	62.50	57939	1.360	.580
A001	62.50	65.90	57940	1.250	.290
A001	65.90	68.90	57941	1.210	.150
A001	68.90	71.90	57942	1.200	.220
A001	71.90	74.50	57943	1.190	.250



L 50R3 762 041
 D 7750 7940 100 X 040
 L 42R3 793 030
 P 7940 10780 SE9TUFF

P3 P1 D= <>
 Q= <<<

R TUFF UNIT COMPOSED OF FINE GRAINED QTZ AND F-SPAR WHICH HAS
 R UNDERGONE ABUNDANT SERICITIC ALTERATION. UNIT IS A LIGHT MEDIUM
 R GREY IN COLOUR EXCEPT FOR THE ZONE 79.40 TO 87.30 WHICH IS
 R YELLOWISH DUE TO THE CLAY ALTERATION. LAPILLI CLASTS SEEN
 R OCCASIONALLY. FOLIATION IS MODERATE TO INTENSE AT 45.0. FAULT
 R ZONE WITH GOUGE OCCURS FROM 82.15 TO 82.30. FAULT TRENDS AT 65.
 R A 10 CM ZONE OF ARGILLITE? OCCURS AT 81.80. THIS IS INTERPRETED
 R AS A RIPUP CLAST DURING THE TUFF DEPOSITION, NOT A BED. PY
 R OCCURS AS DISSEMINATED CRYSTALS AND MICROVEINLETS.

D 7940 8240 98 X 031
 L 53R3 823 131
 D 8240 8540 100 X 020
 L 33R3 853 131
 D 8540 8790 100 X 010
 L 56R3 030
 N 8790 8930 100MXXLAAP 010
 L 100R3 884 110

R DARK GREEN SLIGHTLY MAGNETIC. SLIGHTLY BLEACHED FOR 5 CM AT THE
 R CONTACTS. COMPETENT.

A003 8790 8930 100
 R FROM 89.30 TO THE BOTTOM OF THE UNIT, MINOR CHLORITE ALTERATION
 R OCCURS (10% OF UNIT)

R FROM 89.30 TO THE BOTTOM OF THE UNIT IS VERY BLOCKY.
 R KINKS IN THE FOLIATION OCCUR AT VARIOUS PLACES IN THIS ZONE.
 R THESE KINKS CONSIST OF BENDS IN THE FOLIATION WILL FOLLOW THE
 R CORE AXIS FOR 3 CM THEN BEND BACK TO 45. THESE KINKS OCCUR AT
 R 95.55, 96.30, 98.55.

D 8930 9230 100 X 000
 L 4R2 914 333
 D 9230 9530 100 X 010
 L 10R2 945 333
 D 9530 9830 100 X 000
 L 0R2 975 333

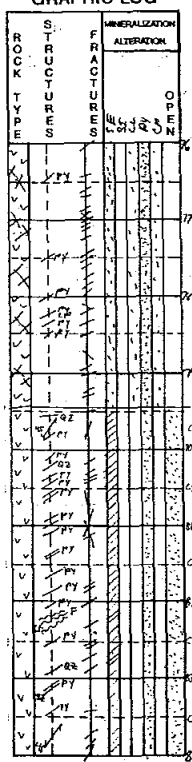
R FOLIATION CHANGE TO 60 AT 99.15.

D 9830 10130 100 X 000
 L 0R2 1006 555
 D 10130 10430 100 X 011
 L 13R2 1036 333
 D 10430 10780 100 X 000
 L 4R2 1067 333

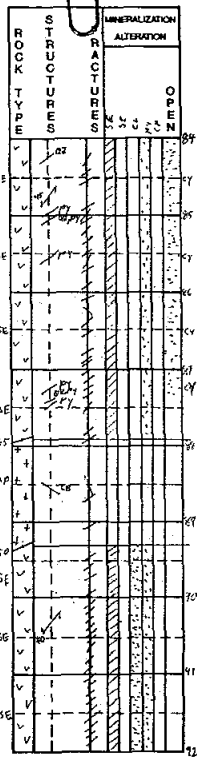
A001 74.50 77.50 57944 1.220
 A001 77.50 79.40 57945 1.180
 A001 79.40 82.40 57946 .412
 A001 82.40 85.40 57947 .372 0.3640
 A001 85.40 87.90 57948 .222
 A001 87.90 89.30 57949 .026
 A001 89.30 92.30 57950 .396
 A001 92.30 95.30 57951 .716
 A001 95.30 98.30 57952 .648
 A001 98.30 101.30 57953 .496
 A001 101.30 104.30 57954 .376
 A001 104.30 107.80 57955 .704

.140
 .310
 .080
 .050
 .100
 .010
 .050
 .150
 .270
 .120
 .080
 .290

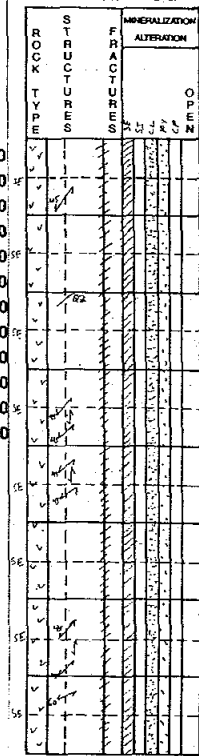
GRAPHIC LOG



GRAPHIC LOG



GRAPHIC LOG



R 10700 10780ZONE OF INTENSIVE OXIDATION.

P 10780 11450 CLXTUFF

P1 P3 D= <-

<< <-

R TUFF UNIT WHICH HAS UNDERGONE INTENSIVE CHLORITIC ALTERATION.
R OCCASIONAL LAPILLI CLASTS IN THE TOP PART OF THE UNIT. UNIT IS
R MEDIUM GREEN IN COLOUR. THE UNIT HAS A SUGARY TEXTURE. UNIT IS
R SIMILAR TO THE PREVIOUS EXCEPT FOR THE INCREASES IN CHLORITE.
R BLOCKY. PY OCCUR AS TINY DISSEMINATED CRYSTALS AND OCCASIONAL
R MICROVEINLETS. FOLIATION IS MODERATE AT 60. OCCASIONAL STRINGERS
R OF SIDERITE, THE 10 CM ABOVE THE INTRUSION AT 114.50 IS
R INTENSELY BLEWACHED (SERJICITIZED)

D 10780 11080 100 X 010

L 10R2 1097 333

D 11080 11280 90 X 010

L 0R2 1128 333

D 11280 11450 98 X 000

L 6R2 333

N 11250 11280 XMCOR

P 11450 11925 F5XANPP Q2L+V+
V= V=

R PREMIER PORPHYRY. UNIT CONSISTS OF PLAG PHENOCRYSTS(30% OF UNIT)
R AND MINOR K-SPAR MEGACRYSTS (2-3%) IN A FINE GRAINED MATRIX OF
R F-SPAR AND HB. FOLIATION IN THE UNIT IS MODERATE AT 50. K-SPAR
R ARE ANDEDRAL TO SUBHEDRAL AND LESS DEFORMED THAN THE PLAG WHICH
R ARE ELONGATED ALONG FOLIATION. ABUNDANT QTZ/CB VEINING WITH
R ASSOCIATED CHLORITE AND EP LAMINATIONS OCCUR THROUGHOUT. A VERY
R SILICIFIED ZONE WITH LATER QTZ/CB VEINS OCCURS FROM 114.50 TO
R 115.20 AND A SMALLER SILICIFIED OCCUR FROM 115.40 TO 115.55.
R THESE ZONES ALSO HAVE A PINK HUE SUGGESTING K-SPAR ALTERATION.

D 11450 11750 100 X 021

L 93R3 1158 021

D 11750 11925 100 X 021

L R3 1189 020

P 11925 12400 CLXTUFF P1 P3 D= B.<) GACC
<- B.DC

R TUFF UNIT WHICH HAS UNDERGONE INTENSIVE CHLORITIC ALTERATION.
R MEDIUM GREEN IN COLOUR. BLOCKY. MODERATELY FOLIATED AT 50. PY AS
R TINY DISSEMINATED CRYSTALS AND MICROVEINLETS. A BLEB OF CP AND
R GA SEEN IN A QTZ VEIN. AMOUNT OF CL DECREASING DOWN THE HOLE.
R MINOR CC SEEN.

D 11925 12190 98 X 010

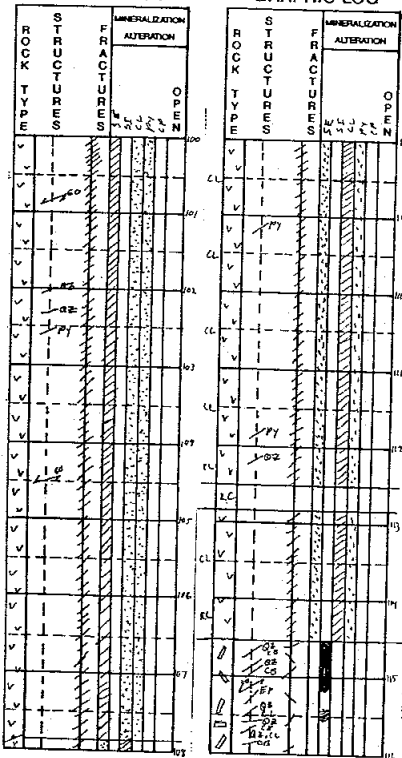
L 0R2 1219 444

D 12190 12400 100 X 120

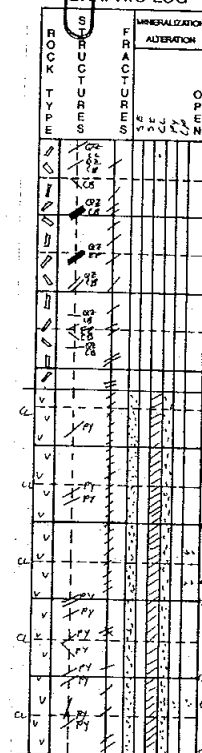
L 67R2 020

GRAPHIC LOG

GRAPHIC LOG



GRAPHIC LOG



Sample ID	Interval (m)	Depth (m)	Value 1	Value 2
A001	107.80 - 110.80	57956	.504	.280
A001	110.80 - 112.80	57957	.768	.230
A001	112.80 - 114.50	57958	.904	.260
A001	114.50 - 117.50	57959	.059	.010
A001	117.50 - 119.25	57960	.037	.010
A001	119.25 - 121.90	57961	.380	.090
A001	121.90 - 124.00	57962	.306	.190

P 12400 15240 SEXTUFF P2 L-D1 B-<) GACC

L <* <*< B-O<

R TUFF UNIT WHICH HAS UNDERGONE EXTENSIVE SERICITIC ALTERATION.
R THE UPPER CONTACT IS DEFINED BY THE LACK OF CHLORITE WHICH IS
R GRADATIONAL. SERICITIC CONTENT IS NOT AS ABUNDANT AS PREVIOUSLY
R SETUFF'S. UNIT IS LIGHT GREY IN COLOUR AND FINE GRAINED. UNIT
R HAS A GRANULAR APPEARANCE. PY OCCURS THROUGHOUT AS DISSEMINATED
R CRYSTALS, MICROVEINLETS AND ASSOCIATED WITH QTZ VEINS. UNIT IS
R WEAK TO MODERATELY FOLIATED AT 60. LAPILLI CLASTS SEEN
R OCCASIONALLY. COMPETENT.

D 12400 12700 100 X 130

L 52R3 1250 120

D 12700 13000 100 X 122

L 82R3 1280 030

R BLEBS OF CP WITH INTERSTITIAL GA SEEN IN QTZ VEIN.

D 13000 13300 100 X 120

L 73R3 1311 020

D 13300 13600 100 X 031

L 97R3 1341 010

D 13600 13900 100 X 021

L 93R3 1372 021

D 13900 14200 100 X 021

L 72R3 1402 020

D 14200 14500 100 X 030

L 33R3 1433 030

D 14500 14800 100 X 010

L 58R3 1463 030

R 14500 15240 OCCASIONAL LAPILLI CLASTS SEEN FROM 145.00 TO THE END OF THE
R HOLE.

D 14800 15000 100 X 010

L 78R3 1494 010

D 15000 15240 100 X 021

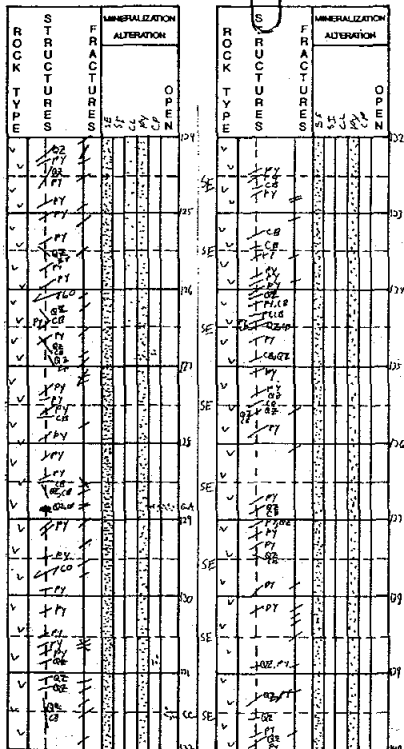
L R3 1524 010

The A005 assay sets are selected
composites based on copper grades
and geology

	From	To	Length	Cu %	Au g/t
A005	4.30	11.40	7.10	.725	.115
A005	11.40	30.50	19.10	.057	.059
A005	30.50	79.40	48.90	1.103	.252
A005	79.40	92.30	12.90	.320	.062
A005	92.30	114.50	22.20	.620	.208

GRAPHIC LOG

GRAPHIC LOG



A001	124.00	127.00	57963	.282	.150
A001	127.00	130.00	57964	.298	.230
A001	130.00	133.00	57965	.347	.180
A001	133.00	136.00	57966	.193	.150
A001	136.00	139.00	57967	.204	.180
A001	139.00	142.00	57968	.115	.170
A001	142.00	145.00	57969	.132	.170
A001	145.00	148.00	57970	.058	.140
A001	148.00	150.00	57971	.092	.100
A001	150.00	152.40	57972	.169	.170

A005 114.50 119.25 4.75 .051 .010
 A005 119.25 133.00 13.75 .322 .169
 A005 133.00 152.40 19.40 .139 .157
 /END

GRAPHIC LOG

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION			DEPTH
		CL	CU	OPEN	
V	SP				114.50
V	SP				119.25
V	I				124.00
V	SP				128.75
V	SP				133.50
V	SP				138.25
V	SP				143.00
V	SP				147.75
V	SP				152.50
V	SP				157.25
V	SP				162.00
V	SP				166.75
V	SP				171.50
V	SP				176.25
V	SP				181.00
V	SP				185.75
V	SP				190.50
V	SP				195.25
V	SP				200.00
V	SP				204.75
V	SP				209.50
V	SP				214.25
V	SP				219.00
V	SP				223.75
V	SP				228.50
V	SP				233.25
V	SP				238.00
V	SP				242.75
V	SP				247.50
V	SP				252.25
V	SP				257.00
V	SP				261.75
V	SP				266.50
V	SP				271.25
V	SP				276.00
V	SP				280.75
V	SP				285.50
V	SP				290.25
V	SP				295.00
V	SP				299.75
V	SP				304.50
V	SP				309.25
V	SP				314.00
V	SP				318.75
V	SP				323.50
V	SP				328.25
V	SP				333.00
V	SP				337.75
V	SP				342.50
V	SP				347.25
V	SP				352.00
V	SP				356.75
V	SP				361.50
V	SP				366.25
V	SP				371.00
V	SP				375.75
V	SP				380.50
V	SP				385.25
V	SP				390.00
V	SP				394.75
V	SP				399.50
V	SP				404.25
V	SP				409.00
V	SP				413.75
V	SP				418.50
V	SP				423.25
V	SP				428.00
V	SP				432.75
V	SP				437.50
V	SP				442.25
V	SP				447.00
V	SP				451.75
V	SP				456.50
V	SP				461.25
V	SP				466.00
V	SP				470.75
V	SP				475.50
V	SP				480.25
V	SP				485.00
V	SP				489.75
V	SP				494.50
V	SP				499.25
V	SP				504.00
V	SP				508.75
V	SP				513.50
V	SP				518.25
V	SP				523.00
V	SP				527.75
V	SP				532.50
V	SP				537.25
V	SP				542.00
V	SP				546.75
V	SP				551.50
V	SP				556.25
V	SP				561.00
V	SP				565.75
V	SP				570.50
V	SP				575.25
V	SP				580.00
V	SP				584.75
V	SP				589.50
V	SP				594.25
V	SP				599.00
V	SP				603.75
V	SP				608.50
V	SP				613.25
V	SP				618.00
V	SP				622.75
V	SP				627.50
V	SP				632.25
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V	SP				679.75
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V	SP				717.75
V	SP				722.50
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V	SP				736.75
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V	SP				760.50
V	SP				765.25
V	SP				770.00
V	SP				774.75
V	SP				779.50
V	SP				784.25
V	SP				789.00
V	SP				793.75
V	SP				798.50
V	SP				803.25
V	SP				808.00
V	SP				812.75
V	SP				817.50
V	SP				822.25
V	SP				827.00
V	SP				831.75
V	SP				836.50
V	SP				841.25
V	SP				846.00
V	SP				850.75
V	SP				855.50
V	SP				860.25
V	SP				865.00
V	SP				869.75
V	SP				874.50
V	SP				879.25
V	SP				884.00
V	SP				888.75
V	SP				893.50
V	SP				898.25
V	SP				903.00
V	SP				907.75
V	SP				912.50
V	SP				917.25
V	SP				922.00
V	SP				926.75
V	SP				931.50
V	SP				936.25
V	SP				941.00
V	SP				945.75
V	SP				950.50
V	SP				955.25
V	SP				960.00
V	SP				964.75
V	SP				969.50
V	SP				974.25
V	SP				979.00
V	SP				983.75
V	SP				988.50
V	SP				993.25
V	SP				998.00
V	SP				1002.75
V	SP				1007.50
V	SP				1012.25
V	SP				1017.00
V	SP				1021.75
V	SP				1026.50
V	SP				1031.25
V	SP				1036.00
V	SP				1040.75
V	SP				1045.50
V	SP				1050.25
V	SP				1055.00
V	SP				1059.75
V	SP				1064.50
V	SP				1069.25
V	SP				1074.00
V	SP				1078.75
V	SP				1083.50
V	SP				1088.25
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V	SP				1102.50
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V	SP				1121.50
V	SP				1126.25
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V	SP				1192.75
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V	SP				1202.25
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V	SP				1211.75
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V	SP				1230.75
V	SP				1235.50
V	SP				1240.25
V	SP				1245.00
V	SP				1249.75
V	SP				1254.50
V	SP				1259.25
V	SP				1264.00
V	SP				1268.75
V	SP				1273.50
V	SP				1278.25
V	SP				1283.00
V	SP				1287.75
V	SP				1292.50
V	SP				1297.25
V	SP				1302.00
V	SP				1306.75
V	SP				1311.50
V	SP				1316.25
V	SP				1321.00
V	SP				1325.75
V	SP				1330.50
V	SP				1335.25
V	SP				1340.00
V	SP				1344.75
V	SP				1349.50
V	SP				1354.25
V	SP				1359.00
V	SP				1363.75
V	SP				1368.50
V	SP				1373.25
V	SP				1378.00
V	SP				1382.75
V	SP				1387.50
V	SP				1392.25
V	SP				1397.00
V	SP				1401.75
V	SP				1406.50
V	SP				1411.25
V	SP				1416.00
V	SP				1420.75
V	SP				1425.50
V	SP				1430.25
V	SP				1435.00
V	SP				1439.75
V	SP				1444.50
V	SP				1449.25
V	SP				1454.00
V	SP				1458.75
V	SP				1463.50
V	SP				1468.25
V	SP				1473.00
V	SP				1477.75
V	SP				1482.50
V	SP				1487.25
V	SP				1492.00
V	SP				1496.75
V	SP				1501.50
V	SP				1506.25
V	SP				1511.00
V	SP				1515.75
V	SP				1520.50
V	SP				1525.25
V	SP				1530.00
V	SP				1534.75
V	SP				1539.50
V	SP				1544.25
V	SP				1549.00
V	SP				1553.75
V	SP				1558.50
V	SP				1563.25
V	SP				

IDEN680201 KERR KS-083 NQ31AUG90KME JTTAUG90S38 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 6200MT 306.90090.00-60.00 9761.00 9590.00 1734.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXQZQPXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTH

S001 6200 17000 306.90085.00-55.00
 S002 17000 26000 306.90082.00-49.00
 S003 26000 30690 306.90081.00-48.00

A003
 AUHM MAG

P 000 170 OVBD

R 170 300CASING 'TIL 3.00 M, CORE FROM 1.7 M.

P 170 1690 AL TFLP

P= P+ J=QCWD <- LI
 <+C= C+

R LIGHT GREY-GREY BROWN, FINE GRAINED BOMBS UP TO 40 CM OF ASH
 R TUFF AND CRYSTAL TUFF, FRAGMENTS UP TO 4 CM, SHARP CONTACTS,
 R ANGULAR TO ROUNDED, VARIOUS INTERMEDIATE COMPOSITION TO ASH TUFF
 R MATRIX VERY FINE GRAINED, DARK PROBABLY ANDESITIC. MINOR
 R SERICITE ALTERATION, MINOR FOLIATION AT 45 DEGREES, QTZ-CB
 R IRREGULAR VEINS +/- PY UP TO 5% OF CORE, SOME ASSOCIATED CHL,
 R FRACTURES EXTENSIVE IN SOME AREAS, LI AND WD COATINGS. PY
 R INTERSTITIAL BLEBS AND SUBHEDRAL CRYSTALS BETWEEN FRAGMENTS UP
 R TO 5%, MINOR PY MICROVEINS.

D 170 500 30 X 100

L 3R4 30 XXX

D 500 800 88 X 010

L 55R4 52 230

R MARK AT 7.6 M

R 500 540GREEN ASH TUFF BOMB, SHARP CONTACTS, SOME BRECCIATION, 5.65-5.75
 R SIMILAR.

D 800 1100 67 X 101

L 10R4 82 642

R 950 1050MOST CORE LOST FOR INTERVAL.

D 1100 1400 95 X 132

L 73R4 113 221

R MARK AT 13.7

R 1290 1300PY CONCENTRATION, SUBHEDRAL TO VERY FINE MASSES.

D 1400 1690 72 X 231

L 16R4 162 332

R FRACTURES CROSSCUT VEINING, MINUTE CB SEAMS THROUGHOUT.

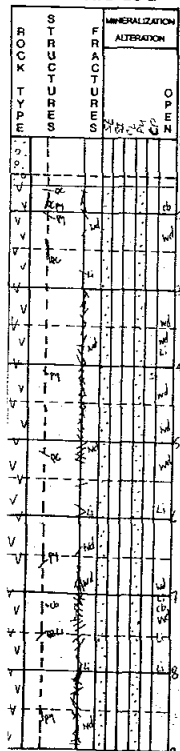
R 1500 1660CRYSTAL TUFF (PHPP) FRAGMENT, VERY FINE DISSEMINATED PY

P 1690 2130 83 XTFAH 131 P= P= D)QCWD LI

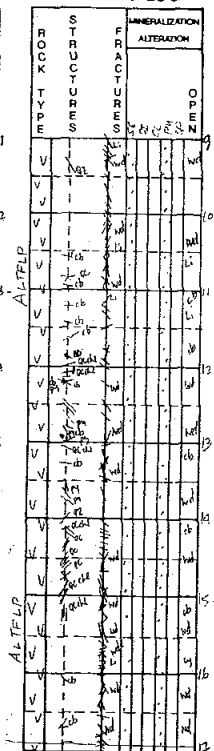
From To Sample Cu % Cu % Au g/t Au g/t Ag ppm Pb ppm Zn ppm
 (dupl) (dupl)

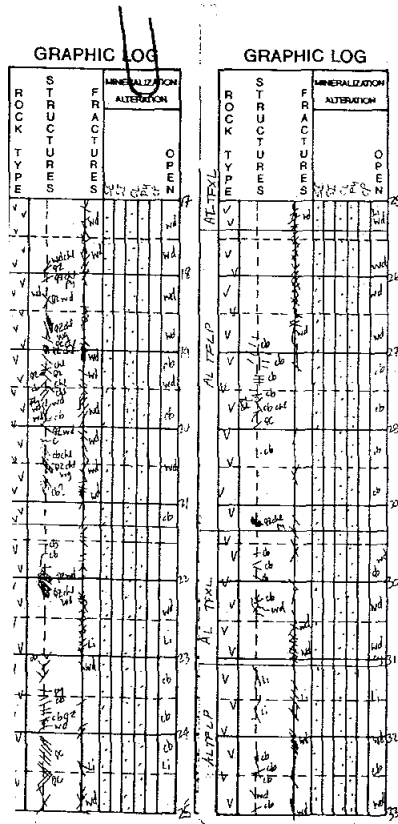
A001 1.70 5.00 57345 .037 .070
 A001 5.00 8.00 57346 .035 .050
 A001 8.00 11.00 57347 .041 .050
 A001 11.00 14.00 57348 .059 .070
 A001 14.00 16.90 57349 .037 .100

GRAPHIC LOG



GRAPHIC LOG



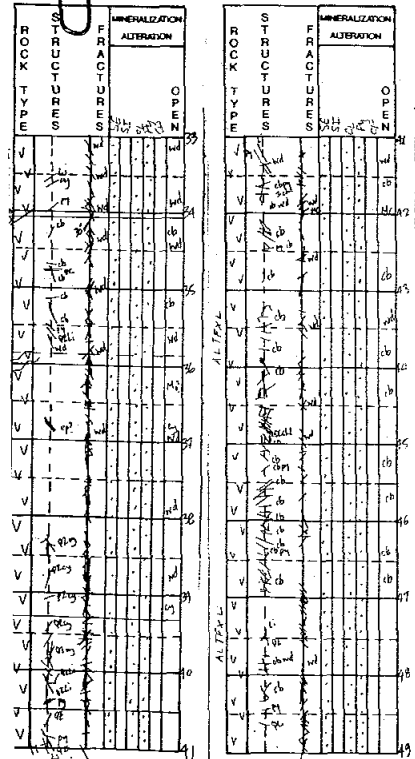


L 23R3 177 442 <)C=<) C-
 R ASH TUFF, VERY UNIFORM, NO STRUCTURES, MEDIUM GREEN, MNOR
 R CHLORITIC-SERICITIC ALTERATION, MINOR SEGMENTS OF PHPP, SHARP
 R CONTACTS. MINOR CB AMYGDULES, ESPECIALLY AT BOTTOM 21.0-21.3 M.
 R ABUNDANT WD ON FRACTURE PLANES. VUGGY WD BARREN QTZ VEINS,
 R IRREGULAR SMALL QZ-CB VEINLETS. LITTLE MINERALIZATION.
 R MARK AT 21.0
 R 1900 1950 FINE GRAINED CHLORIT AS ENVELOPES ON FRACTURES AND MICROVEINS
 R WITH QTZ AND ANGULAR ROCK FRAGMENTS. ASH TUFF VERY UNIFORM,
 R LIGHT GREEN.
 R 1980 2040 MINUTE CB DISCONTINUOUS VEINLETS, SOME SHEETING AT 20.2-20.4
 R WITH CHL SHEETING AS WELL.
 R 2000 2020 CRYSTAL TUFF, SHARP BOTTOM CONTACT, IRREGULAR. CB-CHL SHEETING
 R ONLY IN TFAH, TRUNCATED AT CONTACT AA/
 R 2100 2130 AMYGDALOIDAL TUFF SLIGHTLY MORE COMPETENT THAN REST OF PGI,
 R LITTLE CB VEINING.
 A003 2100 2130 45
 P 2130 2530 79ALXPHPP 321 P= P= D)QCWD <)
 L 51R3 232 342 K+C+<-
 R MEDIUM GREEN, TRANSPARENT ANHEDRAL PF PHENOCRYSTS UP TO 50% OF
 R ROCK, UNIFORM, COMPETENT, VERY FINE DISSEMINATED PY. CB-QTZ+/-
 R CHL VEINS/STOCKWORK WITH MINOR ASSOCIATED PY. WD ON FRACTURE
 R PLANES AND WITH VUGGY QTZ VEINS.
 R 2200 2220 QTZ VEIN, WD, CHL;
 R 2200 2300 POOR RECOVERY, 40 CM.
 R 2500 2530 VERY FRACTURED, ABUNDANT WD.
 P 2530 3410 AL TFLP P= P= D+QCWD
 L K)C+
 R SIMILAR TO TFLP (1.7-16.9). DARK GREY MATRIX WITH DISSEMINATED
 R AND PY BLEBS, FRAGMENTS OF INTERMEDIATE COMPOSITION (60%),
 R CRYSTAL TUFF AND ASH TUFF (40%) ANGULAR TO ROUNDED. QTZ-CB
 R STOCKWORK/MICROVEINS PRESENT BUT NOT AS ABUNDANT AS PREVIOUS.
 R GENERALLY COMPETENT WITH ZONES OF FRACTURING WITH WD. MINOR SE-
 R CHL ALTERATION, PY DISSEMINATED IN MATRIX AND SOME FRAGMENTS UP
 R TO 5%. NO QTZ VUGGY VEINS.
 D 2530 2800 70 X 221
 L 30R3 256 762
 R 2530 2640 FRACTURED, POOR RECOVERY, RQD=0
 D 2800 2935 96 X 000
 L 63R3 287 310
 M 2935 3110 78ALXPHPP 020 P= P= D+QCWD
 L 19R3 311 320 K=C)
 R POSSIBLE BOMB OF PHPP; MAFIC PHENOCRYSTS GRADUALLY BLEACHED TO
 R TRANSPARENT BLEACHED UNIT. SLIGHTLY MORE CB. BLEACHED ZONE 30.4-
 R 31.10, FRACTURED, ORQD.

A001	16.90	20.00	57350	.007	.005
A001	20.00	23.00	57351	.009	.060
A001	23.00	25.30	57352	.016	.120
A001	25.30	28.00	57353	.030	.150
A001	28.00	31.10	57354	.030	.080

GRAPHIC LOG

GRAPHIC LOG



D 3100 3410 90 X 220
 L 85R3 326 231
 R 3220 3300PHPP BOMB.
 P 3410 5285 AL PHPP

P= P= D+QCWD <)
 K=C)

TYPICAL CRYSTAL TUFF, EQUIGRANULAR, UNIFORM, PHENOCRYSTS UP TO 0.4CM IN PLACES. GENERALLY TRANSPARENT, GREY, SOFT, UP TO 30% OF ROCK. PY FINELY DISSEMINATED CRYSTALS, SOMETIMES EQUIGRANULAR BLEBS, MINOR MICROVEINS. IIRREGULAR QTZ-CB VEINS +/-CHL, LITTLE QTZ VEINING. LI/WD COATING FRACTURES, SOME BLEACHED ENVELOPES AROUND FRACTURES.

D 3410 3580 85 X 111
 L 32R3 347 411

CONTACT AT 30 DEGREES AT TOP.
 R 3555 3580SMALL 2 CM VEIN OF TFLP CROSSCUTTING PHPP AT 7-10 DEGREES TO CORE AXIS. CROSSCUT BY SAME QTZ-CB AND PY MICROVEINS. CONTACT SHARP, DEFINED BY LI HAIRLINE FRACTURE AND POSSIBLE SHEARING (VERY MINOR).

A001	31.10	34.10	57355	.050	.260
A001	34.10	35.80	57356	.018	.070
A001	35.80	39.30	57357	.039	.110
A001	39.30	40.50	57358	.036	.070
A001	40.50	44.00	57359	.032	.090
A001	44.00	47.00	57360	.034	.110
A001	47.00	50.40	57361	.065	.430
A001	50.40	52.85	57362	.018	.060

D 3580 3930 82FRXPHPP 211 WD
 L 0R3 381 763 C) C1

HIGH CONCENTRATION OF FRACTURES, MANY PARALLEL TO CORE AXIS WITH EXTENSIVE WD DENDRITIC COATINGS. SOME CY, LI, POSSIBLY SOME MO SMEARS ALONG FOLIATION. UNFRACTURED FRAGMENTS ARE QUITE HARD.

D 3930 4050 83 X 433
 L 19R3 393 221

SLIGHTLY FRAGMENTAL

D 4050 4400 92 X 221 MC
 L 35R3 418 231 C*

MARK AT 43.6 M
 R 4180 4200MC STAINS ON WD FRACTURE SURFACE (FRACTURE PARALLEL CORE AXIS) SOME FLECKS POSSIBLY OF CC.

R 4260 4400MEDIUM CRYSTALLINE WITH BLEBS OF PY POSSIBLY ALTERED FRAGMENTS? IRREGULAR MINUTE CB STOCKWORK VEINING.

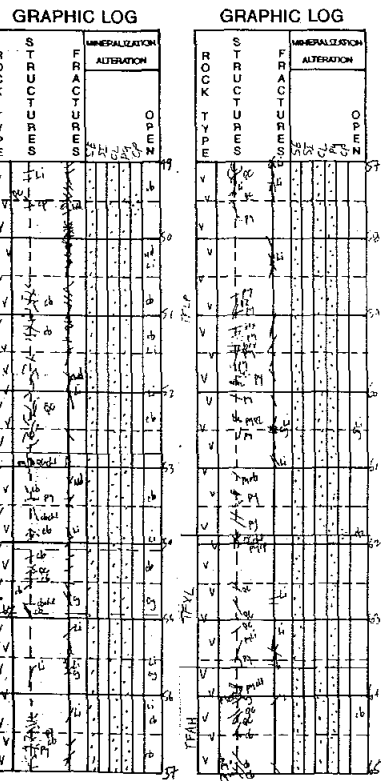
D 4400 4700 95 X 332
 L 56R3 466 231

D 4700 5040 71 X 121 LIWD
 L 6R3 478 332 C=C-

FRACTURE ZONE, MORE LI THAN WD, BLEACHING.

R 4940 4970FRAGMENT RICH LAPILLI TUFF. CP BLEBS AND MICROVEINS, 0.5-1%. SOME QC VEINS, FRACTURED BUT WITH MEDIUM ZONED F-SPAR CRYSTAL TUFF WITH 5% DISSEMINATED PY UNDERNEATH.

R 5000 5040POOR RECOVERY
 D 5040 5285 95 X
 L 57R3 509



P 5285 6730 AL6TFLP P2 P= D=QCLI <+ CL
 L D=QCLI <+ CL
 R Q+C) Q-
 R DARK GREY TO GREEN, MATRIX VERY FINE GRAINED, BLACK WITH
 R DISSEMINATED PY, SOME TF CRYSTAL BOMBS. MAINLY LIGHT COLOUR
 R FRAGMENTS WITH INDISTINCT BOUNDARIES, ELONGATE. UP TO 40% OF
 R ROCK, NOT AS PRISTINE AS PREVIOUS TFLP. MORE SERICITE-CHLORITE-
 R PYRITE, MORE MOTTLED GRANULAR SURFACE, SOME CHLORITE ALTERATION
 R OF FRAGMENTS, MAINLY SERICITIC. SEVERAL FACIES CHANGES (NESTS)
 R IN UNIT. UNIT HARD, COMPETENT. PY SLIGHTLY HIGHER DISSEMINATED
 R BUT HIGHER AS SUBHEDRAL PATCHES AND MICROVEINS ASSOCIATED WITH
 R QTZ AND CB. SOME INTERMIXED PHPP AND TFAH.
 D 5285 5600 99AL6TFLP
 L 69R3 539
 R 5410 5490EQUIGRANULAR MEDIUM GRAINED CRYSTAL TUFF. CHL-SE ALTERATION.
 R SPOTS OF SUBHEDRAL DISSEMINATED PY.
 R 5570 5630MIX OF FINE GRAINED DARK LAPILLI MATRIX AND GREY GREEN MEDIUM
 R CRYSTAL TUFF.
 D 5600 5900 100 X
 L 77R4 570 320
 R POSSIBLY SOME CC AS DISSEMINATIONS?
 R HIGH CONTENT DISSEMINATED PY, SERICITIZED.
 R 5840 58501 CM WIDE VEIN OF BROWN HARD MATERIAL, BRECCIA VEIN?
 D 5900 6180 95 X 120
 L 71R4 600 320
 R 6175 6185QTZ-CB-CHL-PY-CP VEIN/PATCH. PY MAINLY ASSOCIATED IN HOST ROCK,
 R CP AS BLEBS IN VEIN.
 N 6185 6360 100 XPHPP 120 P2 D+QC
 L 82R4 631 202 <-
 R MEDIUM GREY, MEDIUM-FINE GRAINED, UNIFORM, GRAINY APPEARANCE
 R ON SURFACE. NO PY VEINS, MINOR PATCHY TO MICROVEIN QTZ-CB VEIN.
 N 6360 6730 97 XTFAH 231 P2 Q) QCCL Q) LI
 L 74R4 661 121 K+<- C*
 R VERY FINE GRAINED GREEN BROWN MATRIX WITH SMALL INTERBEDDED
 R LAPILLI LAYERS AND FRAGMENTS. COMPETENT, PY AS ISOLATED
 R SUBHEDRAL CLUSTERS WITH ASSOCIATED QTZ-CB-CHL (NOT VEINS) OR AS
 R ALTERATION OF FRAGMENTS IN LAPILLI SECTIONS. SOME LARGER QTZ-
 R CB-CHL VEINS CROSSCUT ROCK, ALL DIRECTIONS. CB AS BRX INFILL IN
 R QTZ. SOME PY ASSOCIATED, VERY UNIFORM, LITTLE CHL ALTERATION
 R EXCEPT ASSOCIATED WITH VEINS AND SOME ALTERATION OF FRAGMENTS.
 R LI COATING ON FRACTURES.
 R 6640 6660SMALL MICROVEINS WITH CENTRAL SUBHEDRAL PY.
 P 6730 7160 CLXPHPP P2 P2 D=QCCLB. LI
 L <)<- C)
 R DARK GREEN, WEAK FOLIATION, SMALL PF AND HORNBLENDE PHENOCRYSTS
 R MINOR QTZ-CB-CHL MICROVEINS. UNIFORM TEXTURE. LAST 50-60 CM OF

A001	52.85	56.00	57363	.093	.190
A001	56.00	59.00	57364	.093	.230
A001	59.00	61.80	57365	.092	0.1000 .200
A001	61.80	63.60	57366	.165	.270
A001	63.60	67.30	57367	.018	.260

R SAMPLE IS LARGE QTZ-CB-CHL MULTIPLE VEINING SYSTEM (60% OF ROCK)
 R PY IS UNIFORM DISSEMINATIONS. SOME CP BLEBS IN QTZ-CB-CHL VEINS.
 D 6730 6950 100 X 132
 L 70R4 692 320
 R 7030 7070 FRACTURED, LI, WD, VUGGY QTZ VEIN WITH TARNISHED PY.
 P 7160 8710 ALTUFF P1 Q+ QC B.Q+ LIKA
 L <=> C-C-

R MEDIUM GREY, VERY UNIFORM, MAY POSSIBLY BE FINE GRAINED PHPP,
 R FEW FRAGMENTS, LITTLE DISSEMINATED PY. QC STOCKWORK +/-CHL, PY,
 R CP. 3 TYPES OF CHL: 1) MINOR PERVASIVE, 2) DARK GREEN FINE
 R CRYSTALS MICROVEIN ASSOCIATED WITH QTZ VEIN WITH CB INFILL, CP.
 R 3) BLACK MASSES AND MICROVEINS ASSOCIATED WITH SUBHEDRAL PY WITH
 R VEINS/PATCHES +/-QTZ-CB. SOME VEINS CONTAIN BRECCIATED WALL ROCK
 R (BLACK CHL) FRAGMENTS (GREEN BROWN STREAK ON PAPER) PY MAINLY AS
 R SUBHEDRAL VEINS WITH BLACK CHL, QTZ-CB INTERSTITIAL BETWEEN
 R CRYSTALS GRADING UP TO VEINS. SOME CP? QTZ-CB (ASSOCIATED WITH
 R CHL 2) VEINS LOOK EXTENSIONAL (IE; 84.4-85.2)

R 7160 7300 LAPILLI TUFF? MUDFLOW? BROWN MATRIX, VARIOUS CLOSELY PACKED
 R ANGULAR FRAGMENTS; SOME RHYOLITE, BLACK SILSTONE? INTERSTITIAL
 R PY. CONTACT SHARP AT 50 DEGREES.

D 7160 7460 93 X 131
 L 88R3 722 000
 D 7460 7700 88 X 131
 L 79R3 753 100

R 7640 7641 BLACK CHLORITE WITH PY FORMING ENVELOPE AROUND FRACTURE.
 R 7670 7680 LARGE 5 CM VEIN OF SUB-EUHEDRAL PY WITH INTERSTITIAL CB, CHL3 AT
 R 45 DEGREES. VEINS ARE CROSSCUTTING (AFTER) QTZ-CB STOCKWORK.

D 7700 8000 93 X 231
 L 72R3 783 120

R 7710 7800 ONE QC VEIN WITH BLACKISH ENVELOPE. LARGE VERTICAL FRACTURE.
 R SIMILARLY BELOW. SPADIC BLACK CHLORITE ASSOCIATED WITH PY
 R THROUGHOUT INTERVAL.

D 8000 8300 93 X 231
 L 80R3 814 210

R 8120 8150 VERY HIGH SUBHEDRAL PY CONCENTRATION WITH CB INTERSTITIAL AND LARGE
 R BLACK CHLORITE ENVELOPE WITH DISSEMINATED PY. BOTTOM CONTACT
 R VERY SHARP, 20% TO CORE AXIS.

R 8150 8180 LARGE QTZ +/-CB WITH PY-CHL3 ASSOCIATION. VERY IRREGULAR.

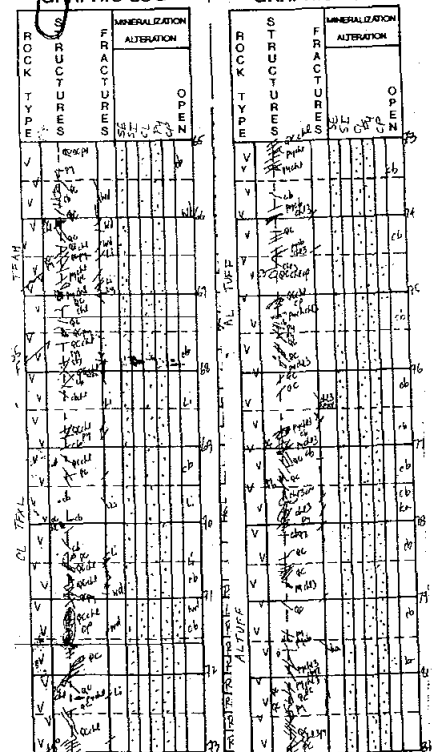
D 8300 8570 91 X 122
 L 74R3 844 310

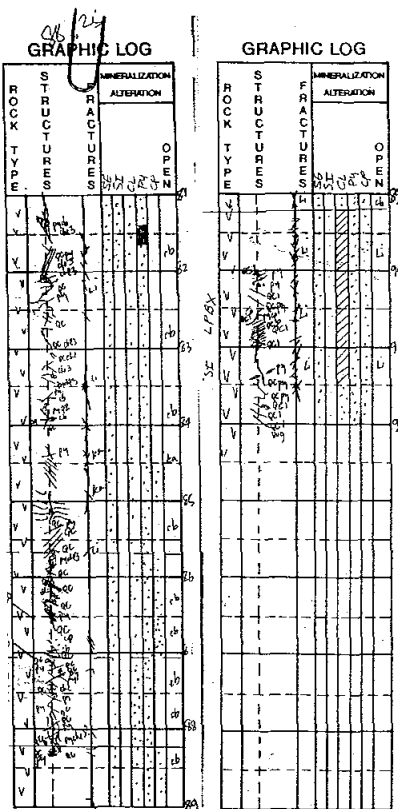
R CROSSCUTTING RELATIONSHIPS VARY BETWEEN QTZ-CB AND PY-CHL3 VEINS
 R 8440 8570 HIGH CONCENTRATION OF QTZ +/-CB INFILL VEINING/SHEETING.
 R GENERALLY <.3 CM, AT 45-50 DEGREES TO CORE AXIS; 55-60 DEGREES
 R AT 85 M, 35 DEGREES AT 85.7 M. LARGE QC VEIN PARALLEL TO CORE
 R AXIS, CROSSCUTS SHEETING, CAUSES DRAG, MINOR CROSSCUTTING PY

A001	67.30	69.50	57368	.023	.330
A001	69.50	71.60	57369	.026	.300
A001	71.60	74.60	57370	.034	.480
A001	74.60	77.00	57371	.049	.240
A001	77.00	80.00	57372	.005	.180
A001	80.00	83.00	57373	.005	.560
A001	83.00	85.70	57374	.017	.180

GRAPHIC LOG

GRAPHIC LOG





R VEINS, CP ASSOCIATED WITH PY VEINS-BLEBS.
D 8570 8710 100 X E1CLQC
L 71R3 020 E1K1
R PTYMATIC, IRREGULAR QTZ+/-CB VEINS WITH ASSOCIATED BLACK CHL3
R ENVELOPE WITH DISSEMINATED PY. HIGH CONCENTRATION, SOME CP.
R DULL GREY, UNALTERED AL TUFF BETWEEN AREAS OF PY-CHL3, CONTAINS
R QTZ-CB STOCKWORK BUT WITHOUT CHL3-PY ENVELOPE. ENVELOPE OVER-
R PRINTS QTZ-CB STOCKWORK IN PLACES.

R 8650 8651 CONTACT? ELONGATE ROUND LAPILLI TUFF BELOW WITH BLEB OF CP+/-
R CB. FRAGMENTS ARE AL TUFF CONTACT CROSSCUTS STOCKWORK.
P 8710 8825 96DCXPHP 221 P2 P2 QCCL <)
L 87R3 875 010 K+<)
R MEDIUM GREEN, LIGHT GREEN, BLEACHED AREAS, WEAK FOLIATION,
R PORPHYRYTIC WITH CLEAR ALTERED EUHEDRAL RECTANGULAR PHENOCRYSTS.
R DISSEMINATED PY IN GREEN AREAS, PY MICROVEINS-PATCHES IN
R BLEACHED AREAS. MINOR QC STOCKWORK. TWO QC STOCKWORK: 1) WHITE
R CLEAR QTZ WITH CB BRX INFILL, MORE PATCHY, IRREGULAR. POSSIBLY
R ASSOCIATED WITH PY?
R 2) MILK QTZ WITH YELLOW CB, STRAIGHT VEINS AT 50 DEGREES, CROSS-
R CUT PY AND QC1

A001	85.70	87.10	57375	.456	.430
A001	87.10	88.25	57376	.024	.080
A001	88.25	89.20	57377	.556	.180

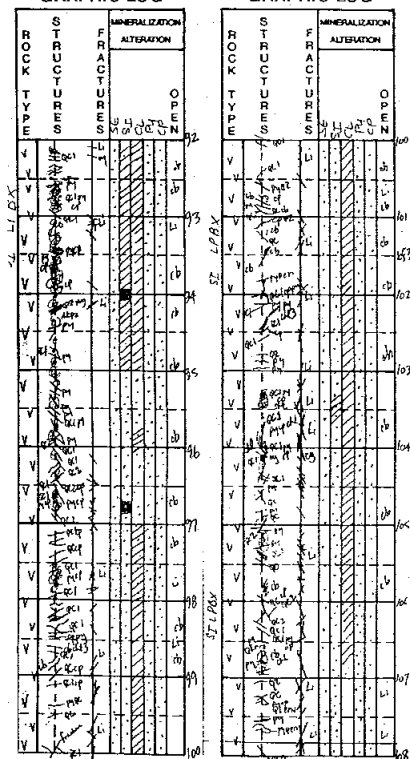
P 8825 8920 95 XTFLP 000 P2 P1 D=QC B*Q+
L 63R3 311 Q)
R MORE SERICITIC, MOTTLED DARK GREY WITH VAGUE ZONES SIMILAR TO
R ABOVE PHPP BUT ALSO CONTAINS SOME OTHER FRAGMENTS. MINOR QC
R PATCHES. PY PATCHY WITH QC AND DISSEMINATED THROUGHOUT CP BLEBS.

P 8920 10790 SIXBXL P1P2P3 D+QCCLB) <+ LI
L <=<* C+
R DARK GREEN-MEDIUM GREY GREEN, VERY MOTTLED, PATCHY ORIGINAL ROCK
R TYPE VARIABLE: MAINLY DC PHPP TO 98.50, LAPILLI TUFF TO 107.90.
R VERY DIFFICULT TO TELL. BUT LAPILLI TUFF SLIGHTLY LESS CHLORITIC
R SILICIFICATION AND QTZ VEINS WITH CB BRX INFILL: PERVASIVE TO
R PATCHY STOCKWORK. ASSOCIATED WITH CP-PY BLEBS, MICROVEINS AND
R PATCHES. MINOR LATER QC + DARK GREEN CHL VEINS CROSSCUT, CONTAIN
R MINOR CP BLEBS. CP AS BLEBS IN QTZ-CB-BRX VEINS AND RIMMING CHL
R ROCK FRAGMENTS IN SILICIFIED/QTZ VEIN AREAS. PY AS ASSOCIATED
R MICROVEINS AND INDIVIDUAL SUBHEDRAL MICROVEINS IN ALL DIRECTIONS
R PY POSSIBLY CROSSCUT QC BRX VEINS WITH CP. CP DECREASE WITH
R DEPTH AS DOES SILICIFICATION/QTZ CB BRX VEINS. ALL FRACTURES
R COATED WITH LI. QC BRX=QC1, QC WITH CHL=QC2. GLEN'S SUGGESTION:
R WHOLE INTERVAL IS SLUMP BRXX. ENTIRE ROCK HAS BEEN BRECCIATED
R WITH QC INFILL, BUT SOME PATCHY TO PERVASIVE SILICIFICATION
R INFILLING BRECCIATION. POSSIBLY SOME BLACK CHLORITE ASSOCIATED
R WITH MINERALIZATION. POSSIBLY SOME KF ALTERATION RIMMING BLACK
R CHL BLEBS.

D 8920 9200 79 X 1X 1

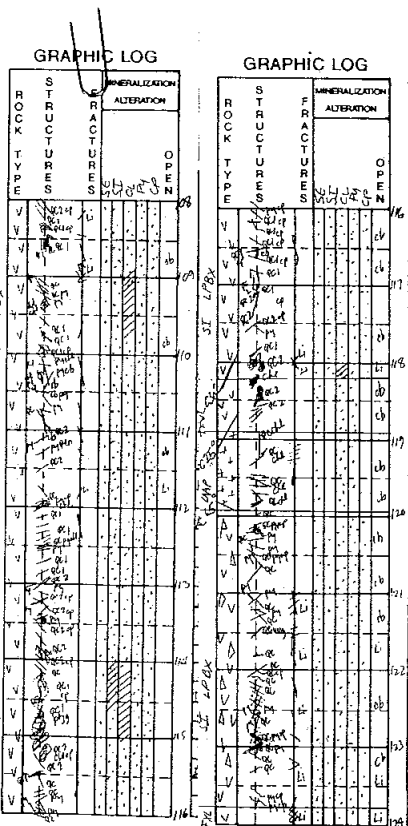
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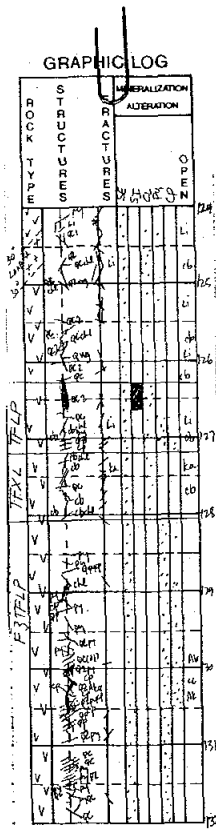
L 45R3 905 23 1
R 8920 900050 CM CORE, FRACTURE, LI COATINGS, SOME QTZ FRAGMENTS.
R 9050 9100DISTINCT (QC1?) SHEETING/HAIRLINE FRACTURES AT 55 DEGREES,
R CROSSCUT BY OTHER QC1+/-PY STOCKWORK.
R 9150 9200LAPILLI TUFF.
D 9200 9500 95 X
L 83R3 936 121
R HEAVILY CHLORITIZED-SILICIFIED WITH PY-CP. QC1 VEINING EXTENSIVE
R MANY QC1 VEINS AT 50-60 DEGREES.
R 9440 9441POSSIBLY QTZ, ORANGE YELLOW AK VEIN CROSSCUT BY SUBHEDRAL PY VEI
D 9500 9800 95 X 231
L 62R3 966 121
D 9800 10100 98 X 232
L 58R3 997 321
A003 9800 10100 40
R 9900 PATCHY SILICIC ALTERATION.
D 10100 10400 91 X 231
L 50R3 1027 321
R 10130 10180SILICIFIED, WITH BLACK CHL ASSOCIATED WITH SUBHEDRAL PY. SLIGHT
R PINKISH NATURE TO MATRIX, MAYBE PERVASIVE KF ALTERATION! SOME PY
R MICROVEINS SHOW QTZ ENVELOPES. VERY COMPETENT ROCK.
R 10200 10201BRECCIATION POSSIBLY AFTER OR SYNONYMOUS WITH QC1: QC1 PY-CP
R VEIN CROSSCUT BY FRAGMENT. FRAGMENT ALSO CONTAINS VEINS THAT
R STOP AT CONTACT.
R UNALTERED MATERIAL RESEMBLES DULL GREY AL TUFF ABOVE THIS PGI.
R 10320 10350QTZ VEIN, BRECCIATED, PY, CP INFILL, SOME BLACK AND DARK GREEN
R CHLORITE. SOME CENTRAL PY, CP AT CONTACTS WITH QTZ AND PERVASIVE
R GREEN CHL.
D 10400 10790 100 X 232
L 57R3 1058 321
R 10500 17000CB LESS DOMINANT, MORE PERVASIVE SILICIFICATION.
R 10580 10583YELLOW CB-QTZ TENSION GASHES.
R 10750 10800POSSIBLY KF ALTERATION WITH SILICIFICATION. CHL PERVASIVE BUT
R IN SPOTS THROUGHOUT.
P 10790 11810 SIXBXP P1 P1 D+CLL1B-<) QC
L <)C* <=
R SIMILAR TO PREVIOUS UNIT EXCEPT MUCH LESS CHLORITE PERVASIVE
R ALTERATION BUT STILL PRESENT AS BLACK CHL SPOTS AND DARK GREEN
R IN QC2 VEINS. PERVASIVE SI ALTERATION, POSSIBLY SOME KF, SPOTTY
R Q CARBONATE VEINS MAINLY AS MICROVEINS, NOT NEARLY AS EXTENSIVE
R AS PREVIOUS PGI. ROCK NOT AS BRECCIATED, MORE QTZ-CB-CHL (QC2)
R VEINS. SOME CP BLEBS. SOMME DISSEMINATED PY AND AS SUBHEDRAL
R PATCHES. CP AS BLEBS IN BOTH QC VEINS. SOME CHLORITIZED PATCHES.
D 10790 11100 92 X 221
L 69R3 1088 221

A001 89.20 92.00 57378 .600 .450
A001 92.00 95.00 57379 2.840 1.010
A001 95.00 98.00 57380 1.780 .450
A001 98.00 101.00 57381 .828 .340
A001 101.00 104.00 57382 .912 .480
A001 104.00 107.90 57383 .952 .430
A001 107.90 111.00 57384 1.260 .520



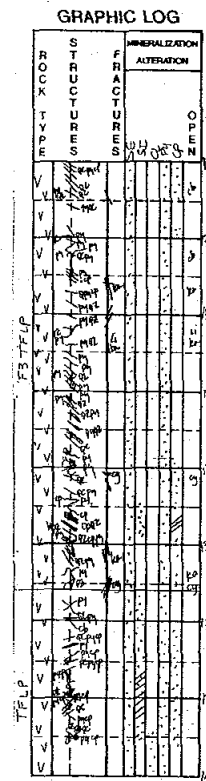
- R 10840 10860QTZ-CB(1) VEINS, IRREGULAR, PARALLEL TO CORE AXIS.
- R 10890 10950CHLORITIC, SIMILAR TO PREVIOUS PGI, BLACK CHL SPOTS, HEAVILY BRECCIATED, QTZ (CLR-MILKY) WITH CB, PERPENDICULAR INFILL. CHLORITIZED GREATEST PROXIMAL TO QC1 VEINS.
- R 11028 11032CHL CLUSTER WITH QC1 VEINS, POSSIBLY KF, ENVELOPES SURROUNDING CHL-PY CLUSTER.
- R 11050 11100BLACK CHL SPOTS, FEW FRAGMENTS, QTZ VEINS ARE VERY CLOUDY, VAGUE
- D 11100 11400 93 X 231
- L 87R3 1119 200
- R 11350 11351QC2 VEINS WITH CP BLEBS, CROSSCUT BY PY SUBHEDRAL MICROVEINS, PATCHES.
- R 11400 11810 100 X 232
- L 94R3 1149 110
- R 11420 11450BRECCIATED QTZ VEINS WITH PY-CP, CROSSCUT BY LATER QTZ-CB-CHL VEIN AT PARALLEL FOLIATION.
- R POSSIBLE CORRELATION BETWEEN CHL-BRXQZ-CP?
- R 11600 11680POSSIBLY KF ALTERATION, HARD, PINK GREY (VAGUE) MATRIX.
- P 11810 11890 100CLXPHP 020 P2 D=QCCL
- L 100R3 000 D1 Q1<-
- P 11890 11990 100 XLAAP 223 P2 D)QCCL
- L R3 200 Q1<=
- R DARK GREEN, UNIFORM WITH MINOR DISSEMINATED PY, ABUNDANT IRREGULAR QTZ-CB-CHL VEINS. SOME LIGHT GREEN BLEACHING AROUND VEINS. HAIRLINE FRACTURE PATTERNS AT 60-70 DEGREES, CROSSCUT BY VEINS, RELIC PORPHYRITIC TEXTURE? MAY EXIST AT BOTTOM. SMALL PHENOCRYSTS, ALMOST LIKE CRYSTAL TUFF. CONTACT SHARP AT BOTTOM AT 65 DEGREES.
- P 11990 12380 96SIXBXL P 133 P1E1P2 D=QCCLB.<=
- L 49R3 1210 121 <<Q=
- R SIMILAR TO LPBX ABOVE, VERY VARIABLE WITH SPORADIC CHLORITE ALTERATION. SILICIFICATION MAINLY RESERVED FOR ENVELOPES AROUND QC VEINS. BLACK CHLORITE PATCHY, ASSOCIATED WITH SUBHEDRAL PY CONCENTRATIONS AND DISSEMINATIONS. CP AS BLEBS IN QTZ VEINS WITH CB INFILL. ALTERATION AND AMOUNT OF FRAGMENTS VARY, POSSIBLY SOME CRYSTAL TUFF CP NOT AS ABUNDANT AS PREVIOUSLY
- R 11990 12090PY RICH, CHL RICH (WITH CP)
- R 12370 12380HEAVILY OXIDIZED VUGGY QTZ VEIN WITH MC AND CHALCANTHITE COATINGS (LIGHT BLUE)
- P 12380 12630 84MGXPHP 222 P2 P= QCCL B* LI
- L 25R3 1240 332 <<<> C+
- R FINE TO MEDIUM GRAINED, MEDIUM GREY, UNIFORM, MIX OF PF (TRANSPARENT) AND MAFIC LATHE PHENOCRYSTS. HEAVILY FRACTURED FROM 40-20 DEGREES, WITH LI COATINGS. MAINLY SERICITIC ALTERATION. FEW SULPHIDES EXCEPT MINOR BLEBS-MICROVEINS IN

A001	111.00	114.00	57385	1.700	.780
A001	114.00	118.10	57386	1.640	.560
A001	118.10	118.90	57387	.100	0.1030
A001	118.90	119.90	57388	.008	.030
A001	119.90	123.80	57389	.592	.410
A001	123.80	126.30	57390	.046	.140



R MATRIX. BOUNDED BY FRACTURED ZONE AT TOP, LARGE QC-CHL VEIN AT
R BOTTOM (CONTACT NOT SEEN). MAINLY QC-CHL VEINS THROUGHOUT, SOME
R VUGGY QTZ (QC17).
R 12445 12475LAAP, FRACTURED, BOTH CONTACTS AT 30 DEGREES.
P 12630 13760 F3XTFLP P1Q1P1 D+QCLIB)<= AKKA
L <)<C)<+ <-
R GREY-GREY GREEN, MODERATELY PATCHY FOLIATION, FRAGMENTS
R GENERALLY SMALL, CHLORITIZED, <10% OF MATRIX. PERVASIVE CHLORITE
R ALTERATION IS PATCHY, MINOR SILICIFICATION. ABUNDANT PY
R SUBHEDRAL MICROVEINS-PATCHES IN ALL DIRECTIONS, LARGER ONES WITH
R INTERSTITIAL QTZ. SOME EXTENSION AND QTZ INFILL. QTZ-CB BRECCIA
R VEINS CONTAIN MINOR CC AND PY. CB NOT AS ABUNDANT, MAY HAVE BEEN
R LEACHED OUT. ANKERITE (YELLOW) DOMINATES OVER WHITE CB-QC VEINS
R <0.5 CM WIDE. CP AS BLEBS ASSOCIATED WITH PY MICROVEINS AND QTZ
R +/-CB BRX VEINS. MINOR CP VEINING. INTERVAL PATCHY AND MOTTLED,
R NOT A PRISTINE TFLP. MINOR SPOTS OF EP (FU?).
D 12630 12810 100 X 332
L 25R3 1271 221
R 12630 12670QTZ-CB-CHL VEIN AT CONTACT WITH PHPP, IRREGULAR.
R 12670 12720F3TFLP
R 12720 12810PHPP WITH QC VEINING, SIMILAR TO 123.80-126.30
D 12810 13100 98 X 231
L 89R3 1301 021
R 13020 13060TWO VEINS:1) MILKY QTZ WITH CENTRAL AK WITH DISSEMINATED CC
R CRYSTALS AND CP BLEBS. CROSSCUTS PY VEINS IN MATRIX. 2) LOWER
R BRX QTZ VEIN WITH EP-PY MICROVEINS, MINOR CB, AK.
D 13100 13400 97 X 231
L 88R3 1332 220
D 13400 13760 98 X 242
L 74R3 11362 321
R 13540 13555PY SUBHEDRAL VEINS, BRECCIATED WITH QTZ INFILL PERPENDICULAR TO
R EDGES.
R 13550 13600GOOD LAPILLI TUFF.
R 13660 13670TWO VERY FINE CP VEINS (2 CM WIDE) AT 65 DEGREES ASSOCIATED
R INTIMATELY BUT IRREGULARLY WITH BRX QTZ VEINS WITH FINE CP
R PY IN CRACKLE CRACKS. POSSIBLY ASSOCIATED KF PERVASIVE
R ALTERATION SURROUNDING VEINS (PINKISH HARD MATRIX) FROM (136.4
R TO 136.8 M)
R 13700 13710SLIGHT VUGGY QTZ VEIN, BLEBS OF CP, MICROVEIN CC. FRACTURED
R BELOW.
E 13760 14230 XTFLP P1Q1Q2 <*<
L
R SIMILAR TO PREVIOUS, LOSS OF FOLIATION, MORE MOTTLED, CB MORE
R PERVASIVE, MORE QTZ VEINING. PROGRESSIVELY MORE CHLORITIZED
R AND BRECCIATED.

A001	126.30	128.10	57391	.262	.320
A001	128.10	131.00	57392	.968	.390
A001	131.00	134.00	57393	.608	.390
A001	134.00	137.60	57394	.944	1.080



D 13760 13970 100 X 333
 L 100R3 1392 000
 D 13970 14230 96 X 232
 L 86R4 1423 210
 R MORE CHLORITE, SPORADIC BRECCIATION, MAINLY WELL FOLIATED.
 P 14230 16020 XBXP P1Q+P2 D=QC B*=<=<
 L <1

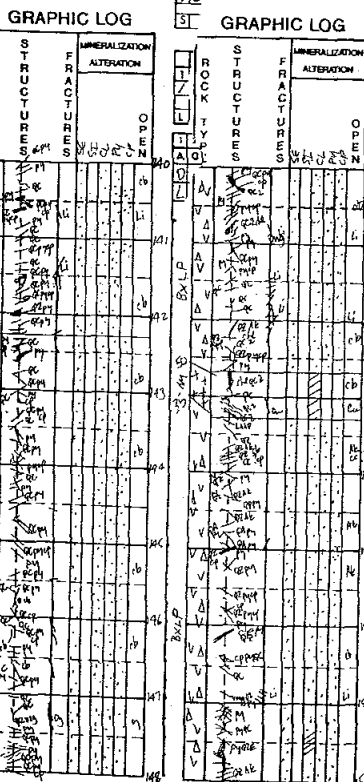
R SIMILAR TO PREVIOUS BXLP (89.20-107.90) WITH ONLY SPORADIC
 R SILICIFICATION, MAINLY ENVELOPES. CHLORITIC, SPOTTY, MOTTLED
 R TEXTURE. ABUNDANT CROSSCUTTING QTZ-CB BRXX VEINS, MOST FRAGMENTS
 R ALTERED TO CHL+/-PY. LACK OF FOLIATION. PY AS ALTERATION, FINE
 R DISSEMINATIONS IN VEINS ASSOCIATED WITH QC VEINS AND AS SEPARATE
 R MICROVEINS WITH DEPLETED QS ENVELOPES. CP MAINLY BLEBS
 R ASSOCIATED WITH PY AND QC VEINS. LATER YELLOW CB-QTZ PATCHES.
 R LESS SI AND BRECCIATION THAN OTHE BXLP, MAY JUST BE TFLP WITH
 R CHL. SOME POSSIBLE KF PATCHY ALTERATION OF MATRIX SEEN AS
 R PINKISH HARD SECTIONS.

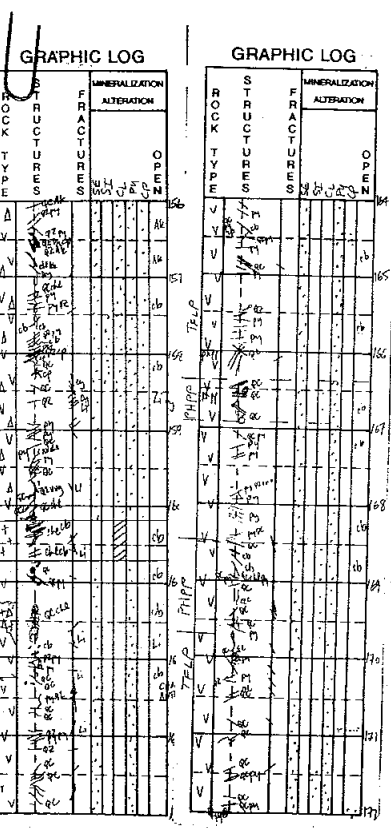
A001	137.60	139.70	57395	1.180	.290
A001	139.70	142.30	57396	.700	.280
A001	142.30	145.30	57397	.644	.280
A001	145.30	148.40	57398	.788	.250
A001	148.40	150.70	57399	.684	.320
A001	150.70	151.30	57400	.060	.040
A001	151.30	154.00	57401	.612	.230

D 14230 14530 94 X 231
 L 81R4 1453 000
 R 14370 14400 FELDSPAR PORPHYRITIC UNIT, HIGH CONCENTRATION OF PY AND CP
 R MICROVEINS AND BLEBS.
 D 14530 14840 97 X 232
 L 83R4 1484 020
 D 14840 15070 91 X 232
 L 65R4 121

R PY-CP OFTEN CENTRAL IN BRECCIATED QTZ +/- CB VEIN.
 R 14840 14850 WELL DEVELOPED QS ENVELOPES ON PY VEINS.
 R 14900 14910 PY MICROVEINS CROSSCUTTING QC BRX VEIN BUT BRX CROSSCUTTING
 R SIMILAR PY MICROVEIN, THEREFORE PY AND QC BRX VEINS INTIMATELY
 R ASSOCIATED!
 R 15070 15130 100AMXLAAP 242
 L 100R3 100
 R FINE GRAINED, DARK-MEDIUM GREEN, UNIFORM, SMALL AMYGDULES WITH
 R CB INFILL WITH CHL SELVAGE. QTZ-CB-CHL VEINS (IRREGULAR) COMMON.
 R UPPER CONTACT AT 50 DEGREES, LOWER AT 35-40 DEGREES, NATIVE
 R COPPER ON ONE FRACTURE SURFACE. BOTTOM CONTACT BRECCIATED,
 R TRUNCATES QC BRECCIATED VEIN WITH CENTRAL PY FROM UNIT BELOW,
 R THEREFORE MUCH YOUNGER.

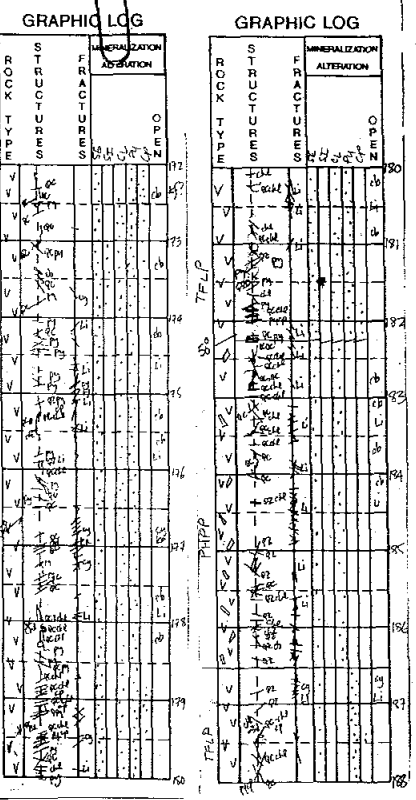
A003 15070 15130 70
 D 15130 15400 100 X 231
 L 93R4 1515 010
 R 15300 15410 MAFIC PHENOCRYSTS CRYSTAL TUFF.
 R POSSIBLY KF ENVELOPES AROUND PY VEINS. MAY JUST BE DEPLETION
 R ZONE.
 D 15400 15700 91 X 342





L 76R 1545 020
R 15560 15580LARGE MILKY QTZ WITH ANKERITE PATCHES AND CHL. SOME CP BLEBS.
D 15700 16000 94 X 232
L 89R3 1576 220
R CHLORITE ALTERATION DECREASING TO END OF INTERVAL (PGI).
R 15720 15745POSSIBLY SOME VERY SOFT TALC ALTERATION OF FRAGMENTS.
R 15800 15805QTZ BRECCIATION VEIN WITH ADJACENT CP VEIN. ABUNDANT CP 158.0
R TO 158.5. MAY BE INTERSTITIAL BETWEEN FRATMENTS.
R 16010 16020LARGE QTZ-CB-CHL VEIN CROSSCUT AND TRUNCATED BY LOWER PGI.
R TRUNCATED AT 85 DEGREES TO CORE AXIS.
P 16020 16070 100FGXLAAP XXX <1 QCLI
L 70 1606 111 <<C-
R MEDIUM LIGHT GREEN, VERY UNIFORM, NO SULPHIDES. CROSSCUT BY
R ANGULAR DARK GREEN CHL VEINS +/-QC. SOME VEINS SHEET LIKE AT 40
R DEGREES TO CORE AXIS. CONTACTS SHARP.
P 16070 18230 SE TFLP P2Q)Q+ D=QC B.<=
L <<
R SERICITIC, LIGHT GREY, SLIGHTLY MORE CHLORITIC WITH DEPTH,
R COMPETENT. FRAGMENTS GENERALLY FELSIC WITH CHL-TALC? ALTERATION
R TOWARDS BOTTOM, GIVES DARKER LOOK TO ROCK. MODERATE FOLIATION,
R FRAGMENTS ELONGATE. PY PRODUCES FINE DISSEMINATED MESH WITH
R LOCAL CONCENTRATIONS ALONG FOLIATION. PY INCREASES AS ALTERATION
R OF FRAGMENTS WITH INCREASE IN CHL, BECOMES MORE PATCHY AND
R BLEBBY. QTZ VEINS WITH CB BRECCIATED INFILL SMALL, UP TO 5% OF
R ROCK. QTZ VERY MILKY. POSSIBLY SOME SILICIFICATION? PERSVASIVE.
R FOLIATION MAINLY AT 50-60 DEGREES.
D 16070 16400 100 X 232
L 67R3 1637 121
R 16130 16170BRECCIATED LAAP, ANGULAR FRAGMENTS UP TO 2 CM INFILLED WITH
R LIGHT YELLOW CB, SOME QTZ, VERY FINE GRAINED CHL, CONTACTS WITH
R HOST ARE SHARP, VERY IRREGULAR.
R 16220 16250FOLIATION PERPENDICULAR TO CORE AXIS, WITH BLEBS OF YELLOW CB
R (NOT AK) AND QTZ FRACTURES COATED WITH LI, CHALCANTHRITE.
D 16400 16700 100 X 123
L 95R3 1667 010
R 16590 16620PHPP, VAGUE BOUNDARIES, LITTLE PY.
R 16640 16690PHPP, HORNBLLENDE AND PP PHENOS VISIBLE.
D 16700 17000 96 X 231
L 88R3 1698 210
R 16850 16970PHPP, VERY UNIFORM WITH FINE DISSEMINATED PY 2-5%, QC+/-CHL
R VEINS, HORNBLLENDE AND PF CRYSTALS VISIBLE. SLIGHT CHL ALTERATION
R (PERSVASIVE).
D 17000 17300 100 X 131
L 92R3 1728 020
R 17200 17250POSSIBLY PATCHY KF ALTERATION IN GOOD TFLP. SOME SMALL BLEBS CP

A001 154.00 157.00 57402	.560	.180
A001 157.00 160.20 57403	.696	.260
A001 160.20 160.70 57404	.030	.030
A001 160.70 164.00 57405	.644	.500
A001 164.00 167.00 57406	.340	.240
A001 167.00 170.00 57407	.188	.140
A001 170.00 173.00 57408	.400	.100



R FINE NETWORK OF PY VEINS AND CONCENTRATIONS UP TO 10%. CORE IS
R NOT SCRATCHABLE, MAY ALSO BE SILICIFIED. CHLORITE ALTERATION
R INCREASES PAST THIS POINT. CP AS BLEBS MORE COMMON.

D 17300 17600 93 X 132
L 63R3 1759 221

D 17600 17900 100 X
L 67R3 1789

R 17700 17830 LAPILLI TUFF WITH HIGH CONCENTRATION OF BLACK CHL ALTERED
R ELONGATE FRAGMENTS WITH DISSEMINATED PY ALTERATION, SOME
R ASSOCIATED GREEN MICA. WELL FOLIATED AT 45-50 DEGREES.
R MANY QC VEINS HAVE ASSOCIATED DARK GREEN CHL.

D 17900 18230 97 X 332
L 66R3 1819 222

R 18040 18160 FRAGMENTS ALTERED TO PY + GREENISH CHLORITE. HAVE SEPARATE
R GREEN CHL MICROVEINS. ABUNDANT DISSEMINATED AND CONCENTRATIONS
R OF PY.

R 18180 18200 HIGH CONCENTRATION OF MILKY QTZ WITH CHL, MINOR CB AND CP BLEBS.
R HOST ROCK SERICITIC, POSSIBLY BLEACHED.

P 18230 18650 91 HBXLAPP 222 P= D= D)QCLI CL
L 37R3 1847 242 KIC= <)

R SLIGHTLY PORPHYRITIC, BOTH HORNBLLENDE AND PF; UP TO 0.3 MM.
R HORNBLLENDE UP TO 15% PF UP TO 10%. VERY FINE GRAINED TO MEDIUM
R GRAINED VARIES AND CHANGES RAPIDLY. FINER SECTIONS LACK
R HORNBLLENDE PHENOCRYSTS, ARE GREY GREEN COLOUR, COARSER UNITS
R HAVE WELL DEVELOPED HORNBLLENDE PHENOCRYSTS, ARE MUCH GREYER IN
R COLOUR. NO NOTICEABLE FRAGMENTS. COARSER THAN USUALLY SEEN. TOP
R AND BOTTOM CONTACTS OF PGI ARE SHARP. HEAVILY FRACTURED 184.3-
R 186.5, LI COATINGS AND BLEACHING. ABUNDANT QTZ-CB VEIN/STOCKWORK
R QTZ CLEAR TO WHITE WITH WHITE CB BRECCIATED INFILL +/- CHL.
R ALSO HAVE YELLOW CB +/- QTZ VEINS ALONE OR SOMETIMES ASSOCIATED
R WITH OTHER Q-CB VEINS. CB LEACHED OUT IN FRACTURED ZONE ->VUGGY
R QTZ VEINS. MINOR PY DISSEMINATED, NO OTHER MINERALIZATION, NO
R NOTICEABLE FOLIATION/ALIGNMENT, FRACTURED IN ALL DIRECTIONS.

P 18650 19895 ALXTFLP P= D) D+QCCLB.<= LIKA
L G) <)- C)C-

R SIMILAR TO PREVIOUS PGI, MAINLY SERICITIC BUT RELATIVELY HARD/
R COMPETENT, POSSIBLY SOME KF OR SILICA ALTERATION. MINOR BANDS
R OF CHL ALTERATION OR AS ALTERATION JOF FRAGMENTS. WEAK-MODERATE
R FOLIATION AT 50 DEGREES. FRAGMENTS GIVE PATCHY, MOTTLED LOOK.
R GREY TO DARK BROWN GREY. PY DISSEMINATED THROUGHOUT FRAGMENTS,
R SOME MICROVEINS CLEAR-MILKY QTZ AND WHITE CB +/- CHL VEINS VERY
R ANGULAR WITH SHARP CONTACTS. MEDIUM ANGLE TO CORE AXIS. LATER
R MOVEMENT TRUNCATES SOME OF THESE VEINS. EP ASSOCIATED AS BLEBS.

R 18780 18800 PY VEIN, MINOR CP?, POSSIBLY WITH KF OR SI ENVELOPE. ALTERNATE
R CROSSCUTTING WITH QC VEINS.

A001 173.00	176.00	57409	.252	.120
A001 176.00	179.00	57410	.464	.120
A001 179.00	182.30	57411	.352	0.3520
A001 182.30	186.50	57412	.021	.110

GRAPHIC LOG

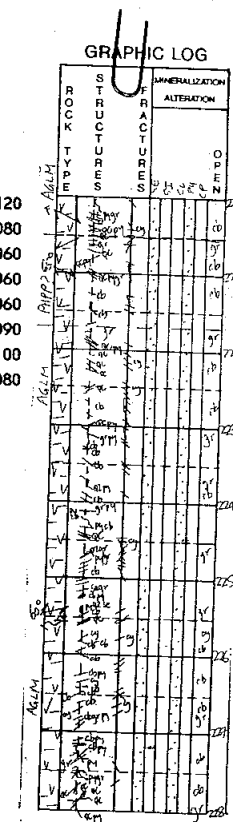
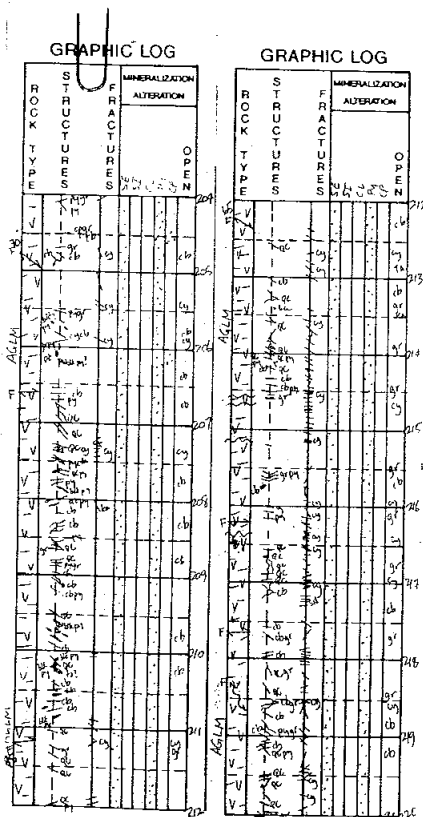
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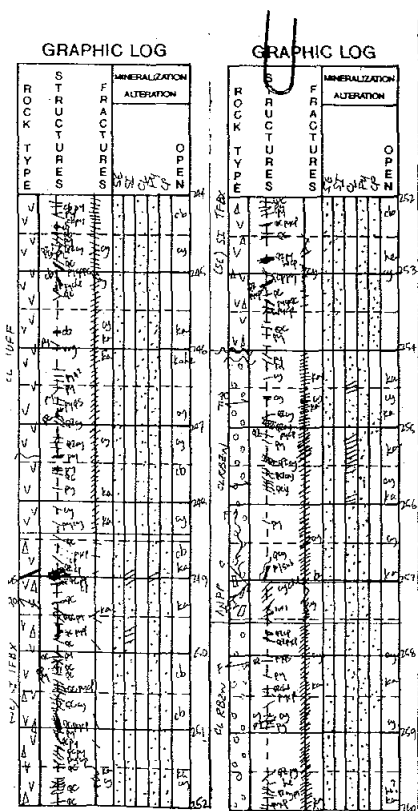
ROCK TYPE	STRUCTURES	FRACTURES	MINERALIZATION ALTERATION			OPEN
			CU	PY	CHL	
V						96
V						97
V						98
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V						100
V						101
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V						413
V						414
V						415
V						

D 20340 20630 95 X 022
 L 83R3 2063 020
 R 20449 20450 MICROVEIN? OF CP ASSOCIATED WITH MINOR GRAPHITE, CB.
 R 20600 20620 SUBROUND CLASTS UP TO 2 CM, QTZ FRAGMENTS COMMON, SOME CHL,
 INTERSTITIAL CP BLEBS, 70% FRAGMENTS.
 D 20630 20990 99 X 122
 L 87R3 2093 011
 R 20748 20750 POSSIBLE DETRITAL PY GRAINS, ROUNDED.
 R FOLIATION INCREASING THROUGH DITTO INTERVAL.
 R 20950 20975 HIGH CONCENTRATION OF SOFT BLACK TRANSPARENT STUFF WITH
 DISSEMINATED PY, IRREGULAR TO ELONGATE SHAPES. SHARP CONTACTS.
 D 20990 21300 94 X 021
 L 61R3 2124 032
 R BANDING, FOLIATION HAS INCREASED. POSSIBLY SOME TALC ASSOCIATED
 WITH BLACK SFT STUFF WITH PY.
 R 21200 21230 QTZ RICH FRAGMENTAL SECTION, SUBANGULAR WITH INTERSTITIAL FINE
 GRAINED AND SUBHEDRAL DISSEMINATED PY. POSSIBLY SOME CP.
 D 21300 21600 93 X 120
 L 16R2 2154 125
 R WELL BANDED, INTENSE GRAPHITE STARTS AT 214.5, UP TO 10-15%,
 FOLIATION PERPENDICULAR TO CORE AXIS.
 R 21350 21370 SEVERAL QC VEINS, CROSSCUT FOLIATION, CENTRAL QTZ, OUTER
 YELLOWISH CB.
 R 21550 21552 GRAPHITE WITH SUBHEDRAL PY LAYERS. OFFSET BY HEALED FRACTURE AT
 30 DEGREES TO CORE AXIS.
 D 21600 21900 97 X 122 P1
 L 22R2 2185 224
 R 21700 21900 LOSS OF SOME GRAPHITE, HARDER, MORE COMPETENT. SOME SAND AT
 217.4 M. FOLIATION NOT SO EASILY SEEN. LESS SERICITE.
 D 21900 22200 93 X 121
 L 30R3 2215 132
 R BREAKS ALONG FOLIATION, NOT FRAGMENTAL RICH. LITTLE GRAPHITE.
 R 21950 22000 MANY HEALED FRACTURES PRODUCING KINKS IN FOLIATION/BANDING.
 R 22035 22040 ABRUPT CHANGE IN FOLIATION AT QC VEIN.
 R 22050 22170 MAYBE PHPP? EQUIGRANULAR, PERVASIVE CB ALTERATION. SOME
 FRAGMENTS. SOME GRAPHITE MAY BE BIOTITE FOR ENTIRE PGI.
 R FRAGMENTS APPEAR AFTER 221.70 WITH INTERSTITIAL PY.
 D 22200 22500 94 X 132
 L 72R3 2246 232
 R 22350 22370 BLACK SOFT SPOTS WITH 20% DISSEMINATED PY. MAY BE INTERSTITIAL
 BETWEEN FRAGMENTS.
 R 22400 22460 HIGH CONCENTRATION OF CLASTS, 5-10% INTERSTITIAL GRAPHITE.
 D 22500 22810 100 X 232
 L 67R3 2276 230
 R 22500 22790 MAY BE A TUFF, EQUIGRANULAR, GREENISH TINT, LITTLE GRAPHITE,

A001 203.40 206.30 57418 .071
 A001 206.30 209.90 57419 .090
 A001 209.90 213.00 57420 .033
 A001 213.00 216.00 57421 .061
 A001 216.00 219.00 57422 .073
 A001 219.00 222.00 57423 .084
 A001 222.00 225.00 57424 .063
 A001 225.00 228.10 57425 .054

.120
 .080
 .060
 .060
 .060
 .073
 .084
 .090
 .100
 .080





L OR2 2459 X

R 24620 24630 POSSIBLY RED-PINK HE COATINGS, ALMOST PERVASIVE THROUGH SECTION.

P 24840 25400 SIXBXTF P2P2 D=QCKAB* <= K1C)

L

R LIGHT GREY, FINE GRAINED, FEW FRAGMENTS, MAY BE PHPP. ALTHOUGH SERICITIZED, CAN NOT EASILY BE SCRATCHED DUE TO QTZ-CB BRXX VEINS AND SILICIFICATION. NO CHL ALTERATION. MODERATELY FOLIATED NOT EASILY RECOGNIZED. IRREGULAR CLEAR TO MILKY QTZ VEIN STOCKWORK, BRECCIATED, INFILLED WITH WHITE CB. SUBHEDRAL PY AND MINOR CP, ALSO FORM IRREGULAR MICROVEINS, PATCHES AND DISSEMINATIONS, FINE GRAINED TO SUBHEDRAL 1 MM CRYSTALS. VEINS UP TO 2 CM WIDE GENERALLY FOLLOW FOLIATION, BOUDINAGED SLIGHTLY. RELATIVELY COMPETENT BETWEEN RUBBLED AREAS, BREAKS ALONG FOLIATION AT 65-70 DEGREES. POSSIBLY SOME EP ASSOCIATED WITH QC VEINS? CENTRAL OLIVE GREEN IN VEIN. MAY ALSO BE ALTERATION OF CB.

R 24840 25100 97 X

L 67R3 249 011

R 24900 24905 PY-CP VEIN, 2 CM, ALONG FOLIATION, SOME QC.

R 24952 24970 ABUNDANT FQC PATCH WITH IRREGULAR CP-PY PATCH WITHIN AND PROXIMAL TO QC. PY-CP CROSSCUTS SOME QC VEINS SOME BLUISH SOFT SERICITIC ALTERATION. BEST SEEN IN AREAS OF INTENSE QC VEINS.

D 25100 25400 79 X 153

L 37R3 2520 232

R 25270 25280 FINE GRAINED SUB-ANHEDRAL PY VEIN, SOME CP, INTERSTITIAL QTZ, CENTRAL YELLOWY QTZ WITH SPECULAR HEMATITE. SLIGHTLY MAGNETIC.

R 25335 25400 ABUNDANT PY-CB, QC MICROVEINS ALONG FOLIATION ALMOST PERPENDICULAR TO CORE AXIS. VEINS INTERMIXED AND CROSSCUT EACH OTHER

P 25400 26250 CL9R8ZN P2 P2 D+KA D.<+ E) G= C= <=

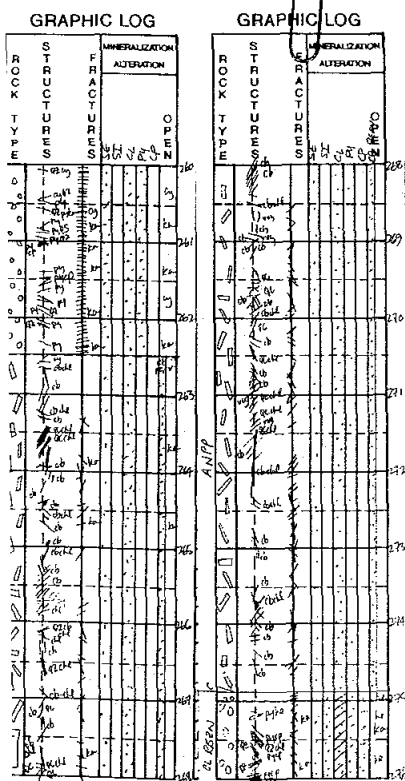
L

R MEDIUM DARK GREEN, FLAKY ALONG FOLIATION, FOLIATION PERPENDICULAR TO CORE AXIS BUT VARIABLE, WAVY. CHLORITE ALTERATION PERVASIVE, INTENSITY SPORADIC, SLIGHTLY LESS AT END OF INTERVAL. ELONGATE, ROUND SERICITIC FRAGMENTS VISIBLE AT 260.8, MATRIX CHLORITIC -> LAPILLI TUFF PARENT. DEGREE OF CHLORITE ALTERATION A FUNCTION OF MATRIX: FRAGMENT RATIO. QTZ VEINS IN MORE COMPETENT AREAS, PY-CP MICROVEINS AND BLEBS ASSOCIATED. CB BRXX INFILL MOST LIKELY CHANGED TO YELLOWISH CY. PY ALSO AS SEPARATE MICROVEINS +/- QS ENVELOPES. GENERALLY FOLLOW FOLIATION AT 60-70 DEGREES. KA ALONG FRACTURES. TOTAL MAXIMUM PY UP TO 10%. MINOR DISSEMINATED CP, VERY SMALL CRYSTALS SOME BLUISH SERICITE/TALC BLEBS IN HEAVILY FOLIATED/FRACTURED AREAS. SLIGHT GRADATIONAL UPPER CONTACT, SHARP LOWER CONTACT.

D 25400 25705 70 X 253

L OR2 2551 3XX

A001	245.20	248.40	57432	.424	.160
A001	248.40	251.00	57433	.860	.600
A001	251.00	254.00	57434	.976	.400
A001	254.00	257.05	57435	.404	.190



N 25705 25755 100 6ANPP 231 P1 P1D=

L 24R3 333 G1

R MEDIUM GREY GREEN, FINE GRAINED WITH 5% PHENOS UP TO 1 CM.

R EUHEDRAL. WELL FOLIATED AT 35 DEGREES, FRACTURED WITH CY, PY

R FINELY DISSEMINATED. MAY NOT BE PREMIER. MINOR CHL-PY? MICRO-

R VEINS. SMALL SECTION OF WAVY FOLIATED TUFF WITHIN UNIT. HAIRLINE

R CROSSCUTTING FOLIATION FRACTURE PATTERN AT 55-60. FEW BREAKS

R ALONG THAT ORIENTATION, MOST ON FOLIATION.

D 25755 26000 86 X

L OR2 2581

R 25950 26000QTZ VEINS WITH PY MICROVEINS, POSSIBLY SOME HE OR SPECULAR HE

R IN FRACTURES AS WELL.

D 26000 26250 80 X 043

L OR2 2612 6XX

P 26250 27490 ANPP P) P1 QCKA CL

L P1 <=C- <)

R PREMIER PORPHYRY

A003 26250 27490 2000

R MEDIUM GREEN, UNIFORM FINE GRAINED MATRIX WITH VARIABLE

R PHENOCRYST CONTENT AND SIZE. CENTRAL PORTION OF PGI CONTAIN UP

R TO 15% PF (10%), KF (5%) ANHEDRAL, PARTIALLY EATEN PHENOCRYSTS

R PHENOCRYSTS BECOME SMALLER TOWARDS ENDS OF PGI AND DISAPPEAR AT

R TOP OF INTERVAL. PHENOCRYSTS PARTIALLY SAUSSERITIZED AND

R REPLACED WITH CB VEINS (JUST IN PHENOCRYSTS), SEPARATE CB OCCURS

R AS IRREGULAR QTZ-CB+/-CHL VEINS IN MATRIX AND CB PERSVASIVE

R ALTERATION EVERYWHERE. ROCK ONLY WEAKLY FOLIATED IN PLACES,

R GENERALLY MEDIUM-HIGH ANGLE FRACTURES, SOME LEACHING OF CB,

R LITTLE MINERALIZATION, SLIGHTLY CHLORITIC-SERICITIC.

D 26250 26550 93 X 321

L 73R3 2642 121

R 26250 26350 FINE GRAINED MATRIX, GREEN, NO PHENOCRYSTS. HAVE SMALL ELONGATE,

R SOFT FRAGMENTS? LOOK COMPOSITE AND GRAINY WITH CY. SEEN IN OTHER

R ANPP'S BEFORE.

R 26360 26370 QC-CHL VEIN, CROSSCUTS AND INCORPORATES SOME PF AND KF

R PHENOCRYSTS.

D 26550 26850 97 X 231

L 73R3 2673 231

R 26650 26655 2 CM QTZ-CB-CHL VEIN WITH CENTRAL CB LEACHED AWAY. ONLY SUB-

R HEDRAL QTZ CRYSTALS +/- CHL IN CAVITY. LITTLE OXIDATION, SOME

R OLIVE GREEN COATING QZ.

D 26850 27150 91 X 331

L 64R3 2703 231

R 27030 27050 SOME YELLOWISH CY ALTERATION DISSEMINATED THROUGH MATRIX. SOME

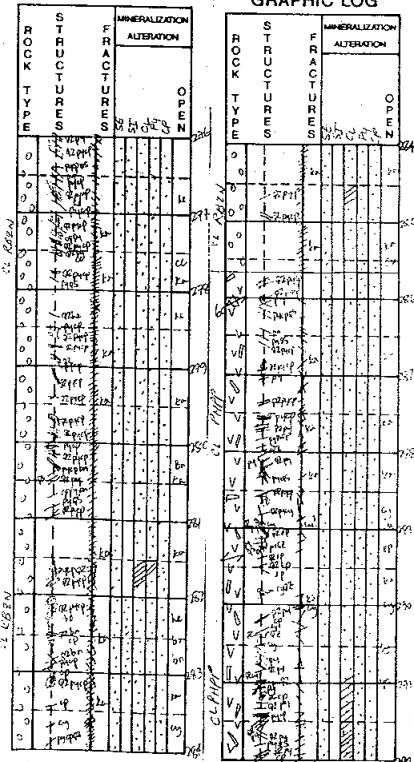
R MOVEMENT ALONG HEALED FRACTURES SEEN BY TRUNCATED KF PHENOCRYST.

R NO PHENOCRYST ON OTHER SIDE OF FRACTURE. THIN FILM OF CB ALONG

A001	257.05	257.55	57436	.091	.150
A001	257.55	260.00	57437	.552	0.5680 .280
A001	260.00	262.50	57438	.600	.220
A001	262.50	265.50	57439	.008	.030
A001	265.50	268.50	57440	.003	.030
A001	268.50	271.50	57441	.002	.030

GRAPHIC LOG

GRAPHIC LOG



R FRACTURE. PHENOCRYSTS HAVE SOME BLACK INCLUSIONS.

D 27150 27490 94 X 321

L 68R3 2734 332

R 27380 27400CB VEINS AND HEALED FRACTURES, FRACTURES CROSSCUT VEINS, HAVE

R MINOR BLEACHED ENVELOPE.

R 27450 27490PHENOCRYSTS SLIGHTLY ELONGATE TOWARDS CONTACT, SMALLER. HAVE

R VERY ELONGATE CLAY RICH FRAGMENTS? MAY JUST BE HIGHLY SHEARED

R KF PHENOCRYSTS. FOLIATION ~55 DEGREES. SOME MAFIC PHENOCRYSTS.

P 27490 28570 CLXR8ZM P1E=P2 D=KA B*<=C.HECC

L E) C= V1 D*<←

R MEDIUM GREEN, FLAKY WITH ABUNDANT KA AND CY. ROCK ORIGINALLY

R TUFF-LAPILLI TUFF, ALSO RESEMBLES BXTF OR BXLP. ABUNDANT

R BRECCIATED QTZ VEINS WITH PY-CP. CB HAS LEACHED OUT. PERVASIVE

R CHL ALTERATION, SOME QS ENVELOPE AROUND PY MICROVEINS. BOUDINAGED

R BRXX'D QTZ VEINS WITH PY,CP, POSSIBLY CC THROUGHOUT, UP TO 70%

R IN SECTIONS, SOME ASSOCIATED SILICIFICATION. PY,CP ALSO AS

R BLEBS AND MICROVEINS, AMOUNT UNKNOWN. BN AS COATINGS ON CP.

R SOME HE AT TOP OF INTERVAL, ASSOCIATED WITH INTENSE CHL

R ALTERATION. GENERALLY MODERATE-WEAK CHL ALTERATION, SOME

R SERICITE. FRACTURES FOLLOW AND CROSSCUT FOLIATION, NO OBVIOUS

R ORIENTATION.

D 27490 27800 90 X

L 3R3 2758 XXX

R SLIGHTLY MORE COMPETENT, ABUNDANT QTZ VEINS.FOOTAGE BLOCKS

R MIXED UP?

D 27800 28100 80 X

L OR2 2795 XXX

D 28100 28570 72 X CV

L OR2 2825 XXX D.

R MARK AT 285.5 M

R 28250 28270ABUNDANT BN AS BLEBS AND TARNISH ON CP. IN BRXX'D QTZ VEIN UP

R TO 5%? SOME RED CALLED HE MAY BE BN.

R 28330 28570VERY CRUMBLY, KA RICH. FEW STRUCTURES VISIBLE.

R 28550 28570DISSEMINATED CV ASSOCIATED WITH EUHEDRAL PY. LITTLE CHL

R ALTERATION.

P 28570 29650 CL9PHPP P1 P2<+D)KA B-<=

L E= G) C- V)

R MEDIUM-DARK GREEN, UNIFORM, MAFIC PHENOCRYSTS UP TO 5%,

R MODERATE FOLIATION. ABUNDANT QS ENVELOPES AROUND PY+/-CP

R MICROVEINS. LITTLE DISSEMINATED PY, MOSTLY MICROVEINS FOLLOWING

R FOLIATION AT 50-60 DEGREES, UP TO 2-5% OF ROCK. BRECCIATED QTZ

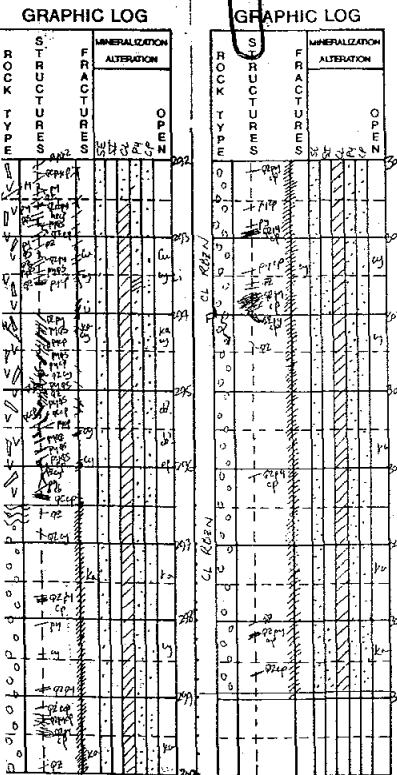
R VEINS MORE COMMON AT TOP OF INTERVAL, REGULAR TO PTYGMATIC. CB

R ALTERED TO EP? PY-CP COMMONLY ASSOCIATED. MOST FRACTURES ALONG

R FOLIATION.

R 28760 29040HIGH CONCENTRATION PTYGMATIC QTZ BRXX VEINS, ORIGINAL TEXTURES

A001	271.50	274.90	57442	.004	.020
A001	274.90	278.00	57443	1.610	1.070
A001	278.00	281.00	57444	1.250	.770
A001	281.00	285.70	57445	1.350	.750



R OBLITERATED, EXTENSIVE BLEACHING ALONG PY VEINS WITH ASSOCIATED
R YELLOW BROWN CY.
D 28570 28770 80 X 031 P2 P+
L 28R3 231
R MODERATE-STRONG FOLIATION AT 60 DEGREES, SERICITIC, MINOR
R CHLORITE . ABUNDANT QTZ BRXX VEINS, EP,PY.
D 28770 29040 93 X 232
L 35R3 2883 231
R EXTENSIVE BLEACHING.
R 28880 28890 WHITE CRYSTALLINE COATING ON FRACTURES, POSSIBLY CU ON INTER-
R SECTION OF FRACTURE WITH PY VEIN.
D 29040 29350 100 X 143
L 67R3 2916 231
R 29090 29110 SOME YELLOW CY ALTERATION, WELL FOLIATED.
R 29320 29321 NATIVE COPPER ON FRACTURE SURFACE.
D 29350 29650 90 X LIQC
L 67R3 2947 C-C+
R QTZ-CB (YELLOW, MAYBE AK) VEINS, CB NOT LEACHED.
R 29360 29370 PY-CP CONCENTRATION, INTERSTITIAL QTZ, POSSIBLY CB.
R 29430 29450 ABUNDANT PY, PY-CP, CP MICROVEINS ALL AT 45 DEGREES, PARALLEL
R FOLIATION.
R 29495 29500 EARLIER YELLOW VUGGY QTZ CROSSCUT BY CLEAR BRXX'D QTZ VEIN.
R 29530 29560 LARGE IRREGULAR QTZ-YELLOW CB VEIN WITH CP BLEBS. CROSSCUTS PY
R MICROVEINS.
P 29650 30690 CLXRBZN P2 P3 KA B.<=
L E) C= V+
R ORIGINAL ROCK PROBABLY PHPP. VERY FLAKY, IN ALL DIRECTIONS. KA
R COATINGS. CHLORITIZED, BOTH BRXX'D QTZ VEINS AND PY MICROVEINS
R WITH QS ENVELOPES PRESENT. CONTACT WITH UPPER PHPP VERY SHARP.
R FOLIATION VERY IRREGULAR, WAVY, GENERALLY NO TEXTURES/STRUCTURES
R VISIBLE CP UP TO 1%, ASSOCIATED WITH PY. PY SUBEHDRALED.
D 29650 29950 80 X
L 0R2 2978 XXX
D 29950 30250 83 X
L 0R2 3008 XXX
R SULPHIDES UP TO 10-15%, CP UP TO 5%.
D 30250 30690 56 X
L 0R2 3039 XXX
R VERY FLAKY, MOST <1 CM PARTICLE.
R 30240 30690 FLAKES, NO VISIBLE STRUCTURES, KOALINITIC, CHLORITIC, PY AND CP
R 10-15%. SOMEWHAT MORE BLOCKY AT END, QTZ RICH.

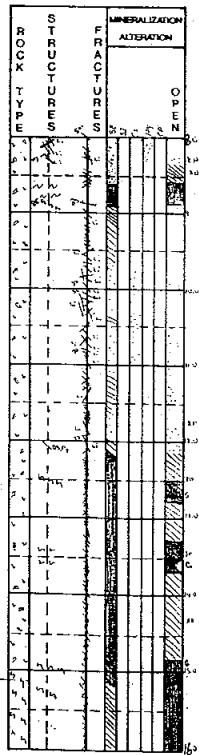
A001	285.70	287.70	57446	.888	.410
A001	287.70	290.40	57447	.972	.420
A001	290.40	293.50	57448	.768	.360
A001	293.50	296.50	57449	.648	.290
A001	296.50	299.50	57450	.970	.440
A001	299.50	302.50	57451	.988	.370
A001	302.50	306.90	57452	1.350	.560

The A005 assay sets are selected
composites based on copper grades
and geology

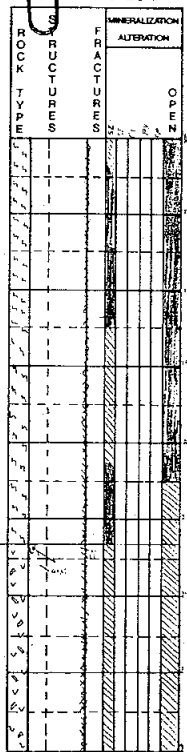
	From	To	Length	Cu %	Au g/t
A005	1.70	88.25	86.55	.046	.183
A005	88.25	118.10	29.85	1.365	.543
A005	118.10	142.30	24.20	.633	.420
A005	142.30	160.20	17.90	.645	.244
A005	160.20	182.30	22.10	.373	.197
A005	182.30	242.20	59.90	.074	.125
A005	242.20	254.00	11.80	.673	.318
A005	254.00	262.50	8.50	.486	.222
A005	262.50	274.90	12.40	.004	.027
A005	274.90	306.90	32.00	1.113	.562

/END

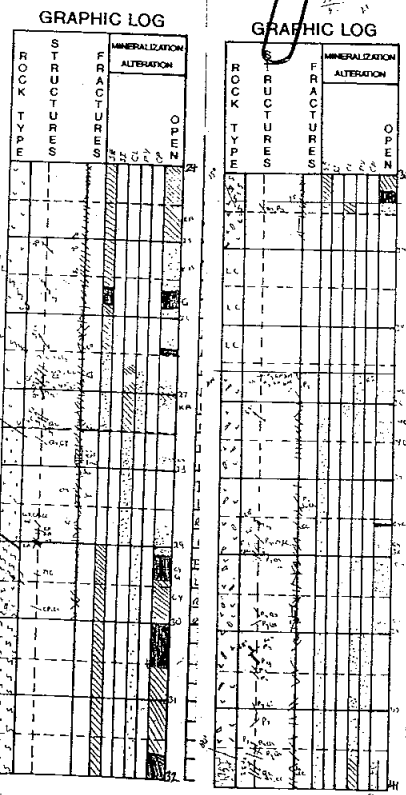
GRAPHIC LOG



GRAPHIC LOG



- R NON-FOLIATED.
- R 620 770 POOR RECOVERY, BROKEN, LEACHED CORE, CLAY GOUGE AT 6.3? SERICITE
R 20-25%, KAOLINITE -5-10%
- D 305 600 72 X 221
L OR2 XXX
- R 770 830 COMPETENT CORE, MODERATELY LEACHED, NON FOLIATED, TRACE PY,
R STRONG LIMONITE STAINED FRACTURES, GREEN TO LIGHT GREEN.
R BLEACHED ENDS.
- R 830 885 EXTREME CLAY AND SERICITE ALTERATION TO CLAY GOUGE.
- R 885 985 QTZ-SERICITE ROCK VERY LEACHED, VERY PALE WHITE-GREEN, NO
R SULPHIDES, WEAK LIMONITE TOP CONTACT AT 80 DEGREES TO CORE AXIS,
R NO REMNANT TEXTURES. FRACTURE AT 60 DEGREES, SSL 50 DEGREES
R FROM 9.50 TO 9.85, INCREASE LIMONITE, NOT AS BROKEN, VERY STRONG
R LEACHED, OXIDE HALOS ON FRACTURES TO 1.0-2.0 CM. NO ORIENTATION
R ON FAULT.
- D 600 900 47 X
L OR2 61
- R 950 983 VERY BLEACHED ROCK, WHITE TAN IN COLOUR, QTZ-SERICITE, LIMONITE
R STAINED, OXIDE HALOS.
- D 983 1220 X P2 H) D*
L P1
- R PATCHY BLEACHING OF CORE, GENERALLY MEDIUM TO LIGHT GREEN,
R MEDIUM GRAINED, NON-FOLIATED, GRANULAR WITH CHLORITE ALTERED
R HORNBLende? AND ALTERED F-SPAR LATHS. LIMONITE STAINED FRACTURES
R AND VERY MINOR PY.
- D 900 1220 70 X
L OR2 91
- D 1220 2580 4 P5
L P6
- R CLAY-SERICITE +/-QTZ ALTERED PHPP. WHITE, CLAY GOUGE LOCALLY,
R NO ORIENTATION, CORE IS EXTREMELY BROKEN IN FINE PARTINGS DUE TO
R SERICITE, BECOMES PARTINGS ALONG FOLIATION AT DEPTH. GOOD FAULT
R -30 DEGRES TO CORE AXIS AT 25.65M, CORE IN CLAY GOUGE, FOLIATION
R 55 DEGREES TO CORE AXIS.
- N 1220 2130 8 X FALT P6
L OR1 XXX P8
- R VERY POOR RECOVERY, EXTREME ALTERATED ZONE WITH FAULTING AND
R LOST CORE, CLAY WITH SERICITE PARTINGS, NO ORIENTATION, MARK
R FOOTAGE-18.3, 21.3
- D 2130 2580 16 X P5
L OR1 213 P3
- R 2130 2180-FOOTAGE, POOR RECOVERY, SERICITE AND CLAY +/-QTZ, EXTREMELY
R LEACHED, LIGHT BROWN, LIMONITE STAINED. BLOCKY CORE 3-5 CM,
R FOLIATION -60 DEGREES. SMALL EVIDENCE OF PITTED, LEACHED QTZ
R VEINING PARALLEL TO FOLIATION-65 DEGREES TO CORE AXIS.



R 2180 2440BROKEN CORE TO RUBBLE ALONG PARTINGS, PLATY APPEARANCE BUT 0.3 TO 1 CM SIZE.

R 2560 2575STRONG CLAY WITH EXTREME ALTERED SERICITE (70-75%), SHALLOW AT 20 DEGREES TO CORE AXIS.

R 2580 2650SERICITE AND QTZ, DECREASE IN CLAY TO 15%, SERICITE 40-50%. PERVASIVE LIMONITE STAINING. DECREASES AT DEPTH, STRONG ON FRACTURES, BROKEN GRAVEL CORE, NOT PLATEY, TO BLOCK, CLAY GOUGE AT 26.50 M LOWER CONTACT ~50-55 DEGREES TO CORE AXIS, (FOLIATION ~45 DEGREES TO CORE AXIS).

R 2650 2665SHEARED SERICITE PHPP AND PYRITE (<2%) FINE GRAINED.

R 2665 2750QTZ VEINS, SHEARED, FRACTURED, WITH CLAY INFILING AT 45 DEGREES TO CORE AXIS, RED/MARROON STAINING WITH CHLORITE AND ON PLANE CUPRITE? STRONG SHEARING AT 26.80-26.95 60 DEGREES TO CORE AXIS, LIGHT GREEN WITH CHLORITE CRYSTALS/FRAGMENTS ALONG FOLIATION, BLEBS OF PY ASSOCIATED WITH CHLORITE. BOUND BY FRACTURED QTZ VEINS AT 26.95-27.0 AT 20 DEGREES TO CORE AXIS, PALE GREEN-WHITE CLAY INTERSTITIAL TO FRACTURES. (KAOLINITE). WEATHERED SHEAR AT 27.00. CHLORITE (15-20%)

D 2580 2750 59 X 11 P2 Q3 B)

L OR2 254 Q) V)

R LOCALIZED SHEARING, VERY STRONG CHLORITE ALTERED.

P 2750 2900 83FRXLATT P2 B(CC

L OR3 <) <* B*

R MEDIUM TO LIGHT GREEN, FINE TO MEDIUM GRAINED, BOTH FELSIC AND MAFIC CRYSTALS, MOST EVIDENT WHERE CORE HAS VERY WEAK FOLIATION AT 40 DEGREES TO CORE AXIS. BLOCKY FRACTURED CORE, AT 50-75 DEGREES TO CORE AXIS, EXTENSIONAL FRACTURE AT 10-15 DEGREES TO CORE AXIS, NEAR TOP WITH LIMONITE CLAY INFILING. ANDESITE COMP (AND FLOW?) SLIGHT RED MAROON STAIN AT TOP WITH NARROW QTZ VEIN, CUPRITE? CORE BECOMES BLEACHED AT FRACTURES AND WITH DEPTH. LOWER CONTACT QTZ VEIN AT 50 DEGREES TO CORE AXIS. CP, CC, IN QTZ VEIN.

P 2900 3330 30CY9FALT P5 <<(<) CCCV

L OR2 P7 C*B(

R FAULTED, CLAY GOUGE IN FRAGMENT OF CORE, ANGULAR. ROCK IS STRONGLY FOLIATED, CLAY-SERICITE+/-PYRITE+/-CP+/-CC ALTERED PHPP WHITE TO GREY IN COLOUR, STRONG GOUGE AT 29.15-29.40 AND 29.90-33.30, TRACE PY DISSEMINATED, CP+CC IN FINE STRINGERS IN BROKEN CORE, TRACE MC. CONTACT AT 29.40 ~50 DEGREES TO CORE AXIS? ONLY OTHER POSSIBLE VALUE AT LOWER CONTACT AT 15 DEGREES TO CORE AXIS

P 3330 4060 SE9PHPP P= H) B1 CCB+<2 HE

L R3 E+ G(B) P(

R FINE TO MEDIUM GRAINED, WEFAK TO MODERATELY FOLIATED, LIGHT GREEN. GREY TO LIGHT GREY. PHENOCRYSTS, GENERALLY BROWN-GREY ELONGATED PARALLEL FOLIATION, COMMONLY WITH PY BLEBS ASSOCIATED

From	To	Sample	Cu %	Cu % Au g/t	Au g/t Au g/t	Ag ppm	Pb ppm	Zn ppm
			(dupl.)	(dupl.)				
A001	3.05	6.00	58307	.286		.410		
A001	6.00	9.00	58308	.035		.310		
A001	9.00	12.20	58309	.011		.090		
A001	12.20	25.80	58310	.015		.130		
A001	25.80	27.50	58311	.748		.180		
A001	27.50	29.00	58312	.175		.080		
A001	29.00	33.30	58313	.488		.240		

R WHITE ALTERATION HALOS AROUND SOME OF THE CRYSTALS? GOOD F-SPAR
 R LATHS SEEN. 4 MM X 1 MM, OTHERS BLUE-GREEN, VERY SOFT (TALC OR
 R SERICITE?) FRAGMENTS ALSO INCLUDED, GREEN GREY WITH QTZ +/-
 R OTHER INTRUSIONS, GENERALLY SUBROUNDED, CLASTS ARE MATRIX
 R SUPPORTED, ~20-25%. FOLIATION ~50 DEGREES TO CORE AXIS. FINE
 R GRAINED, FELSIC MATRIX. FINE GRAINED, MEDIUM GREY CORE WITH
 R SCATTERED PATCHES AND YELLOW CLAY AT TOP, GRAIN SIZE INCREASES
 R WITH FOLIATION AND SERICITE ALTERATION WITH DEPTH. CHALCOCITE
 R COATS BLEBS OF SULPHIDES (PY,CP) IN CORE AND IN VEINS AND IS
 R DISSEMINATED IN CORE. CP IN SOME PYRITIC VEINS, GENERALLY
 R SCATTERED VERY FINE FRACTURE INFILL AT TOP OF SECTION, DECREASES
 R AT DEPTH. CORE IS FRACTURED AND BLOCKY. FRACTURES AT 55-60
 R DEGREES TO CORE AXIS. CP AND PY AT 35.62 IN PATCHES WITH SOFT
 R BROWN OXIDIZED INFILLING METAL? (HM) CORE COMPETENT, WEAKLY
 R ALTERED TO FRESH.

D 3330 3560 21CL1PHPP Q= P2 B- B.<
 L OR2 335 E. Q= <<
 R LIGHT GREEN GREY TO GREEN, FINE GRAINED, CHLORITIC ALTERATION AT
 R TOP DECREASES WITH DEPTH, FOLIATED AT TOP OF CORE, WITH BLEACHED
 R MARGINS TO FRACTURES; ANGULAR FRAGMENTS OF QTZ RICH ROCK WITH
 R LIMONITE EDGES, 1.0 X 1.2 CM, AT 33.45 M. CORE AFTER FAULT
 R FRACTURED 30 DEGREES TO CORE AXIS. (33.30-33.45- SHEARED AND
 R ALTERED, LOSE ORIGINAL TEXTURE). BLOCKY FROM 33.50-35.60, LOSE
 R CLAY AND SERICITE ALTERATION, GOOD CHLORITIC CRYSTALS, POOR
 R RECOVERY, BECOMES MORE FOLIATED AND COARSER GRAINED WITH DEPTH
 R WEAK JAROSITE ON FRACTURES AND WAD ALTERATION SCATTERED IN CORE
 R (<1%).

N 3490 3560 XMCOR

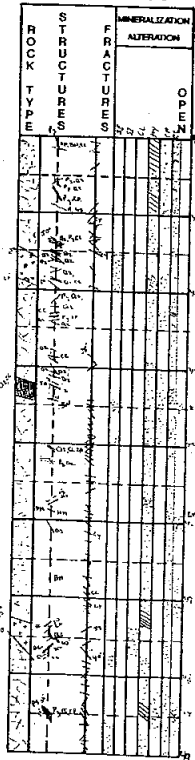
D 3560 4060 66 X 132

L 27R3 396 244

P 4060 5380 KR9BXQZ Q1 B=CVCC<=<2B(HE
 L E) Q= C(<1V V+ QC

R EQUIVALENT TO 1988/89 'KRBX', PHPP FROM ABOVE, FRACTURED,
 R GENERALLY PARALLEL FOLIATION, QTZ VEIN INFILLING, WHICH EXHIBITS
 R CRACKLE FRACTURE NETWORK IN ALL DIRECTIONS. FRACTURES LATER
 R INFILLED BY PYRITE, CHALCOCITE, CHALCOPYRITE +/- BORNITE. PYRITE
 R RICH BANDS THROUGH SECTION CONCENTRATION AT QTZ VEIN MARGINS,
 R COMMONLY WITH REMNANT PHPP. WHICH HAS BECOME SERICITIZED. LATER
 R QTZ VEINS, MILKY WHITE, MAY HAVE TRACE CLAY, EXHIBIT SOME
 R FRACTURING, (NOT NETWORK STYLE) WHICH IS COMMONLY CHALCOCITE
 R INFILLED WITH DISSEMINATED PY. HAVE CHALCOCITE AS IRREGULAR
 R MASSES IN VEIN OR AT MARGINS. UPPER CONTACT, SHARP, CONFORMABLE
 R WITH OVERLYING UNIT. UNIT BECOMES FRACTURED AND BLOCKY AT DEPTH.
 R CLAY DEVELOPMENT AT FRACTURES AND ZONE OF SHEARING. BLEBS OF

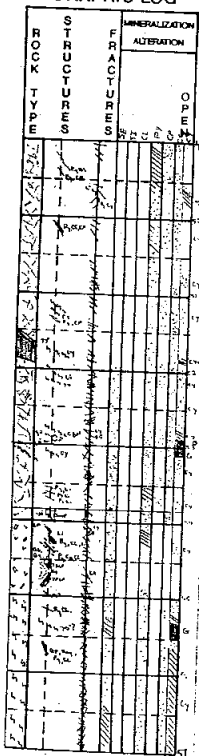
GRAPHIC LOG



R
R
R
R 4255 4295 ZONE OF PHPP, SERICITIZED, FINE GRAINED WITH LATE QTZ VEINS,
R 2-3 M WIDE. TOP CONTACT 75 DEGREES TO CORE AXIS, MINOR CLAY ON
R FRACTURE, LOWER CONTACT AT 60 DEGREES TO CORE AXIS.
R 4330 4460 NUMBER OF LATE QTZ, MINOR FRACTURING, NOT SULPHIDE
R INFILLED, 2-4 MM GENERALLY TO 2.5 TO 7.0 CM WIDE, MILKY WHITE
R MAY HAVE PATCHES OF MASSIVE CHALCOCITE, CUT SERICITIZED PHPP.
D 4060 4360 100 X
L 48R3 427 132
R 4422 4440 LATE QTZ VEIN, FINE DISSEMINATED PY < 0.5%, IRREGULAR MASSIVE
R CHALCOCITE (-2%) CONTACTS AT 60 AND 70 DEGREES TO CORE AXIS.
R 4585 4600 SMALL, IRREGULAR FORMED PATCHES OF BORNITE, MINOR CLAY
R DEVELOPED WITH PYRITE.
D 4360 4660 95 X
L 47R3 457
N 4730 4760 100 XLAAP <+ QC
L 83R 044 <)
R VERY FINE GRAINED, GREEN TO LIGHT GREEN GREY NEAR CONTACTS,
R SHARP CONFORMABLE CONTACTS, TENSION FRACTURES AT TOP CONTACT,
R PYRITE AND CHLORITE INFILL WITH BROWN STAIN RIMMING FRACTURE
R CONTACT EDGE PQTZ-CARB FRACTURE INFILL 2 MM TO 1 CM WIDE.
R 4770 4790 FINE OXIDE (LIMONITE) STAIN ASSOCIATED WITH SULPHIDE INFILLED
R FRACTURING, RIMS FRACTURES, PATCHY-NOT ALL FRACTURES
R 4850 4852 MASSIVE PYRITE AND CHALCOPYRITE VEIN CONTACTS 50-30 TO CORE
R AXIS, GRANULAR, CLAY ALTERATION WEAK, CP ASSOCIATED.
D 4660 4960 100 9
L 47R3 488
D 4960 5180 93 X
L 36R3 123
R 5130 5155 VERY FINE FRACTURE NETWORK, DOMINATED BY CC (5-7%) AND CP (2-4%)
R 5155 5190 LATE QTZ VEIN TOP CONTACT AT 60 DEGREES TO CORE AXIS, SHARP
R CONTACT, FINE DISSEMINATED PY (2%) PATCHY CHALCOCITE (42%) LOWER
R CONTACT -80 DEGREES TO CORE AXIS.
D 5180 5380 98 X
L 20R3 518 126
R 5275 5300 SHEARING WITH CLAY GOUGE DEVELOPED.
R 5305 5310 LOWER CONTACT OF FRACTURED QTZ VEIN, CLAY GOUGE ZONE.
R 5310 5380 MIXTURE OF FRACTURED QTZ VEINS WITH SERICITIC ALTERED PHPP.
R GRADATIONAL DECREASE OF QTZ VEINING. DISTINCT STRINGERS OF
R PYRITE WITH LIMONITE STAIN PRESENT FROM 53.60-53.80. TRACE
R PATCHY BLEBS OF CPY, CC DECREASES AND PYRITE DECREASES.
P 5380 5870 SE9PHPP Q+ B= CCB* <=
L E* B)

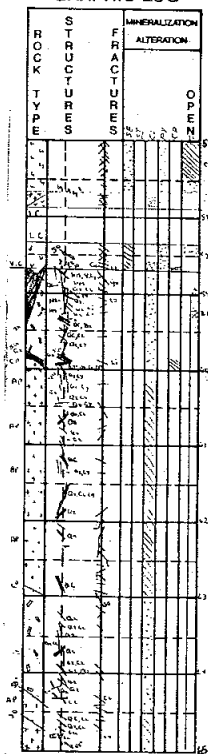
A001	33.30	37.60	58314	.288	.140
A001	37.60	40.60	58315	.288	.110
A001	40.60	43.60	58316	.876	0.8800 .490
A001	43.60	46.60	58317	1.280	.300
A001	46.60	49.60	58318	1.000	.420
A001	49.60	53.80	58319	1.710	.610
A001	53.80	58.70	58320	.844	.380

GRAPHIC LOG



R FINE GRAINED, SIMILAR TO PHPP AT 33.30-40.60 M, MEDIUM GREY,
R WEAK TO NON-FOLIATED. LOCALLY FRACTURED, CLAY ON HEALED
R FRACTURES, PYRITE INFILLING ALONG FRACTURES, TO IRREGULAR
R MASSIVE PATCHES. CLAY ON FRACTURES. MINOR LIMONITE WITH PYRITE
R STRINGERS, CORE BECOMES BROKEN AND CLAY RICH AT DEPTH, FAULT
R ZONE. POOR RECOVERY FROM 54.7 TO 57.9, VARIETY OF CORE OF
R UNCERTAIN DEPTH. SOME LAPILLI AT VERY TOP OF UNIT. LAARGE
R FRAGMENTS OF LIGHT GREY, LOW PYRITE, SILICEOUS PHPP? POSSIBLE
R FRAGMENTS OR AS SEEN IN A COUPLE OF PLACES OVER 1.0 M, LIKELY
R UNDULATING CONTACT, DRILLING IS PICKING UP A LOWER UNIT? PYRITE
R RIMS EDGE OF INCLUSION. LOCAL REVERSE MOVEMENT ON FRACTURE.
R 5430 5440PYRITE AND CP AND CC VEIN, 30 DEGREES TO CORE AXIS, 0.5 CM WIDE
R WITH QTZ-SERICITE ENVELOPE. WELL DEVELOPED 0.3 TO 1.0 CM WIDE
R WHITE QTZ RIMS EDGE OF ENVELOPE.
N 5500 5770 KA7FALT P2 D+ <<
L P5 V*V)
R BROKEN, RUBBLE, BLOCKY CORE, PERVASIVE CLAY ON SURFACES, PATCHY
R CLAY ALTERATION IN CORE, LOCALLY CLAY GOUGE, RESISTANT BLOCKY
R CORE OF ALTERATED PHPP? PYRITIC STRINGERS- CC IN FRAGMENTS, NO
R ORIENTATION, PALE BLUE SERICITE IN CORE AND FRACTURE PLANE.
R BROKEN QTZ VEINS, VUGGY.
D 5380 5500 92 X 010
L 38R3 548 223
D 5500 5870 27 8
L OR2 579 XXX
N 5790 5830 XMCOR
L
R 5770 5790BROKEN CORE, MIXTURE, APHANITIC LATITE, AND CHLORITE ALTERED
R TUFF, FINE GRAINED.
R 5830 5870SERICITE AND CLAY ALTERED, FOLIATED, PHPP. LIGHT GREY TO GREEN
R GREY, INTRODUCE CHLORITE AT DEPTH. TOP BROKEN CORE PARALLEL
R FOLIATION, VUGGY AND PITTED SURFACE, FINE SCATTERED PY TO 3%, ON
R FOLIATION. CORE BECOME STRONG SHEARED TO CONTACT, LOSE TEXTURES,
R NATIVE COPPER 58.65-58.70.
P 5870 8590 F37ANPP P2 B(
L V+ <) V=
R DARK GREEN VERY FINE GRAINED MATRIX WITH MEDIUM TO COARSE GRAIN
R PHENOCRYSTS TO VERY COARSE GRAIN (K-SPAR). PHENOCRYSTS GENERALLY
R PALE GREEN (SAUSSERITIZED) TO BLUE GREEN WITH MINOR MAFIC
R PHENOCRYSTS. DEGREE OF FOLIATION VARIABLE THROUGH SECTION.
R QTZ +/- CARBONATE INFILLS FRACTURES, ALSO QTZ AND CHLORITE
R COARSE, IRREGULAR PATCHES OF CHALCOPYRITE MAY BE ASSOCIATED WITH
R THESE VEINS. FLAT, KHAKI GREEN CLAY IN SOME VEINS, PITTED
R TEXTURE, AND A YELLOW-ORANGE CLAY, FAIRLY HARD, WITH QTZ IN
R VEINS. UPPER CONTACT PARALLEL TO CORE AXIS WITH QTZ VEIN. VEIN

GRAPHIC LOG



R HAS FINE LIMONITE STAINED FRACTURES 45 DEGREES TO CORE AXIS,
R ALSO CUPRITE? VISIBLE NATIVE COPPER AT UPPER CONTACT ON
R FOLIATION AND WITHIN QTZ VEIN ON FINE FRACTURES. FINE GRAINED,
R APHANITIC LATITE POST LAPP, PRESENT THROUGHOUT SECTION. CORE
R REACTS BRITTLELY LOCALLY, CHLORITE INFILLS SOME TENSION GASHES
R STRONGLY BLEACHED CORE 59.10-59.23 M. VUGGY QTZ VEIN WITH
R KAOLINITE INFILL.

D 5870 5980 91 X 152
L 55R3 016
R MAG SUS = 15
N 5980 6275 100 XLAAP P3 B.
L 59R2 V+ <) V=
R DARK GREEN, APHANITIC, TENSION FRACTURES CROSSCUT AND PARALLEL
R CORE AXIS, QTZ +/- CARB +/- KHAKI GREEN CLAY. FRACTURES INFILLED
R BY SAME VEINS AS ABOVE. MAGNETIC SUSCEPTIBILITY -50

D 5870 6170 100 3 311
L 62R2 610 223
R 6200 6235 DYKE IS FRACTURED AND QTZ-CARB STRINGERS HEALED WITH CHL.
R 6294 6295 GROUND ENDS OF CORE, CONTACT NOT SEEN, RETURN TO LAAP.
R 6295 6430 ANPP, NON FOLIATED TO WEAKLY FOLIATED AT DEPTH AT 50 DEGREES
R TO CORE AXIS.

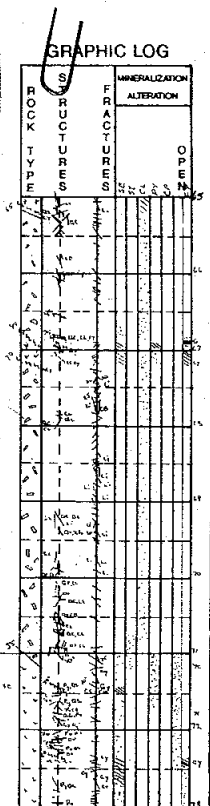
D 6170 6470 100 4 242
L 50R2 640 122
N 6430 6460 +LAAP P3 B.
L V= <(V=
R SEC 59.80-62.75, CONTACT SHARP AT 50 DEGREES TO CORE AXIS,
R CHLORITE ON FRACTURE, TENSION GASHES AND FRACTURE CHLORITE
R INFILLED AT LOWER CONTACT, CORE IS SHEARED AT LOWER CONTACT.

N 6460 6520 SBXLATT P5
L V) <- V+
R MEDIUM-DARK GREEN, CHLORITE RICH, CHLORITIC PHENOCRYSTS, 1-3 MM
R IN SHEARED MATRIX, QTZ AND CHLORITE VEINS AT BASE ARE OFFSET BY
R SHEARING, SOME LATE, QTZ-CARB VEINS PARALLEL TO CORE AXIS,
R SLIGHTLY OFFSET. SEVERE SHEARING 65.05-65.20. CONTACT BECOMES
R NARROW SHEAR ZONE, -65 DEGREES TO CORE AXIS, SHEAR WRAPS AROUND
R LOWER QTZ.

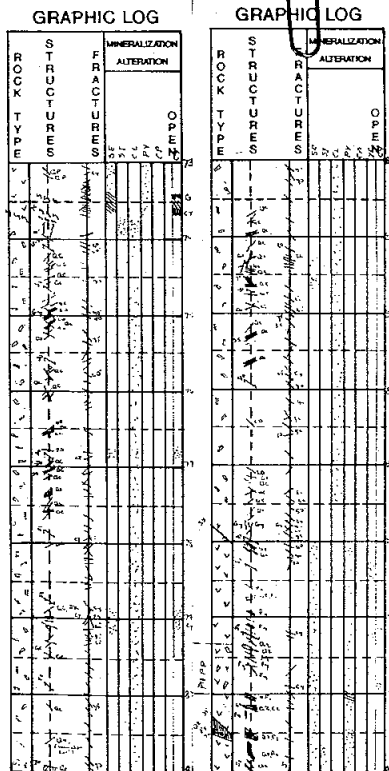
R 6520 6685 ANPP, NON-FOLIATED, WEAKLY FOLIATED AT BASE, LOSE GOOD
R DEFINITION OF PHENOCRYSTS.

D 6470 6770 90 9 111
L 28R2 671 123
R 6675 6685 STRONGLY FOLIATED, WRAPS AROUND NARROW QTZ-CARB VEINS, FINE
R CHLORITE INFILLED FRACTURES NEAR CONTACT, CORE LIGHT GREEN-GREY,
R SERICITIC.

N 6685 6720 F8XTUFF P2 B1
L P3 <*



- R CONTACT AT 45 DEGREES TO CORE AXIS, SHEAR WITH CLAY DEVELOPED,
 R ABOVE QP VEIN AT 45 DEGREES TO CORE AXIS (1.5 CM WIDE). FINE
 R GRAINED, SERICITIC AND CLAY ALTERED, WITH PERVASIVE YELLOW CLAY.
 R FRACTURED AND BROKEN ROCK, DISSEMINATED PY. LOWER CONTACT- GREY
 R SULPHIDE CLAY, SHEAR SURFACE AT 70 DEGREES TO CORE AXIS.
- R 6720 7100 RETURN TO ANPP, LARGE K-SPAR PHENOCRYSTS 1.0 X 0.5 CM, WHITE
 R TO PINK, AND SMALLER PHENOCRYSTS, SUBHEDRAL, LIGHT GREEN IN
 R COLOUR. ZONE FOLIATED AT DEPTH, AND BECOMES BLEACHED WITHIN
 R 5 CM OF CONTACT. VERY BROKEN SECTION OF CORE 67.30-67.70, NO
 R EVIDENCE OF CLAY GOUGE. SHALLOW FRACTURES 20-30 DEGREES TO CORE
 R AXIS. LIKELY PHPP.
- D 6770 7100 97 X 211
 L 25R2 701 232
- N 7100 7360 100YCPHPP P2Q) B= <+
 L 23R2 731 E)V* <= <*
- R FINE GRAINED, OCCASIONAL CRYSTALS, SOME FRAGMENTS, LOCALLY
 R HEALED FRACTURE ZONES THAT ARE SILICEOUS. PERVASIVE YELLOW-CLAY
 R THROUGH SECTION. PYRITE MICROVEIN WITH QTZ +/- SERICITE +/-
 R TRACE CARBONATE ENVELOPES. PYRITE BLEBS DISSEMINATED THROUGHOUT
 R MINOR LAPILLI FRAGMENTS (WHICH MAY RESULT FROM PREFERENTIAL
 R ALTERATION). LIGHT GREY TO LIGHT TAN GREY IN COLOUR.
- R 7140 7150 FRACTURE AT 70 DEGREES TO CORE AXIS, EUHEDRAL GYPSUM CRYSTALS
 R AND VISIBLE COPPER WITH GYPSUM AND CHALCOCITE AT 71.40, SHEAR
 R AT 70 DEGREES TO CORE AXIS, AT 71.45, ~1.5 CM WIDE, SERICITIC
 R FRAGMENT.
- R 7175 7185 HEALED FRACTURE ZONE, QTZ AND PYRITE INFILLING, LOSE YELLOW CLAY
 R REAPPEARS AT LOWER EDGE AT 60 DEGREES TO CORE AXIS. MINOR WHITE
 R CARBONATE INTERSTITIAL TO BLEBS OF PYRITE.
- R 7245 7260 HEALED FRACTURE ZONE, LITTLE MOVEMENT, PATCHY YELLOW CLAY
 R ALTERATION OF BROKEN CORE, INCREASE SERICITE, (10-15%) CLAY ON
 R FRACTURES.
- R 7292 7293 BLUE-GREEN PATCH OF CLAY? YELLOW CLAY, GRADATIONAL TO YELLOW
 R GREEN.
- D 7100 7360 88 X 134
 L 22R2 731 137
- R 7325 7360 BROKEN, RUBBLY CORE, GENERALLY AT 65-75 DEGREES TO CORE AXIS.
 R CLAY RICH AT 73.40 M, STRONG SHEAR, CLAY RICH, GREEN IN COLOUR
 R AT 73.57-73.60 M AT 75 DEGREES TO CORE AXIS.
- R 7360 8590 SAME AS 67.70-71.00-ANPP (PREMIER PORPHYRY) VERY COARSE GRAINED
 R K-SPAR, WEAKLY TO MODERATELY FOLIATED INCREASES AT DEPTH, LOSE
 R PHENOCRYSTS.
- R 7360 7390 QTZ VEIN AT TOP OF UNIT ~70 DEGREES TO CORE AXIS, BROKEN, BOTH
 R SURFACES GREY SULPHIDE CLAY. 1.5 CM GREY CLAY GOUGE AT 73.62 M.
 R ANPP, MEDIUM-LIGHT GREEN, VERY STRONG SHEAR AT 10-15 DEGREES TO
 R CORE AXIS. PATCHY ORANGE STAINED QTZ ALONG FRACTURING-HEALED



R SHEARED ROCK. FINELY SHEARED, CREMULATED FOLIATION SUBPARALLEL
 R TO CORE AXIS. BOUND AT 73.88 M BY FINE FRACTURE AT 45 DEGREES
 R TO CORE AXIS. COARSE GRAINED K-SPAR AT 74.10 M BECOMES WEAKLY
 R FOLIATED.

R 7490 74953.5 WIDE WHITE QTZ-CARB VEIN AT 60 DEGREES TO CORE AXIS CROSS-
 R CUT FOLIATION AT 55 DEGREES TO CORE AXIS. OFFSET BY FINE
 R FRACTURE AT 35 DEGREES TO CORE AXIS, OPEN SPACE IN VEIN INFILLED
 R BY GYPSUM.

R 7445 7580 VERY FINE WISPS OF SERICITE PARALLEL FOLIATION, -0.5 TO 0.8 CM
 R LONG, ZENOLITHS? LOSE FOLIATION AT 75.90 M.

D 7360 7660 97 X 032
 L 40R2 762 124

R 7630 7710 WEAKLY FOLIATED.

R 7745 7860 ROCK SLIGHTLY LESS ALTERED, SLIGHTLY GREENER, SLIGHTLY HARDER
 R THAN PREVIOUS PART OF SECTION.

R 7880 7940 FRACTURED CORE, CLAY FRACTURE FILL WITH IRREGULAR QTZ-CARB
 R VEINS/STRINGERS, FINE HAIRLINE FRACTURES, OXIDIZED, +/- EPSONITE
 R COATING. SERICITE ALTERATION INCREASE CHLORITE ALTERATION.
 R SLIGHT ORANGE/PINK IN VEINING, ANKERITE?

D 7660 7960 92 X 112
 L 42R2 792 234

R 8235 8255 SERICITE ON FRACTURE PLANES, LIGHT GREEN, SHEARED ZONE? INCREASE
 R OF QTZ-CARB FRACTURE FILL. FRACTURED AT 55 DEGREES TO CORE AXIS.
 R CROSSCUTS FOLIATION, SSL -20 DEGREES PLANE.

D 7960 8260 97 X 121
 L 55R3 823 322

R 8450 8590 CORE GRADUALLY BECOMES LIGHTER GREEN AT DEPTH, PHENOCRYSTS LESS
 R COMMON, GRADUALLY LESS DISTINCT, SMALLER, BECOMES FINE GRAINED,
 R UNIFORM, WHITE WISPS, XENOLITHS, SOFT PARALLEL FOLIATION, COMMON
 R FROM 85.6-85.85. GYPSUM FRACTURE FILL IN LAST 5 CM. PARALLEL TO
 R CORE AXIS AND AT 45 DEGREES TO CORE AXIS.

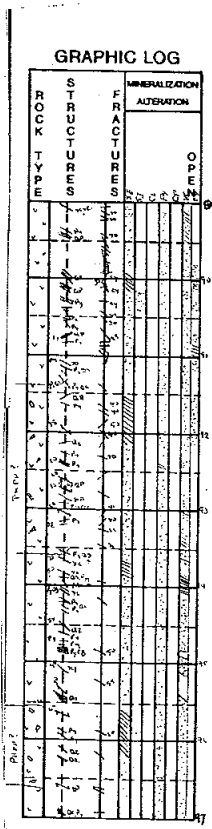
D 8260 8590 100 X 131
 L 53R3 853 162

P 8590 12190 SEXTUFF

P1Q) B <1
 E=<) Q+ V)

R FINE TO VERY FINE GRAINED, MIXTURE OF TUFF WITH PHPP FLOW? GET
 R MEDIUM GRAINED, GRANULAR, PORPHYRITIC SECTIONS (MAY BE SECTION
 R THROUGH COUPLE FLOWS-PORPHYRITIC LAYERS TO FINE GRAIN FLOW TOPS?
 R GRADATIONAL CHANGE, SAME COMPOSITION). CORE IS WEAKLY ALTERED
 R VARIES FROM SERICITE TO CLAY LOCALLY BUT GENERALLY IS FRESH.
 R YELLOW CLAY PROMINENT AT TOP OF SECTION. CORE MODERATELY
 R FOLIATED AT TOP OF UNIT, GRADES TO WEAK TO NON-FOLIATED AT DEPTH
 R COLOUR CHANGES FROM YELLOW TO YELLOW GREEN/GREY THROUGH TO
 R MEDIUM LIGHT GREY. RECOVERY IS GOOD, CORE IS COMPETENT. TEXTURE
 R MAY BE LOST DUE TO FOLIATION, MASKING BY YELLOW CLAY, OR VERY

A001	58.70	61.70	58321	.068	.040
A001	61.70	64.70	58322	.008	.020
A001	64.70	67.70	58323	.039	.040
A001	67.70	71.00	58324	.050	.020
A001	71.00	73.60	58325	.146	.130
A001	73.60	76.60	58326	.003	.010
A001	76.60	79.60	58327	.008	.020
A001	79.60	82.60	58328	.001	.005
A001	82.60	85.90	58329	.003	.020
A001	85.90	88.90	58330	.336	0.3360
A001	88.90	91.90	58331	.151	.160



R FINE GRAIN SIZE. MINOR AMOUNT OF SCATTERED QTZ CARB PATCHES, OR
R QTZ VEINING. PYRITE PRESENT AS DISSEMINATED FINE GRAINED BLEBS,
R VARIES FROM 5-15% PYRITE ALIGNS PARALLEL FOLIATION AS
R DISCONTINUOUS STRINGERS. PYRITE MICROVEINS +/- QTZ SERICITE
R ENVELOPES INTRODUCED LATER. BEST DEFINED BY LIMITS OF YELLOW
R CLAY. 85.90-86.30, POSSIBLE PHPP, SHEARED FROM TOP CONTACT,
R BOUNDINGED QTZ VEINS, LOSE CRYSTALS, DECREASE IN GRAIN SIZE AND
R INCREASE ALTERATION.

D 8905 9820 YCXTUFF P2 B= B) YC
L P1 P3

R PERVASIVE YELLOW CLAY BOUND BY PYRITIC MICROVEINS +/- QTZ-
R SERICITE ENVELOPES, AND QTZ-PY VEINS OR HEALED FRACTURES,
R FOLIATED.

D 8590 8905 100 X 141 P1 D+
L 75R3 384 122

R 8735 8806 FINE GRAINED, FELSIC, GROUNDMASS AND CRYSTALS PARALLEL FOLIATION
R PHPP.

D 8905 9190 95 X 123
L 44R2 914 225

R 9000 9080 VERY FINE GRAINED TO APHANITIC, SLIGHTLY SILICEOUS (90.00-90.35)
R PY AND QTZ VEIN, PYRITE FRACTURED OR INTRODUCED AS SUBROUNDED
R CLUSTERS, 3-4 MM. VERY WEAK YELLOW CLAY (90.00-90.35), PRESENCE
R OF BLUE GREEN CLAY PATCHES? (90.50-90.70) LOCALLY FRACTURED,
R QTZ-PYRITE INFILLING.

R 9140 9360 POSSIBLE PHPP. OCCASIONAL CRYSTALS, MAJORITY FRAGMENTS OR SHARDS
R FOLIATED AND CLAY ALTERED, NOT WELL DEFINED.

D 9190 9490 100 X 125
L 70R2 945 121

R 9350 9360 PYRITE MICROVEINS AT 60 DEGREES TO CORE AXIS. QS ENVELOPE 1-2 MM
R SMALL FEEDERS PARALLEL TO CORE AXIS.

D 9490 9790 100 X 002
L 80R2 945 014

R 9560 9660 POSSIBLE CRYSTALS ALONG FOLIATION?

R 9730 9820 FINE GRAINED FOLIATED, POSSIBLE CRYSTALS PARALLEL FOLIATION,
R GRADATIONAL INCREASE TO BASE? PYRITE 3-4%

R 9741 9743 PATCH OF BLUE-GREEN TO EMERALD GREEN WITH YELLOW CLAY MARGIN -
R 1 CM WIDE X 5 CM LONG PARALLEL FOLIATION AT LOWER EDGE OF YELLOW
R CLAY BAND, PYRITE.

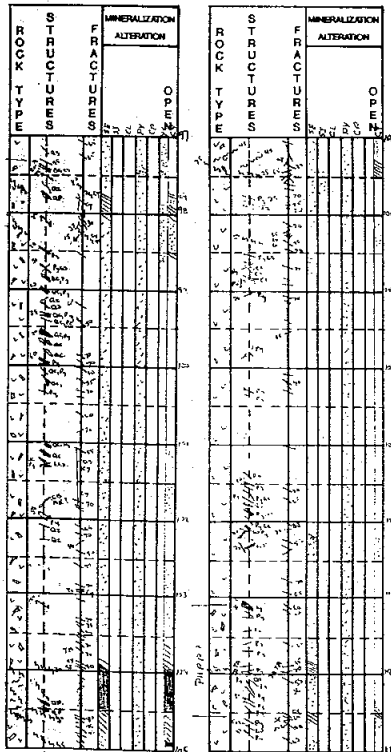
R 9819 9820 LOSE YELLOW CLAY ALTERATION, CUT BY GREY CLAY GOUGE AT 40
R DEGREES TO CORE AXIS, SSL AT 15 DEGREES TO PLANE.

N 9820 10540 SEXPHPP P2 B+ <+
L E)Q= Q2 Q=

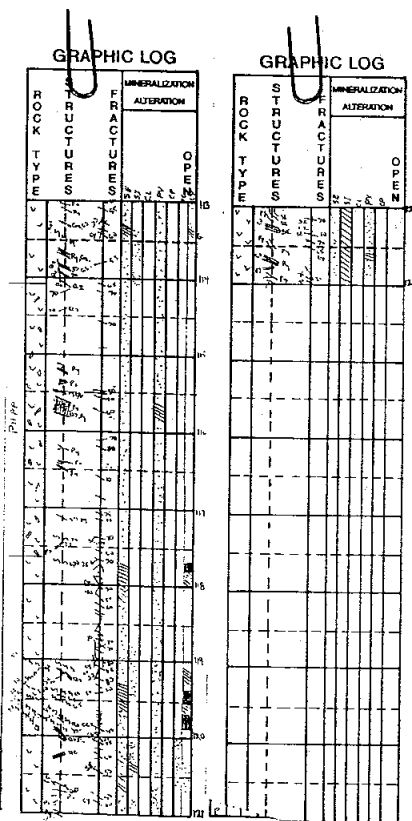
R FINE TO MEDIUM GRAIN, GRADATIONAL INCREASE TO DEPTH, CRYSTALS
R WELL DEFINED FROM 102.45-105.40. CORE IS MEDIUM TO LIGHT GREY
R IN COLOUR, INCREASE OF CLAY AND SERICITE ALTERATION AT DEPTH.

GRAPHIC LOG

GRAPHIC LOG



R ROCK VERY UNIFORM, GENERALLY COMPETENT. BANDS OF PYRITE BLEBS
R COMMON, MINOR QTZ-CARB PATCHES NOT CONTINUOUS. COARSE CLUSTERS
R OF PYRITE IN QTZ-CARB +/- SERICITE PATCHES/DISRUPTED VEINS?
R 9900 10180NON-FOLIATED, LOCALLY FRACTURED, HEALED (100.10-1000.35)
D 9790 10090 100 X
L 65R3 1005
R 10165 10170CARB STRINGER WITH ORANGE/FLESH COLOURED CARB? ANKERITE?
R 10260 10540WELL DEVELOPED CRYSTALS. MEDIUM GRAINED CRYSTALS GENERALLY 2-3
R MM OCCASIONALLY 5 MM. WELL SERICITIZED TO TALC. <2% PYRITE, +/-
R FINE SERICITE WISPS (XENOLITHS?)
D 10090 10390 100 X 011
L 50R2 1036 116
R 10365 10367VERY COARSE FRAGMENTS? ALTERED TO PALE GREEN VERY SOFT TALC?
R 10395 10455STRONG SHEAR/FAULT, SHARP CONTACTS. CLAY WITH SERICITE & QTZ
R TO LOCAL CLAY GOUGE. ORIENTATION RETAINED, GREY CLAY (SULPHIDES)
R SLIGHTLY RESISTANT BOUDINAGED QTZ AND PYRITE. LOWER CONTACT,
R DARK GREY CLAY AT 80 DEGREES TO CORE AXIS.
R 10540 10600WEAK TO MODERATELY SILICEOUS. FINE TO VERY FINE GRAINED,
R CRYSTALS TEXTURES NOT SEEN, MARBLE PRESENT?
R 10600 11400MEDIUM GREY, COMPETENT, FAIRLY, FRESH, UNALTERED CORE.
R 10670 10683FINE, 1 MM WIDE, FRACTURE INFILLING? DARK GREY WITHIN FINE
R GRAINED GREY TUFF, CROSSCUTS AND SUBPARALLELS PYRITE BANDS-
R CHALCOCITE?
R 10690 11120FRESH, UNALTERED CORE, FINE GRAINED, UNIFORM, NON FOLIATED,
R MAY HAVE CRYSTALS (MIXTURE CRYSTALS AND FRAGMENTS) POSSIBLE
R PHPP?
D 10390 10690 93 X 012
L 28R2 1067 XXX
D 10690 10990 100 X 012
L 77R3 1097 013
R 11020 11050LOCALLY FRACTURED, HEALED, SOME MINOR MOVEMENT, WEAK SHEARED
R EDGES OF FRAGMENTS, SERICITE ALTERATION LOCAL TO 20%, TRACE CLAY
R 11099 11100GOOD DISTINCT LAPILLI, SUBANGULAR 0.5 X 1.0 CM.
R 11110 11255APPEARANCE OF CRYSTALS, (PHPP)? LOSE AT 112.55 ADJACENT TO 60
R DEGREES QTZ VEIN
R 11185 11195FRACTURE AT 111.85 AT 65 DEGREES TO CORE AXIS, COATED WITH PALE
R GREEN VERY SOFT TALC (STRONG SERICITE?) INTERSTITIAL TALC,
R EXTEND FOR 2.5 CM FROM FRACTURE, SECOND FRACTURE WITH TALC
R INFILLING AT 111.92 M AT 70 DEGREES TO CORE AXIS. SLIGHT SHEAR
R AT 70 DEGREES TO CORE AXIS, STRONG SERICITE ALTERATION WITH
R TALC INFILLING ON FRACTURE, CROSSCUT QTZ AND PY VEINS.
D 10990 11290 98 X 124
L 66R3 1127 014
R 11250 11260FRACTURES AT 50 DEGREES TO CORE AXIS, PYRITE AND SERICITE
R INFILLING ON FRACTURE PLANE. MOVEMENT 20 DEGREES TO PLANE, CLAY



R ASSOCIATED.

R 11380 11395 QTZ WITH PY AT EDGE, NON-CONTINUOUS IRREGULAR VEINS 55-70 DEGREE
R TO CORE AXIS. PARALLEL TO CORE AXIS, SLIGHT SILICIFICATION OF
R CORE.

R 11410 11760 SCATTERED CRYSTALS IN CORE-PHPP? POSSIBLY TO END OF HOLE BUT
R DISRUPTED BY FOLIATION AND FINE GRAIN SIZE AT DEPTH.

R 11548 11552 SHEAR PLANE, DEVELOPMENT OF SERICITE, 1.0 CM THICK, PALE TO
R LIGHT GREEN 80 DEGREES TO CORE AXIS, LOWER CONTACT AT 70 DEGREES
R TO CORE AXIS.

D 11290 11590 93 X 113
L 73R3 1158 024

R 11565 11575 QTZ-PYRITE VEIN, CONTACTS AT 55-60 DEGREES TO CORE AXIS,
R CONCENTRATION OF PY AT TOP OF VEIN WITH QTZ AND MINOR PYRITE TO
R BASE.

R 11755 11775 FAULT/SHEAR, CLAY GOUGE WITH STRONG SERICITE AND CLAY ALTERATION
R FROM 117.67-117.75. TOP CONTACT AT 70, GREY CLAY ON PLANE, SSL
R AT 25 DEGREES TO PLANE <1% PY.

R 11775 12000 CORE IS FRACTURED AND BLOCKY. CLAY ON FRACTURES AT TOP, DECREASE
R WITH DEPTH, STRONG SERICITIC LOCALLY.

D 11590 11890 97 X 013
L 42R2 1189 235

R 11930 11980 FAULT ZONE, GOOD DISTINCT SHEARS, CLAY GOUGE WITH ROCK FRAGMENTS
R BROKEN RUBBLY CORE OF WHITE QTZ VEIN WITH PY (~3-5%) AND
R CHALCOCITE (<2%) TO GREY QTZ AND SERICITE +/-PYRITE. LOWER
R SHEAR AT 119.65-119.60. TOP CONTACT AT 45 DEGREES TO CORE AXIS,
R LOWER CONTACT AT 40 DEGREES TO CORE AXIS, QTZ VEIN FRAGMENT IN
R CLAY GOUGE.

R 11990 11995 FRACTURE AT 35 DEGREES TO CORE AXIS, SERICITIC DEVELOPED, AND
R CLAY, AND AT 55 DEGREES TO CORE CORE AXIS. SERICITIC ON FRACTURE

R 12030 12055 WEAK CLAY ALTERATION OF CORE, WITH QTZ FLOODING, MINOR YELLOW
R CLAY, AND PATCHES OF BLUE GREEN CLAY.

R 12075 12190 PATCHY BLUE GREEN CLAY AT 120.75-120.85. CORE BECOMES VERY FINE
R GRAINED TO APHANITIC AND SILICEOUS.

R 12085 12190 SILICIFIED CORE, PALE WHITE-GREY WITH PYRITE(5%), TEXTURES ARE
R LOST, MINOR SERICITIC TUFF MATERIAL, BLUE GREEN CLAY PATCHES AT
R 121.15, ON FRACTURE AT 121.25 AT 75 DEGREES TO CORE AXIS. AT
R 121.30 FOR 2 CM, BLUE GREEN SERICITE AT 60 DEGREES TO CORE AXIS.
R TO FRACTURE AT 121.32 M, SHARP CONTACT WITH SILICIFICATION.
R PYRITE PARALLEL TO CONTACT IN SERICITE BAND. FROM 121.50-121.90
R LOCAL FRACTURING WITH PYRITE INFILLING.

D 11890 12190 93 X 124
L 30R3 1219 125

A001	91.90	94.90	58332	.126	.190
A001	94.90	97.90	58333	.115	.170
A001	97.90	100.90	58334	.114	.220
A001	100.90	103.90	58335	.054	.130
A001	103.90	106.90	58336	.112	.120
A001	106.90	109.90	58337	.112	.100
A001	109.90	112.90	58338	.140	.140
A001	112.90	115.90	58339	.086	.100
A001	115.90	118.90	58340	.076	.080
A001	118.90	121.90	58341	.047	.070

The A005 assay sets are selected
composites based on copper grades

and geology

	From	To	Length	Cu %	Au g/t
A005	3.05	25.80	22.75	.052	.184
A005	25.80	40.60	14.80	.387	.161
A005	40.60	58.70	18.10	1.148	.445
A005	58.70	85.90	27.20	.034	.032
A005	85.90	112.90	27.00	.140	.157
A005	112.90	121.90	9.00	.070	.083

/END

IDEN680201 KERR KS-0858QWL00AUG90SMP JTTAUG90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 3510MT 140.20090.00-60.00 10208.00 9693.00 1493.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0

LSCL PC.0 LCTH
 S001 3510 10515 140.20079.00-53.00
 S001 10515 14020 140.20079.00-52.50
 A003

ALUMM MAG
 P 000 305 OVBD
 L

P 305 390 MCOR
 L

P 390 2300 CL9LAAP
 L

From To Sample Cu % Au g/t Ag ppm Pb ppm Zn ppm
 (dupl) (dupl)

A001 3.90 4.80 56704 .218 .150
 A001 4.80 8.20 56705 .051 .040
 A001 8.20 11.20 56706 .248 .130
 A001 11.20 14.20 56707 .034 .050
 A001 14.20 17.00 56708 .002 .060

P3 CD
 V) P) V)
 R FINE GRAINED TO APHANITIC, MOTTLED WHITE AND DARK GREEN,
 R MODERATELY HARD H=4 ANDESITE DYKE WITH CHL-QTZ-CB EXTENSION
 R VEINS WHICH ARE CROSSCUT BY QTZ-CARBONATE VEINS WITH CHLORITE
 R SELVAGES. THE DYKE HAS EXTENSIVE CHLORITE ALTERATION, BUT
 R BETWEEN (17.8 TO 18.9 M) IT IS TINGED PURPLE. THE DYKE HAS
 R SECTIONS OF HOST ROCK BETWEEN (3.9-4.8 M), (8.2-9.35), (9.8-
 R 11.2 M), AND (20.4-22.9 M). THE HOST ROCK IS A SERICITIC ALTERED
 R PHPP WITH 10% DISSEMINATED PY, MODERATE FOLIATION 1% QTZ-PYRITE
 R VEINS AND TRACE OF CHALCOCITE ON PYRITE VEINS ON FRACTURES. WEAK
 R CHLORITE ALTERATION IN INTERVAL (8.2-9.35 M). DYKE HAS
 R DISSEMINATED CARBONATE IN APHANITIC SECTIONS 1%. CHILL MARGINS
 R ON DYKE IN CONTACT WITH PHPP.

D 390 480 100SEPHPP 010 P3 P1
 L 60R2 111 C) <)

L 480 820 92 X
 L 79R3 61

R 675 695SERICITE PHPP XENOLITHS, SUBROUNDED 1 CM-2 CM IN DYKE, XENO'S
 R TINGED PURPLE.

D 820 1120 95SEBPHPP P3 P) P1 V)
 L 70R2 91 C) <)

R 870 880APHANITIC LATITE DYKE.

D 1120 1420 90 X 222
 L 81R3 122 111

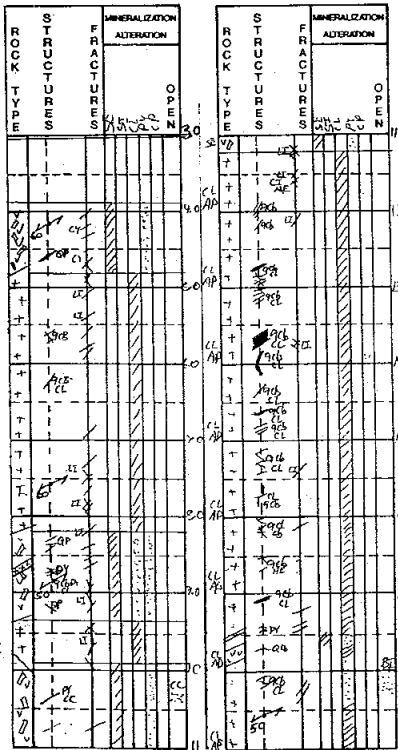
R 1350 1420BLEACHING OF DYKE BY QTZ-CB-CL VEINS CAUSE IT TO CHANGE COLOUR
 R TO PALE GREEN UP TO 20 CM AWAY FROM CONTACT.

D 1420 1700 91 X 222
 L 90R3 152 010

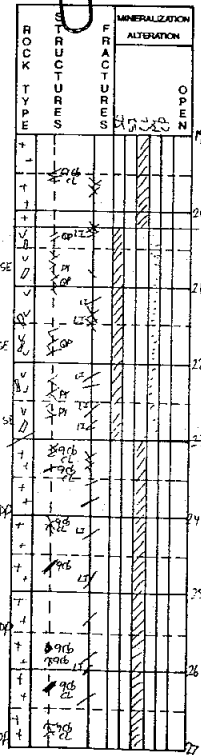
R 1650 1690TRACE OF HEMATITE IN QTZ-CB VEINS WHICH HAVE CL SELVAGES.

GRAPHIC LOG

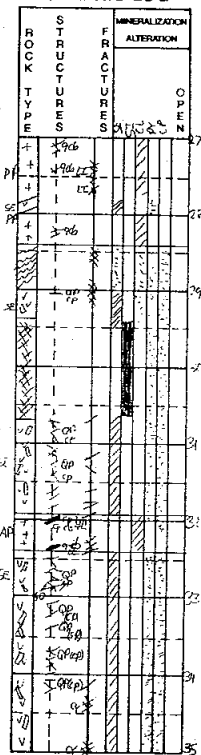
GRAPHIC LOG



GRAPHIC LOG



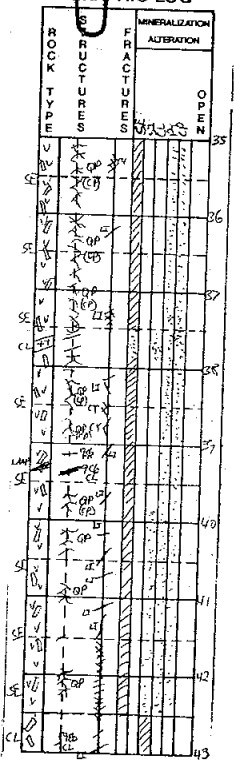
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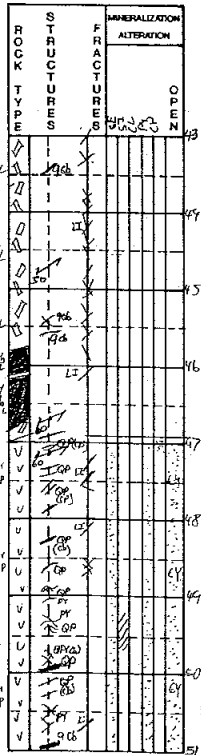
D 1700 2020 98 X 111 BI
 L 92R3 183 111 P)
 R SECONDARY BIOTITE? CAUSES DYKE TO TURN PRPLE BETWEEN 17.8 AND
 R 18.3 M
 R 1750 1790 TWO SECTIONS OF HOST ROCK, HIGHLY SHEARED MYLONITE CL PHPP-5X
 R PY VEINS, SECOND SE-PHPP WITH CROSSCUTTING QTZ CB VEINS AND QP
 R VEINLETS 1% DYKE HAS CHILLED CONTACT.
 R 1880 2020 BRITTLE FOLIATION TRENDING 50 DEGREES TO CORE AXIS IN DYKE.
 D 2020 2300 84SEXP
 L 62R3 213 E)
 P 2300 2840 CLXLAAP P3
 L V) V)
 R DARK GREEN, MOTTLED WHITE BY FELDSPAR PHENOCRYSTS 2 X 5 MM 20%
 R IN A DARK GREEN MATRIX. UNIT IS WEAKLY FOLIATED, CROSSCUT BY
 R /CB VEINS WITH CHL SELVAGES.
 D 2300 2600 96 X 111
 L 78R3 244 111
 D 2600 2840 86 X 222
 L 64R3 274 222
 R 2790 2810 SHEARED SE-PHPP WITH BRECCIATED QTZ-PY VEINS.
 P 2840 4250 SE9PHPP P3 D= B)<= V1
 R GREY MOTTLED WHITE BY SERICITE ALTERED FELDSPARS. GOOD FOLIATION
 R WHICH VARIES IN DIRECTION AROUND QTZ-PYRITE VEINS. UNIT IS UP TO
 R 30% QTZ VEINS AWAY FROM THE CRACKLE BRECCIA AT (29.4 TO 30.7 M)
 R THE NUMBER OF QTZ-PYRITE VEINS DECREASE AWAY FROM CRACKLE
 R BRECCIA. CP 2.5% BLEBS INFILL FRACTURES IN THE QTZ-PYRITE VEINS
 R PYRITE IS DISSEMINATED 5% AS BLEBS, 0.5 MM CUBES.
 D 2840 2940 90 X 222 P2 P1
 L 20R2 333
 R UNIT IS COMPRISED OF FAULT GOUGE, CONTORTED FOLIATION IN SCHIST.
 R 1% QP VEINS WITH CP BLEBS.
 D 2940 3070 100KRXBQZ P+P8 B= B=B1
 L 100R3 304
 R MILKY GREY CRACKLED QTZ WITH PYRITE INFILLING AND CP BLEBS 5%
 D 3070 3300 92 8 222
 L 73R3 111
 R 3190 3240 APHANITIC LATITE DYKE WITH EXTENSION RELATED QTZ-CB-CL VEINS ON
 R EITHER SIDE, TOP ONE HAS CP AND BN 1% BLEBS IN IT.
 D 3300 3600 100 X 222
 L 95R3 335 111
 D 3600 3900 88 X 333
 L 65R3 366 111
 R 3760 3780 APHANITIC CHLORITE ALTERED LATITE DYKE, DIFFUSE CONTACT WITH
 R SE-SCHIST.

A001	17.00	20.20	56709	.044	.070
A001	20.20	23.00	56710	.210	.170
A001	23.00	26.00	56711	.020	.040
A001	26.00	28.40	56712	.002	.005
A001	28.40	29.40	56713	.684	.500
A001	29.40	30.70	56714	3.200	3.1800
A001	30.70	33.00	56715	1.060	.980
A001	33.00	36.00	56716	1.210	1.2100
A001	36.00	39.00	56717	.848	.450

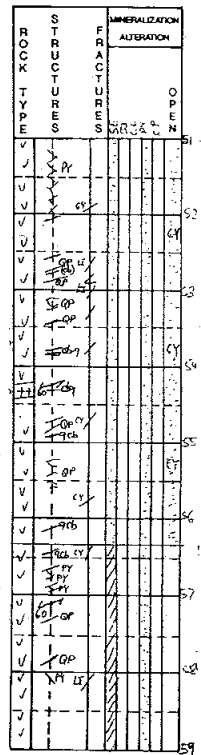
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GRAPHIC LOG



GRAPHIC LOG



D 3900 4250 87 X P=
 L 47R3 396
 R WEAK CHLORITE ALTERATION INCREASES WITH DEPTH FROM 39.8 M
 R 3950 3955 APHANITIC CHLORITIC LATITE DYKE WITH 4.0 CM THICK QTZ-CB-
 R CL VEINS.
 P 4250 4690 CLXANPP P3 PO

L V= P) B) V1
 R DARK GREEN MOTTLED WHITE BY FELDSPAR PHENOCRYSTS 5 X 10 MM
 R 20% AND LARGER FELDSPARS 10 X 20 MM TRACE, UNIT IS MODERATELY
 R FOLIATED, HARD N=4 CROSSCUT BY QTZ-CB-CHLORITE-DOLomite
 R EXTENSION VEINS UP TO 40 CM THICK. LARGE FELDSPARS ARE
 R BOUDINAGED WITH CALCITE INFILLING. CROSSCUTTING FRACTURES ARE
 R LIMONITE STAINED.

D 4250 4450 68 X 111
 L 4450 4690 38R3 427 222
 D 4450 4690 85 X 111
 L 59R3 457 222

P 4690 5630 CYXTFLP P1 D= B.V+
 L E+<) P2 VJV+
 R YELLOW-BUFF MOTTLED GREY BY SERICITE ALTERED FELDSPARS. TRACE
 R TRACE GREEN-BLUE TALC ALTERATION OF CLASTS. LAPILLI CLASTS ARE
 R SUBROUNDED, FLATTEN PARALLEL TO FOLIATION. PRIMARY QTZ/PY VEINS
 R 5% ARE BOUDINAGED WITH CALCITE INFILLING, PYRITE VEINS HAVE QTZ
 R /SERICITE ENVELOPES. PYRITE IS DISSEMINATED 5% CUBES. TRACE CP
 R IN OP VEINS.

D 4690 5000 95 X 222
 L 94R3 487 111
 R 4930 4960 PERVASIVE SILICIFICATION OF MATRIX AROUND LAPILLI FRAGMENTS,
 R BLUE-GREY TINT TO REPLACED FRAGMENTS.
 D 5000 5300 99 X 222
 L 91R3 518 111
 D 5300 5630 96 X 122
 L 91R3 548 111

R 5425 5445 MODERATELY FOLIATED CHLORITE ALTERED APHANITIC DYKE WITH CALCITE
 R QTZ FILLED EXTENSION VEINS.
 P 5630 6480 SEXTFLP P4 D= <)

R LIGHT GREY, MOTTLED, H=4, SERICITE ALTERED LAPILLI TUFF.
 R FRAGMENTS ARE SUBROUND 1.0 TO 3.0 CM IN DIAMETER, COMPOSITION
 R DACITIC 40%, SIMILAR TO MATRIX, FELSIC 10%, LIGHT BROWN-GREY
 R MAFIC? DARK GREY 5% MATRIX 45%. DISSEMINATED PYRITE CUBES,
 R 0.5 MM IN CLASTS 1% AND FINE GRAINED BLEBS 5% IN MATRIX. TRACE
 R QTZ-PYRITE VEINS. MATRIX IS WEAKLY FOLIATED.

D 5630 5900 97 X 111
 L 93R3 579 100

A001	39.00	42.50	56718	.528	.340
A001	42.50	44.50	56719	.120	.110
A001	44.50	46.90	56720	.006	.040
A001	46.90	50.00	56721	.190	.150
A001	50.00	53.00	56722	.182	.200
A001	53.00	56.30	56723	.122	.130
A001	56.30	59.00	56724	.046	.070

D 5900 6200 90 X 000
 L 77R3 609 121
 R 6120 6130 INTENSELY OXIDIZED, BLOCKY LIMONITE COATED SERICITE ALTERED
 LAPILLI TUFF.
 D 6200 6480 90 X 010
 L 81R3 640 222
 P 6480 7990 SEXPHPP P3 D=

<><>
 R DULL LIGHT GREY, MOTTLED DARK GREY, MEDIUM GRAINED TO FELDSPAR
 PHENOCRYSTS (BROKEN) BETWEEN (64.8 TO 65.8 M), SERICITE ALTERED
 PHPP. MODERATE FOLIATION 70-80 DEGREES CA. DISSEMINATED PYRITE
 5% AND Q VEINS INCREASING IN NUMBER DOWN SECTION. PERSVASIVE
 SERICITE ALTERATION CHANGES TO SERICITE AND YELLOW CLAY BELOW
 74.5 M.

D 6480 6800 92 X 121
 L 85R3 671 111
 D 6800 7100 93 X 111
 L 63R3 701 111
 R 6895 6910 INTENSE CLAY WHITE ALTERATION OF SERICITE.
 R 6930 6985 INTENSE CLAY ALTERATION OF SERICITE, CORE IS VERY SOFT CS=R1,
 BLACK MICACEOUS MINERAL COATS FRACTURES, FOLIATION IS CONTORTED.
 POSSIBLE FAULT?

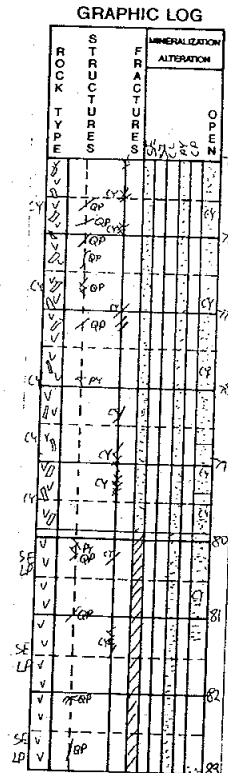
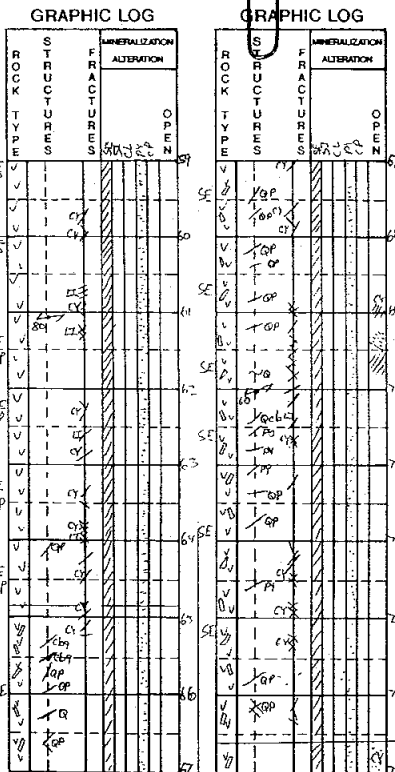
D 7100 7460 86 X 011
 L 57R3 731 111
 D 7460 7700 96CYXPHPP 111 P1
 L 79R3 762 011 P2
 R MINOR YELLOW CLAY ALTERATION RANGES FROM 0 TO 20% REPLACING?
 SERICITE, A SMALL NUMBER OF ROUNDED CLASTS AT BOTTOM OF
 INTERVAL.

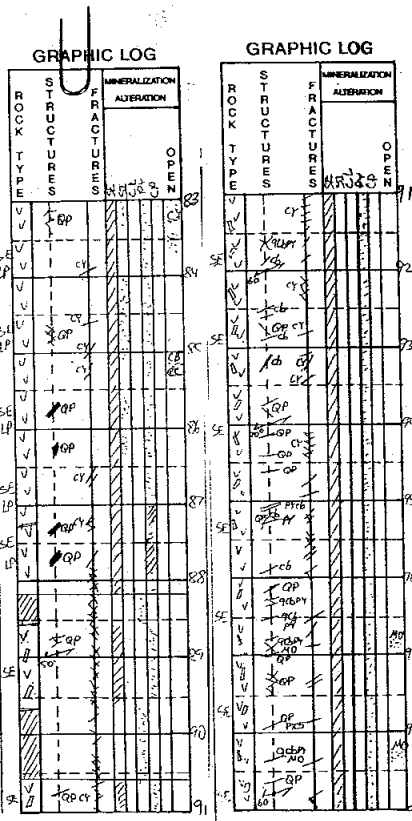
D 7700 7990 96CYXTFXL 011 P1
 L 73R3 792 111 P2
 R 7875 7940 PERSVASIVE WHITE CLAY ALTERATION OF SERICITE, RUBBLY CORE.
 P 7990 8820 SEXTFLP P4P1 D+

P= <1
 R SERICITE ALTERED, WEAKLY TO MODERATELY FOLIATION, MEDIUM HARD
 H=4, LAPILLI TUFF, FRAGMENTS ARE ROUNDED, AND ALL THE SAME
 COMPOSITION FORMING 70% OF UNIT. CLASTS ARE BRECCIATED BY
 QTZ-PY VEINS. INDIVIDUAL FRAGMENTS ARE SILICIFIED. YELLOW
 CLAY ALTERATION WITH SERICITE FROM (79.9 TO 81.3 M) AND (82.9
 TO 83.6).

D 7990 8300 92 X 111
 L 82R3 823 111
 D 8300 8600 93 X 111
 L 91R3 853 011 V.
 R 8525 8535 CARBONATE CEMENTS QTZ AND PYRITE GRAINS AND SERICITE ALTERED

A001	59.00	62.00	56725	.063	.060
A001	62.00	64.80	56726	.108	.070
A001	64.80	68.00	56727	.044	.110
A001	68.00	71.00	56728	.040	.080
A001	71.00	73.00	56729	.063	.090
A001	73.00	74.60	56730	.063	.080
A001	74.60	77.00	56731	.043	.100
A001	77.00	79.90	56732	.035	.150
A001	79.90	83.00	56733	.126 0.1210	.110
A001	83.00	86.00	56734	.035	.140





R LAPILLI, TRACE CHALCOCITE ON PYRITE.

D 8600 8820 99 X 111
L 70R3 121

R 8740 8745 SANDY DYKE, CHILL MARGINS, UNALTERED AND UNDEFORMED CORE.

R AMYGDULES 1.0 MM DIAMETER, CALCITE FILLED FRACTURES.

P 8820 9060 70CA SANDY 111 S. MG
L 21R3 889 777 A= D=

R MIXED UNIT OF AMYGDALOIDAL ANDESITE DYKE AND SERICITE ALTERED
R MODERATELY FOLIATED PHPP. DYKE HAS CALCITE FILLED AMYGDULES,
R QTZ AND BIOTITE PHENOCRYSTS, DISSEMINATED MAGNETITE 5%. NO
R DEFORMATION, CALCITE FILLED FRACTURES NEAR CONTACT WITH SCHIST
R AND CHILL MARGINS. TRACE CHLORITE RIMS OR AMYGDULES.
R MAGNETIC SUSCEPTIBILITY OF DYKE 5000 X 10^(-5 POWER) SI

P 9060 10380 SEXPHPP P4 D= <) MO
L V) C) V)V) S.

R MEDIUM GRAINED, MOTTLED GREY, AND WHITE, MEDIUM HARD H=3,
R SERICITE ALTERED PHPP. DISSEMINATED PYRITE 5%, QTZ-PYRITE VEINS
R 1% CROSSCUT FOLIATION AT SHALLOW ANGLE. QTZ-PY-CALCITE VEINS 1%
R CROSSCUT FOLIATION AND HAVE MOLYBDENITE SELVAGES TRACE. MODERATE
R FOLIATION AT 50 DEGREES TO CORE AXIS. WHITE CLAY COATS FRACTURES
R 1%, CALCITE FILLED FRACTURES 1% CUT FOLIATION.

D 9060 9300 74 X 021
L 39R3 914 333

D 9300 9600 88 X 122
L 60R3 945 122

D 9600 9900 99 X 022
L 83R3 975 122

D 9900 10150 96 X 122
L 60R3 1006 111

D 10150 10380 90 X 022
L 83R3 1036 121

P 10380 13524 CYXPHPP P2 S. D+
L E+V) P1 V=

R THIS INTERVAL HAS THE SAME TEXTURES AS THE ABOVE EXCEPT YELLOW
R CLAY, SERICITE ALTERATION AND QTZ-SERICITE ENVELOPES AROUND QP
R VEINS. QP VEINS CROSSCUT FOLIATION TO FORM A STOCKWORK -5% QP
R VEINS 1.0 TO 5.0 MM THICK. QTZ-PY-CB VEINS 1% CROSSCUT QP VEINS
R TRACE CHLORITE SELVAGES AROUND QTZ-PY-CB VEINS.

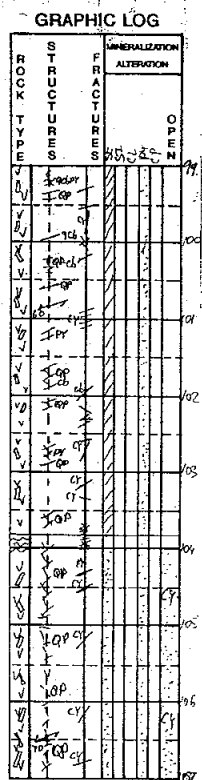
D 10380 10700 97 X 333
L 88R3 1067 111

R 10380 10405 INTENSELY CLAY ALTERED CY-SE PHPP, CONTORTED FOLIATION, FAULT
R GOUGE?

D 10700 11000 95 X 222
L 79R3 1097 010

D 11000 11300 88 X 333

A001	86.00	88.20	56735	.014	.150
A001	88.20	90.60	56736	.103	.080
A001	90.60	93.00	56737	.057	.130
A001	93.00	96.00	56738	.137	.140
A001	96.00	99.00	56739	.269	.180
A001	99.00	101.50	56740	.153	.140
A001	101.50	103.80	56741	.165	.120
A001	103.80	107.00	56742	.102	.140
A001	107.00	110.00	56743	.095	.120



GRAPHIC LOG

GRAPHIC LOG

ROCK TYPE	STRUCTURES	MINERALIZATION ALTERATION			
		OPEN	CLAY	CHLORITE	OTHER
U	OP				
V	OP				
W	OP				
X	OP				
Y	OP				
Z	OP				
AA	OP				
AB	OP				
AC	OP				
AD	OP				
AE	OP				
AF	OP				
AG	OP				
AH	OP				
AI	OP				
AJ	OP				
AK	OP				
AL	OP				
AM	OP				
AN	OP				
AO	OP				
AP	OP				
AQ	OP				
AR	OP				
AS	OP				
AT	OP				
AU	OP				
AV	OP				
AW	OP				
AX	OP				
AY	OP				
AZ	OP				
BA	OP				
BB	OP				
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BD	OP				
BE	OP				
BF	OP				
BG	OP				
BH	OP				
BI	OP				
BJ	OP				
BK	OP				
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BM	OP				
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BO	OP				
BP	OP				
BQ	OP				
BR	OP				
BS	OP				
BT	OP				
BU	OP				
BV	OP				
BW	OP				
BX	OP				
BY	OP				
BZ	OP				
CA	OP				
CB	OP				
CC	OP				
CD	OP				
CE	OP				
CF	OP				
CG	OP				
CH	OP				
CI	OP				
CJ	OP				
CK	OP				
CL	OP				
CM	OP				
CN	OP				
CO	OP				
CP	OP				
CQ	OP				
CR	OP				
CS	OP				
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CU	OP				
CV	OP				
CW	OP				
CX	OP				
CY	OP				
CZ	OP				
DA	OP				
DB	OP				
DC	OP				
DD	OP				
DE	OP				
DF	OP				
DG	OP				
DH	OP				
DI	OP				
DJ	OP				
DK	OP				
DL	OP				
DM	OP				
DN	OP				
DO	OP				
DP	OP				
DQ	OP				
DR	OP				
DS	OP				
DT	OP				
DU	OP				
DV	OP				
DW	OP				
DX	OP				
DY	OP				
DZ	OP				
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EC	OP				
ED	OP				
EE	OP				
EF	OP				
EG	OP				
EH	OP				
EI	OP				
EJ	OP				
EK	OP				
EL	OP				
EM	OP				
EN	OP				
EO	OP				
EP	OP				
EQ	OP				
ER	OP				
ES	OP				
ET	OP				
EU	OP				
EV	OP				
EW	OP				
EX	OP				
EY	OP				
EZ	OP				
FA	OP				
FB	OP				
FC	OP				
FD	OP				
FE	OP				
FF	OP				
FG	OP				
FH	OP				
FI	OP				
FJ	OP				
FK	OP				
FL	OP				
FM	OP				
FN	OP				
FO	OP				
FP	OP				
FQ	OP				
FR	OP				
FS	OP				
FT	OP				
FU	OP				
FV	OP				
FW	OP				
FX	OP				
FY	OP				
FZ	OP				
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GD	OP				
GE	OP				
GF	OP				
GG	OP				
GH	OP				
GI	OP				
GJ	OP				
GK	OP				
GL	OP				
GM	OP				
GN	OP				
GO	OP				
GP	OP				
GQ	OP				
GR	OP				
GS	OP				
GT	OP				
GU	OP				
GV	OP				
GW	OP				
GX	OP				
GY	OP				
GA	OP				

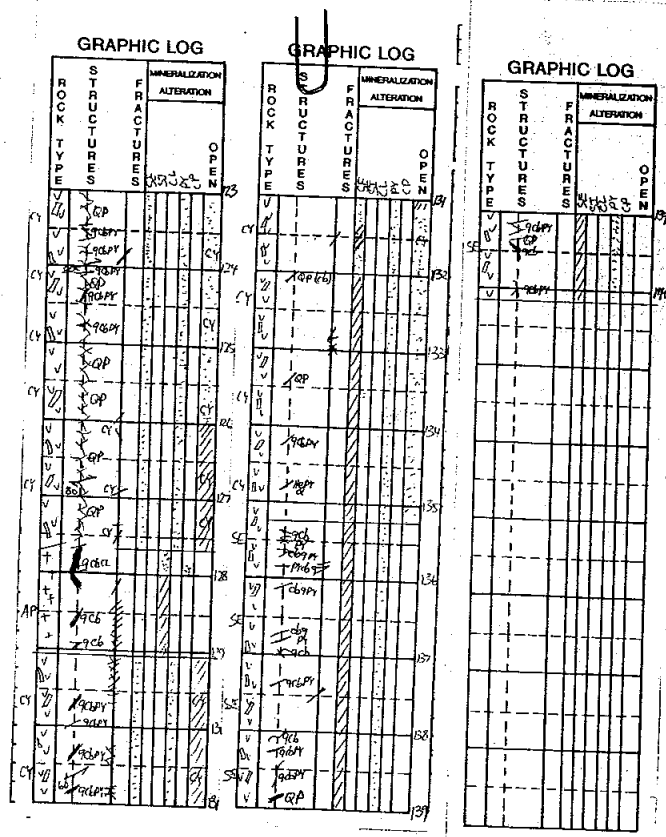
L 68R3 1128 111
R 11289 11290 TRACE OF GREEN MICA SURROUNDED BY YELLOW CLAY ALTERATION.
D 11300 11600 99 X 444
L 92R3 1158 001 <1
R DITTO INTERVAL HAS A HIGHER DENSITY OF CROSSCUTTING QTZ-PYRITE VEINLETS.
D 11600 11900 100 X 333
L 98R3 1189 111
D 11900 12200 99 X 333
L 87R3 1219 111
D 12200 12500 98 X 333
L 97R3 1125 010
D 12500 12765 94 X 333
L 90R2 111
R BELOW 126.0 THE WHITE CLAY ALTERATION OF SERICITE INCREASES
R TOWARDS THE CONTACT WITH THE APHANITIC LATITE DYKE, GREEN MICA
R INCREASES IN CONCENTRATION AND THE FOLIATION IN THE ROCK IS MORE
R PRONOUNCED.
N 12765 12910 85CLXLAAP 111 P4 B.
L 34R2 1280 021 V1 V1
R CHLORITE ALTERED, FINE GRAINED, CROSSCUT BY QTZ-CB VEINS WITH
R CHLORITE SELVAGES. WEAKLY FOLIATED AT 70 DEGREES TO CORE AXIS.
R QTZ-CB VEINS UP TO 10 CM THICK HAVE EQUIGRANULAR AND SAWTOOTH
R QTZ WITH CALCITE INFILLING, CHLORITE FORMS SELVAGES TO VEINS,
R BUT ALSO WIGGLY WISPS IN THE VEIN. TRACE CP BLEBS IN QTZ-CB
R VEINS CROSSCUT BY LATER QTZ-CB VEINS.
R FRACTURES ARE POLISHED DUE TO SHEARING. 80 DEGREES C.A.
D 12910 13200 98 X 111
L 84R2 1311 121 <>
D 13200 13524 100 X 010
L 91R3 1341 111 <>
R SERICITE CONTENT IN UNIT INCREASES DOWNROAD REPLACING YELLOW
R CLAY. TRACE GREEN MICA WITH CLAY.
R 13480 13484 GREY QTZ VEIN WITH PY AGGREGATES IN SPECULAR HEMATITE.
P 13524 14020 SEXPHPP P4 D=
L V) V)<>
R MEDIUM GRAINED, MOTTLED GREY AND WHITE, WEAKLY FOLIATED, ALTERED
R FELDSPARS 0.5 X 2 MM, 30% VISIBLE, MODERATELY HARD H=4, SERICITE
R ALTERED PHPP. PYRITE IS DISSEMINATED AS BLEBS 5 %. PYRITE ALSO
R OCCURS IN QTZ AND QTZ-CALCITE VEINS. CALCITE IN QTZ-CALCITE VEINS
R HAS SPOTS OF PINK COLOUR.
D 13524 13800 96 X 012
L 93R3 1372 010
D 13800 14020 100 X 112
L 100R3 1402 000

A001	110.00	113.00	56744	.106	.130
A001	113.00	116.00	56745	.092	.130
A001	116.00	119.00	56746	.069	0.0660 .130
A001	119.00	122.00	56747	.044	.130
A001	122.00	125.00	56748	.079	.130
A001	125.00	127.65	56749	.077	.150
A001	127.65	129.10	56750	.010	.020
A001	129.10	132.00	56751	.061	.100
A001	132.00	135.24	56752	.087	.170
A001	135.24	138.00	56753	.089	.150
A001	138.00	140.20	56754	.036	.160

R END OF HOLE AT 140.20 METRES.

The A005 assay sets are selected
composites based on copper grades
and geology

	From	To	Length	Cu %	Au g/t
A005	3.90	28.40	24.50	.082	.074
A005	28.40	42.50	14.10	1.085	.570
A005	42.50	64.80	22.30	.108	.107
A005	64.80	79.90	15.10	.046	.104
A005	79.90	113.00	33.10	.115	.132
A005	113.00	140.20	27.20	.068	.132
/END					



IDEN680201 KERR KS-086BQW00AUG90WKH JTTAUG90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 3000MT 140.20000.00-90.00 10208.00 9693.00 1493.00
 /NAM SESICLEPP1XXXXCPP28NXXYY
 LNAM QSCBKFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0

L SCL PC.0 LCTM
 S001 3000 7500 140.20117.00-87.50
 S002 7500 14020 140.20102.00-85.00
 A003

AUMM MAG
 P 000 300 CSNG
 L

P 300 430 OVBD
 L

P 430 855 SEXTUFF
 L

R TUFF UNIT THAT HAS UNDERGONE ABUNDANT SERICITIC ALTERATION.
 R DUE TO ITS PROXIMITY TO THE SURFACE, THE UNIT IS VUGGY DUE TO
 R DISSOLUTION OF CLAYS ETC. FRACTURES ARE INTENSELY LI STAINED.
 R PY OCCURS AS SMALL DISSEMINATED CRYSTALS SCATTERED THROUGHOUT.
 R THE UNIT IS A VERY LIGHT GREY AND IS FINE GRAINED. FOLIATION IS
 R VERY WEAK AT 15 DEGREES.

D 430 630 100 X 010
 L 55R2 61 110

D 630 855 100 X 010
 L 53R2 110

P 855 2630 9LAAP
 L

R DARK GREEN, INTENSELY INTRUDED BY QTZ/CB VEINS. MAGNETIC IN
 R PLACES. THE ZONE FROM 9.15 TO 14.50 IS COARSER GRAINED THAN THE
 R REST OF THE UNIT (FINE GRAINED VS APHANITIC) AND MAYBE A
 R DIFFERENT MAGMA AS QTZ/CB VEINS DEFINE THE BOUNDARIES OF THIS
 R ZONE. CL PATCHES (SOME VERY LARGE) ARE ASSOCIATED WITH THE QTZ/
 R CB VEINS. XENOLITHS OF BXQZ OCCUR AT 18.70 AND 19.80. THE QTZ/CB
 R VEINS ARE SLIGHTLY VUGGY DUE TO CB DISSOLUTION. WEAK FOLIATION
 R AT 40.

D 855 1155 100 X 020
 L 85R3 91 020

R DENDRITIC MANGANITE AT 13.10

D 1155 1510 96 X 121
 L 94R3 122 010

N 1510 1610 100VVXTUFF 555
 L 90R3 152 011

R SERICITIC TUFF UNIT WHICH HAS BEEN INTRUDED BY CRACKLED QTZ

From To Sample Cu % Au g/t Ag ppm Pb ppm Zn ppm
 (dupl) (dupl)

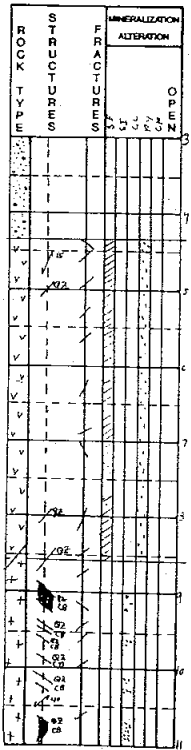
A001 4.30 6.30 57973 .049 .150
 A001 6.30 8.55 57974 .025 .220
 A001 8.55 11.55 57975 .018 .040
 A001 11.55 15.10 57976 .030 .050
 A001 15.10 16.10 57977 .988 .380
 A001 16.10 19.10 57978 .152 .060

P3 D=

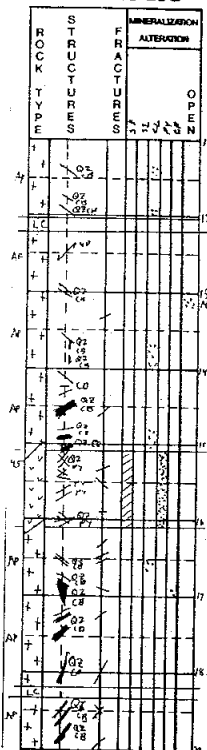
<)

Q+ B- QC
 <) <) V=

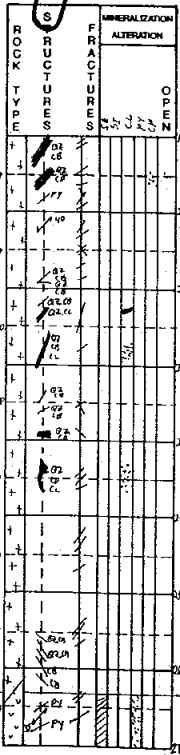
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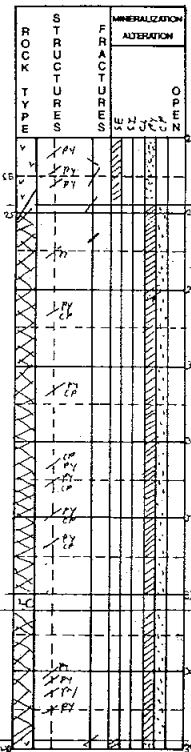
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R VEINS AND PY VEINLETS COMPOSED OF AGGLOMERATIONS OF PY BLEBS.
 R THE PY IS SLIGHTLY JA STAINED FOLIATION IS MODERATE AT 35.
 N 1815 1830 XMCOR

R ZONES FROM 17.50 TO 17.90 SHOW OPHITIC TEXTURE AND PORPHYRITIC
 R HB. THE HB PORPHYRYS CONTINUE TO 19.00.

D 1610 1910 95 X 120
 L 67R3 183 120
 D 1910 2210 100 X 121
 L 58R3 213 131
 D 2210 2440 100 X 111
 L 87R3 244 020
 D 2440 2630 100 X 020
 L 98R3 010

P 2630 2785 100SEXTUFF 020 P3 D1 <<
 L 77R2 274 110

R LIGHT GREY, FINE GRAINED TUFF UNIT COMPOSED OF QTZ AND F-SPAR
 R WHICH HAS UNDERGONE INTENSIVE SERICITIC ALTERATION. UNIT IS
 R MODERATELY FOLIATED AT 35. PY OCCURS AS TINY DISSEMINATED
 R CRYSTALS AND MICROVEINLETS.

P 2785 6055 KR9BXQZ P1 Q) B++4B(CC
 L V6 +*

R STOCKWORK ZONE OF QTZ VEINS WHICH HAVE BEEN CRACKLED AND THE
 R BRECCIA CLASTS CEMENTED BY SULPHIDES. THESE QTZ VEINS CONSTITUTE
 R 60-70% OF THE UNIT. THE REST OF THE UNIT IS SE TUFF. PY AND
 R LESSERCP CP ARE THE PRINCIPAL SULPHIDE MINERAL. LATE STAGE LARGE
 R SULPHIDE VEINS INTRUDE THE BRECCIA OCCASIONALLY.

D 2785 3085 100 X
 L 100R3 305 010
 D 3085 3300 100 X
 L 100R3 000
 D 3300 3490 89 X
 L 89R3 335 000

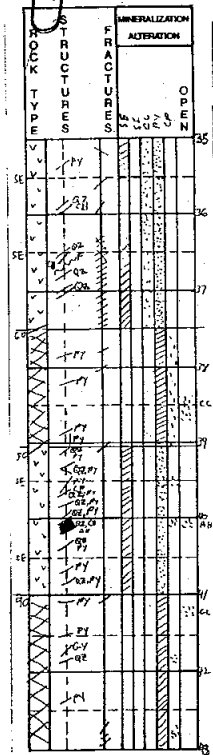
N 3300 3320 XMCOR
 N 3490 3750 98SEXTUFF 020 P3 P1 D= <<
 L 23R2 366 333 <) <)

R TUFF UNIT THAT HAS UNDERGONE EXTENSIVE SERICITIC ALTERATION AND
 R MODERATE CHLORITIC ALTERSTION. THE UNIT IS LIGHT GREEN AND FINE
 R GRAINED. FOLIATION IS WEAK AT 50. PY OCCURS AS SMALL
 R DISSEMINATED CRYSTALS AND AS OCCASIONAL MICROVEINLETS. A SMALL
 R FAULT OF UNDETERMINED TREND OCCURS AT 36.70, THE UNIT IS
 R BLOCKY AFTER THE FAULT.

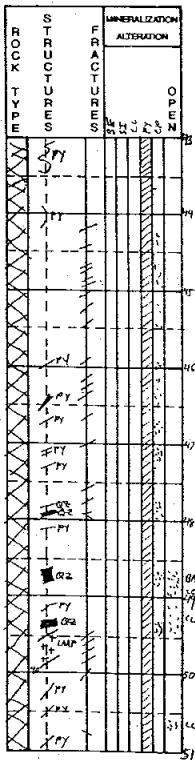
D 3750 3905 100 X
 L 100R3 010
 N 3905 4100 100SEXTUFF 120 P3 D1QC B*<) AH

A001	19.10	22.10	57979	.217	.100
A001	22.10	24.40	57980	.010	.040
A001	24.40	26.30	57981	.016	.030
A001	26.30	27.85	57982	.764	.270
A001	27.85	30.85	57983	1.540	1.230
A001	30.85	33.00	57984	1.270	.800
A001	33.00	34.90	57985	.824	.610
A001	34.90	37.50	57986	.436	.250
A001	37.50	39.05	57987	1.160	.390

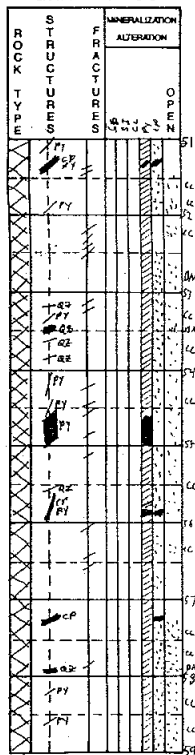
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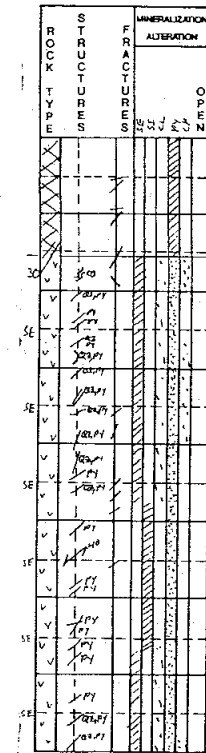
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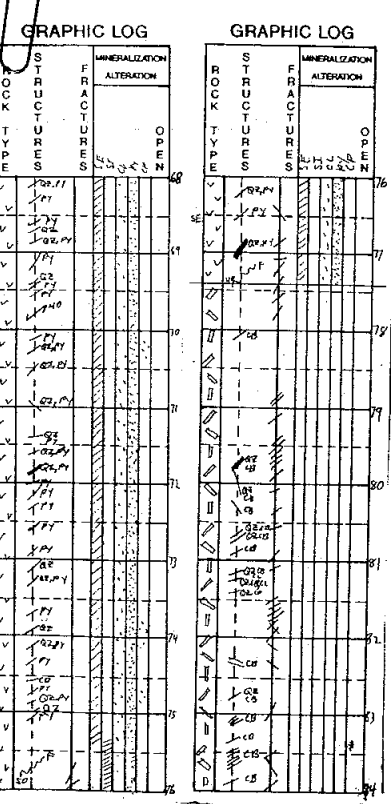


L	100R2	396	010	V= <*< Q(
R	EQUIVALENT TO THE PREVIOUS MEST UNIT. FOLIATION IS WEAK AT 50.			
R	A FEW LAPILLI CLASTS SEEN. SMALL QTZ VEINLETS WHICH HAVE BEEN			
R	CRACKLED OCCUR SPORADICALLY. A LATER STAGE, 10 CM WIDE QTZ VEIN			
R	(NOT CRACKLED) OCCURS AT 40.05. THE VEIN CONTAINS PATCHES OF			
R	CALCITE AND UNHYDRITE (WHICH SEEMS TO REPLACE THE CALCITE) AND			
R	BLEBS OF CP.			
D	4100	4400	100 X	
L		90R3	427	010
D	4400	4700	100 X	
L		55R3	457	030
D	4700	5000	100 X	
L		63R3	488	020
R	CP, PY VEIN AT 51.35			
D	5000	5300	100 X	
L		87R3	518	020
D	5300	5600	100 X	
L		82R3	549	020
D	5600	5900	100 X	
L		95R3	579	010
R	5460	5500MASSIVE PY VEIN		
R	MASSIVE CP, PY VEIN AT 55.90			
R	ABUNDANT CC FROM 53.00 TO 56.00. BORNITE SEEN PRIMARILY IN LATE			
R	STAGE QZVN'S WHILE CC OCCURS IN THE BRECCIATED ONES.			
R	MASSIVE CP VEIN AT 57.25.			
R	MINOR CHLORITIC ALTERSATION FROM 59.70 TO THE END OF THE UNIT IN			
R	THE TUFF SECTIONS.			
D	5900	6055	100 X	
L		90R3		011
P	6055	7740	SEXTUFF	P3Q=P+ D1 B*<)
L				<- <<<+
R	TUFF UNIT COMPOSED OF QTZ AND F-SPAR WHICH HAS UNDERGONE			
R	INTENSIVE SERICITIC ALTERATION. UNIT COULD BE A CRYSTAL TUFF			
R	AS SMALL PHENOCRYSTS OF TOTALLY ALTERED PLAGIOCLASE SEEN. UNIT			
R	IS LIGHT GREY AND PRIMARILY FINE GRAINED. VERY MINOR, PERSVASIVE			
R	CHLORITIC ALTERATION OCCUR. UNIT IS MODERATELY FOLIATED AT 40.			
R	A SMALL FAULT TRENDING AT 50, OCCURS AT 75.85. ABUNDANT,			
R	CRACKLED QTZ VEINLETS. PY OCCURS AS TINY DISSEMINATED CRYSTALS			
R	MICROVEINLETS AND ASSCIATED WITH QTZ VEINLETS. ZONE FROM 63.70			
R	TO 65.65 IS MODERATELY SILICIFIED.			
D	6055	6355	100 X	111
L		87R2	610	110
D	6355	6655	100 X	021
L		R2	640	010
D	6655	6955	100 X	120

A001	39.05	41.00	57988	.608	.350
A001	41.00	44.00	57989	1.150	.470
A001	44.00	47.00	57990	1.230 1.2400	.700
A001	47.00	50.00	57991	1.080	.510
A001	50.00	53.00	57992	1.240	.430
A001	53.00	56.00	57993	2.070	.570
A001	56.00	59.00	57994	1.820	.770
A001	59.00	60.55	57995	1.190	.600
A001	60.55	63.55	57996	.836	.530
A001	63.55	66.55	57997	.540	.320

GRAPHIC LOG





L 100R2 671 000
 D 6955 7255 100 X 021
 L 100R2 701 000
 D 7255 7555 100 X 031
 L 100R2 732 000
 R 7540 7600 ZONE OF SILICIFICATION.
 R SMALL FAULT, TRENDING AT 40, LOCATED AT 77.35
 D 7555 7740 96 X 010
 L 59R2 762 111
 P 7740 9020 CAXANPP

Q) QC
 <) << <<

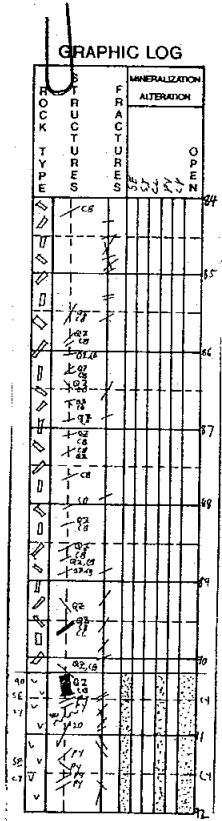
PREMIER PORPHYRY. UNIT IS DARK GREEN AND COMPOSED OF PLAGIOCLASE AND K-SPAR PHENOCRYSTS (20% OF UNIT) SET IN A FINE GRAINED MATRIX OF PLAG AND HB. THE K-SPAR PHENOCRYSTS ARE VERY LARGE (UP TO 3.5 CM) AND RARE (1% OF UNIT). THEY RANGE IN SHAPE FROM ANHEDRAL TO EUHEDRAL. THE PLAG CRYSTALS ARE UP TO 5 MM IN SIZE AND RANGE FROM ANHEDRAL TO EUHEDRAL. THE UNIT HAS UNDERGONE INTENSIVE CARBONATE ALTERATION INCLUDING: CB AND QTZ/CB VEINLETS, MICRO-FRACTURES IN THE K-SPAR PHENOCRYSTS ARE FILLED WITH CB AND, THE PLAG PHENOCRYSTS ARE PARTIALLY REPLACED BY CALCITE. THE LARGER QTZ/CB VEINS HAVE CL PATCHES. FOLIATION IS VERY VARIABLE WITH THE TOP BEING VERY INTENSELY FOLIATED AND FINE GRAINED (NO PHENOCRYSTS). THE FOLIATION DECREASES DOWNHOLE (WITH THE FIRST PHENOCRYSTS APPEARING AT 78.80) UNTIL APPROXIMATELY 82.70 WHERE IT DISAPPEARS. THE FOLIATION STARTS AGAIN AT APPROXIMATELY 85.0 AND INTENSIFIES TO THE END OF THE UNIT.

D 7740 8040 100 X 110
 L 63R3 793 131
 D 8040 8340 100 X 021
 L 80R3 823 130
 D 8340 8640 100 X 121
 L 75R3 854 121
 D 8640 8840 100 X 021
 L 95R3 884 110
 D 8840 9020 100 X 020
 L 89R3 110
 P 9020 11980 SEXTUFF

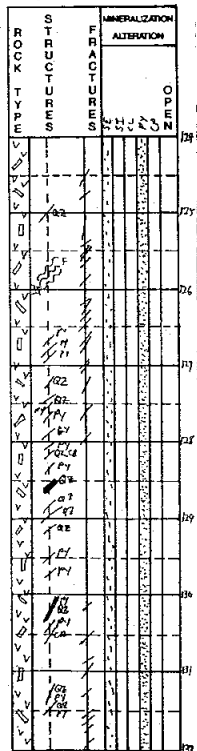
P2P= D10C << CC
 P1 V* <<< D-

TUFF UNIT WHICH HAS UNDERGONE MODERATE SERICITIC AND YELLOW CLAY ALTERATION. OCCASIONAL LAPILLI CLASTS OF VARYING LITHOLOGIES SEEN. DEFINITE BOTTOM CONTACT OBSERVED. UNIT IS FINE GRAINED AND LIGHT YELLOWISH GREY IN COLOUR. MOST (BUT NOT ALL) QTZ VEIN (LET) HAVE A CRACKLED APPEARANCE WITH CALCITE INFILLING THE FRACTURES. A 20 CM WIDE, LATE STAGE QTZ/CB VEIN OCCURS FROM 90.25 TO 90.45. LARGE EUHEDRAL GYPSUM CRYSTALS ARE FOUND AT THE

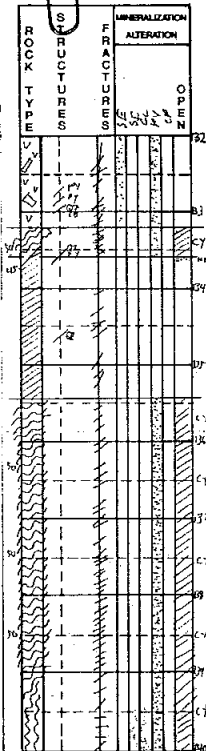
A001	66.55	69.55	57998	.640	.470
A001	69.55	72.55	57999	.652	0.6520 .550
A001	72.55	75.55	58000	.756	.270
A001	75.55	77.40	56351	.744	.340
A001	77.40	80.40	56352	.009	.040
A001	80.40	83.40	56353	.004	.020
A001	83.40	86.40	56354	.008	.020
A001	86.40	88.40	56355	.034	.050
A001	88.40	90.20	56356	.005	.030



GRAPHIC LOG



GRAPHIC LOG



L 95R2 1310 010
 D 13100 13320 98 X 110
 L 50R2 130
 P 13320 14020 7SHER

D2
 P3

ZONE OF VERY INTENSE SHEARING. THE SHEARING TRENDS AT 50 UNTIL 139.20 WHERE IT BENDS TO BECOME PARALLEL TO THE CORE AXIS FOR THE REST OF THE HOLE. LENTICULAR QTZ VEIN FRAGMENTS ARE ALIGNED ALONG THE SHEARING. THE MATRIX CONSISTS OF A FINE GRAINED GRANULAR MASS OF QTZ AND F-SPAR. VERY INTENSIVE CLAY ALTERATION IN THE MATRIX. PY OCCURS WITHIN THE QTZ VEIN FRAGMENTS AS SCATTERED BLEBS AND IN THE MATRIX AS DISSEMINATED, PARTIALLY MILLED CRYSTALS. THE SHEAR PROBABLY HAS SEEN BOTH BRITTLE AND DUCTILE MOVEMENT.

N 13360 13545 100AMXANDY 010 HE
 L 51R3 1341 021 T- <<

GREENISH BLACK, FINE GRAINED, MASSIVE UNIT. HIGHLY MAGNETIC. CALCITE AND RARE LARGE QTZ AMYGDULES OCCUR. A 1 CM WIDE QTZ/PY VEN, PARTIALLY ALTERED TO HEMATITE, OCCURS AT THE UPPER CONTACTS

A003 13360 13545 2200
 D 13320 13360 95 X
 L 0R2 555
 D 13545 13720 96 X
 L 69R2 1372 030
 D 13720 14020 98 X
 L R2 1402 031

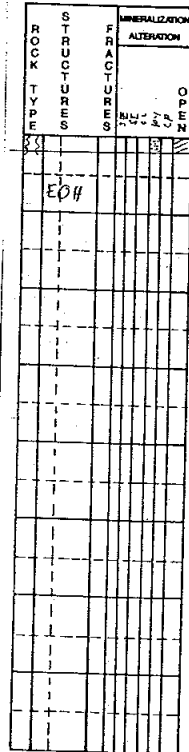
The A005 assay sets are selected composites based on copper grades and geology

	From	To	Length	Cu %	Au g/t
A005	4.30	15.10	10.80	.029	.101
A005	15.10	16.10	1.00	.988	.380
A005	16.10	26.30	10.20	.114	.062
A005	26.30	60.55	34.25	1.221	.590
A005	60.55	77.40	16.85	.691	.418
A005	77.40	90.20	12.80	.011	.031
A005	90.20	105.20	15.00	.343	.230
A005	105.20	135.45	30.25	.156	.165
A005	135.45	140.20	4.75	.348	.194

/END

A001	128.80	131.00	56370	.121	.220
A001	131.00	133.20	56371	.178	.120
A001	133.20	135.45	56372	.054	.050
A001	135.45	137.20	56373	.251	.200
A001	137.20	140.20	56374	.404	.190

GRAPHIC LOG



IDEN680201 KERR KS-087BOWL04SEP90SMP JTTSEP90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 5030MT 204.20087.00-50.00 10199.00 9500.00 1439.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXXQZQPXXXXYY
 /SCL MT.2PC.0
 LSCL PC.0 LCTM
 S001 5030 15090 204.20081.00-46.00
 S002 15090 20420 204.20086.00-43.00

A003

AUMM

MAG

P

000 121

CSNG

L

No core recovery.

R

P

121 220

OVBD

L

Overburden, rubble core.

R

P

220 1300

SEXAGLM

P1

D+

D)

PO

A001

From	To	Sample	Cu %	Cu % Au g/t Au g/t Ag ppm Pb ppm Zn ppm
			(dupl)	(dupl)
A001	2.20	4.30 56755	.280	.030
A001	4.30	7.00 56756	.660	.040
A001	7.00	10.00 56757	.436	.030
A001	10.00	13.00 56758	.772	.050

L

Fragments/clasts of felsic volcanics in a black matrix.

R

R

Fragments are chlorite altered from 2.2 m to 4.3 m and sericite from 4.3 m to 13.0 m and they range in diameter from 2 to 30 mm.

R

R

Moderate contorted foliation from 20 degrees to core axis to 70 degrees to core axis. The unit is crosscut by milky white QTZ

R

R

veins with black selvages, 1% chalcopyrite blebs and pyrite

R

R

filled fractures. Gypsum coats fracture surfaces. Trace pyrrhotite with pyrite, very weakly magnetic.

R

D

220 430

85CLXAGLM

010

P1

P1

L

71R3 30

121

R

Chlorite-sericite alteration of clasts.

D

430 700

85 X

121

L

40R2 61

210

D

700 1000

94 X

020

L

57R2 91

131

D

1000 1300

98 X

011

L

57R2 122

030

R

1034.0 cm thick brecciated QTZ vein with cp and py infilling 2% and 1% respectively.

P

1300 6630

SEXTUFF

P4

D+

B)<B.TTFU

L

C)

V=

B.B.

R

Pale grey mottled white fine grain sericite altered tuff with occasional rounded fragment of similar composition as matrix.

R

R

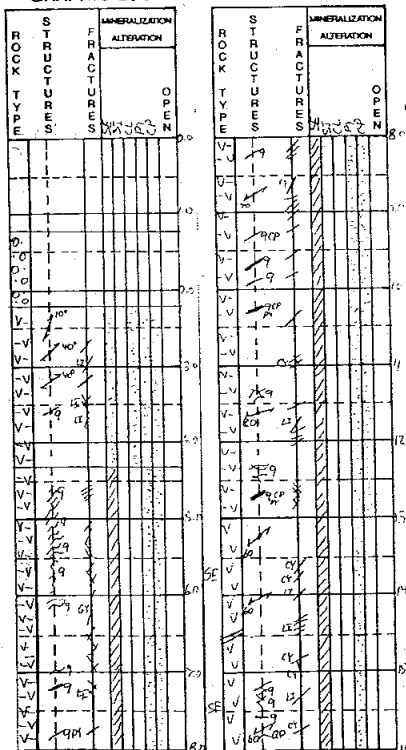
Fine grain, grey sugary QTZ-veins comprise up to 10% of unit between 1515.2 m and 27.3 m. QTZ is , in part, brecciated and

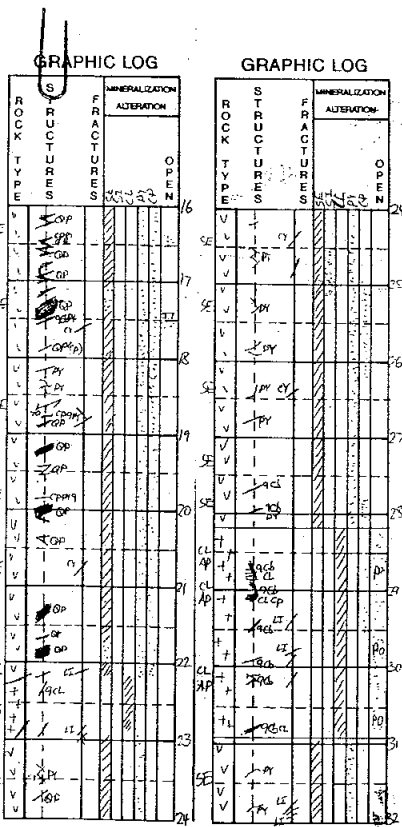
R

infilled with pyrite 5%, chalcopyrite 1%, and trace of bornite.

GRAPHIC LOG

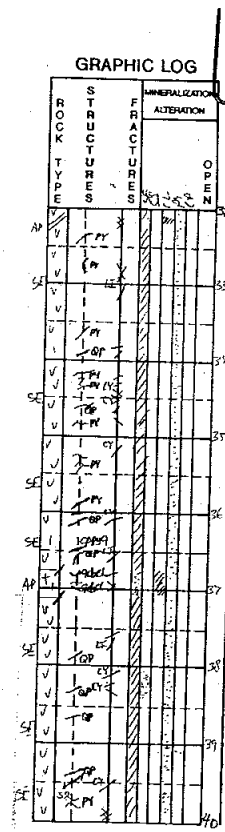
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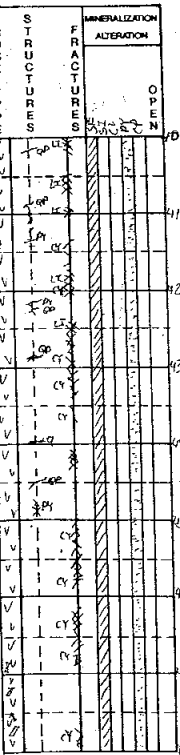


R				Moderate foliation 60 degrees to core axis. Rock is soft H=3
R				except for QTZ veins. Milky QTZ veins which are not brecciated
R				have cream dolomite blebs, disseminated pyrite cubes and black
R				chalcoite coating chalcopyrite trace. Trace TT with CP-PY and
R				trace of green mica.
D	1300	1600 97 X	020	
L		70R3 152	111	
R	1450	1460	Flow banded rhyolite, clay altered fine grained pyrite clasts.	
D	1600	1900 97 X	222	
L		87R3 182	111	
R	1650	1750	30% of interval is fine grained. Grey QTZ with pyrite veins 10%	
D	1900	2200 96 X	121	
L		90R3 213	100	
D	2200	2500 95 X	111	
L		92R3 243	111	
R	2230	2280	Fine grained, aphanitic, chloritic latite dyke with flow banding	
R			parallel to contact with sericite-schist. 0.5 cm chill margin at	
R			contact. Disseminated PO blebs trace.	
R	2460	2495	Rock is weakly silicified, brecciated and infilled with pyrite	
R			1%	
D	2500	2820 97 X	111	
L		92R3 274	010	
R			Disseminated CP on foliation, up to 10% round lapilli fragments	
R			below 27.2 m.	
M	2820	3090 92CLXLAAP	011	P4 B. PO
L		81R3 304	111	B) V+ D)
R			Fine grained, chloritic, hard H=4, weakly foliated aphanitic	
R			latite dyke. Extension QTZ-calcite-CHL veins have CP blebs	
R			(trace) in them. The veins crosscut each other to form a stock-	
R			work. PO is disseminated 1% in dyke. Magnetic susceptibility=	
R			40 x 10 (-5 power) SI.	
D	3090	3400 94 X	011	
L		85R3 335	111	
R	3215	3220	Chlorite aphanitic latite dyke.	
D	3400	3670 99 X	022	
L		85R3 365	111	
R	3440	3450	Pervasive clay alteration around fractured core.	
D	3670	3980 90 X	111	
L		74R3 396	111	
R	3670	3720	Fine grain, chloritic, latite dyke with QTZ-CB-CHL extension	
R			veins and healed fractures. QTZ veining compose up to 10% of	
R			unit. Slight bleaching of contact between schist and dyke.	
D	3980	4260 75 X	111	
L		48R2 426	666	
R			Sections of core are highly fractured and coated with a thick	

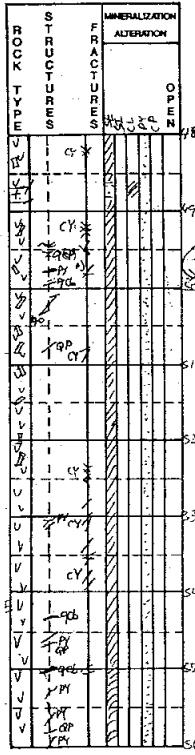
A001	13.00	16.00	56759	.272	.150
A001	16.00	19.00	56760	.256	.210
A001	19.00	22.00	56761	.260	.160
A001	22.00	25.00	56762	.128	.100
A001	25.00	28.20	56763	.078	.120
A001	28.20	30.90	56764	.093	.030
A001	30.90	34.00	56765	.264	.260
A001	34.00	36.70	56766	.300	.130
A001	36.70	39.80	56767	.142	.160
A001	39.80	42.60	56768	.448	.170



GRAPHIC LOG



GRAPHIC LOG

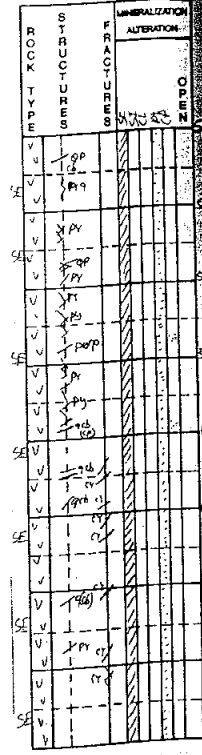


R layer of limonite which has chips of sericite schist in it.
 R Core is white clay altered on remaining fractures.
 D 4260 4570 51 X 111
 L 14R2 457 555
 R Contorted foliation varies between 20 and 70 degrees to core
 R axis, recovered core is blocky, clay coats surfaces.
 D 4570 4880 94 X
 L 51R3 487
 R 4680 4855 Increase in number of transparent feldspars 3 X 1 mm in size to
 R 5% of unit.
 R 4855 4880 Chloritic, aphanitic latite dyke with bleached sheared contacts
 R with sericite-schist at 20 degrees to core axis top and 80
 R degrees to core axis bottom.
 D 4880 5180 93SEXPHPP 011
 L 72R3 518 111
 R 4945 4951 Milky QTZ veins with dolomite infilling and trace CP. Feldspars
 R 30% 1.0 X 2.0 mm are elongate parallel to foliation direction.
 R <1% are greater than 2 x 3 mm. Feldspars are transparent, olive
 R green in colour, subhedral crystals.
 D 5180 5500 95 X 011
 L 72R3 549 110
 R 5180 5230 Feldspar phenocrysts diminish from 30% to 2%, no contact seen.
 D 5500 5800 99 X 222
 L 97R3 579 001
 D 5800 6100 100 X 222
 L 95R3 609 110
 R Lapilli fragments up to 6 cm in diameter are visible in the
 R interval. Pyrite veins crosscut foliation, trace chalcopyrite
 R in pyrite veins. Center of fragments are weakly deformed while
 R matrix is contorted, foliation 0 to 60 degrees to core axis.
 D 6100 6400 98 X 010
 L 91R3 640 111
 R Trace of green mica.
 D 6400 6630 95 X 010
 L 93R3 110
 P 6630 7630 SEXPHPP P4 D= B.<.
 L v) C) <)

R Light grey mottled white, medium grained, moderate foliation,
 R not schistose, moderately hard H=4, feldspars are translucent
 R olive green and comprise 40% of unit. Size 1 X 2 mm elongate
 R parallel to foliation. Pyrite is disseminated cubes and
 R aggregates 5% Trace CP in PY-carbonate-QTZ veins. Milky white
 R QTZ-calcite veins are folded and boudinaged. Core is competent
 R but in sections it is blocky and are white clay coats fracture
 R surfaces.

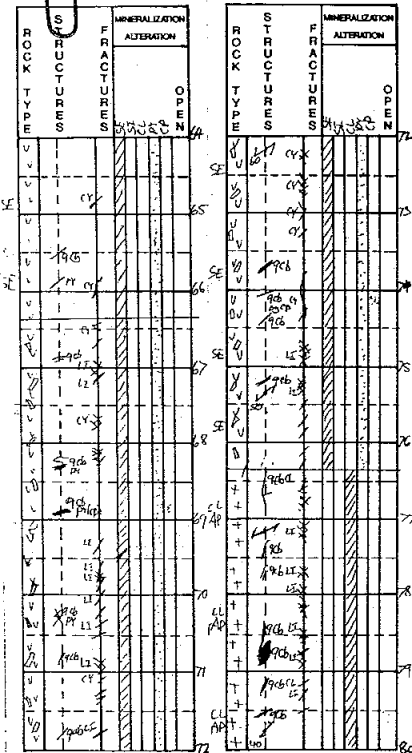
A001	42.60	45.70	56769	.230	.150
A001	45.70	48.80	56770	.085	.080
A001	48.80	51.80	56771	.259	.230
A001	51.80	55.00	56772	.288	.180
A001	55.00	58.00	56773	.328	.280
A001	58.00	61.00	56774	.150	.120
A001	61.00	64.00	56775	.127	.080
A001	64.00	66.30	56776	.197	.090

GRAPHIC LOG



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D	6630	6900	84	X	011
L			48R3	671	333
D	6900	7200	92	X	111
L			40R3	701	222
D	7200	7450	92	X	111
L			50R3	732	222
D	7450	7630	91	X	110
L			46R3	762	111
P	7630	8440	CLXLAAP		

P) P3P=B.

B+ V)

Chlorite altered, fine grained, hard H=4.5, green, aphanitic latite. Weakly foliated, in part brittle. Extension veins QTZ-calcite-CHL are up to 1.0 cm thick and other QTZ-calcite veins with CHL selvages are up to 10.0 cm thick. The core is blocky limonite stained on fractures and calcite is leached from weathered QTZ-calcite-CHL veins leaving vuggy veins. Trace epidote along brittle foliation planes. Brittle foliation gives the rock a banded appearance. Trace pyrite blebs in QTZ-CB-CHL veins.

D	7630	7900	97	X	111
L			49R3		444
D	7900	8200	91	X	121
L			77R3	792	222
D	8200	8440	88	X	111
L			50R3	823	121
P	8440	8980	CLXPHPP		

P1 P1 D) B.

E) < C) <)

Core is similar to PGI interval 66.3-76.3 m but it has more chlorite alteration which gives it a pale green tint. the pale green tint may be due to montmorillonite clay alteration. Cross-cutting QP veins have sericite envelopes <1% disseminated pyrite cubes. White clay coats fractures. QTZ-PY-calcite veins 1% crosscut weak foliation in rock.

D	8440	8700	87	X	222
L			54R3	853	222
D	8700	8980	71	X	222
L			27R3	884	333
P	8980	11095	CL6RBZM		

P1 P1 D+ <) CC

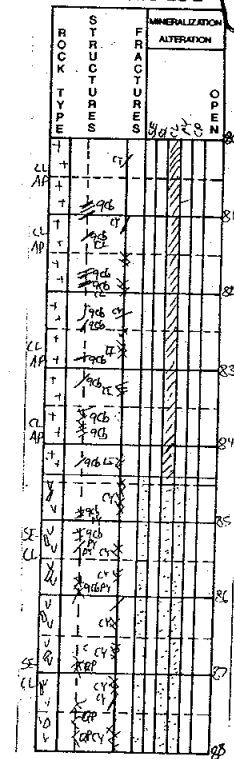
E) C) V) C.

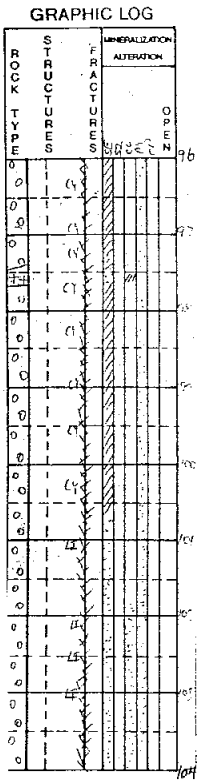
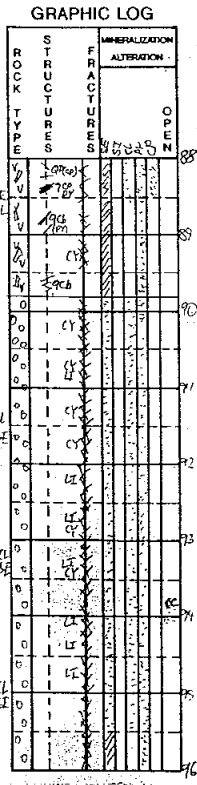
Blocky rubble zone, poker chips fracture pieces and vuggy blocky pieces of core up to 3 cm in length. Alteration varies from CHL to sericite-pyrite throughout the interval.

Only a trace of chalcocite seen coating pyrite. Limonite coats fractures in sericite alteration sections. All calcite in QTZ-pyrite veins, has weathered out, leaving a vuggy rock with up to

A001	66.30	69.00	56777	.058	0.0580	.080
A001	69.00	72.00	56778	.039		.060
A001	72.00	74.50	56779	.045		.050
A001	74.50	76.30	56780	.047		.030
A001	76.30	79.00	56781	.015		.005
A001	79.00	82.00	56782	.004		.010
A001	82.00	84.40	56783	.007		.020
A001	84.40	87.00	56784	.472		.190
A001	87.00	89.80	56785	.436		.220

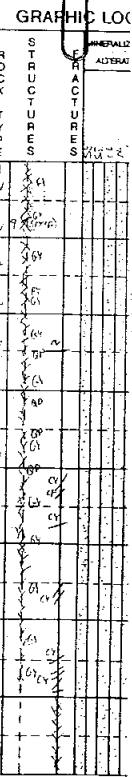
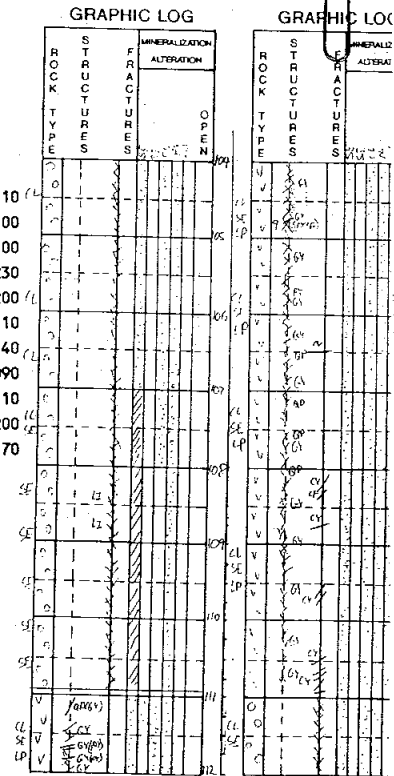
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R					10% porosity. Pieces are weakly to moderately foliated and
R					moderately hard 3. Trace fuschite in sericite alteration.
D	8990	9140	50 X	111	
L			OR2 914	XXX	
D	9140	9450	90 X		
L			OR2 945	XXX	
R					The higher recovery is due to the blocky nature of the core or
R					the block 91.40 m was misplaced.
R	9390	9400	Chalcocite-trace-coats pyrite in milky QTZ vein.		
D	9450	9750	30 X	P2	
L			OR2 975	XXX	
R	9600	9750	Sericite alteration increase down section, clay coats fractures.		
D	9750	10060	46SEXRBZM	P3	
L			OR2 1006	XXX	
R	9750	9780	Chlorite altered aphanitic latite dyke with QTZ-CHL (calcite) veins.		
D	10060	10360	85SEXRBZM	P2 P+	
L			OR2 1036	XXX	
R					Better recovery due to blocky core, more chlorite alteration
R					than previous ditto interval. Core breaks along microfractures
R					40-70 degrees to core axis.
D	10360	10670	74 X		
L			OR2 1067	XXX	
D	10670	10850	83 X		
L			OR2	XXX	
D	10850	11095	40SEXRBZM	P3	
L			OR2 1097	XXX	
P	11095	11900	CLXTFLP	P1 P2 D.GY S.	
L				E) V+ <)	
R					Precursor to above rubble zone. Chlorite and sericite altered
R					monolithic lapilli tuff, weakly foliated, moderately hard H=4,
R					mottled green and white in hornblende and feldspar porphyritic
R					fragments. Fragments comprise 70% of unit and up to 6.0 cm in
R					size. Matrix is fine grained chlorite and sericite altered. QP
R					veins 1X have sericite envelopes. Clear gypsum veins have a
R					trace dessiminated pyrite and pink gypsum have pyrite 1X and
R					trace CP on selvages. These vein form up to 1.0 cm thick.
R					Between large veins the unit is crosscut by a stockwork of
R					gypsum in microveins. Mostly parallel to core axis.
D	11095	11400	98 X	444	
L			96R3 1127		
D	11400	11700	96 X	444	
L			92R3 1158	001	
D	11700	11900	97 X	444	
L			75R3 1188	121	

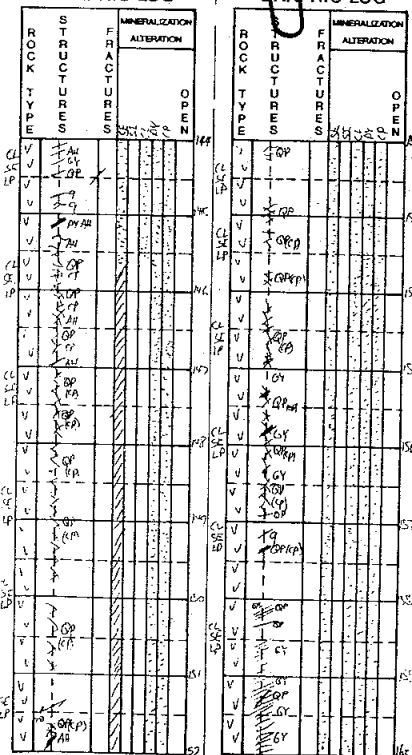
A001	89.80	91.40	56786	1.530	
A001	91.40	94.50	56787	.400	
A001	94.50	97.50	56788	.400	
A001	97.50	100.60	56789	.440	
A001	100.60	103.60	56790	.532	
A001	103.60	106.70	56791	.384	0.3840
A001	106.70	108.50	56792	.596	
A001	108.50	110.95	56793	.412	
A001	110.95	114.00	56794	.227	
A001	114.00	117.00	56795	.344	
A001	117.00	119.00	56796	.275	



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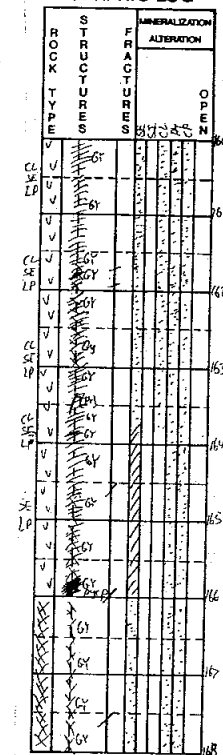
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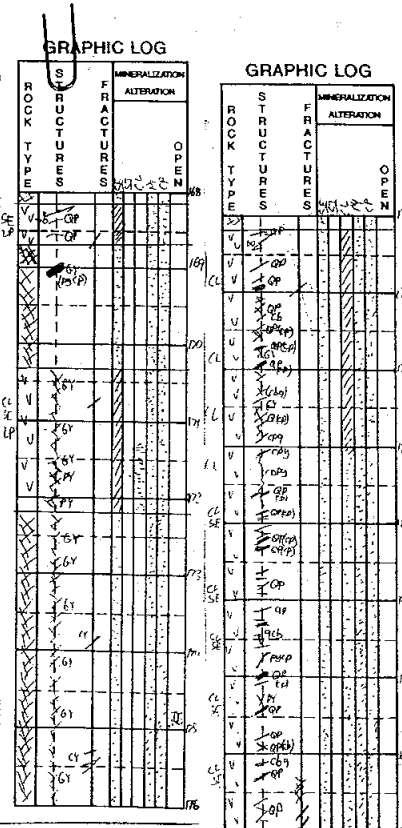
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L 99R3 1402 000
 R 14060 14065 Core has part of the contact with ANDK dyke.
 D 14200 14500 98 X 222
 L 86R3 1432 010
 R 14290 14305 Fault zone, milled, clay and sericite altered lapilli tuff.
 R 14305 14310 Anhydrite vein with semimassive CP and TT.
 R 14360 14375 Anhydrite vein with trace QTZ and semmassive CP and TT.
 D 14500 14800 98 X 333 D= D+
 L 98R3 1463 V2
 R Interval has 20% brecciated QTZ veins with CP and PY infilling.
 R Anhydrite veins also crosscut the stockwork. chlorite alteration
 R is replaced by sericite in stockwork zone.
 D 14800 15100 100SEXTFLP 333 D= D)
 L 100R3 1493 V1
 R QTZ stockwork continues, 10% QTZ pyrite veins with CP and PY
 R infilling.
 D 15100 15400 97 X 222 D= D)
 L 97R3 1524 V1
 D 15400 15700 100 X 222
 L 100R3 1554
 R Stockwork is crosscut by gypsum microveins.
 D 15700 16000 96 X 114
 L 96R3 1584
 R 15850 16000 Gypsum microveins up to 1% increase in numbers below 158.50 m.
 R the vein crosscut core at 60 degrees to core axis.
 D 16000 16300 99 X 114
 L 92R3 1615 002
 R Gypsum is beginning to weather out leaving elongate vugs.
 R 16170 16300 Gypsum veins up to 2.0 cm thick have disseminated PY. Microveins
 R predominate and they crosscut earlier stockwork white gypsum
 R veins.
 D 16300 16600 99 X 224
 L 97R3 1646 010
 R 16380 16600 Interval loses chlorite alteration to sericite and the foliation
 R increases to moderate at 70 degrees to core axis.
 P 16600 17620 KR7BXQZ P+ D+GYAHB+V1
 L <V>V8
 R Crackled milky grey sugary QTZ with pyrite 5% and CP blebs 2.0%
 R infilling fractures. Slivers of sericite schist 5% separate
 R individual QTZ veins. Gypsum filled microfractures crosscut the
 R unit and anhydrite/gypsum-PY-CP veins up to 10 cm thick also
 R crosscut the unit. Interval has section at sericitic lapilli
 R tuff in it.
 D 16600 16805 96 X 333
 L 96R3 1679

A001	138.74	142.20	56804	.264	.150
A001	142.20	145.00	56805	2.420	.770
A001	145.00	148.00	56806	.832	.350
A001	148.00	151.00	56807	1.360	.460
A001	151.00	154.00	56808	.580	.270
A001	154.00	157.00	56809	.816	.290
A001	157.00	160.00	56810	.520	.260
A001	160.00	163.00	56811	.404	.270
A001	163.00	166.00	56812	.804	.290
A001	166.00	168.05	56813	1.500	.520





N 16805 16870 100SEXTFLP 021 P4 GY <)

L 100R3 < V)

R Well foliated sericitic, moderately hard H=4, mottled grey and

R dark grey lapilli tuff with QP veins up to 2.0 cm thick and

R pyrite veins 1%. Trace gypsum microveins. Foliation 70 degrees

R tp core axis.

D 16870 17030 95 X

L 95R3

R Trace gypsum filled microveins except 10 cm thick gypsum-pyrite

R vein at 169.0 m.

N 17030 17220 100SEXTFLP P4 P+ D=GY D)<)

L 100R3 1706 E)B. <)

R Well foliated 60 to core axis, sericitic moderately hard H=4,

R mottled grey with trace of dark green pyrite veins cross

R foliation at small angle with small QS envelopes, QTZ-calcite

R blebs trace. Pink and white gypsum veins are sulphide free.

R Pyrite 5% and CP 1% qre disseminated throughout.

D 17220 17620 98 X 222

L 98R3 1737 010

D 17420 17620 96 X 222

L 89R3 111

R 17495 17500 Tetrahedrite blebs. Trace occur with CP in milky white QTZ vein

R in sugary QTZ.

P 17620 19595 CLXTUFF P+ P2 D)GY B)<)

L E)B) V) V1V+

R Fine grained, mottled dark green/blue, well foliated moderately

R hard H=4, tuff. Alteration is mostly chloritic, but in sections

R the chlorite is replaced by sericite. Milky grey sugary veins

R crosscut unit forming a stockwork which decreases in intensity

R away from brecciated QTZ vein above. Milky grey QTZ veins 2% are

R brecciated and infilled with PY and CP. Milky white QTZ-CB veins

R crosscut earlier QTZ are folded and contorted in places. Milky

R white QTZ veins crosscut PY veins without envelopes and they are

R crosscut by pyrite veins with sericite envelopes. Gypsum veins

R 1% with PY and CP aggregates crosscut all veins and gypsum

R filled microveins <1%

D 17620 17910 100 X 333

L 100R3 1768 010

D 17910 18200 100 X 333 P=

L 100R3 1798

D 18200 18500 92 X 233 P1 P+

L 90R3 1828 222

D 18500 18800 97 X 222

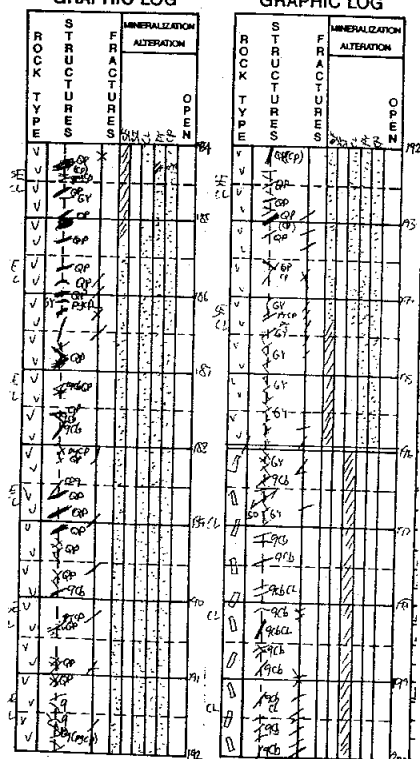
L 91R3 1859 021

D 18800 19100 99 X 333

A001	168.05	168.70	56814	.544	.310
A001	168.70	170.30	56815	1.160	1.1700 .540
A001	170.30	172.20	56816	.788	.410
A001	172.20	174.20	56817	1.240	1.2300 .780
A001	174.20	176.20	56818	1.280	3.390 3.440
A001	176.20	179.10	56819	.696	.660
A001	179.10	182.00	56820	.680	.860
A001	182.00	185.00	56821	1.160	.730
A001	185.00	188.00	56822	1.200	.700

GRAPHIC LOG

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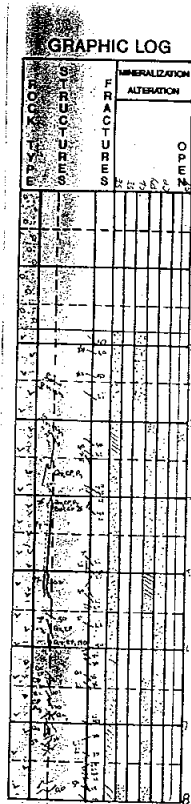


L	94R3	1889	110	
R				Matrix alteration of chlorite and sericite recalls in a blue green colour. Chalcopyrite-pyrite veins have QTZ-sericite envelopes.
D	19100	19400	98 X	122
L				96R3 1930
D	19400	19595	98 X	444
L				81R3 1950
R	19440	19595	Number of gypsum microveins increases towards the contact with the dyke.	
P	19595	20420	CLXANPP	P3P+ GY V+ <. V+
L				Sheared premier porphyry. Feldspars plagioclase zoned. 2x3.0 mm 30% kspcr 5x 5 x 10 mm up to 20 x 30 mm-trace with calcite -QTZ filled tension gashes. Feldspar are set in a hornblende matrix which is altered to chlorite and trace epidote. Foliation intensity decreases from edge to center (downhole) from moderate to very weak. Calcite-QTZ filled extension veins 2% have chlorite selvages. Gypsum microveins crosscut unit at the edge. Trace cuprite staining fractures at bottom at bottom of hole.
D	19595	19900	97 X	133
L				85R3 1981
D	19900	20200	99 X	122
L				65R3 2012
D	20200	20420	50 X	010
L				16R3 2042
R				Highly blocky core below 203.0 m -very low core recovery-cuprite stains fracture surfaces.
R	20420			End of hole.

A001	188.00	191.00	56823	1.220	.430
A001	191.00	194.00	56824	1.080	.700
A001	194.00	195.95	56825	1.010	.480
A001	195.95	199.00	56826	.027	.020
A001	199.00	202.00	56827	.004	.030
A001	202.00	204.20	56828	.002	.010

The A005 assay sets are selected composites based on copper grades and geology

	From	To	Length	Cu %	Au g/t
A005	2.20	13.00	10.80	.555	.038
A005	13.00	66.30	53.30	.216	.152
A005	66.30	84.40	18.10	.030	.037
A005	84.40	89.80	5.40	.453	.206
A005	89.80	110.95	21.15	.526	.168
A005	110.95	142.20	31.25	.242	.114
A005	142.20	166.00	23.80	.955	.367
A005	166.00	176.20	10.20	1.159	1.103
A005	176.20	195.95	19.75	1.010	.659

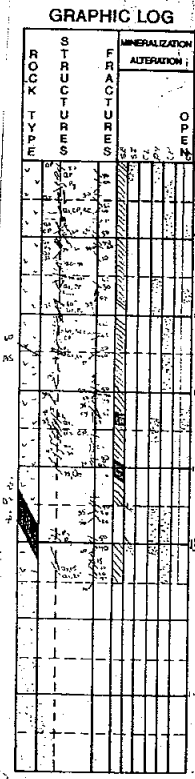


IDEN6B0201 KERR KS-0888QWLOOSEP90SMP JTTAUG90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 5030MT 204.10090.00-75.00 10199.00 9500.00 1439.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXXQZQPXXXXYY

/SCL MT.2PC.0
 LSCL PC.0 LCTM
 S001 5030 15220 204.10095.00-67.00
 S002 15220 20410 204.10092.00-65.00

A003
 ALPHM MAG
 P 000 180 OVBD

L
 R Hole case to 1.80 m.
 P 180 1050 SE TFLP P3Q)Q(B+b=Q-CCCV
 L Q) V= B)Q-
 R Light grey green with medium green coloured clasts to dark green
 R grey to black. Colour darkens with increase in argillic material
 R (section is associated with underlying slump breccia but
 R distinguishable as TFLP. Local slump fracturing throughout but
 R not distinguishable as a breccia). Lapilli fragments (0.5 to
 R 3.0 cm) subangular to occasional block (4.5 to 6.0 cm). Patchy
 R appearance of black mud within sericitized rock makes core look
 R dirty. Groundmass varies from fine grained, granular tuff to
 R PHPP with well developed, dark black green, sericite altered
 R phenocrysts (1-3 mm) in fine grained groundmass. The porphyritic
 R PHPP is present as matrix and as fragments. (may be very large
 R bomb), on local scale can see light green, non-porphyritic tuff
 R adjacent to QTZ veins then get well developed PHPP without a
 R visible contact. Light green, may be alteration envelope
 R parallel to veins and masking crystals? QTZ veins (0.7-1.2 cm)
 R subparallel to core axis, extensional QTZ vein (QTZ growth from
 R edges inward). Patchy CPY in QTZ, trace molybdenum, bornite +/-
 R covellite (iridescent colours). Pyrite concentrated in core
 R bordering QTZ veins. In general, core is depleted in sulphides
 R Very fine, patchy CPY scattered through core and with QTZ veins
 R (2%). QTZ veins are folded and locally convoluted due to
 R slumping? Minor pyrite associated with QTZ veins on fine
 R fractures (<2%) +/- chalcocite (1%).
 R 180 260 Dark black green, minor chlorite, sericite altered, fine
 R irregular fractures, light green alteration envelope extends
 R along fracture at 2.0 m at 40 degrees to core axis.
 R 180 265-20 cm lost core, ground ends.
 R 268 275 Shear at 40 degrees to core axis, fine grained matrix with
 R fragments aligned to foliation, strong limonite on fracture



- R plane.
- R 310 375 QTZ vein- 1 cm wide at 6-10 degrees to core axis, change
R foliation at 3.10 m to 25 degrees to core axis, shear and
R fracture at top of QTZ vein. CP (<1%) in vein, trace PY with
R pyritic envelopes to 0.5 cm from vein (5-8%), matrix flows
R about QTZ vein, very local.
- R 530 550 Fractured, fragments of lapilli, minor clay developed, weak
R QTZ vein infilling with pyrite associated.
- R 565 570 Fine healed fracture at 50 degrees to core axis, BX, clay + QTZ
R fragments, pyrite halo 0.4 to 1 cm wide. Parallel fracture,
R pyrite (7-10%) cubic crystals.
- R 575 595 Lapilli tuff, moderately sericitized core, clasts dark green,
R strong sericitized, much softer than matrix, scattered patchy CP
R (<2%).
- R 610 730 Lapilli tuff, dark green irregular shaped lapilli in lighter
R green tuffaceous matrix, lapilli edges may be partially
R assimilated? PY marginal to QTZ vein. CP associated with QTZ
R vein (<2%) pyrite with vein (1-2%), pyrite marginal to (2-4%)
R 0.5-1.5 cm envelope. Hairline fracturing common 40-50 degrees
R to core axis.
- D 180 500 81 X 100
L 16R2 30 244
- R 785 805 Large clast 5.5 cm, rotation shadow at margins, finely fractured
R silicified, QTZ veins at 7.95-8.00, PY centre of vein, + 2.5 cm
R parallel band.
- R 815 855 Colour change from light grey green to medium grey, contact at
R 50 degrees to core axis, parallel healed hairline fractures open
R oxidized fracture. Core is finely fractured lapilli tuff,
R alteration rim (lightly grey-grey) envelope around QTZ.
R Foliation parallel core axis, hairline fractures increase with
R depth, generally black, soft; at 8.50-8.55 pale grey white QTZ
R sericite fractures cut lapilli and matrix at 10-15 degrees to
R core axis.
- D 500 800 90 X 200
L 37R2 61 134
- R 905 915 Milk white QTZ vein at 30 degrees to core axis, trace cubic
R green pyrite 2.0-2.5 mm. Sericite tuff incorporated with vein.
- R 940 945 Fine, 1 mm wide, extension fractures, 30-40 degrees to core
R axis, QTZ infilled, crosscut lapilli.
- R 955 1050 Lose black-grey colour and black fragments/crystals, core is
R light green, alteration halo as approaching QTZ vein at 9.80-
R 9.95. Fine hairline, black fractures- irregular, all directions.
R produce pyrite rich patches. Alteration contact at 70 degrees to
R core axis, top and bottom- alteration zone parallel QTZ vein at
R 0-5 degrees to core axis, 10.0-10.45 m, QTZ vein finely

R fractured, 1-2% pyrite, top contact irregular, healed breccia.
R 0.75-1.0 wide QTZ vein at 60 degrees to core axis ssl 20 degree
R plane. Limonite stain.

D 800 1050 100 X 211
L 52R2 91 214

P 1050 1850 BX9AGLM P4 Q+(-) AS
L Q1 V=V* U)

R Dark to medium grey-black; fine to medium grained, with lapilli
R fragments in fine to very fine grained matrix. Local shearing
R 10-15 degrees to core axis. Subrounded to sub-angular clasts
R 0.2-0.8 cm (common) matrix supported in fine grained, black grey
R argillic mud? Generally fragments of same composition over short
R interval from 5.0-15 cm (no comp variety). Top of unit appears
R to be local fracturing of tuffaceous core at 30 degrees to core
R axis due to slumping? (10.60-10.80 m). Generally brecciated
R sections are matrix supported with strong sense of flow
R direction 10-30 degrees to core axis, varies very quickly-
R function of competency of rock. QTZ veins 0.2 to 0.3 mm and
R CP +/- PY as above, locally folded. Alteration envelopes
R parallel QTZ veins as in previous unit, envelopes lighter in
R colour +/- pyrite, less fractured, sericitic, very fine hair-
R line fractures-QTZ infilled, (<0.5mm) 10-15 degrees to core axis
R QTZ also infilled in shadows around some clasts in breccia, very
R platy breakage of core parallel core axis, get irregular
R fractures, core will flake, CP as blebs in clasts, fine blebs in
R QTZ veins +/- PY, and as irregular patches occasionally aligned
R on fractures in breccia.

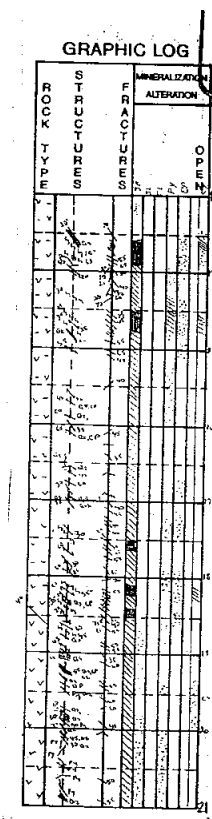
R 1055 1065 Limited irregular zone, arsenopyrite rich, infilling around
R fragments, white grey needles to very euhedral crystals, (patch
R 6 cm x 4 cm)(to 30-40%) fine <0.5 m CP blebs associated.

R 1115 1155 Shear zone, clay alteration, strong sericite to 60%, QTZ veins
R slightly boudinaged at 25 degrees to core axis, with pyritic
R fine grained strongly sheared core parallel, 1.5-2.0 cm wide,
R green grey, grades back to dark grey black material at 11.55 m
R at 30 degrees to core axis. CP clots on QTZ veins, (2%), pyrite
R at margins for 0.5 to 1.0 cm either side, from 30-5% very
R quickly (11.55-12.35 TFLP-fractured, foliation at 40 degrees to
R core axis).

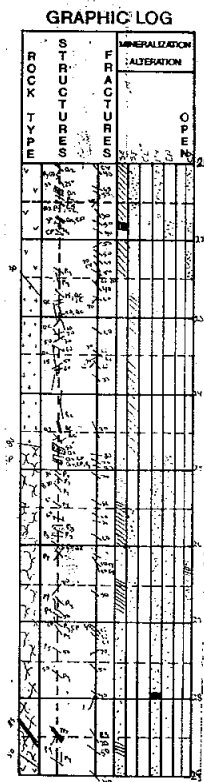
R 1235 1255 Ateration zone, light to medium grey, strong sericite at 20-25
R degrees to core axis, pre QTZ vein, 2.0 mm QTZ vein 15 degrees
R to core axis, at 121.35.

N 1255 1300 FRXQZVN

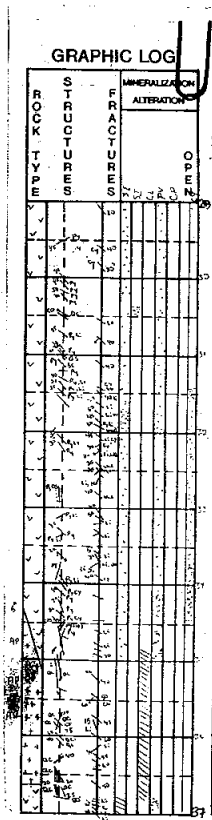
L
R Grey massive QTZ, fine irregular fracture, pyrite infilling (3-
R 5%) minor patchy disseminated pyrite in QTZ (2-3%) with patchy



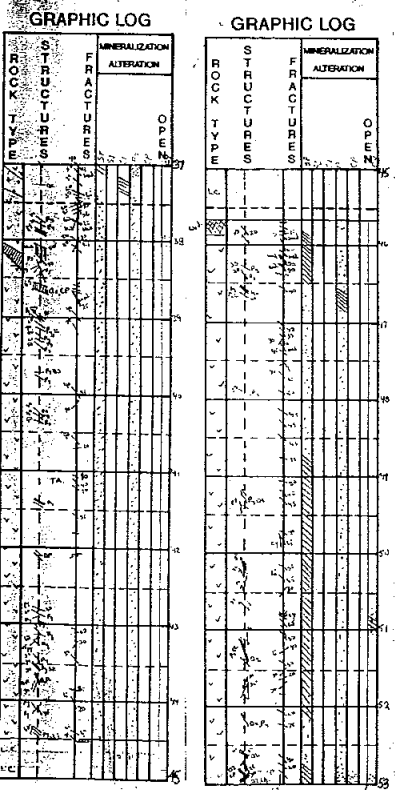
R				CP in fractures + QTZ (1%). Top contact at 25 degrees to core axis. Lower contact at 20 degrees to core axis.
D	1050	1350	100 7	200
L			37R2 122	412
R	1300	1350		Black matrix breccia, 0.2 to 0.5 cm subrounded fragments. Clots of CP, (1%) 65-75% fragments.
R	1345	1355		Sheared QTZ veins-30 degrees to core axis, highly fractured, minor CP, (<1%) 1.5 cm.
R	1385	1420		Breccia, weak to moderately pyritic very fine grained infill, fragments same composition, little movement, fracturing of core 5-15 degrees to core axis, sericite altered fragments + fragmented QTZ veins, pyrite (5-15%).
R	1430	1450		Shear at 30 degrees to core axis, top of breccia, variety of fragments, various sizes, generally larger QTZ vein in very fine pyritic mud? Flow lines about fragments. CP, patches in fragments (3-4%). PY very fine (30-40%). Sharp lower contact at 30 degrees to core axis.
R	1450	1475		Sericite + pyrite + clay shear zone, very fine PY, 25-30%, blebs of CP 1.0 to 4 mm, rounded to elongated parallel foliation (2%). Lower contact QTZ vein 25 degrees to core axis, very patchy incompetent core.
R	1475	1600		Breccia, black matrix with matrix supported fragments, fragments 0.5 to 2.0 cm, well sericitized, subangular to subrounded, larger CP (2-3%) from 15.05-15.13 m.
R	1600	1750		Gradational decrease of good breccia zones, increase in finely fractured, locally sheared sericitic TUFF, with 3 narrow breccia zones at 16.25-16.35, 17.50-17.90 + 17.90-18.15 m. Increase in fracture, local slumping of tuff. Disseminated pyrite increases locally (10-25%).
R	1595	1600		Lower contact breccia zone at 30 degrees to core axis.
D	1350	1650	93 X	110
L			43R2 152	142
R	1680	1683		1 cm wide band, light tan at 45 degrees to core axis, very fine grain to aphanitic, ash band or fragment?
R	1720	1750		Breccia, with patchy CP (1-2%), very fine PY (3-4%).
R	1790	1815		Breccia, top contact at 60 degrees to core axis, lower contact at 55 degrees to core axis, shear.
R	1815	1830		Shear, strong sericite and clay. Oxide stained partings at 50 degrees to core axis, cut at 18.25 m by QTZ vein at 30 degrees to core axis, trace CP in vein.
R	1830	1850		Sheared core, continues, strong sericite developed, lose original texture, QTZ vein fragments preserved, 20 degrees to core axis, broken into core + CP blebs, (<2%).
D	1650	1850	90 X	010
L			23R2 183	241



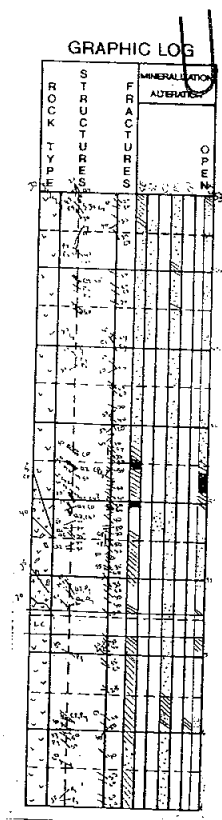
P	1850	2260	96SIXTUFF	XXX	P3Q2B*	B)B1
L			61R2 213	132	Q=	V2
R			Medium to light grey, locally slightly yellow grey to base, fine grained, with fragments appears granular locally. Very weak to non-foliated. Minor clay alteration, pitted texture. Uniform core, weak to moderately silicified, patchy relative to QTZ veins, veins common at top, decrease with depth, blue grey, fractured with pyrite infilling. Become broken and disrupted in core locally with pyrite rimming fragments. Late milky white QTZ veins 1.0 to 1.5 cm, patchy CP +/- PY + chlorite in vein, pyrite rims veins 0.2 + 0.4 mm.			
R			2010 2125 Fragments + discontinuous QTZ veins over section, irregular fractures pyrite infilled.			
R			2168 2170 QTZ vein, white QTZ, fracture infill CP, weakly oxidized.			
R			2220 2260 Core is fractured; becomes clay altered, and leached, oxide staining on fracture at 22.45-22.50, friable core to contact with dyke at 40 degrees to core axis.			
P	2260	2470	95 XLATT		P3	QC
L			71R4 244			<+
R			Fine grained, non porphyritic, medium green, very weakly foliated in middle of unit. Moderately fractured, QTZ-CARB fracture infill. Top contact 40 degrees to core axis, sharp, chill margin weak banding parallel contact-bleached zone 1 cm wide, minor patches 2-3 mm parallel of magnetite strong limonite + wad on contact, 0.5 cm thick. QTZ-CARB at shallow angle to core axis are affected by shearing.			
R			2350 2375 Fractured core, strong limonite stain, trace eponite, oxidized as well, very pitted core and QTZ-CARB vein over 10 cm. Dissolution.			
R			2430 2450 Local healed breccia, matrix + fragments same composition, weak flow suggested at 15 degrees to core axis, round + fragments. Lower contact fracture at 20 degrees to core axis.			
R			2450 2470 Very fine grained with fractures parallel lower contact.			
P	2470	2875	100KRXBXQZ	111	Q2Q1	B=B2
L			66R4 274	121	<<	V+V7
R			QTZ vein, blue grey finely fractured with sulphide (generally pyrite) infilling, granular fracture network. Locally pyrite rich bands secondary pyrite, generally parallel fracture. CP as isolated blebs in QTZ + minor amount with pyritic bands. Minor assimilated sericite-QTZ schist material in vein. Late milky white QTZ at upper contact at 75 degrees to core axis, + second vein at 60 + 40 degrees to core axis, 2.5 cm, small offset by 50 degrees infilled fracture, clasts of CP in veins, with minor pyrite on fracture. Vein has pyrite rimming margins. Trace CARB on fractures in late QTZ.			



- R 2840 2850 Massive PY vein at 30 degrees + 20 degrees to core axis, 1.5 cm wide, finely fractured, no CP.
- R P 2875 3470 SEXTUFF P3 D1 <+ CC
L <> Q2 C(
- R Medium grained, homogenous, granular, non foliated, light blue-grey becoming white-grey at depth with clay.
- R 3000 3045 Minor crystals seen, with fragments and shards, not well defined PHPP.
- R D 2875 3175 98 X 211
L 72R3 305 122
- R 3085 3105 Weakly foliated at 20 degrees to core axis.
- R 3140 3565 Core becomes white grey, introduce clay alteration, becomes foliated at depth, lose grain definition due to alteration. fractures + pyrite microveins become oxidized, as well as patchy blebs of pyrite in core + very minor chalcocite.
- R 3158 3190 Increase at 25 degrees to core axis, finer grained, pale green grey. Pyrite 3-5% fracture planes LI + wad. Fracture at 31.80 60 degrees to core axis, LI + many and iridescent green to blue violet colours.
- R 3235 3237 1.5 cm wide limonitic stain, wad fracture fill with orange tan clay, vuggy open space texture.
- R 3345 3565 Very light white grey in colour, small mottled from pyrite, foliated.
- R D 3175 3470 86 X 110
L 31R2 335 132
- R 3455 3485 Low angle contact at 7-10 degrees to core axis, 34.70 taken as midpoint; chlorite on fracture contact with clay, pyrite rims edge ss 40 degrees plane.
- R P 3470 3735 92UF9LAAP 111 P3 Q) QC
L 26R3 366 134 <=
- R Aphanitic to very fine grained, medium green, slight green upper contact, chill margin, banding parallel contact at 10 degrees to core axis, an irregular patch of pyrite at 34.75. Limonite staining on fractures, QTZ-CARB fracture infilling. Fine grained from 37.15-37.35.
- R 3530 3535 QTZ-CARB vein fractured and at 5 degrees to core axis to 50 degrees to core axis, with end floating separate.
- R 3645 3660 Brittle fracturing with chlorite infilling.
- R 3670 3710 Small unit fine grained, grey, weakly pyritic TUFF, fractured, limonitic staining on fractures, pyrite (5-7%) fragment of porphyritic, non-pyritic light green LAPP (hornblende or biotite altered to CHL). Top contact at 80 degrees to core axis, pyrite concentrated on contact (20-15%) in top 3 cm. Lower contact at 37.10 - gradational at 50 degrees to core axis. Fine clay infilled fractures, all directions.



P 3735 6250 SE9TUFF P3 Q) B= B*←←
L E)←(Q1 V+
R Medium to light grey to green grey, fine to medium grained, very
R weak to non-foliated, locally granular appearance. Moderately
R sericitized, very weak chlorite in limited zones. Pyrite as
R microveining + stringers +/- limonite stain. Pyritic fracture
R infilling increases with depth. Few scattered lapilli, common
R to base with gradational contact to lower unit. Increases in
R sericite alteration with associated clay alteration associated
R 3820 3830 Top contact at 50 degrees to core axis, sharp weak envelope of
R oxide stain, lower contact at 30 degrees to core axis, dark
R brown to red brown, pitted, extremely leached limonite and wad
R vein material. 5 to 7 cm wide.
R 3860 3880 QTZ vein at 38.65 to 38.70 at 65 degrees to core axis, very
R weak CARB + QTZ stringer 0.4 cm with PY at 70 degrees to core
R axis at 38.58 m, very weak silicification marginal to vein. CP
R with QTZ vein, pyrite at margins. Limonite with wad fracture
R infill, 25 degrees at 38.75 m.
R 3890 4450 Disseminated crystal to blebs of PY -<1% pyrite microveins/
R stringers (3-10%) may have QTZ-sericite alteration envelope <1
R to 1.5 mm wide 50-65 degrees to core axis, non foliated, uniform
R fabric to core parallel pyrite at 35-40 degrees to core axis.
D 3735 4035 93 X 011
L 55R3 396 123
R 4365 4390 2 cm wide band of pyrite with minor QTZ at 20 degrees to core
R axis, at 43.65 QTZ stringers with pyrite at 30-10 degrees to
R core axis, weak silicification to 43.90 m.
D 4035 4335 95 X 010
L 75R3 427 011
N 4450 4570 XMCOR
L
R Lost core/cavity.
R 4570 4585 Vuggy, pitted, extremely leached, limonite and wad.
D 4335 4635 60 X 111
L 27R3 457 112
R 4920 5200 Strong to moderate fabric to core parallel to 10 degrees to
R core axis, pyrite stringers 0-10 degrees to core axis, 1-1.5 mm
R QTZ-sericite envelopes, with minor yellow clay.
D 4635 4935 98 X 110
L 65R3 488 141
R 5000 5080 Strong well defined foliation 0-10 degrees to core axis, pyrite
R stringers with yellow clay-QTZ-sericite envelopes, weak to
R moderate silicification, lapilli fragments parallel foliation at
R 50.40-50.60 m, very fine grained pyrite infilled.
R 5075 5110 Strong sericite with clay alteration, fractured at 10-20



R degrees to core axis, broken, platy core, fissile, incompetent.

R 5120 5140 Milky white QTZ vein, 0.5 to 0.75 cm wide at 20 degrees to core

R axis, pyrite marginal to vein.

R 5140 5180 Strong sericite alteration, core is grey-green, wraps

R around medium grey, soft inclusion 15-30 degrees to core axis-

R chalcocite? with pyrite and sericite. Sharp 20 degree contact

R perpendicular to fracture at 30 degrees.

D 4935 5235 100 X 110

L 50R3 518 121

R 5275 5305 QTZ vein, fractured and offset, trace yellow clay? with QTZ and

R trace carbonate at margins. Disseminated PY and stringers at

R margins in schistose rock (10-15%). Fine, spotty pyrite in vein

R (<1%) with clot of CP <0.2% Altered tuff finely fractured with

R pyrite infilling <1 mm wide.

R 5345 5480 Weakly sericitized, competent core, fine grained, increase in

R pyrite stringers and fracture filling, 5-10 degrees to core axis

R + 35-45 degrees to core axis. Locally narrow breccia zones 2.5-

R 4.0 cm wide. Angular fragments 0.2 to 0.5 cm in dark grey matrix

R (possibly contains hematite?). Pyrite to 10-25% Weak QTZ-SE

R envelopes to pyrite microveins. Breccia at (53.80-53.85),

R (53.95-54.00), and (54.45-54.50 m).

D 5230 5535 95 X 220

L 53R3 549 231

R 5478 5480 Fracture plane, patchy chalcocite with oxide halo with pyrite

R stringers.

R 5490 5585 Uniform core, fine grained, weak foliation? flow at 30 degrees

R to core axis, aligned fragments (shards) or phenocrysts? (maybe

R PHPP) darker green grey in colour, sericitized, not chloritized

R Decrease in pyrite-disseminated blebs (2-3%).

R 5585 5650 Healed fracture zone patchy pyrite and CPY clay on fractures,

R increase in sericite alteration at depth, fragments?/crystals?

R altered blue green, sericite. Core is blocky.

D 5535 5835 90 8 121

L 6R2 579 252

R 5650 5705 Clay altered with clay gouge fault/shear zone. Shear plane at

R 56.52 at 50 degrees to core axis, ssl at 25 degrees plane on QTZ

R vein with patchy orange/brown carbonate in vein, clay gouge

R 56.55-56.70, lower contact 50 degrees to core axis, second shear

R 56.75-58.00, top contact at 60 degrees to core axis, lower

R contact at 40 degrees to core axis. QTZ vein white with orange

R yellow clay (CARB?) at 20 degrees to core axis, 1.5 cm wide.

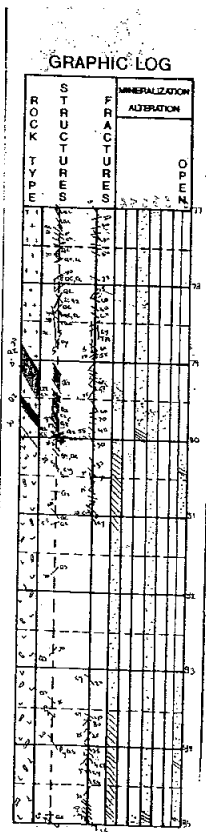
R 56.90. Broken, crumbly core to 57.05. Contact with dyke (LAPP)

R at 5 degrees to core axis. Clay rich coating on contact.

R 5705 5735 Porphyritic latite, fine to very fine grained at upper contact

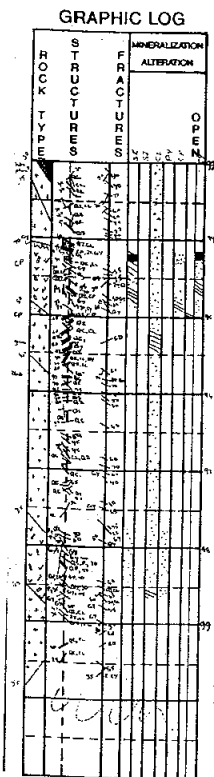
R gradational introduction of chloritic phenocrysts to depth with

	From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Ag ppm	Pb ppm	Zn ppm
				(dupl)	(dupl)				
	A001	1.80	5.00	58342	.400	.050			
	A001	5.00	8.00	58343	.596	.050			
	A001	8.00	10.50	58344	.496	.030			
	A001	10.50	13.50	58345	.536	.030			
	A001	13.50	16.50	58346	.480	.060			
	A001	16.50	18.50	58347	.684	.050			
	A001	18.50	22.60	58348	.480	.150			
	A001	22.60	24.70	58349	.021	.010			
	A001	24.70	28.75	58350	.688	.190			
	A001	28.75	31.75	58351	.118	.080			
	A001	31.75	34.70	58352	.106	.080			
	A001	34.70	37.35	58353	.037	.050			
	A001	37.35	40.35	58354	.129	.090			
	A001	40.35	43.35	58355	.087	.100			
	A001	43.35	46.35	58356	.155	.070			
	A001	46.35	49.35	58357	.110	.100			
	A001	49.35	52.35	58358	.174	.100			
	A001	52.35	55.35	58359	.153	.110			



- R 7280 7320 Less uniform, regular foliation of core becomes disrupted with
 R subrounded fragments, 0.4 to 2.4 cm, grey siliceous clasts with
 R white QTZ at margins, foliation wraps around fragment.
- R 7320 7330 Shear at top contact with QTZ vein, increase sericitic clay
 R alteration. QTZ vein at 73.25-73.30 at 35 + 40 degrees to core
 R axis, trace PY with chlorite at bottom contact. Clay gouge on
 R shear at 73.22 m at 35 degrees to core axis.
- P 7330 8755 SE7PHPP P2 Q) B+ QC
 L <*
- R Fine grained granular appearance to fine grained matrix with
 R medium to coarse grained phenocrysts. Competent uniform core
 R medium to light green grey in colour. Crystal laths medium green
 R sericitized. Euhedral to anhedral in form, F-spar laths to
 R stubby equant mafics (pyroxenes?). Increase in phenocrysts with
 R depth and degree (and type) of alteration. QTZ-CARB stringers
 R and fracture infill, generally patchy within porphyry. Pyrite
 R is disseminated crystals to <1 mm blebs (~2 to 1%) crosscutting
 R dykes with QTZ +/- carbonate, highly fractured and broken
 R relative to main unit.
- N 7330 7400 FRXLATT P2 QC
 L <)
- R Light grading to medium green from chill margin at 45 degrees
 R to core axis. Very fine grained, uniform. QTZ-CARB veins and
 R fracture infill 5-10 degrees to core axis and 45 degrees to
 R core axis +/- chlorite. Minor extension gaps near top of unit,
 R chlorite infill.
- R 7400 7420 Light green, very fine grained, very localized foliation,
 R parallel fractures, siliceous, fine grained zone bound by
 R pyritic healed fracture at 0-5 degrees to core axis, top contact
 R at 10 degrees to core axis, ssl at 5 degree plane.
- R 7420 7580 Uniform core, flow direction 0-5 degrees to core axis, (weak
 R alignment of phenocrysts). Shear/fracture at 75.15 m at 30
 R degrees to core axis, strong clay alteration.
- R 7620 7660 Increase sericite ~30-25%, lose definition of grains, felted
 R pale green to blue green in colour.
- D 7330 7695 97 9 111
 L 33R3 762 142
- N 7695 8000 FR2LAAP Q(V= Q(<* QC
 L E(V= <+
- R Same as 73.30 - 74.00, medium green in colour, aphanitic, very
 R fine grained, blocky and fractured core, QTZ-CARB +/- chlorite
 R fracture filling. Late white "bull" QTZ veins, with incorporated
 R dyke material, strongly sericitized and foliated around QTZ. Low
 R angle, pale orange brown stained QTZ cut by QTZ-CARB +/- CHL
 R fracture fill, core is fine grained, at upper contact, become

R 8705 8755 Grey to green grey, fine grained, increase sericite and pyrite
 R Patchy with blebs of pyrite +/- CP blebs (<1%) Patchy sericite
 R and QTZ, with associated localized silicification. Stringers
 R parallel foliation at 30 degrees to core axis. Very fine pyrite
 R at top and (~10%) decreasing with depth to blebs (3-5%).
 R Phenocrysts are visible but not common, nor pervasive. Patchy
 R CP located above QTZ-CARB veins. Core flow about veining.
 P 8755 9965 VV8LATT P2 CLQCB* GYHE
 L (<*V) (<)B)
 R Medium to dark green to black at depth. Sharp contacts present
 R indicating a second flow. Other colour changes are gradational
 R associated with alteration and proximity to chill margin contact
 R Overall dyke is uniform, locally may be chloritic blebs (pheno-
 R crystals/fragments?) -1.0 mm. Scattered zones of patchy red
 R hematite staining on surface, generally subrounded to oval, 0.1
 R to 0.3 cm, occasionally to 1.0 cm. Extensive QTZ-CARB +/- CHL
 R veining from 88.30 to 95.60 cm, resulting in very fine hairline
 R fractures throughout most of core and increase in QTZ-CARB
 R microveins. Gypsum present on fracture planes, infilling easily
 R lost from core as coating (min. amount seen). Gypsum not found
 R with more uniform green black dyke at depth.
 R 8820 8880 Core is cut by 8 QTZ-CARB with chlorite veins at 60-70 degrees
 R to core axis, these veins post date small scale QTZ-CARB veins
 R 0-10 degrees to core axis. (QTZ-CARB, no CHL). Core is finely
 R fractured, network at 40 degrees and 10 degrees to core axis -
 R 3 mm scale.
 R 8880 8975 Less veining, core is homogenous, uniform, fracture network
 R not present, fine fracturing on 5-10 cm scale.
 R 8850 8865 Series of QTZ-CARB with CHL vein 2 to 3 mm 0-5 degrees to core
 R axis, cut by healed fracture at 90 degrees to core axis, sense
 R of dextral rotation, vein bend at crosscutting fracture.
 R 8990 9110 Red, hematite staining as halo around point source, circular
 R with fine white inside kine or lighter coloured depletion centre
 R to blebs and irregular oatches along fractures and microveins,
 R 0.1 to 0.5 cm.
 R 9100 9115 Slightly lighter colour, weakly sericitized, increase in fine
 R fracturing resulting from vein.
 R 9145 9160 Fractured and healed dyke, with dark green chlorite, lower
 R contact at 30 degrees to core axis, light cream to green in
 R colour, chill margin with fine parallel fracture, good crystal
 R growth perpendicular to fracture edge on extensional fracture at
 R 91.45 m at 70 degrees to core axis. QTZ-CARB with light brown
 R green clay? Gradational colour change to 92.8 m.
 R 9370 9385 Sheared contact zone between QTZ-CARB vein and dyke, healed
 R finely fractured local brecciation at 15 degrees to core axis



- R fracture at 10 degrees to core axis with ssl at 5 degrees to
R plane, broken and rubbly core, fracture at 92.85 at 30 degrees
R to core axis with ssl at 15 degrees. Chlorite fracture plane
R with CPY.
- D 9050 9350 93 X 452
L 43R2 914 332
- R 9303 9350 Light green aphanitic latite, finer than surrounding latites,
R top contact lost with QTZ vein, lower contact very sharp,
R angular with fine white margin. Little response in both phases
R QTZ infilled extension fractures cross contact, but are crosscut
R by late chlorite infilled fracture in top unit.
- R 9415 9425 Shear contact, clay gouge with QTZ vein fragments. QTZ with
R chlorite at base of dyke is cut by 1 cm wide carbonate with
R minor QTZ vein at 75 degrees to core axis. Small 1-1.5 mm wide
R stringers perpendicular to contact. Shear at 70-75 degrees to
R core axis, 3.0 to 3.5 cm wide. Crystalline pyrite (10-15%).
R Sericite rich to lower contact.
- R 9425 9490 SEXPHPP P2 Q= B) <= GY
L G* <+ C)
- R Fine to medium grained, porphyritic green to light grey,
R granular appearing matrix with dark green sericitized crystals
R 1-2.5 mm, weakly foliated, pyrite stringers parallel foliation
R with very fine pyrite fracture in matrix. Fine QTZ veins- 1.0 mm
R parallel foliation at 45 degrees to core axis. QTZ
R +/- PY with CP of CP crosscut foliation at 70 degrees to core
R axis. Fragments of QTZ-CARB with chlorite veining at top of unit
R volcanic has wrapped around clay gouge outline. QTZ stringers
R with CP cut foliation + PY.
- R 9460 9465 Fractured core at 20 degrees to core axis, clay + 2 mm wide
R coatings of gypsum on fracture plane parallels QTZ with pyrite
R vein, 0.5 cm wide with gypsum stringers at 30 degrees on lower
R contact.
- R 9490 9560 Chloritized aphanitic dyke with QTZ +/- chlorite veins
R and earlier fine QTZ stringers. Approximately 60% of section
R is vein material. Patch of massive quartz 49.95 in QTZ vein
R ~1.0 x 1.5 cm subangular. Massive gypsum replacement? at 94.3
R parallel to core axis and lower contact at 50 degrees to core
R axis.
- D 9350 9650 98 9 253
L 45R2 944 016
- R 9668 9670 40 degrees to core axis contact between different phases of
R dyke, from medium green aphanitic with coarse phenocrysts dyke
R with high density veining and associated with fine
R to black to black green aphanitic latite with airline fracturing
R very competent,
R uniform, few QTZ + CARB veining at 80 degrees to core axis

R at 10-15 cm spacing. Patchy hematite? Staining throughout, may
 R or may not have point source, (2-5%). Locally sections on 5-10
 R cm scale may have high density of hematite? stained patches.
 R Commonly strong red hematite? stain but also light green with
 R faint red-pink colour. (early stage-depletion center?). Fine
 R fracturing and weak alteration at contact of top unit.
 R Texturally both phases are the same, colour is noticeable
 R difference. Fracture at contact at 50 degrees to core axis with
 R ssl at 70 degree plane. Unstained to light pink coloured light
 R green patches in core from 95.75-95.85 m (possibly same dyke,
 R different colour).

R 9765 9770 Gradational colour change from black green to medium green,
 R fine grained chill margin, contact with PHPP at 35 degrees to
 R core axis. Plane has minor clay on sericitized surface with
 R red stain, overall.

N 9770 9860 CLXPHPP P= P2 B+ <) GY
 L E) V) <=

R Medium to dark green, fine grained with 1-2.0 mm phenocrysts,
 R mottled appearance, weakly foliated at 65-70 degrees to core
 R axis. Pyrite microveins (<1 mm) with QTZ-sericite 3-4 mm
 R envelopes in section at 65-80 degrees to core axis. QTZ with
 R pyrite fracture fill at 2.0-2.5 mm scale at 35-40 degrees to
 R core axis with <1 mm wide gypsum stockwork at various angles
 R to core axis (4 veins per 5 cm). Lower contact - mix of dyke
 R with hematite and flow with PY stringers.

R 9860 9965 Black to red black, aphanitic dyke, lower contact gradational
 R to medium green at chill margin. <1% <1 mm carbonate blebs with
 R hematite halo. Reading 50-60 cm spacing, angular over entire
 R interval.

A003 9860 9965 25

D 9650 9965 94 9 231

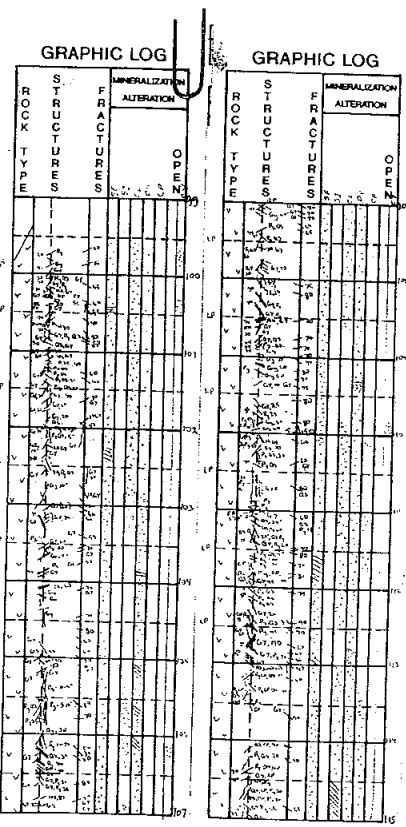
L 57R2 975 023

P 9965 10970 SEXTFLP P2 Q) B+ <= GY
 L E(V) <1

R Fine to medium grained, porphyritic matrix PHPP/lithic tuff -
 R scattered lapilli fragments, varying concentrations through unit
 R Generally subrounded, 0.3 to 1.3 cm, local fracturing with
 R pyrite infilling +/- gypsum infilling or flooding on limited
 R scale. Moderately competent core, fractured oblique to core
 R axis, generally. Pyrite disseminated fine grains in matrix 1-3%
 R Fracture infilling and marginal to veins varies locally 3-10%
 R Noticeable gypsum stockwork, fracture infilling, irregular
 R pattern from 101.90 to 107.20. From 107.20-107.80, regular
 R parallel fractures at 60-80 degrees to core axis at 0.5 to 1.0
 R cm spacing. From 107.80-109.70 gypsum found as 0.3 to 1.0 cm

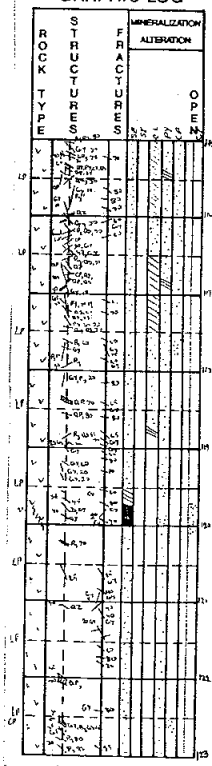
A001	55.35	58.35	58360	.151	.170
A001	58.35	62.50	58361	.290	.230
A001	62.50	65.50	58362	.328	0.3320 .290
A001	65.50	67.40	58363	.440	.360
A001	67.40	70.40	58364	.688	.930
A001	70.40	73.30	58365	.356	.300
A001	73.30	76.95	58366	.052	.070
A001	76.95	80.00	58367	.009	.020
A001	80.00	83.00	58368	.038	.070
A001	83.00	87.55	58369	.010	.020
A001	87.55	90.50	58370	.084	.070
A001	90.50	93.50	58371	.157	.050
A001	93.50	96.50	58372	.014	.020
A001	96.50	99.65	58373	.050	.060

R wide veins and coatings on fractures. Colour light grey to light
 R green grey. Limited sections with chlorite alteration.
 D 9965 10280 CLXPHPP P2 P2 B) GY
 L E+ < <1
 R Fine to medium grained, granular appearance, porphyritic matrix
 R (flow or PHPP), lapilli generally subrounded, 0.3 to 1.0 cm.
 R Porphyritic, slightly lighter in colour, to fine grained, dark
 R green chloritic angular fragments. Occasional bomb. Core is
 R competent, QTZ pyrite microveins commonly with QTZ-sericite
 R envelopes, light green to grey in colour, 2.0 to 5.0 mm. Gypsum
 R fracture infilling, 1-3 mm scale, distinct veins. Rock more
 R brittle characteristics, lack fine irregular stockwork. Section
 R is pyrite poor scattered crystals and blebs (<1%) Gypsum late
 R stage crosscuts QTZ-PY with QTZ-sericite envelope. QTZ-PY at
 R 40-60 degrees to core axis (parallel foliation) gypsum at 55-70
 R degrees to core axis.
 R 10195 10280 Gradational decrease in chlorite alteration, present 5-10 cm
 R sections, Fractures with gypsum infilling subparallel core axis
 R 5-20 degrees to core axis. Well developed QTZ-sericite envelope
 R about a pyrite microvein at 30 degrees to core axis. Up to 2 cm
 R wide envelope.
 D 9965 10280 98 X 154
 L 59R2 1005 121
 R 10280 10970 Sericite altered, increase fracture density is 15/10 cm
 R interval- 1 cm spacing crosscutting 40-50 degrees to core axis
 R and 60-70 degrees to core axis- dominate, others at all
 R orientations. Increase in pyrite with increase in fracturing, is
 R associated with QTZ and will concentrate at margins of gypsum
 R flooded zones. (3-15%).
 R 10320 10333 Locally fractured/breccia, gypsum infilled, gypsum rich matrix.
 R Pyrite rim fragments, fracture top contact 25-20 degrees to core
 R axis, 1.5-2.0 cm wide.
 R 10400 10525 Light grey in colour, finely fractured, little movement with
 R gypsum fracture fill. Patchy flooding, <1 to 1.5 mm round clots
 R of pyrite and gypsum (PY 3-5%).
 R 10525 10635 Sharp healed fracture at 40 degrees, gypsum flow lines above
 R are disrupted by fracture. Minor QTZ parallels gypsum. 1-2 mm
 R scale. Zone fractured subparallel to core axis with pyrite
 R infilling 0-10 degrees to core axis, stringers- no defined
 R margins cut by gypsum infilled fractures. Small <0.5 mm scale
 R fractures, with gypsum, recessive oblique to core axis 1-5 cm
 R spacing. Lapilli fragments same as above, in lithic tuff? to
 R crystal tuff. Variable flow directions. Patchy chlorite.
 D 10280 10600 100 X 332
 L 67R2 1036 012



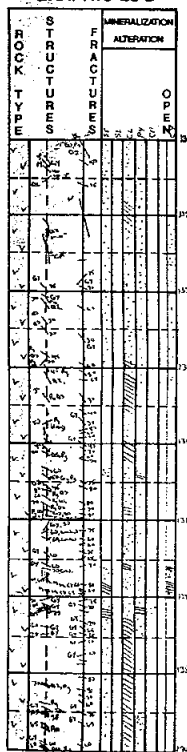
- R 10685 10750 Core-light green and dark green patches, gradational chloritic alteration of fragments and phenocrysts.
- R 10690 10860 Core becomes uniform, competent, lose irregular fracturing. Pyrite-QTZ with sericitic envelopes 2-5 mm, white grey with disseminated PY, gypsum stringers. Fine, recessive <1 mm wide fracture with gypsum- 0.3-1.0 cm spacing generally oblique to core axis, broken as if tension spacing. Decrease in pyrite-fine disseminated through core (<1%) or paralleling veining (2-3%). Weakly chloritic.
- R 10810 10820 Crenulated foliation, very local kink folding, 1.0-1.5 mm PY segregations parallel wavy foliation.
- R 10870 10970 Increase in sericity, very fine gypsum fractures not present or not as distinct in chloritic rock. Mottled appearance due to aligned lapilli, weak foliation at depth, matrix fine grained but granular. Gypsum 3-5 mm wide diffuse veins and locally pervasive patches.
- D 10600 10970 98 X
L 78R2 1066
P 10970 11865 CLXFLP P2 P3 B) B)<) GY
L E+ V+ <=
- R Same as overlying unit, medium green, locally patchy appearance with dark green lapilli in green matrix. Matrix fine grained lithic tuff (possibly crystal tuff on small scale). Lapilli subangular to subrounded, matrix supported, varying composition very fine grained to dark green version of matrix. Pyrite +/- QTZ veins with QTZ-sericite alteration envelopes and distinct. Gypsum stockwork zone distinct fracture infilling at 3-5 mm scale and <1 mm scale fractures (tension gashes?) oblique to core axis, 3-5 mm spacing. Irregular stringers may extend from pyrite microvein, with QTZ-sericite alteration envelope.
- R 11010 11070 Microfractures oblique to core axis, with gypsum <1 mm at 1-2 mm spacing- commonly branch from central microfracture at 10-15 degrees to core axis, crosscutting all other structures.
- R 11168 11210 Series of open fractures- tension gash appearance at 70-80 degrees to core axis, from loss of gypsum. Gypsum infilled fractures intermixed at 3-5 mm spacing.
- R 11168 11190 Low angle pyrite and minor CP stringers with QTZ-sericite envelope- close spaced, lose chlorite- zone is green grey and dominated by sericite alteration.
- D 10970 11300 100 X 331
L 46R2 1097 123
R Marker at 112.7
- R 11235 11270 Healed fractures with gypsum- some movement- fine microfractures offset, orientation not determined, massive gypsum infilling at 112.55-112.62 at 30 degrees to core axis, trace

GRAPHIC LOG



- R fine pyrite in gypsum, trace molybdenum with pyrite at margin
 R of gypsum.
- R 11265 11300 Bombs of very fine grained to aphanitic light tan grey tuff,
 R and crystal tuff, sericitized crystals- 4-6 cm wide, fractured
 R with pyrite microveins with alteration envelopes. Get gypsum
 R space infilling. Lower contact at 50 degrees to core axis.
- R 11455 11560 Heterolithic fragments, gradation to monolithic lapilli within
 R zones 20-30 cm from 115.60-117.00.
- R 11540 11550 Fractured zone, healed, fine grained pyrite blebs introduced
 R (15-20%).
- D 11300 11600 100 X 531
 L 80R2 1158 021
- R 11600 11605 Healed fracture plane at 30 degrees to core axis- offset QTZ
 R vein- reverse movement ~3 cm.
- R 11780 11860 Weakly altered, very competent core.
- R 11765 11772 Bomb- rounded- fine CP stringers contained (<1%)
- D 11600 11865 98 X 132
 L 68R2 105
- P 11865 12550 SEXTFLP P2 Q1 D) B(<+ GY
 L E* G) V-V) <+
 R Similar to above, decrease in chlorite alteration. Core medium
 R to light grey with green grey patches intermixed. Fine grained
 R to lithic tuff matrix supporting lapilli fragments of various
 R composition. Occasional bombs 5-6 cm in size. Lapilli subangular
 R 5 mm to 2 cm in size. Not always well defined. Gypsum present on
 R fracture planes and as discontinuous stringers in core. Lose <1
 R mm scale microfracturing. Section pyrite poor with <1% finely
 R disseminated. No visible CP. Core is competent. Very little
 R veining.
- R 11950 12000 Very strong to intensive sericite alteration. No original
 R texture 119.68-119.80 low angle fracturing at 0-5 degrees to
 R core axis, with clay gouge on fracture planes at 60-70 degrees
 R to core axis, with pyrite (1%). Gypsum vein 3 mm on fracture at
 R 20 degrees to core axis.
- R 12000 12045 Large bomb fragments, pyrite infilling at contact.
- R 12045 12190 Light green grey, weakly chloritic.
- D 11865 12200 96 X 111
 L 54R4 1188 122
 R Mark at 121.9
- D 12200 12550 97 X 121
 L 81R3 1249 012
- P 12550 15785 CLXTFLP P1 P3 B= B(<+ GY
 L E+ V1<+ <=
 R Fine grained lithic tuff matrix (locally appears crystal lithic
 R tuff) with lapilli fragments- intermixed to volcanic breccia

GRAPHIC LOG



R with block size fragments. Lapilli tuff present as matrix to
R to blocks- locally at depth may be absent, intermixed with
R distinct lithic tuff beds. Fragments subrounded to subangular
R weak alignment to fragments in tuff but changes rapidly- very
R local scale. Small scale local healed fracture zones. Fine
R pyrite microveins with QTZ-sericite alteration envelopes
R scattered throughout. Unit is pyrite poor, locally pyrite with
R QTZ veins and fracturing. Gypsum is present in limited amounts
R restricted to fracture infilling and coatings on fracture planes
R Core is medium to light green, variable chlorite, locally patchy
R with intermixed grey (local alteration on 1.2 cm scale due to
R fracturing. Core is competent, good recovery. Fine gypsum
R infilled fracture system- wider spacing (2-5 cm) <0.5mm wide.
R present up to 146.0 m. Trace CP as scattered blebs locally
R associated with QTZ veins.

R 12615 12700 Finely foliated- 75-85 degrees to core axis, alternating
R chlorite and sericite segregations 0.5 to 1.5 wide. Locally
R sheared with QTZ veins which are now boudinaged 70-80 degrees to
R core axis. Spotty pyrite with sericite 1-2%, moderately altered
R weakly competent rock. Will separate on foliation plane. Gypsum
R fracture fill 1 mm wide. QTZ boudinaged veins 0.5 to 1 cm wide,
R 126.45-126.70 m and 126.85-127.05 m. QTZ-PY vein 127.05-127.15 m

N 12735 12823 FRXTFLP P= P5 B+

L #+

R Healed fractured lapilli tuff, low angle fracture at 20-0
R degrees to core axis, gypsum healed fractures- fragmented QTZ
R veins interstitial to fragmental tuff variety of foliation.
R Local breccia parallel fracturing 0.5 to 1 cm wide zone. 127.60-
R 127.70. Lost core 127.70-127.80. Lower contact from 20 degrees
R to core axis.

D 12550 12850 97 X 213
L 27R2 1280 226

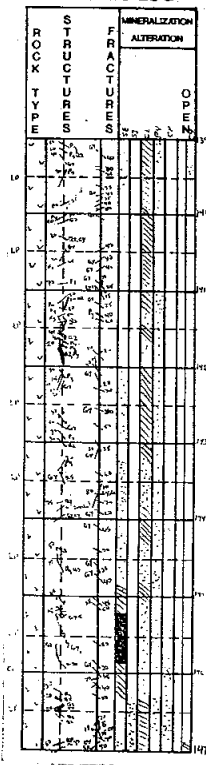
R 12935 12965 Local fracture/breccia zone with QTZ veining followed by late
R gypsum infilling. Trace blebs in QTZ. Top contact at 20 degrees
R to core axis. Lower contact at 15 degrees to core axis.

R 13000 13040 Block top contact at irregular ~70 degrees to core axis, QTZ
R with minor sericite at margin, lower contact at 40 degrees
R to core axis. massive fine grained tuff, pyrite (<1%).

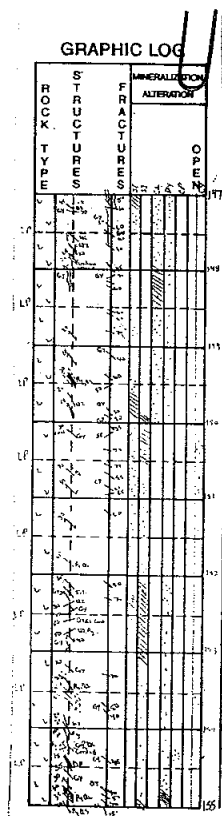
D 12850 13150 100 X 221
L 73R2 1310 121

R 13180 13225 Low angle fracture at 10 degrees to core axis, grey sulphide ?
R clay with gypsum coating 1.5-2.0 cm wide shear zone parallel
R fracture- foliation at 5-10 degrees to core axis, top contact
R sharp at 15-20 degrees to core axis, with gypsum. QTZ stringers
R within shear with pyrite (2%).

GRAPHIC LOG

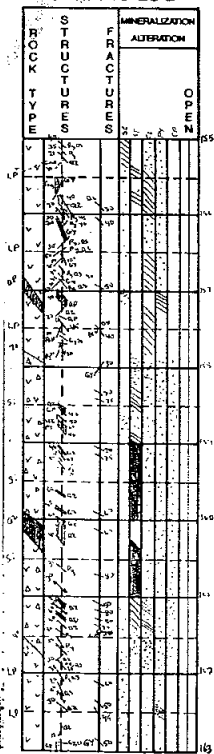


- R 13220 13265QTZ
- R 13210 13410 Core is medium to light grey green in colour. Fine grained
R with granular appearance, sericite +/- minor clay alteration.
R Abrupt break at 134.10 to dark green chloritic tuff to 134.55
R with fractured block of similar composition to 134.95 m. Flow
R lines to tuff of same composition between blocks. Possibly large
R block- no top contact, gradational contact slight colour change
R at 133.9 at 40 degrees to core axis.
- D 13150 13450 98 X 121
L 60R2 1341 111
- R 13500 13650 Fracture contact and block supported blocks- bands of various
R rock types on 5 cm to 15 cm wide zones. Variable from chloritic
R fine grained tuff, various colour changes, 1-1.5 mm wide gypsum
R or QTZ vein separation to chloritic- fractured tuff with
R interstitial QTZ, light green, granular tuff. Generally fracture
R infilling at composition change and irregular contacts (135.0-
R 135.85 may be series of tuffs?).
- R 13535 13550 Top contact, base of CHL tuff at 60 degrees to core axis, sharp
R with gypsum, top of chlorite tuff block. Series of odd fragments
R between crosscutting healed fractures and QS alteration halo
R cause various colour change from 135.50-135.80 m. Alteration on
R downhole side of fracture 2.0 to 5 mm.
- R 13672 13690 Fractured core, white grey clay gouge infilling chlorite-
R sericite altered TFLP, recessive margins to lapilli, +/- clay
R Fracture angle at 60 degrees to core axis.
- R 13715 13720 Fractured core, healed with patchy gypsum, zone of blebs of PY
R and CP, brown by gypsum fracture fill at 65 degrees to core axis
R 20 degrees to core axis, 50 degrees to core axis.
- R 13735 13742 Healed shear zone, top contact gypsum at 60 degrees to core
R axis, lower contact at 70 degrees to core axis, <0.5 mm gypsum?
R Convoluted foliation wrapping about anhydrite +/- QTZ stringers
R (70-80%).
- R 13745 13890 Very fine <0.5 mm wide gypsum stockwork fracture filling. 50
R degrees and 65-70 degrees to core axis at 1.0 and 2.0 cm spacing
R Locally friable core.
- D 13450 13750 100 X 142
L 35R2 1371 033
- D 13750 14050 95 X 121
L 48R2 1402 014
- R 14085 14100 Low angle fractures to core axis, 35 degrees, 15 degrees and 10
R degrees to core axis. Gypsum coated with associated green/black
R clay, ssl at 70 and 90 degree plane. Fine PY stringers to 141.30
- R 14115 14195 Series of QTZ veins subparallel to core axis with pyrite (1%)
R at 141.15-141.50 and 141.60-141.95, healed QTZ +/- clay fracture
R at 60-75 degrees to core axis, 1-1.5 mm wide in fine grained

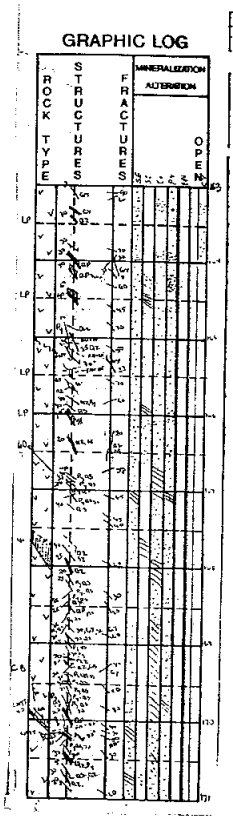


- R tuff. Alteration band parallel to core axis from healed fracture
R at 80 degrees to core axis at 80 degrees to core axis at 141.38
R m, alteration bands of slightly tuff, 2-3 mm wide.
- R 14330 14360 Light grey green, weakly sericitized, minor chloritic lapilli.
D 14050 14350 97 X 212
L 53R2 1433 121
- R 14480 14630 Gradational from medium green to green grey. Increase sericite
R to 40-50%, medium to fine grained, granular appearance, mottled
R lithic tuff matrix with lapilli weak foliated at 30 degrees to
R core axis. Top contact at 30 degrees to core axis. Gypsum
R microfractures <0.5 mm stockwork 20-40 degrees to core axis,
R 1-5 cm spacing becoming 3-5 mm spacing at 20 degrees to core
R axis. Strong sericite 145.25-145.90. Low angle fracture at 5-10
R degrees to core axis, very grained sheared zone parallel
R fracture- 3-5 mm. Lower contact with chlorite altered not know
R must be lost core- abrupt change.
- D 14350 14630 98 X 111
L 53R2 1463 131
- R 14630 14730 Fractured, QTZ healed and strong to moderately silicified- 80%
R recovery scattered blebs of pyrite with trace CP. Low angle
R fractures at 10-20 degrees to core axis with thin gypsum coating
R and smeared sulphides CP? Sulphides not in QTZ at top of unit,
R bleb nature of remobilized pyrite to margins, fracture at
R 146.70-146.85 at 15 degrees to core axis, thin gypsum with
R smeared CP at 5 degrees to plane, fracture at 15 degrees to core
R axis, ssl at 30 degrees to plane.
- R 14730 14920 TFLP, chloritic, low angle fractures, healed with gypsum +/-
R QTZ, lapilli tuff foliated at 30-40 degrees to core axis. Local
R variation due to fracturing from 148.75-149.20 with foliation
R at 0-10 degrees to core axis, <1% PY in blebs in stringers.
- R 14760 14770 Fractured zone, QTZ flooded and silicified fragments of TFLP
R contacts at 45 and 20 degrees to core axis.
- D 14630 14930 98 X 241
L 55R2 1493 152
- R 14860 14880 Block or interbed of lithic tuff, lower contact foliated
R between lapilli at 20 degrees to core axis- stringers of QTZ at
R 10-20 degrees to core axis, lapilli fragments rounded with
R sericite halo on downhole side- rotation.
- R 14930 15085 Series of conformable chloritic lithic tuffs with lapilli ash
R tuff at depth. Slight variation in foliation due to shearing at
R 149.65-150.05. Zone has QTZ introduced with sericite alteration
R and pyrite healed fractures at base- sheared at 149.70-149.90
R at 18 degrees to core axis, silicified from lower contact at 40
R degrees to core axis to 150.08 at 35 degrees to core axis.
R Finely fractured with PY infilling. From 150.25 top of 4.5 cm

GRAPHIC LOG



- R 9.5 to 1.0 cm wide. Narrow <0.25 mm margin of pyrite. Cut at
R depth by PY with QS vein at 35 degrees to core axis.
- R 15615 15785 Decrease in lapilli, fine grained tuff with chloritic fragments
R 0.5 to 2 mm. Moderately foliated, healed fractures with
R anhydrite/gypsum in local zone of shearing, variable foliation
R to depth. Top of unit uniform.
- R 15701 15720 QTZ-pyrite vein, sharp top contact at 30 degrees to core axis
R 1.5 cm wide band QTZ with pale yellow sericite blebs, alteration
R zone. 5 cm wide QTZ-pyrite vein, lower contact at 40 degrees to
R core axis.
- R 15750 15772 Healed fracture with anhydrite? at 10 degrees to core axis with
R associated fracture downhole within sheared core, patchy space
R infilling with QTZ?/anhydrite?
- D 15530 15785 99 X 232
L 88R2 1554 020
- P 15785 16165 100S198XLP 160 Q)P7Q= B=
L 65R 1585 113 V1
- R Gradation from top contact of chlorite altered TFLP? with (may
R be tuff) intermixed with QTZ to varying degrees of silicified
R tuff. Globular patches, very rounded edges, not sharp angular
R producing worm burrow-like appearance, replacing TFLP. Grey
R green to grey in colour. Massive QTZ vein at 160.00-160.25.
R Stringers of pyrite blebs irregular and scattered through unit.
R CP common in section as stringers and scattered blebs. Sulphides
R tend to concentrate on non-silicified section of core, to a
R lesser degree on silicified patches (will outline patch). In
R general, highly silicified or QTZ veins are void of sulphides.
R Gypsum coating on fracture plane at 158.00 m, not present in
R unit.
- R 15855 15862 Patch of sheared tuff, irregular, invaded contact at 50 degrees
R to core axis parallel foliation, partial sericitic sharp contact
R at 45 degrees to core axis at 158.57 m.
- R 15780 Two samples taken over same interval: 58393 & 58394.
- R 16098 16165 Gradational decrease in silicification, increase chlorite
R patches and semi-silicified patches, non-uniform very mixed up
R appearance, lower contact at 40 degrees to core axis.
- P 16165 16660 SE9TFLP P3 Q1 B) GY
L E+ <=V* <*
- R Fine grained, non foliated to moderately foliated at depth,
R locally granular in appearance. Matrix supported scattered
R lapilli at top of section, generally subangular, 0.3 to 1 cm
R generally not very well defined from matrix. QTZ +/- sericitic
R healed fractures, may have associated foliation. Chloritic
R alteration of lapilli through section with local chloritic
R zones. Low concentration of pyrite as very fine dissemination



R and stringers (<1%) and localized patches associated with
R veining. Increase in QTZ healed fractures and QTZ + PY vein to
R base of unit, hairline gypsum fractures are present in section,
R low angle to core axis and rimming clast outlines.

R 16240 16350 Non foliated, mottled white and green granular appearing fine
R grained tuff matrix. Hairline gypsum fractures <0.25 mm present

R 16300 16320 ~density of lapilli 10-15% weakly aligned at 40 degrees to core
R axis.

R 16320 16335 Top contact- ground core block? lithic tuff chlorite to
R kaolinitic (weak) at 163.25 at 80 degrees to core axis, out by
R gypsum healed fracture at 50 degrees to core axis.

R 16400 16450 Block of fine grained, non pyritic tuff, top contact at 55
R degrees to core axis, lower contact at 35 degrees to core axis,
R rimmed by 2-3 mm QTZ-sericite with PY.

R 16420 16423 QTZ-pyrite vein at 40 degrees to core axis, moderate
R silicification, pyrite-164.25-164.30.

D 16165 16465 100 X 221
L 40R3 1646 121

R 16500 16515 Healed fracture at 35 degrees to core axis, shear zone with
R convoluted foliation over 10 cm.

R 16530 16660 Increase in chlorite (green sericite) core now light green in
R colour, local shearing with crenulated foliation, FA varies from
R 55-65 degrees to core axis pyrite stringers parallel foliation
R introduction of QTZ-pyrite veins. 166.10-166.60. Healed fracture
R zone subparallel to core axis.

D 16465 16660 100 X 221
L 67R3 121

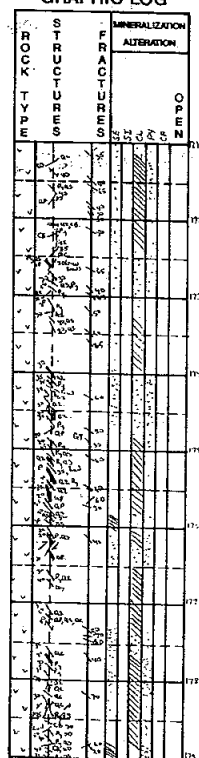
P 16660 19660 CLXTUFF Q=Q)P3B) D+<=
L E+<) V=V+

R Medium green in colour, slight variations locally from dark to
R lighter shades of green. Fine grained uniform to fine grained
R lithic tuff (variety of shapes, crystals may be present but
R don't dominate, crystal lithic tuff?). Lithic fragments from
R 0.5 to 3 mm, generally dark green- sericitized. Scattered
R lapilli, similar composition as matrix, not well defined edges.
R Pyrite microveins with QTZ-sericite alteration envelopes or QTZ
R veins with trace pyrite. As above pyrite deficient unit,
R restricted to fractures microveins. 167.0-167.10 crosscutting
R pyrite microveins with alteration envelopes => zone of sericite
R alteration with 40-55 degrees to core axis contacts.

R 16720 16750 Contact at 35 degrees to core axis at 167.20 m, top of tuff
R unit with very fine grained groundmass, light green with dark
R green crystals? fragments (20%) 30 degrees to core axis.

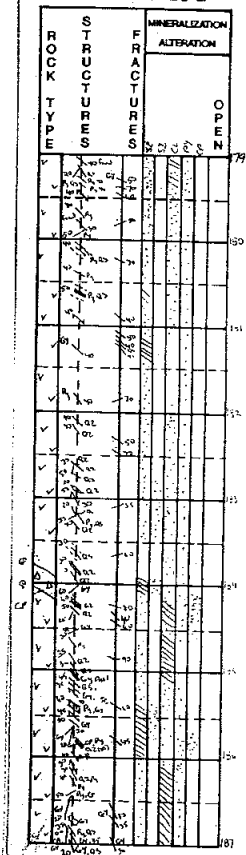
R 16760 16795 QTZ vein/QTZ healed fracture zone. Grey QTZ, with incorporated
R tuff fragments to medium silicified tuff (slight resemblance to

GRAPHIC LOG



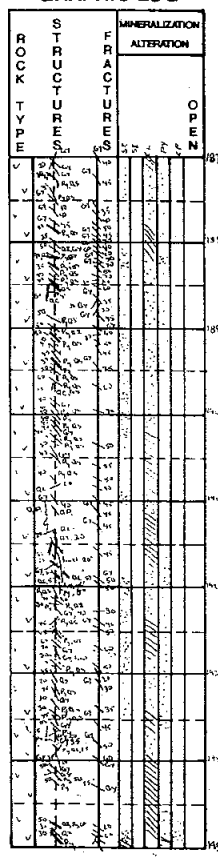
- R siliceous brecciated tuff (BXTF) at 157.85-161.65 m. Top contact
R lost (ground core), lower contact 40 degrees to core axis.
R 16910 16920 Healed fracture zone, QTZ and carbonate infilling and gypsum
R Fracture contact at 40 degrees to core axis, between two tuffs,
R cut by QTZ healed fracture at 50 degrees to core axis, rotated
R ~70 degrees from first.
D 16660 16960 97 X 231
L 70R3 1676 121
R 16970 17005 QTZ with disseminated blebs of pyrite vein/fracture infill at
R 20 degrees to core axis, 2.0 cm wide (PY-3-4%). Lower contact
R fracture plane at 20 degrees to core axis, strong sericite
R alteration with movement, convoluted foliation, fold axis at
R 169.96 m at 80 degrees to core axis, from 10 degrees to core
R axis, to 40 degrees to core axis. 1.0 cm wide, very fine grained
R sheared dyke at 50 degrees to core axis. (LATT?)
R 17045 17085 Healed fracture zone associated with fracture at 20-30 degrees
R to core axis, QTZ vein infilling to sericite (pale yellow green)
R envelope parallel QTZ and fine related fractures, envelope
R 5.0-8.0 mm wide.
D 16960 17260 95 X 310
L 60R2 1707 031
R 17400 17465 Series of QTZ veins parallel and subparallel foliation, pyrite
R parallel foliation not with veins, minor folding of QTZ vein.
R Tuff is patchy dark and light green, mixture of sericite and
R chlorite alteration, foliation at 30-40 degrees to core axis.
D 17260 17560 97 X 230
L 73R3 1737 012
R 17575 17590 Fine pyrite stringers, blebs of pyrite, discontinuous, <0.20 mm
R wide at 50 degrees in sericite alteration zone- contacts at 50
R and 35 degrees to core axis.
R 17625 17650 Healed fractures at 20 degrees to core axis, pyrite vein 1 mm
R wide with QTZ envelope 1 cm wide 20 degrees to core axis, offset
R by fracturing indicating reverse slip movement ~2.5 cm.
D 17560 17860 97 X 151
L 73R3 1768 011
R 17710 17711 QTZ-CARB fracture fill and stringers seems to dominate from
R here to bottom of fhloritic unit. Carbonate is not present
R within the sericite alteration zone 179.35 to 186.00 m.
R 17825 17835 Pyrite with QTZ-sericite envelope ~5 mm wide at 30 degrees,
R crosscut by late QTZ-CARB fractures at 10-15 degrees to core
R axis, pyrite stringer indicates normal slip movement ~5 mm
R displacement.
R 17835 17935 Series of healed fractures, with movement, may or may not have
R an alteration halo or infilling, also indicated by crosscut PY
R with QTZ-sericite veins.

GRAPHIC LOG



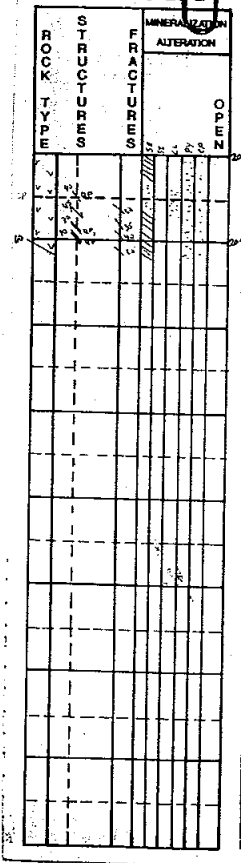
- R 17870 17890 Sericite altered zone with pyrite microveins at 30-40 degrees
R to core axis, 8 over 20 cm interval, interference of QTZ-
R sericite envelopes produced chlorite poor zone.
- M 17935 18600 SE9TUFF P3 Q2 Q1<-
L E= <)
- R Same as above, gradational decrease in chlorite. Core is light
R green to green-grey, fine grained, weakly foliated. QTZ
R fracture fill, no associated gypsum. Competent core, uniform
R <0.5% lapilli. Pyrite stringers and microveins with QTZ-sericite
R halos, up to 2-3 cm wide.
- D 17860 18160 100 X 130
L 78R3 1798 021
- R 18387 18405 QTZ healed breccia, contacts sharp at 50 degrees to core axis.
- R 18410 18430 Crystal tuff (not PHPP) fine grained, mafic and felsic grains,
R foliation at 45 degrees to core axis, with disseminated CP (7-
R 10%). Top contact at 40 degrees to core axis, lower at 30
R degrees to core axis.
- R 18438 18455 Sericite alteration zone, pyrite stringers with CP, wavy
R foliation at 25-30 degrees to core axis.
- D 18160 18460 97 X 131
L 82R3 1828 011
- R 18485 18488 1.3 cm wide grey anhydrite vein? with fractures with gypsum.
R Possibly some impurities in gypsum to make it harder, not white
R as anhydrite should be, but harder than gypsum.
- R 18475 18680 Core crossed by fine hairline fractures parallel, <0.25 mm
R wide, infilled with gypsum, clay or open space at 45 degrees.
- R 18500 18600 Sericitic core, finely sheared, locally silicified, moderately
R at 185.35 - 12 cm wide pyrite vein with gypsum infilling at
R centre, blebs of PY at 60 degrees to core axis. Fractured core,
R with fine pyrite stringers- at 185.60- fine gypsum healed
R fracture at 20 degrees to core axis, associated with QTZ vein
R at 50 degrees to core axis, with PY and CP (~1%) ~1-2 m wide
R band parallel QTZ vein. Stringers parallel foliation in sheared
R core to 186.00. Alteration change sericite to chlorite, 35
R degrees to core axis.
- R 18600 18760 Scattered lapilli, chloritic, subrounded parallel foliation
R 30-40 degrees to core axis.
- R 18690 18700 Fracture parallel foliation at 50 degrees to core axis to 0
R degrees to core axis, anhydrite? yellow white with gypsum
R infilling at centre 3-7 mm wide.
- R 18735 19035 Blocky, broken core- 3-5 cm blocks, 10-15 cm wide at either end
- D 18460 18760 100 X 330
L 77R2 1859 121
- R 18820 18830 Fractured core, 80 through 50 degrees to core axis, 5 mm wide
R pyrite at 50 degrees to core axis parallel fracture- sericite

GRAPHIC LOG



- R altered.
- R 18670 18880 Increase in gypsum fracture coating (2-3%).
- R 18890 18935 Fine grained, foliated, lithic tuff with very fine grained disseminated CP ~(<0-2%).
- R 18960 18970 QTZ-CARB vein at 15 degrees to core axis crosscut by PY with QTZ-sericite vein at 60 degrees to core axis, narrow centre infilling of gypsum in QTZ-CARB.
- R 18930 19430 Well pronounced dark green chloritized?/sericitized? fragments with crystals, crystal-lithic tuff? possible PHPP- hairline fracture with gypsum from 189.80-194.60-0.5 to 1.0 cm to 5 cm spacing, generally at 40-50 degrees to core axis, 189.80-190.25 QTZ-sericite envelope parallel pyrite veins, 1-3 mm, and are 1.0 to 1.5 cm wide and 3 cm where closely spaced.
- D 18760 19060 92 X 182
- L 42R2 1889 162
- R 19120 19160 5-10 cm spaced, 2.0-3.0 mm wide carbonate fracture veins, pale yellow-white to light yellow, crosscut by QTZ fracture infilling associated with movement on fracture at 20 degrees to core axis, 0.5 to 1.0 cm displacement, normal slip, both sets crosscut by hairline (<0.25 mm wide) gypsum fractures at 40-60 degrees to core axis.
- D 19060 19360 98 X 241
- L 66R2 1920 151
- R 19390 19395 50 degrees to core axis, 1 cm wide QTZ vein with PY at edges, with margin of 2 mm wide gypsum at top contact.
- R 19410 19450 Hairline, gypsum infilled fractures at 40 degrees and 60 degrees to core axis, 0.5 to 3 cm spacing. Lapilli at 194.50 1.0 cm rounded.
- R 19482 19488 0.5 cm wide white-grey QTZ vein, with irregular sulphide in filled fractures, QTZ-sericite alteration at 50 degrees to core axis, 2.8 cm wide, pyrite (1-2%) CP, (<1%) with trace black-metallic lustre mica?
- R 19510 19511 Gypsum coating on fracture, 60 degrees to core axis, white, fine crystalline.
- D 19360 19660 93 X 240
- L 50R2 1951 160
- R 19585 19605 Increase in blebs of pyrite in tuff bordering fractured QTZ vein with sulphide infilling at 45 degrees to core axis, ~4.0 cm wide, offset on gypsum infilled fracture at 10 degrees to core axis, fracture coated in white powdery clay/alternated gypsum.
- P 19660 20090 CLXTFLP Q2 P3 B=B= V)V)
- R Clast supported lapilli tuff, with variety of composition fragments, subangular, to subrounded, 0.5 cm to 2.5 cm. Blebs of pyrite commonly rim outline of clasts. Gradational from

GRAPHIC LOG



L 66 2012 131
 R END OF HOLE (204.10 m)

The A005 assay sets are selected
 composites based on copper grades
 and geology

	From	To	Length	Cu %	Au g/t
A005	1.80	28.75	26.95	.502	.080
A005	28.75	62.50	33.75	.144	.112
A005	62.50	73.30	10.80	.455	.483
A005	73.30	102.80	29.50	.058	.049
A005	102.80	140.50	37.70	.243	.154
A005	140.50	166.60	26.10	.351	.143
A005	166.60	193.60	27.00	.188	.097
A005	193.60	204.10	10.50	.430	.313
/END					

IDEN680201 KERR KS-089NQL31AUG90WKH JTTAUG90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 5000MT 282.50090.00-69.00 9794.00 9712.00 1715.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXXQZQPXXXXYY

/SCL MT.2PC.0
 LSCL PC.0 LCTM
 S001 5000 14500 282.50090.00-62.50
 S002 14500 23500 282.50084.00-59.50
 S003 23500 28250 282.50081.00-56.00

A003
 ALUMM MAG

P 000 300 CSNG

P 300 420 OVBD

P 420 910 SE7TUFF P1 D1 <) JALI
 L << T(T

R Light grey, fine grained unit composed of QTZ and f-spar which
 R has undergone moderate sericitic alteration. PY occurs as tiny
 R disseminated crystals and as microveinlets which are partially
 R altered to JA. Foliation weak to moderate at 30. fractures are
 R LI stained.

D 420 100 X 000

L 0R2 110

N 470 595 100BKXLAAP 000 LI

L 36R3 51 121 T)

R Light green unit composed of f-spar and mafics. Intensive LI
 R staining along fractures.

D 595 910 100 X 020

L 74R2 82 120

P 910 1210 100 XLAAP 111 Q*

L 80R3 112 110

R Dark green unit composed of f-spar and mafics. CL occurs as
 R patches associated with QTZ-CB veins. Small spots of CB
 R scattered through the unit.

P 1210 2035 SEXTUFF P1 D1 B*<)

L <<<

R Light grey, fine grained unit composed of QTZ and f-spar which
 R has undergone moderate sericitic alteration. PY occurs as small
 R disseminated crystals and as microveinlets. A few CP blocks seen
 R Foliation is weak to moderate at 50.

D 1210 1510 100 X 030

L 100R2 143 011

D 1510 1810 100 X 020

From To Sample Cu % Cu % Au g/t Au g/t Ag ppm Pb ppm Zn ppm
 (dupl) (dupl)

A001 4.20 4.70 56375 .900 .310

A001 4.70 5.95 56376 .065 .030

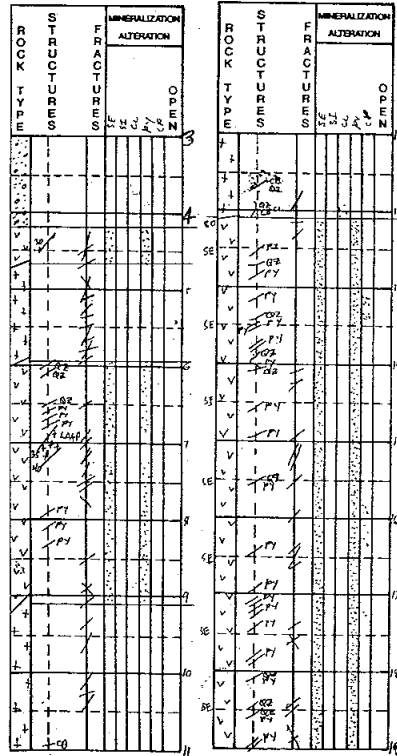
A001 5.95 9.10 56377 .752 .140

A001 9.10 12.10 56378 .017 .020

A001 12.10 15.10 56379 .764 .320

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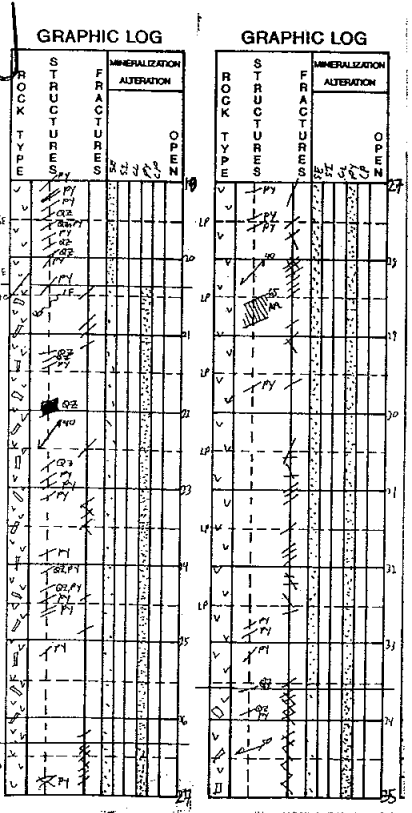
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GRAPHIC LOG





L R2 173 120
 D 1810 2035 100 X 030
 L R2 110
 P 2035 2630 F5XPHPP P+ D1 <>

R V)<
 R Light grey unit consisting of plagioclase phenocryst set in a fine grained matrix of QTZ and f-spar. The phenocrysts are small (up to 5 mm) but constitute 25% of the unit. The unit possesses a moderate foliation at 40 which has stretched out some of the phenocrysts. PY occurs as tiny disseminated crystals and occasional microveinlets. very little sericitic alteration. Rare QTZ veinlets are cracked and infilled with calcite. Small fault, trending at 40, occurs at 20.65.

D 2035 2335 100 X 021
 L 87R2 204 020
 D 2335 2630 100 X 020
 L 88R2 234 020
 P 2630 4335 SE8TFLP P=Q+ D= <> CC

R << D-
 R Light to medium grey unit composed of lapilli clasts set in a fine grained matrix. The clasts and matrix have the same composition (QTZ and f-spar). The f-spars are moderately to sericite. The unit has a moderate to intense foliation at 40 which has stretched the lapilli clasts. PY occurs as small blebs sometimes accumulated into laminations. A small dyke composed of f-spar with minor QTZ (aplite) occurs from 28.55 to 28.80. A very bleached zone occurs from 30.90 to 31.10.

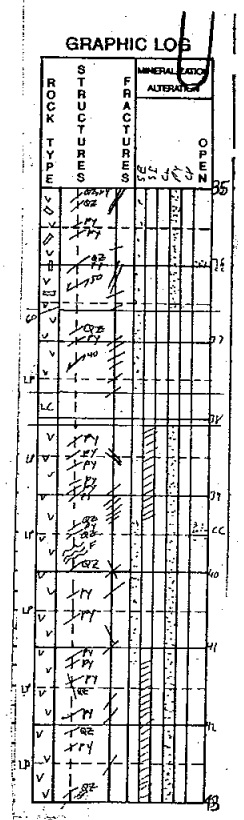
D 2630 2930 98 X 020
 L 63R2 265 130
 D 2930 3150 98 X 010
 L 68R2 295 110
 D 3150 3360 98 X 110
 L 48R2 326 021

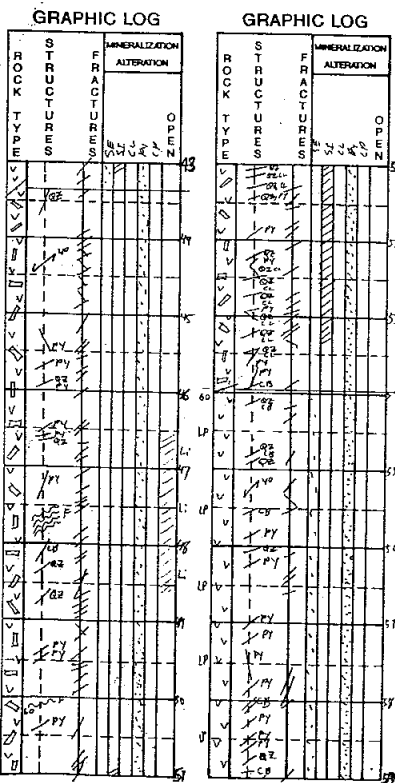
N 3360 3660 96F3XPHPP 020 P) D1 <> CC
 L 30R3 350 130 <>< D*

R Plagioclase porphyry in which the plagioclase phenocrysts comprise 15% of the unit. The phenocrysts range up to 2 mm in size. The matrix consists of medium-dark grey, fine grained, f-spar and QTZ. very minor sericitic alteration. Uit is very blocky from 33.60 to 35.00. Weak foliation at 50. More competent than surrounding unit. PY occurs as disseminated crystals and with QTZ veins.

D 3660 3960 85 X 020
 L 57R3 381 030
 D 3960 4170 96 X 120

A001	15.10	18.10	56380	1.060	.250
A001	18.10	20.35	56381	.980	.230
A001	20.35	23.35	56382	.936	.150
A001	23.35	26.30	56383	.632	.170
A001	26.30	29.30	56384	.504	.200
A001	29.30	31.50	56385	.540	.140
A001	31.50	33.60	56386	.760 0.7560	.140
A001	33.60	36.60	56387	.628	.290





L 64R3 417 110
 N 3765 3810 XMCOR
 L
 R 3810 3930 Partially silicified zone.
 R 3920 3980 Fault with undetermined trend.
 R 4120 4315 Partially silicified zone.
 D 4170 4335 100 X 010
 L 67R3 110
 P 4335 5395 PHPP

Q= D= LI
 Q+

Porphyritic plagioclase and lesser HB set in a fine grained matrix of QTZ and f-spar. Unit is a dark grey (except for the altered zones). A fault of undetermined trend occurs from 47.60 to 47.80. PHPP fragments in this zone are very intensely LI stained. LI staining and bleaching of the unit extends for 1 m above and below of the fault location. A small fault, trending at 60, occurs at 50.10. A zone of intense silicification occurs from 50.90 to 53.30. Blocky from 44.10 to 44.80. PY occurs as tiny disseminated crystals. Foliation is weak to moderate at 40.

D 4335 4635 98 X 110
 L 68R3 448 130
 D 4635 4935 98 X 111
 L 33R3 478 131
 D 4935 5200 100 X 020
 L 38R3 509 131
 D 5200 5395 100 X 121
 L 67R3 539 020
 P 5395 6740 ALXTFLP

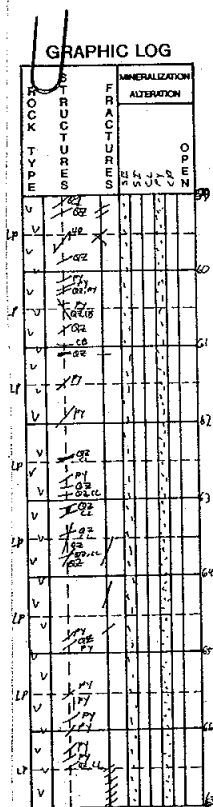
P+ Q* D=QC <<
 << << <<<

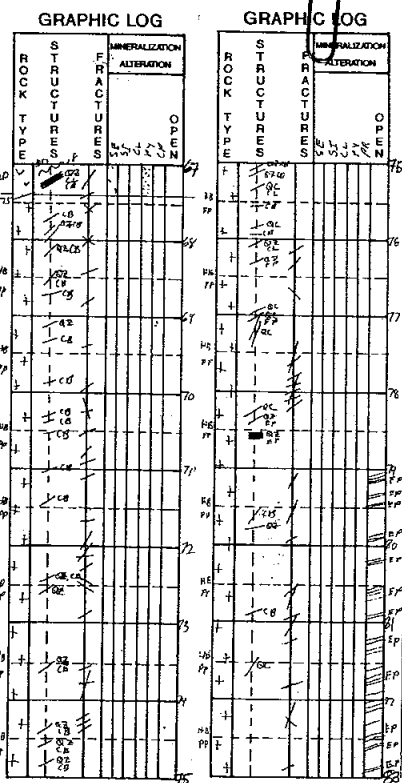
Fine grained tuff possessing lapilli clasts. The clasts are up to 6 cm in size and are elongated along foliation. The clasts are slightly darker than the matrix which is a light grey in colour. The clasts are softer than the matrix which has only undergone very minor sericitic alteration. Foliation is moderate at 40. PY occurs as very tiny disseminated crystals and micro-veinlets. Small beds of PHPP within the unit (10-30 cm in size)

D 5395 5695 100 X 020
 L 85R3 569 120
 D 5695 6000 100 X 131
 L 88R3 600 120
 D 6000 6300 100 X 122
 L 100R3 630 001
 D 6300 6500 100 X 120
 L 100R3 110

Small fault trending at 50, at 67.10.

A001	36.60	39.60	56388	.516	.510
A001	39.60	41.70	56389	.266	.270
A001	41.70	43.35	56390	.290	.170
A001	43.35	46.35	56391	.187	.770
A001	46.35	49.35	56392	.572	.090
A001	49.35	52.00	56393	.264	.080
A001	52.00	53.95	56394	.225	.070
A001	53.95	56.95	56395	.155	.460
A001	56.95	60.00	56396	.448	.380
A001	60.00	63.00	56397	.290	.190
A001	63.00	65.00	56398	.264	.080





D 6500 6740 100 X 020
 L 69R3 120
 P 6740 9510 HBXLAPP Q*Q= QC B. PO
 L <> <> << D.

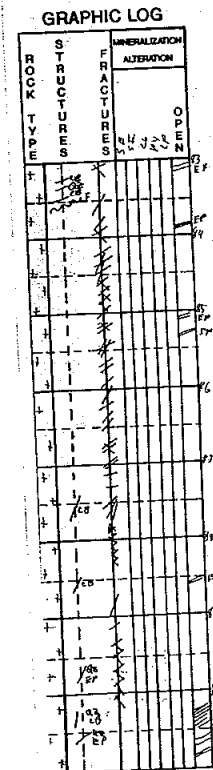
Porphyritic HB laths set in a fine grained matrix of f-spar (probably k-spar and plagioclase) and HB. The HB range from anhedral to elongate laths up to 8 mm long. The phenocrysts increase in size and frequency downhole from the top contact. Plagioclase phenocrysts appear from 78.60 to 82.25. These phenocrysts are anhedral in shape and some are partially altered to CL. The plagioclase is hard. This zone also has abundant epidote alteration envelopes around fractures. The unit is moderately magnetic to highly magnetic in the plagioclase rich zone may be a different intrusion but no definite contacts could be found.

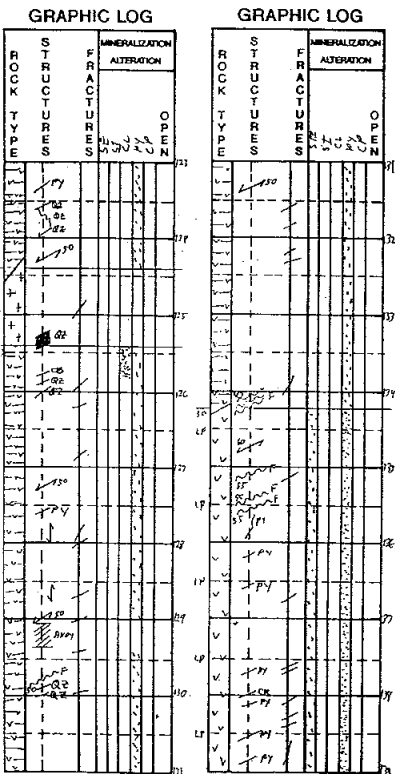
D 6740 7040 100 X 120
 L 97R3 692 120
 D 7040 7340 100 X 011
 L R3 722 021
 D 7340 7640 100 X 021
 L 68R3 753 121
 D 7640 7940 100 X 111
 L 73R3 783 120
 D 7940 8240 100 X 110
 L 67R3 120
 R Small fault of undetermined trend occurs at 83.55
 D 8240 8540 98 X 010
 L 40R3 844 130
 R 8525 8800 decrease in abundance in phenocrysts in this unit corresponds to an increase in the grain size of the matrix.
 D 8525 8800 98 X 100
 L 26R3 875 141
 R 8790 8830 Very bubbly in this zone.
 D 8840 9140 98 X 110
 L 62R3 905 120
 D 9140 9350 100 X 121
 L 93R3 935 120
 D 9350 9510 100 X 111
 L 91R3 021

A003 6740 9510 470
 P 9510 9615 100ALXPHPP 011 P1 P2 B=
 L 52R3 021 <+>

The unit is greenish in the top half and grades to a yellowish tinge for the remainder of the unit. The green is due to pervasive chlorite and the yellow to pervasive sericite. The

A001	65.00	67.40	56399	.380	0.3800	.580
A001	67.40	70.40	56400	.016		.680
A001	70.40	73.40	56401	.006		.210
A001	73.40	76.40	56402	.005		.050
A001	76.40	79.40	56403	.011		.060
A001	79.40	82.40	56404	.017		.020
A001	82.40	85.40	56405	.029		.030
A001	85.40	88.40	56406	.034		.030
A001	88.40	91.40	56407	.016		.030
A001	91.40	93.50	56408	.010		.040
A001	93.50	95.10	56409	.022		.020
A001	95.10	96.15	56410	.106		.120





L 90R2 1149 010
 R Kinking in the foliation around the two QTZ/CB veinlets at 116.50
 R small fault, trending at 50, occurs at 117.30.
 R 5 cm wide chert band at 117.40. The chert has a sharp top
 R contact and a gradational bottom one.

R 11750 11970 Very blocky.
 D 11610 11910 98 X 010
 L 20R2 1179 041
 D 11910 12100 98 X 000
 L 47R2 1210 121
 D 12100 12270 100 X 000
 L 73R2 110
 P 12270 13420 F59AGLM

B+

<< <<

R Felsic tuff clasts set in a matrix of argillite. Foliation has
 R elongated the clasts at 50. Top contact is gradational while the
 R bottom contact is a fault. From 125.40 to 125.80 chloritic
 R alteration due to the adjacent laap dyke is prevalent. ANDY dyke
 R from 129.10 to 129.30. Small fault trending at 50 occurs at
 R 129.75.

N 12440 12540 100DXXLAAP 000
 L 100R3 010
 R Medium green unit. 10 cm wide QZVN at the bottom contact.
 D 12270 12440 100 X 010
 L 100R2 1240 000

R 12760 12890 At 127.60 the foliation/clast trend quickly bends from 50 to
 R parallel to the core axis. This continues to approximately
 R 128.90 where the foliation resumes a 50 trend (the exact area
 R where the foliation bends back to 50 could not be determined due
 R to the rubly nature of the core at this point.)

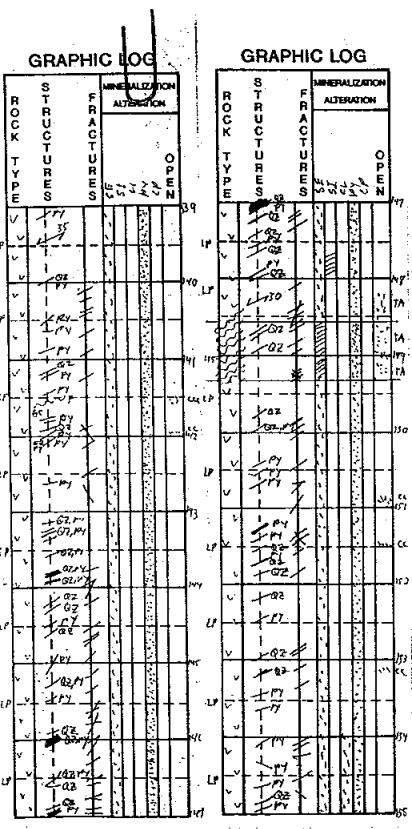
D 12540 12840 100 X 010
 L 97R2 1271 110
 D 12840 13140 100 X 010
 L 96R2 1301 011
 D 13140 13420 98 X 000
 L 96R2 1332 010

R 13410 13420 Fault, trending at 50. Forms the contact between slump breccia
 R and lapilli tuff.

P 13420 16150 AL9TFLP P= Q) D1TA V+ CUCC
 L J(<- <)* R.D-

R Tuff unit containing abundant lapilli clasts. Clasts range in
 R composition from felsic to mafic. The felsic clasts show strong
 R deformation along foliation while the mafic clasts are only
 R slightly deformed implying that the felsic clasts may not have
 R been solidified during deposition, the clasts are set in a fine

A001	113.10	116.10	56417	.033	.120
A001	116.10	119.10	56418	.039	.140
A001	119.10	121.00	56419	.018	.290
A001	121.00	122.70	56420	.039	.060
A001	122.70	124.40	56421	.189	.130
A001	124.40	125.40	56422	.015	.030
A001	125.40	128.40	47872	.021	.090
A001	128.40	131.40	56423	.053	0.0530 .120
A001	131.40	134.20	56424	.104	.170



R grained matrix of QTZ and feldspar which has undergone a minor
R sericitic alteration. Unit is moderately foliated at 60. Small
R faults, trending at 55, occur at 135.10, 135.40, 135.55. PY
R occurs as small disseminated crystals and microveinlets.

D 13420 13720 98 X 110
L 85R3 1362 010
D 13720 14020 100 X 020
L 92R3 1393 120
D 14020 14320 98 X 021
L 65R3 1423 120
D 14320 14620 98 X 122
L 22R3 1454 121

R Small fault, trending at 65, occurs at 141.55. Native copper
R seen in the fault gouge.
R Foliation is at 50.
R 14770 14800 Zone of silicification.
R Talc occurs along fracture at 148.20.

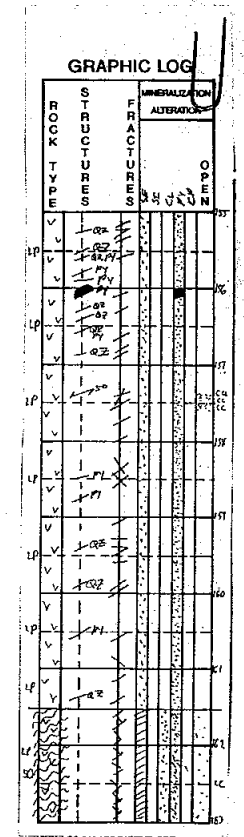
D 14620 14860 98 X 021
L 69R3 1484 121
N 14860 14930 98SXTFLP 010 P5 D2TA CC
L 69R2 040 O+ D*

R Moderately sheared region of the lapilli tuff. shearing trends
R at 45. QTZ veinlets are pre-shearing. Abundant PY and minor CC
R seen. Talc blotches are distributed throughout, the last 10 cm
R is rubble.
R 15400 15600 Minor chloritic alteration in this zone.

D 14930 15230 100 X 020
L 65R3 1515 021
R 15600 15610 Massive PY vein.
D 15230 15530 100 X 020
L 63R2 1545 021
D 15530 15830 98 X 020
L 63R2 1576 130

R Native copper and cc seen at 157.35
D 15830 16150 100 X 021
L 65R2 1606 121
P 16150 17120 S5XTFLP P4 P1 D2 CC
L P= < D+
R Moderately sheared region of the lapilli tuff. Lapilli clasts
R recognizable only occasionally. Unit is vuggy due to dissolution
R of minerals. Unit has a sugary texture. Shearing trends at 0.
R Abundant sericitic and minor chlorite and clay alteration.
R Blocky. PY abundant disseminated crystals. CC occurs as
R disseminated crystals.
D 16150 16450 98 X 010

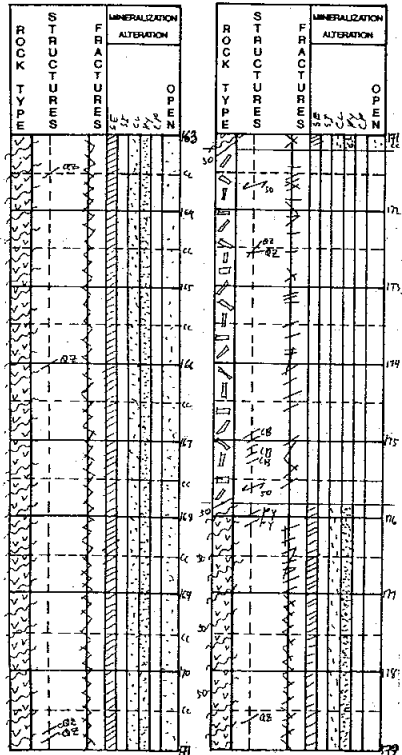
A001	134.20	137.20	56425	.165	.200
A001	137.20	140.20	56426	.258	.130
A001	140.20	143.20	56427	.664	.330
A001	143.20	146.20	56428	1.170	.800
A001	146.20	148.60	56429	1.200	.440
A001	148.60	149.30	56430	1.370	.600
A001	149.30	152.30	56431	1.070	.500
A001	152.30	155.30	56432	.884	.540
A001	155.30	158.30	56433	.788 0.7680	.430
A001	158.30	161.50	56434	.428	.300



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L 15R2 1637 444
 D 16450 16750 98 X 010
 L 5R2 1667 444
 D 16750 16970 98 X 000
 L 7R2 1697 444
 D 16970 17120 98 X 010
 L 0R2 444
 P 17120 17580 XANPP

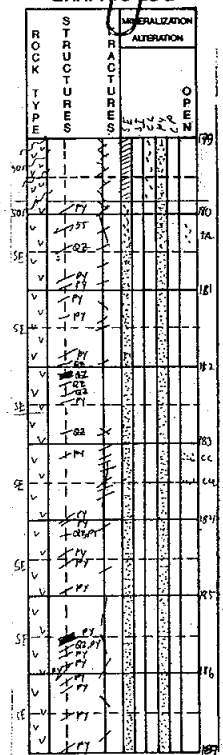
L Q(<*< <*<
 R Premier porphyry. Phenocrysts of plagioclase and k-spar set in a fine grained matrix of f-spar and HB. Plagioclase phenocrysts make up 25% of the unit while k-spar megacrysts make up 1-2%. Massive in the centre and increasing foliation outwards towards the boundaries of the unit. The top 5 cm and bottom 30 cm are very intensively foliated so that no phenocrysts exist. Foliation trends at 50. Talc along fractures at 171.65. Bleaching along some fractures. Moderately magnetic.

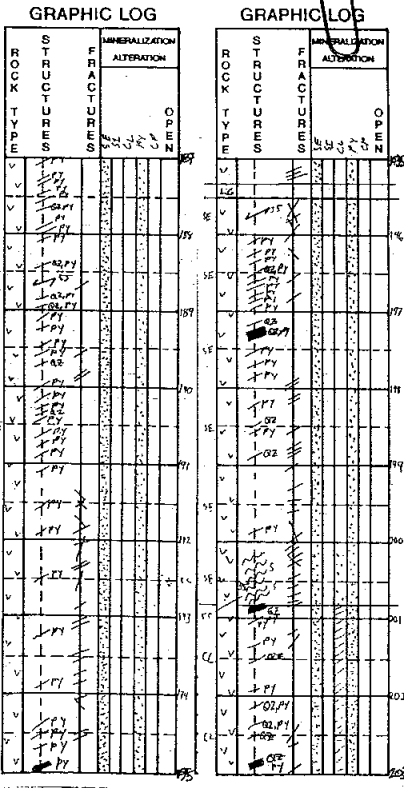
A003 17120 17580 290
 D 17120 17360 100 X 011
 L 63R3 1728 031
 D 17360 17580 100 X 010
 L 59R3 1758 121
 P 17580 17980 98SXTUFF 010 P3 P1 D2 <<
 L 24R2 1773 444 P= <<
 R Moderately sheared zone of the tuff unit. Shearing trends at 55. Unit has a texture. Abundant sericitic and minor chlorite and clay alteration. Very abundant pyrite. Blocky. Bottom contact is a gradational dying out of the shearing.

P 17980 20080 SEXTUFF P2 Q* D1 << CCCU
 L <<<< D-R-
 R Fine grined tuff unit which has undergone intensive alteration. Light-medium grey in colour. Moderate foliation at 55. Small interbeds of PHPP are scattered throughout the unit but contacts are difficult to determine due to deformation. PY occurs as small disseminated crystals and blebby laminations. Talc seen along fractures at the top of the unit. Dendritic masses of native copper seen along fractures at 183.50.

D 17980 18280 100 X 030
 L 62R3 1804 120
 D 18280 18580 100 X 021
 L 42R3 1850 120
 D 18580 18880 100 X 030
 L 97R3 1880 010
 D 18880 19180 100 X 030
 L 72R3 1911 020

A001 161.50 164.50 56435	.460	.250
A001 164.50 167.50 56436	.668	.150
A001 167.50 169.70 56437	.480	.120
A001 169.70 171.20 56438	1.210	.350
A001 171.20 173.60 56439	.166	.020
A001 173.60 175.80 56440	.201	.020
A001 175.80 178.00 56441	.436	.270
A001 178.00 179.80 56442	1.010	.420
A001 179.80 182.80 56443	.944	.340
A001 182.80 185.80 56444	1.270	.310
A001 185.80 188.80 56445	.624	.290
A001 188.80 191.80 56446	.384	.260





D	19180	19480	98 X	020	
L			60R3 1941	130	
N	19530	19550	XMCR		
L					
D	19480	19780	93 X	030	
L			60R3 1960	120	
D	19780	20080	98 X	010	
L			67R2 2002	131	
R	20020	20080	Zone of moderate shearing trending at 55.		
P	20080	22120	CL8TUFF		P1 P3 D2

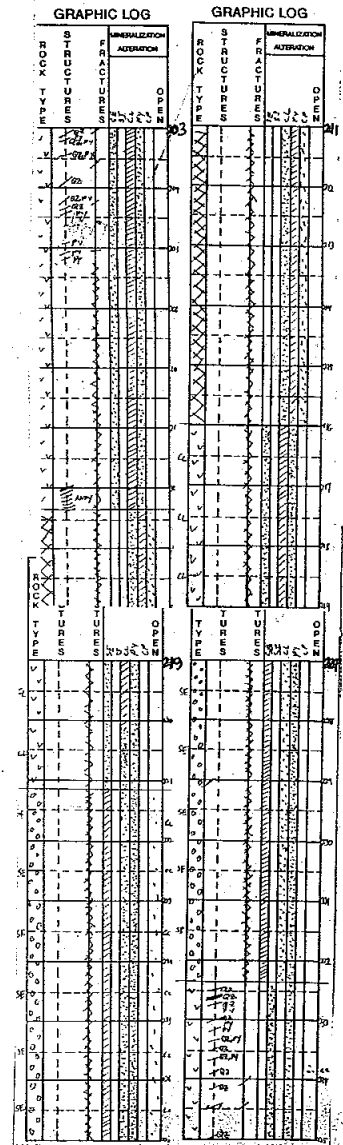
Tuff unit which has undergone intensive chloritic alteration. Unit is dark green and fine grained. intensive sericitic alteration is also prevalent. The chlorite gradually decreases in abundance at the bottom of the unit. The unit is very blocky foliation at 60. Very blocky late andesite dyke occurs from 209.00 to 209.30.

D	20080	20380	100 X	030	
L			60R3 2033	120	
D	20380	20630	98 X	030	
L			44R3 2063	122	
D	20630	20930	25 X	000	
L			OR2	666	
N	20930	21600	33KRXBQZ		P2 +=+3
L			OR3 2124	777	
R	Zone of abundant stockwork QTZ veins which have been crackled and sulphides have intruded into the brecciated zone. Very abundant PY and CP. Very blocky. Poor recovery.				
D	21600	21900	38 X	000	
L			OR2 2185	555	
D	21900	22120	98 X	000	
L			14R2	444	
P	22120	23235	SEXRBZN		P4 P1 D2 CC

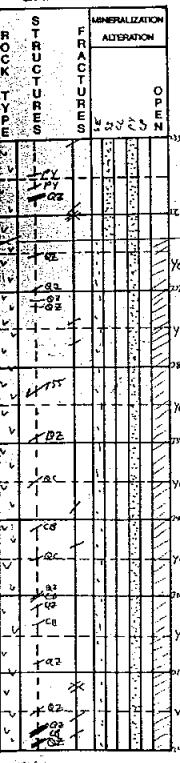
Unit is totally rubbled. Very intensive sericitic and minor chloritic in the pieces recovered. Very poor core recovery. Abundant PYas disseminated crystals. Minor chalcocite.

D	22120	22550	40 X	000	
L			OR2 2215	XXX	
D	22550	23235	22 X	000	
L			OR2 2282	XXX	
P	23235	23630	100F3XTUFF	030	P2 D1 <> CC
L			96R3 2337	010	<<<> D-
R	Light grey, fine grained unit consisting of QTZ and f-spar.				

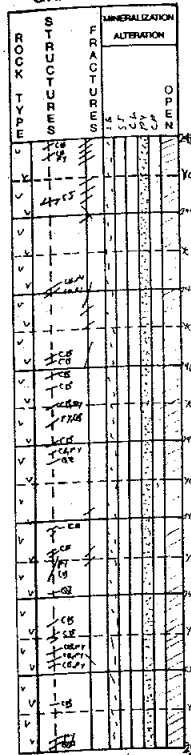
A001	191.80	194.80	56447	.488	.280
A001	194.80	197.80	56448	.736	.430
A001	197.80	200.80	56449	.124	.190
A001	200.80	203.80	56450	.544	.240
A001	203.80	206.30	56451	.468	.220
A001	206.30	209.30	56452	.444	.180
A001	209.30	213.40	56453	1.060	.310
A001	213.40	216.00	56454	1.470	1.4700
A001	216.00	219.00	56455	.508	.250
A001	219.00	221.20	56456	.324	.210
A001	221.20	225.50	56457	.656	.330
A001	225.50	232.35	56458	.444	.230
A001	232.35	234.30	56459	.824	.220
A001	234.30	236.30	56460	.808	.600



GRAPHIC LOG



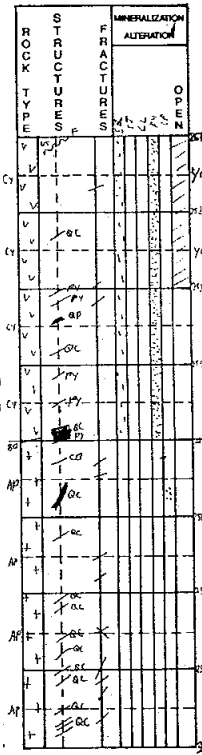
GRAPHIC LOG



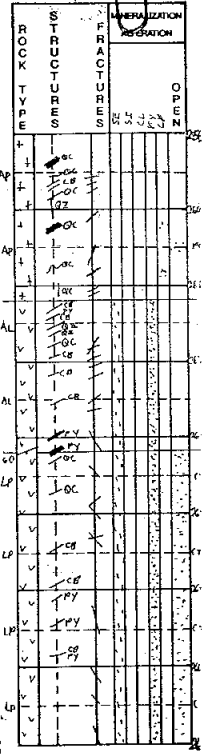
R Moderate, pervasive silicification has occurred throughout the
R unit. PY occurs as small disseminated crystals and blebby
R laminations. Weak foliation at 50.
P 23630 25500 CYXTUFF P+ D1QC <<
L << P2 V+ <><<
R Yellowish grey in colour. Tuff unit which has undergone
R pervasive alteration by a yellow clay. Occasional lapilli seen.
R Very minor sericite alteration. PY occurs as small disseminated
R and associated with QTZ/cb veinlets. Weakly foliated at 55.
D 23630 23930 100 X 011
L 100R3 2368 010
D 23930 24230 100 X 020
L 90R3 2398 010
D 24230 24530 100 X 020
L 53R3 2429 130
D 24530 24830 100 X 030
L 98R3 2459 110
R Dark masses between fragments at 249.50. May be argillitic.
R Small fault, trending at 45, occur at 251.10.
D 24830 25130 100 X 121
L 98R3 2490 010
D 25130 25330 100 X 010
L 100R3 2520 010
D 25330 25500 100 X 020
L 100R3 000
P 25500 26120 MXLAAAP QC B- PO
L <*<+ << B-
R Dark green unit composed of f-spar and HB. Abundant QTZ/
R carbonate veining. CP blebs seen in the large QC vein at 255.75.
R Very blocky. Many microfractures are filled with CB and CL.
D 25500 25800 100 X 120
L 90R3 2551 110
D 25800 26120 100 X 131
L 38R3 2581 120
P 26120 28250 AL8TUFF P+ D1QC B= SP
L <> P* << V><< L-
R Tuff unit which has undergone minor sericitic and clay
R alteration. Unit is light-medium grey in colour and is made up
R of fine grained QTZ and f-spar. PY occurs as small disseminated
R crystals and blebby laminations. QTZ veinlets are cracked and
R filled with calcite. Calcite veinlets usually have abundant PY
R blebs in them. Occasional small beds of more felsic tuffs.
R Moderately foliated at 60.
D 26120 26320 100 X 020
L 60R2 2612 120

A001	236.30	239.30	56461	.416
A001	239.30	242.30	56462	.348
A001	242.30	245.30	56463	.239
A001	245.30	248.30	56464	.230
A001	248.30	251.30	56465	.159
A001	251.30	253.30	56466	.241
A001	253.30	255.00	56467	.224
A001	255.00	258.00	56468	.020
A001	258.00	261.20	56469	.015
A001	261.20	263.20	56470	.356

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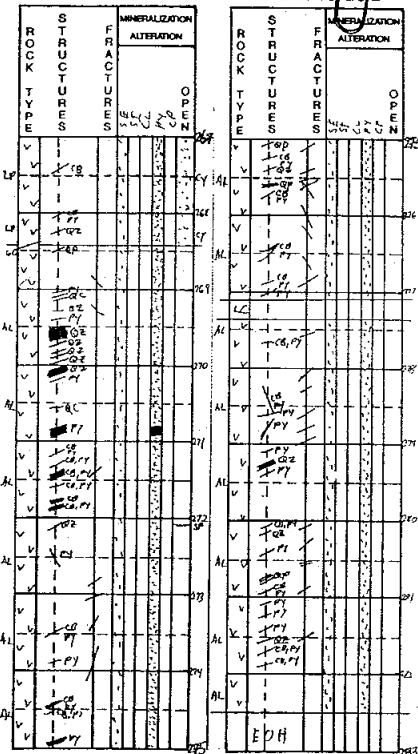


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N 26320 26840 100ALXTFLP 010 P= P10C <<
 L 96R2 2642 110 << P= <> <<
 R Very similar to the surrounding P unit except for the inclusion
 R of abundant lapilli clasts. The clasts are all of same
 R composition and are very felsic (similar to the felsic beds
 R noted in the tuff unit). More yellow alteration than in the tuff
 R unit. PY occurs a small crystal in the clasts and small blebs in
 R the matrix. Bottom contact is gradational.

D 26840 27140 100 X 031
 L 100R2 2704 010
 D 27140 27440 100 X 021
 L 96R2 2734 110
 R 27080 27090 Massive PY vein.
 D 27440 27740 92 X 021
 L 75R2 2764 120
 D 27740 28040 100 X 121
 L 85R2 2795 020
 N 27710 27735 XMCOR
 L
 D 28040 28250 100 X 020
 L 98R2 2825 010

A001	263.20	266.20	56471	.094	.160
A001	266.20	268.40	56472	.150	.150
A001	268.40	271.40	56473	.186	.200
A001	271.40	274.40	56474	.123	.150
A001	274.40	277.40	56475	.182	.400
A001	277.40	280.40	56476	.284	.250
A001	280.40	282.50	56477	.178	0.1770 .250

The A005 assay sets are selected
 composites based on copper grades
 and geology

	From	To	Length	Cu %	Au g/t
A005	4.20	39.60	35.40	.651	.211
A005	39.60	67.40	27.80	.309	.303
A005	67.40	95.10	27.70	.017	.124
A005	95.10	104.10	9.00	.131	.168
A005	104.10	134.20	30.10	.047	.114
A005	134.20	140.20	6.00	.211	.165
A005	140.20	171.20	31.00	.813	.394
A005	171.20	175.80	4.60	.183	.020
A005	175.80	209.30	33.50	.616	.282
A005	209.30	216.00	6.70	1.219	.423
A005	216.00	239.30	23.30	.539	.298
A005	239.30	255.00	15.70	.241	.252
A005	255.00	261.20	6.20	.017	.030
A005	261.20	282.50	21.30	.189	.219

/END

IDEN680201 KERR KS-090BQWLO4SEP90KME JTTSEP90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 4500MT 198.10084.00-63.00 10287.00 9606.00 1436.00
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L SCL PC.0 LCTM
 S001 4500 14400 198.10082.00-56.00
 S002 14400 19810 198.10089.00-53.00

A003

ALUMM MAG

P 000 420 CSNG

L 42

P 420 4260 OX PHPP

P3 Q1 D)LINE (<) CCCV

E* Q= Q3<)V) C*C.

R Heavily oxidized, bleached, fractured in all directions, CY
 R rich, leached. Possibly all PHPP, transparent PF phenocrysts in
 R most fragments. Possibly more hornblende rich phenocrysts at top
 R equigranular, foliation at 45 degrees, up to 55 degrees at
 R bottom of interval. Sulphides appear at 18.0 M, sporadically in
 R less altered zones to end of PGI: disseminated, microveins,
 R associated with QTZ have associated CC and CV coatings in both
 R sericitic and chloritic zones. PY microveins are along foliation
 R have good 1 mm QS envelopes. Rock sericitized with patchy
 R intervals with weak chlorite. QTZ veins vuggy, leached of
 R sulphides, possibly CB; PY microveins mainly HE, QS envelopes
 R still present. LI coats and envelopes fracture surfaces and with
 R vuggy QTZ veins.

D 420 700 64 X 242

L 8R2 61 777

D 700 1000 82 X 352

L 17R2 91 573

D 1000 1300 63 X 352

L 3R2 121 573

D 1300 1600 63 X 553

L 13R2 152 573

D 1600 1900 67 X 553

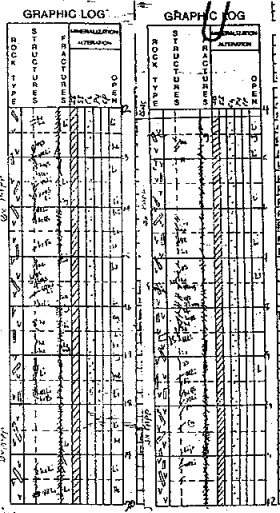
L 13R2 182 573

R Sometime oxidation/LI stains reversed: instead of bleaching and
 R and oxidation proximal to veins and fractures, it is in ground
 R mass and host proximal to veins and fractures are greenish and
 R less oxidized (QS envelopes are not oxidized).

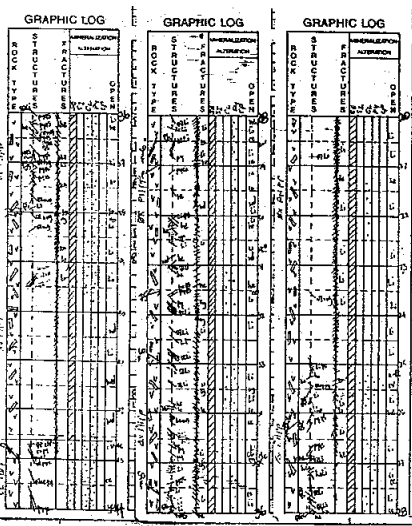
D 1900 2200 37 X

L OR2 213 XXX

D 2200 2500 40 X

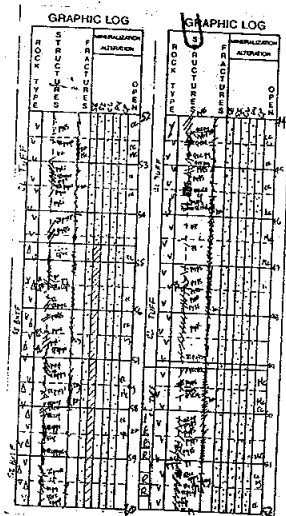


From	To	Sample	Cu %	Cu % Au g/t	Au g/t	Ag ppm	Pb ppm	Zn ppm
			(dupl)	(dupl)				
A001	4.20	7.00 57453	.012	0.0120	.130			
A001	7.00	10.00 57454	.011		14.000 .14			
A001	10.00	13.00 57455	.017		.090			
A001	13.00	16.00 57456	.023		.210			
A001	16.00	19.00 57457	.039		.160			
A001	19.00	25.00 57458	.030		.310			



L OR2 213 XXX
 R Very bleached, leached interval, heavily fractured.
 D 2500 2800 72 X
 L OR2 274 XXX
 R Interval slightly more chloritic, very well foliated, less fractured and LI.
 R 2740 2750 Disseminated PY, CC, CV associated with subhedral PY. Sericitic.
 D 2800 3100 77 X
 L OR2 XXX
 R Abundant PY (<2%), QS envelopes, fine disseminated CC associated with PY.
 R 2800 2950 Very flaky along foliation at 30 degrees. Sericite with LI/QTZ vein rich areas. Some LI stained fractures crosscut foliation.
 R 3070 3100 Grey green - sericite, abundant disseminated PY with CC, CV. Possibly some MC, Cu? Flaky, foliated.
 D 3100 3400 83 X
 L 3R2 335 5X2
 R 3140 3160 Vague fracture pattern perpendicular to core axis.
 D 3400 3650 77 X 351
 L OR2 365 5X2
 R 3430 3440 Disseminated PY with CC, CV; Some associated MC in "D" interval.
 R 3600 3650 More chloritic, pyritic, less LI. Still heavily fractured.
 R 3650 3960 Interval more competent, chloritic, less LI, structures more visible, good PHPP with PY microveins, QS envelopes. Some bleaching around fractures. Some KA disseminated.
 D 3960 4260 23 X MD
 L OR2 426 XXX C3
 R Highly brecciated, wadd stains, bleached, no structures visible.
 R No structures visible. Rounded pieces CY, SE rich, no CHL, minor disseminated, vein PY.
 P 4260 4910 CL TUFF P2 P2 D+LIKAB.<+ CCMC
 L E+ C-C- <+ C*C.
 R Dark green, well foliated, PY microveins with well developed QS envelopes. Veins in all directions, flaky, fractures crosscut 30 degrees foliation at 60 degrees, also fractures parallel to core axis. Parent rock may be PHPP. CC/CV associated with PY and with minor clear milky QTZ BRXX veins. Some later patchy QTZ-CHL veins with vugs filled with KA, possible alteration of CB. Crosscuts other vein types. Some associated CP and Xsulphide (grey) in irregular veinlets with QTZ-CHL veins. CP also associated in ground mass and with PY. Not competent at all, veins are rounded fragments, minor SE-YC alteration at top 30 cm of interval, very little oxidation/wadd.
 D 4260 4600 59 X 432
 L 12R2 457 533

A001	25.00	28.00	57459	.140	.300
A001	28.00	31.00	57460	.174	.260
A001	31.00	34.00	57461	.088	.140
A001	34.00	36.50	57462	.154	.220
A001	36.50	39.60	57463	.320	.150
A001	39.60	42.60	57464	.077	.290
A001	42.60	46.00	57465	.344	.150



R Foliation angle increases with depth, difficult to see.

R 4260 440040 cm core; CC, CV rich.

D 4600 4910 55 x 462

L 0R2 487 5X2

R 4600 4700 Poor recovery, fractured, MC stains, CY. Abundant QTZ. Rounded

R fragments.

E 4910 5470 CLXTUFF P2Q)P1 D+KA <+<= CCMC

L E) C) <= C)C-

R Similar to last unit, slightly less CHL, more competent, loss of

R foliation, difficult to see. PY disseminated and microveins

R increased, QTZ BRXX veins with CC, PY, CP, more abundant.

R Abundant QS envelopes on PY veins. Possible silicified areas. CP

R blebs increase and in fracture QTZ veins. MC coatings. Some KA

R on fractures and spots in less veined chloritic sections,

R fractures large-medium angle to core axis. No preferred

R orientation, grainy granular texture to rock.

D 4910 5200 83 X 452

L 21R2 518 3X2

R 4910 5010 Resembles previous unit, fractured, less CHL, abundant MC, CC.

D 5200 5470 90 X 432

L 44R2 332

P 5470 6330 SIXBXTF P1P3Q- D=KALI<)+< CCMC

L E- G- C)C- <3 D)C-

R Sericitic, generally light grey with abundant QTZ veins and

R silicified patches. Patchy, disrupted texture. Foliation

R disrupted, patchy, possibly at 55 degrees. Relatively competent

R some flakiness with fractures 10 degrees to core axis in places,

R otherwise periodic fracturing only. Abundant KA, CC crystals on

R fractures. Hard granular texture to host rock, up to 70%

R brecciated QTZ veins with PY, CP, CC. Disseminated and microvein

R PY, possibly associated with CP, CC coatings. Minor QS envelope

R CP blebs more common in rare chloritic zones. QTZ veins from SI

R flooded ones, up to 2-3% CC. Parent may be PHPP. No noticeable

R fragments. In brecciated veins, common to have central sulphide

R concentration (PY, CP, both) with surrounding CC BRXX, infill

R microveins.

D 5470 5790 91 X 231

L 28R3 548 321

R Mark at 57.9

R 5530 5590 Minor CHL alteration.

R 5600 5660 Fractured, up to 5% subhedral CC, 1% CP, PY microveins with

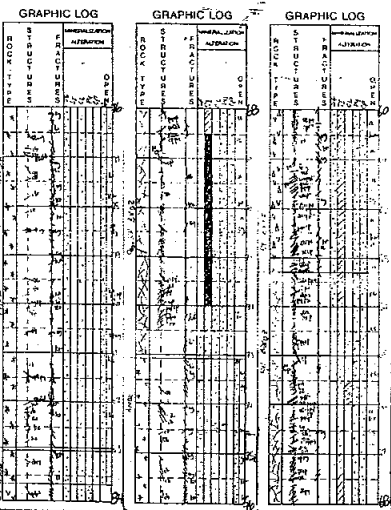
R QS envelopes.

R 5700 5790 Fractures parallel to core axis, abundant CC disseminated, on

R fractures with KA. MC stains. Abundant, irregular QTZ veins.

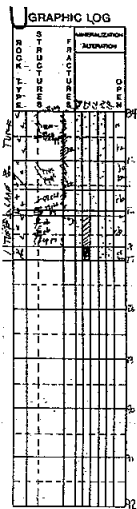
R 5800 5900 Yellowish sericite/clay in host rock, well silicified.

A001	46.00	49.10	57466	.660	.240
A001	49.10	52.00	57467	.872	.270
A001	52.00	54.70	57468	1.040	.320
A001	54.70	57.90	57469	1.360	.750



R 5900 5950slight CHL alteration and CHL in veins. Disseminated KA?
 D 5790 6100 97 x 332
 L 80R3 609 122
 R 6015 6020White QTZ vein with large CP blebs, CY instead of CB?
 R 6000 6100QTZ vein-silicification, irregular highly disrupted brecciated
 R fragments of host rock only.
 D 6100 6330 80 X 231
 L 50R3 221
 R 6160 6161PY microveins with central CP, very fine grained.
 P 6330 7310 KRXBQZ P=P3Q+ KA B)<= CC
 L C* VS <+
 R Arbitrary boundary based on increase in BRXX QTZ veins. QTZ
 R veins, PY, CP increase with depth. 100% QTZ from 68 m to 72.50
 R Host rock mainly sericitic, silicified, minor CHL pervasive
 R patches. Host heavily brecciated, disrupted. No visible
 R foliation. PY, CP everywhere as patches. Disseminated in host
 R and microveins, patches, blebs in QTZ. Some PY-CP veins crosscut
 R host and QTZ veins. CC coatings everywhere and as microveins.
 R Some sericite has bluish tint.
 D 6330 6600 96 X
 L 85R3 640 121
 R 6550 6600Host rock heavily chloritized.
 D 6600 6900 98 X
 L 70R3 670 210
 D 6900 7310 92 X
 L 69R3 701 220
 R 6980 6981Very soft blue talc in fractures after QTZ brecciation.
 R 7080 7081Sharp contact at 55 degrees of QTZ vein with host or other QTZ
 R vein with abundant CHL rich clasts with PY-CP. CHL QTZ vein has
 R much more CP? (up to 5%), some milky QTZ with CHL.
 R 7200 7250Chloritic alteration.
 P 7310 8370 ANDK P1 D= OCLI
 L P2 G- <.C-
 R Medium green, minor sericitic alteration, sharp contacts
 R abundant. Small PF and hornblende phenocrysts up to 50% of rock
 R generally <1 mm sub-euhedral. PF exhibits ophitic star like
 R crystals in places, uniform, medium grained, no foliation,
 R fractured in all directions with KA coatings. Possible H green
 R EP alteration of smaller PF phenocrysts, along with sericite
 R alteration, matrix mainly PF, hornblende but also may have red
 R garnet? Heavily altered (see 81.7 m) possibly some red HE in
 R matrix, no other mineralization, veining. Spotty, mottled
 R texture, may be related to LAAP? Has intense pervasive CB
 R alteration of everything? or just groundmass very little veining
 R Has fine white spots throughout. Little Cb at contacts. Upper

A001	57.90	61.00	57470	1.280	.850
A001	61.00	63.30	57471	1.200	.710
A001	63.30	66.00	57472	1.550	.830
A001	66.00	69.00	57473	1.940	1.150
A001	69.00	73.10	57474	2.720	1.620



R contact may be at 73.10. Greenish coating on most fractures may
R be EP. Fractures have slight bleached envelope up to 0.5 cm,
R no CB.

D 7310 7600 88 X 320
L 14R3 731 332
D 7600 7920 92 X 110
L 06R3 762 542
D 7920 8290 89 X 120
L 23R3 823 531

R 8100 8290 Possibly HE in matrix.
R 8150 8210 Coarser phenocrysts, sericitic, abundant fractures parallel to
R core axis.
R 8230 8270 HE in matrix, some as envelopes around fractures. HE up to 20%
R little CB.

D 8290 8370 72 X 000
L OR2 331
R Lighter green, much finer grained with fewer hornblende
R phenocrysts. Matrix not so dark. May be chilled margin to dyke?
R 5-10% pervasive CB.

P 8370 8675 SE8TUFF P2Q=Q= D=KA <*<
L C) <*<?

R Variable interval, Ditto units based on geology alteration.
R Sericitic, brecciated with irregular brecciated QTZ veins
R throughout. Well foliated at 40 degrees, not always identified
R Some silicification. Distinguished from upper unit due to PY
R content up to 5%, some microveins. Sporadic CHL or bluish
R sericite alteration. Generally very jumbled, fractured along
R foliation. Silicified at contact with lower unit. Original
R rock type?

D 8370 8560 70 X 210
L OR2 853 463
N 8560 8610 84 XLAAP 023 P= QC <)<
L OR3 231 <

R Very fine grained, sharp contacts, no structures. Bottom contact
R dominated by QTZ-CB +/- CHL veins with some light banding. Minor
R subhedral PY microveins.

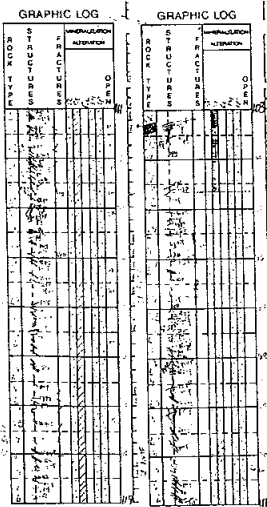
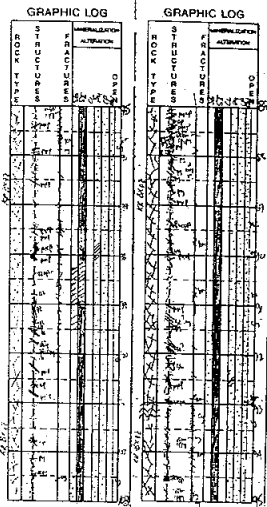
A003 8560 8610 30
D 8610 8675 98SIX 002 P3 QC B) <<<
L 69R3 100 <)<

R Silicified, possibly KF alteration, minor QC veins, very
R competent.

P 8675 10470 KR BXQZ P)P4 KA <<<1<)MCCC
L C) V7 C) <)<

R Up to 100% clear to milk QTZ vein, brecciated and filled with
R small microveins of BN, CC and larger patches, and blebs of PY

A001	73.10	76.00	57475	.083	.030
A001	76.00	79.20	57476	.025	.020
A001	79.20	82.90	57477	.105	0.1070
A001	82.90	83.70	57478	.496	.200
A001	83.70	85.60	57479	.496	.210
A001	85.60	86.10	57480	.053	.040
A001	86.10	86.75	57481	.656	.190



R with intermixed patches and blebs CP. BN up to 1-2% veins and
 R blebs in QTZ until ~100 m then diminishes to mostly CP, PY
 R totalling 15-20%? Host rock is sericitic, light grey, silicified
 R wavy indistinct foliation. Rock competent, fractures unevenly.

D 8675 9000 97 X

L 79R3 883 110

R 8830 8970 Some host rock fragments, abundant PY, sericitized.

D 9000 9300 93 X

L 65R3 914 120

R 9150 9300 Have bands of host rock? Soft layers, possibly sericitic or CY
 R with disseminated PY. Greenish brown colour.

D 9300 9600 88 X

L 63R3 944 442

R 9300 9440 Faulted and fractured, CY at top.

D 9600 9900 83 X

L 20R3 975 222

R 9830 9900 Well foliated host, sericitic, fractured parallel to core axis.

D 9900 10200 98 X

L 87R3 1005 010

D 10200 10470 96 X

L 91R3 1036 001

R 10325 10345 Large late QTZ-CB vein with large blebs of CP. Contacts sharp
 R sericitized.

P 10470 12925 SIXBXTF

P1P3 D=QC B)<=B.

< V3

R Arbitrary break on % QTZ vein, mainly sericitic, heavily
 R silicified tuff, brecciated, little noticeable foliation.

R Abundant brecciated QTZ veins with PY, CP, minor BN, CC?

R Hard, competent. Veins up to 50% of core, boundaries sometimes

R indistinct between vein and host. Host contains PY veins,

R disseminated, some QS envelopes CP associated with PY and as

R individual blebs, microveins, patches. Some CB in brecciated

R veins. Some veins pygmatic, very irregular. Commonly have

R central sulphide vein.

D 10470 10800 92 X

L 71R3 1067 201

D 10800 11100 100 X

L 98R3 1097 000

D 11100 11400 100 X

L 83R3 1127 120

R Possibly patchy KF alteration.

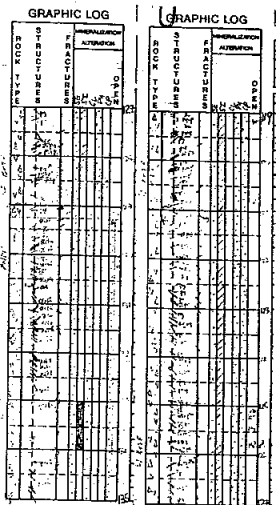
D 11400 11700 94 X

L 94R3 1158 010

R 11450 11500 70% QTZ with abundant PY, CP, some blebs. Minor CB. High

R concentrations of CP, PY in microveins with inclusions of clear

A001	86.75	90.00	57482	1.870	.410
A001	90.00	93.00	57483	1.690	.570
A001	93.00	96.00	57484	1.250	.960
A001	96.00	99.00	57485	1.280	.520
A001	99.00	102.00	57486	1.390	.760
A001	102.00	104.70	57487	1.270	.700
A001	104.70	108.00	57488	1.270	.890
A001	108.00	111.00	57489	1.080	.480
A001	111.00	114.00	57490	.772	.440
A001	114.00	117.00	57491	1.570	1.5100 1.010



R to black QTZ. Some fluid inclusions.

R 11658 11659 Anhedral PY vein with inclusions of CP. PY very brown-bronzy but not magnetic.

R D 11700 12000 100 X
L 94R3 1188 100

R D 12000 12300 93 X
L 77R3 1219 120

R 12205 12210 QTZ-yellow CB vein at 60 degrees? Crosscuts and truncates earlier QC brecciated vein.

R D 12300 12600 98 X X
L 96R3 1249 010

R D 12600 12925 95 X 142
L 69R3 1280 241 E+

R QTZ brecciated veins decreasing with depth.

R 12690 12925 Resemble SE TUFF with high concentration of PY disseminated and microveins. Sharp decrease in QTZ-CB brecciated veins and CP. Host less brecciated, well foliated at ~60 degrees? Still heavily silicified, competent, well developed QS envelopes.

R 12900 12925 Contact with lower unit brecciated, CY rich, slight chloritic alteration.

P 12925 13700 XANPP P= P=D- QCCY CL
P* K1B+ <+

R Premier porphyry, weakly foliated, phenocrysts slightly elongate euhedral. KF up to 2-3%, PF up to 10-15%. Both zoned, altered with CB microveins, loss of phenocrysts at both contacts, chilled margins. Slight pervasive CHL alteration, abundant QTZ-CB-CHL stockwork, sharp contacts, some bleaching. Elongate, CY rich fragments? Throughout, form hairline fracture pattern at ~70 degrees at end of PGI, competent, fractures generally low angle to core axis.

R D 12925 13200 95 X 142
L 81R3 1310 110

R 13270 13275 QC-CHL microvein truncated KF crystals. Some movement: other side of crystal not visible.

R 13300 13400 Several stages of QC-CHL veining, very little ANPP.

R D 13500 13700 100 X 321
L 86R3 010

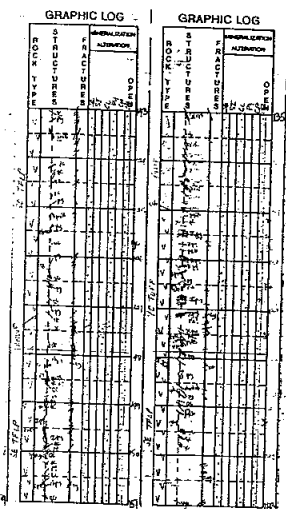
R 13534 13535 Large 3 cm subhedral zoned KF, some CB microveins.

R 13570 13575 Possibly pumice? fragments. Elongate, squashed with black soft things in unit.

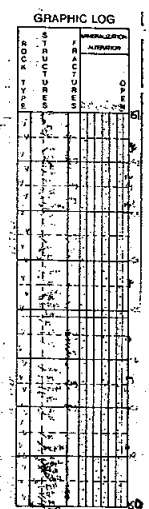
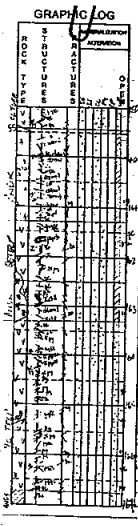
P 13700 13990 94YCX TUFF P1 D=QCKA <= FU
L 69R3 1371 E1 P3 K1C) B-

R Very competent rock, yellow grey, sericitic, with yellow CY. Well developed QS envelopes around PY microveins not around QTZ-CB microveins. Patchy foliation, difficult to see at 60 degrees.

A001	117.00	120.00	57492	1.120	.690
A001	120.00	123.00	57493	1.030	.570
A001	123.00	126.00	57494	.780	.280
A001	126.00	129.25	57495	.612	.380
A001	129.25	132.00	57496	.011	.020
A001	132.00	135.00	57497	.004	.020
A001	135.00	137.00	57498	.008	.020
A001	137.00	139.90	57499	.340	.230

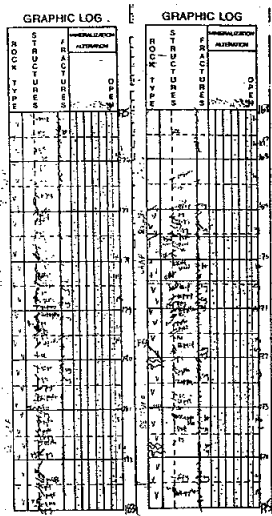


- R PY subhedral veins associated with QC veins or individual. High
R density of veining (all irregular). Some patchy emerald green
R alteration. Generally not very fractured, except one area,
R abundant KA coatings. Sharp contacts with upper ANPP and lower
R SE TUFF. Possibly some MO in QC BRXX veins? CP?
R 13780 13790 Possible KF alteration pervasive?
R 13905 13910 Some tarnished black mineral in sericite with PY adjacent to
R QC vein.
P 13990 14725 SEXTFLP P1P? QC B.<= MOHS
L R3 E= Q- K= B.B.
R Very hard, possibly silicified? light grey, very patchy, little
R foliation. Abundant QC veins and patches, associated and cross-
R cutting subhedral PY with CB, QTZ. Irregular PY veins, some
R disseminated. Abundant rounded to elongate fragments, all
R altered to SE, some YC. Up to 70X of rock. Minor CP associated
R with PY, some specular HE and MO with QTZ veins. Minor black
R chert "veins"? may be volcanoclastic, not tuff. QC veins
R diminish with depth. PY seems to be around fragments while
R disseminated in others. Selective minor CY gouges with very fine
R black disseminated PY.
R 14010 14020 Small light green aphanitic dyke at 35 degrees upper, 55 degrees
R bottom. Approximately 6 cm wide, sharp.
D 13990 14300 100 X 020
L 79R3 1402 012
R 14130 14200 Patches of matrix with YC alteration.
D 14300 14725 100 X 122
L 79R3 1463 122
P 14725 14790 91 XANDY P+ MG
L 28R3 <) D=
R Dark grey green, fine grained, 5-10% disseminated MG, round QTZ
R amygdules. CB in fractures. Boundaries sharp, possibly some CHL
R altered tuff at top of interval with PY interstitial between
R brecciated fragments. Loss of magnetite along fractures.
A003 14725 14790 2500
P 14790 15520 95YCXTFLP P1 D=QCKA Q)
L 60R3 1493 P1 K=C)
R Yellow CY rich, increasing to bottom of interval. Very patchy
R texture, different clast size, composition, especially after
R 151 m. May be change in rocktype. Extensive QC stockwork up to
R 20% of rock. Veins discontinuous, irregular, may be
R interstitial to fragments. FU as minor blebs, PY up to 10X
R disseminated in matrix. Some patches, few microveins, fragments
R black, felsic, QTZ up to 70% of rock. With interstitial QC, PY,
R YC. No noticeable foliation, fractures minor, random.
D 14790 15105 95 X 232



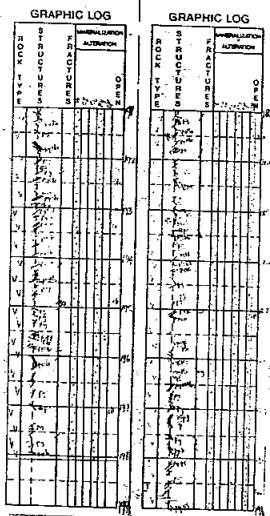
L 60R3 1493 232
R 14930 14960ANDY
D 15105 15520 X
L R3 1522 132 P2
R White CB associated as brecciated infill with QTZ, yellow CB
R more patchy, overprints? QC veins? More fragmental, YC rich.
R 15290 15291Possibly MO blebs associated with QC vein?
R 15400 15520Very fragmented CL rich, up to 70%, various subangular-round
R clasts. CB-PY interstitial.
P 15520 15800 94SEXTFLP P1 D=QC Q) HS
L 54R3 1554 G) K) D*
R Light grey, uniform to patchy, no foliation. Disseminated to
R patch PY with associated HS, QC. QC veins irregular, not as
R abundant as previously. Fragments on 5% of rock, intermittent.
R Relatively competent but CY rich where fractured. Similar to
R previous SETFLP. Not silicified.
P 15800 15945 CLXTUFF 132 P1 P2 D=QC <<
L 1584 232 E) <<
R Equigranular, medium green, PY microveins with QS envelopes,
R irregular QC veins, little foliation. Sharp contacts, upper
R one brecciated. PY veins subhedral crystals in QC matrix. Two
R colours CB: white associated with QTZ breccia, cream that cross-
R cuts all veins, some associated CHL.
P 15945 16330 BANDK P= P= QC
L P3 C) <<
R Medium green, no foliation, sharp contacts, abundant acicular
R lathes of PF, HB up to 2 mm. Matrix very fine grained, extensive
R pervasive CB alteration. Few sulphides except in fragments of
R TUFF (SE and CL) incorporated into ANDK. Possibly some primary
R QTZ and clumps of BI (now CHL) <5% in places have mottled
R texture with vague blobs of phenocrysts rich rock in a darker
R fine grained matrix. Matrix predominantly CHL with QTZ and PF
R QTZ CB on fracture surfaces. Some creamy angular late CB veins.
R Relatively competent.
D 15945 16130 86 X 122
L 42R3 321
R 16020 16030CHL tuff fragment.
N 16130 16250 75SEBFLP 231 P1 P= D=QCKA <=
L 53R3 1615 120 E-<* K1C-
R Fragments in dyke, irregular contact in places, patchy, yellow
R CY, CHL alteration. Abundant irregular QC stockwork with
R associated PY, some CHL. Separate PY microveins have CB
R interstitial to subhedral crystals. Little foliation.
R 16200 16210ANDK
D 16250 16330 94 X 022

A001	139.90	143.00	57500	.240	.130
A001	143.00	147.25	55944	.096	.070
A001	147.25	147.90	55945	.045	.090
A001	147.90	151.05	55946	.412	.370
A001	151.05	155.20	55947	.396	.260
A001	155.20	158.00	55948	.306	.130
A001	158.00	159.45	55949	.360	.250
A001	159.45	161.30	55950	.037	.040
A001	161.30	162.50	55951	.292	.300



L 69R3 222
P 16330 16675 100YCXTFPLP 242 P= Q+ D)QCCL <=
L 75R3 1645 121 E8 P2 K)<-
R Yellow-grey, spotty green chlorite, patchy, areas with high
R fragment content. Well developed QS envelopes on PY microveins.
R Microveins subhedral with interstitial QC, 1-2% disseminated PY,
R some associated CHL. Patchy foliation at 50 degrees, outlined by
R PY veins. QC irregular, decrease with depth. Random fractures,
R not easily scratched, possible silicification?
P 16675 16900 93AMXANDY 121 D*QC MGHE
L 64R3 1676 212 A* A+ D=E-
R Dark brown green, QC amygdules, some with red KF envelopes/
R selvages. Some elongate clear crystals (QTZ?) and black euhedral
R BI with QTZ-KF inclusions. Both minor. Minor QC veins with MG
R depleted envelope. Amygdules up to 10-15% of rock. Not foliated.
R Yellow glassy soft granular phenocrysts also. Minor disseminated
R PY.
R 16890 16900 Greener, possibly LAAP. Small QTZ-CP veins between two.
P 16900 19810 SE TUFF P= D+QCYB.<= MO
L <) G- <)<- B.
R Light grey, uniform, sometimes granular, few fragments, vague
R foliation at 45. Mainly sericitic with zones of YC alteration.
R Competent, random fractures, not easily scratched, disseminated
R PY and subhedral irregular PY microveins with interstitial QC.
R QC veins present, diminished with depth. Lose QTZ veins with
R depth, just CB. Precursor may be PHPP.
D 16900 16955 100 X
L 78R3
N 16955 17045 89 XLAAP 212 P= P= QCCL B. KA
L 29R3 122 <=<) C*
R Fine grained, uniform, medium-dark green, QC CHL veins, angular
R KA? on fracture surfaces. Minor PY blob. Sharp contacts.
A003 16955 17045 30
D 17045 17260 93 X 131
L 33R3 1706 222
D 17260 17500 79 X 021
L OR2 1737 XXX G1
R 17290 17320 LAAP
D 17500 17800 99 X 222
L 43R3 1767 132
R 17520 17580 Leached, vuggy, fractured.
R 17560 17561 First appearance of pink GY, fracture fill.
D 17800 18100 90 X 131
L 38R3 1798 221
R 18045 18070 Yellow clay alteration, sharp contacts.

A001	162.50	163.30	55952	.020	.040
A001	163.30	166.75	55953	.313	.270
A001	166.75	169.00	55954	.018	.030
A001	169.00	169.55	55955	.708	.280
A001	169.55	170.45	55956	.015	.040
A001	170.45	172.60	55957	.388 0.3880	.140
A001	172.60	175.00	55958	.288	.150
A001	175.00	178.00	55959	.344	.140
A001	178.00	181.00	55960	.224	.160



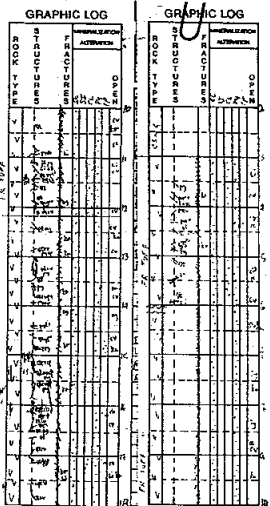
R 18097 18098FU blob
 D 18100 18400 100 X 232
 L 86R3 1828 020
 D 18400 18700 95 X 332
 L 92R3 1859 010
 D 18700 19000 100 X 221
 L 91R3 1889 110
 R 18920 18950High concentration of PY, cb. Patch with central cp.
 D 19000 19300 97 X
 L 90R3 1920
 R 19000 19150Yellow CY alteration, some FU.
 D 19300 19600 100 X 231
 L 93R3 1950 010
 D 19600 19810 100 X 221
 L 100R3 1981 000

The A005 assay sets are selected
 composites based on copper grades
 and geology

	From	To	Length	Cu %	Au g/t
A005	4.20	25.00	20.80	.023	2.473 .193
A005	25.00	42.60	17.60	.160	.226
A005	42.60	54.70	12.10	.707	.240
A005	54.70	73.10	18.40	1.752	1.033
A005	73.10	86.10	13.00	.160	.079
A005	86.10	129.25	43.15	1.205	.611
A005	129.25	137.00	7.75	.008	.020
A005	137.00	143.00	6.00	.288	.178
A005	143.00	147.90	4.90	.089	.073
A005	147.90	159.45	11.55	.374	.257
A005	159.45	198.10	38.65	.207	.181

/END

A001	181.00	184.00	55961	.284	.190
A001	184.00	187.00	55962	.189	.180
A001	187.00	190.00	55963	.120	.160
A001	190.00	193.00	55964	.128	.220
A001	193.00	196.00	55965	.127	.370
A001	196.00	198.10	55966	.131	.200



IDEN6B0201 KERR KS-091NQWL07SEP90SMP JTTSEP90600 GRD 0.00
 IPRJPLACER DOME INC. KERR PROJECT
 S000 000 3300MT 159.80090.00-60.00 10299.00 9660.00 1438.00
 /NAM SESICLEPP1XXXXCPP2BNXXYY
 LNAM QSCBKFCYPRXXXQZQPXXXXYY
 /SCL MT.2PC.0

LSCL PC.0 LCTM
 S001 3300 11300 159.80087.00-53.00
 S002 11300 15980 159.80088.00-51.00

A003

AUMM MAG
 P 000 300 CSNG

L
 R Overburden/casing
 P 300 1220 FRXTUFF P1 Q1 D=KALIB.<<B.CVCC
 E G* C*C*< V C-D.
 R Heavily fractured, CY rich, variable unit. Chloritic, sericitic.
 R Abundant clear to milky brecciated QTZ veins with CP, PY, CC, CV
 R PY heavily oxidized. Abundant KA, fractures tend to follow
 R foliation, some particles rounded. Rock variable, possibly PHPP
 R origin? Few fragments, little foliation, possibly some PF
 R phenocrysts. Most mineralization associated with sericitic QTZ
 R rich zones, PY microveins with QS envelopes common with
 R chloritic zones. CV mainly coats PY, some crystals, minor CP,
 R BN, CC. Some bleaching.

D 300 600 55 X
 L 10R3 60 XXX

R Oxidized until 6.0 m.
 D 600 1100 29 X
 L DR2 91 XXX
 R Heavily fractured, CY gouge. Particles subrounded, ground up.
 R KA, CY rich. Sulphides as individual grains, last 10 cm
 R competent.

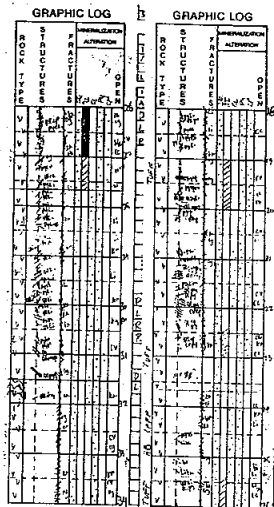
P 1220 3150 XTUFF P1 Q1 D+KALIB-<<
 L #- C)C. V=

R Similar to previous PGI, highly variable rock type and
 R alteration, less fractured, very little oxidation. Entire PGI
 R may be PHPP but with changes in veining and pervasive alteration
 R Equigranular; weak, sporadic foliation. Some zones grainy
 R looking. Sericitic have QTZ brecciated veins with CV, PY, some
 R CP. Some individual PY +/- CP veins. Chloritic zones have
 R pygmatic QTZ verins brecciated with yellow CB infill, some
 R leaching of CB and sulphides. KA on fractures, fractures random.
 R May be BXTF?

D 1220 1500 84 X 120

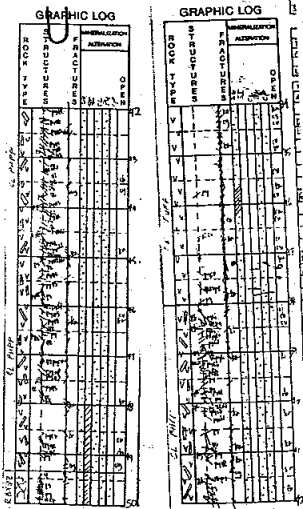
	From	To	Sample	Cu %	Au g/t	Ag ppm	Pb ppm	Zn ppm
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A001	3.00	11.00	55967	.644	.380			
A001	11.00	12.20	55969	.704	.470			



L	21R3		231							
R			Mainly sericitic.							
D	1500	1800	90 X	222						
L			43R3	152	321					
R	1500	1570	QTZ-CV BROOK veins with heavily sericitized CY rich host. No silicification.							
R	1570	1700	Less veining, more disseminated patchy PY, minor ptygmatic veins Sericitic.							
D	1800	2070	80 X							
L			22R3	182	232					
R			Mainly sericitic, grainy with 20% QTZ brecciated veins with CP.							
R	1820	1840	Abundant CC coating PY, CP.							
R	1900	2070	Abundant QTZ veins, CP, CV, CC, PY.							
R	2020	2030	PY, CP vein at 30 degrees crosscut by QTZ milky CP vein at 85 degrees, CC coatings.							
D	2070	2370	73 X							
L			4R3	213	122					
N	2370	2540	88HBXLAPP		120	P1 P2	BILI D=	KACC		
L			OR3	243	232	E-	E-C-	Q.C*		
R			Fine grained matrix with chloritized hornblende phenocrysts up to 2 mm; 15% of rock. CY altered PF phenocrysts. HB has associated PY alteration. Little mineralization/veining, well fractured, massive. Chlorite altered. Bottom of interval has BI-SE envelopes along fractures with inner SE envelope. Both contacts sharp.							
R	2310	2370	Missing core?							
D	2540	2770	88 X			P3	B*=<	CVMC		
L			22R3	274	232			<)>\$.		
R			Sericitic, abundant QTZ recciated veins LI stains. Silicified.							
D	2770	3150	97BXX		332	P2				
L			41R3	309	232			<=		
R			Chloritic, resembles PHPP with ptygmatic rusty QTZ veins. Little foliation. Sericitic towards the bottom.							
P	3150	3800	FR TUFF			P2 Q+	D=KA	B-<* CV		
L							G) C*	V) C-		
R			Sericitic, light grey, fractured in all directions, abundant parallel foliation. PY mainly disseminated, coated with CV. Little oxidation, some QTZ brecciated veins. Some CP, CV associated. Little foliation. Jumbled, CY rich. Probable PHPP, same rock type as above. Blocky, not flaky.							
D	3150	3450	73 X							
L			OR3	335	X74					
D	3450	3800	79 X							
L			OR3	366	XXX					
R	3660	3710	Jumbled QTZ brecciated vein, abundant CV, CC, KA.							

A001	12.20	15.00	55970	.644	.370
A001	15.00	18.00	55971	.548	.260
A001	18.00	20.70	55972	1.090	.470
A001	20.70	23.70	55973	1.460	.470
A001	23.70	25.40	55974	.528	.150
A001	25.40	27.70	55975	.980	.510
A001	27.70	31.50	55976	.720	1.360
A001	31.50	34.50	55977	.736	.470
A001	34.50	38.00	55978	.668	.230



P 3800 4930 CLXPHPP P1 P2 D+KAQCB.<<
 L E= C.<)
 R Uniform, patches of variable alteration, little foliation.
 R Spotty with HB/CHL phenocrysts with PF-CHL matrix. Fine-medium
 R grained. Very fine disseminated an-subhedral PY; PY microveins
 R up to 5% of rock, well developed QS envelopes and slight
 R pervasive alteration associated. Some veins with LI stains.
 R Rock competent, few fractures, usually along veins. Becomes
 R grainier with depth, increase in QTZ breccia veining with depth.
 R QTZ veins slightly vuggy, rough, granular.

D 3800 4100 100 X 232
 L 87R3 396 120

R 3930 3932PY subhedral vein with interstitial QTZ, CHL selvages. Classic
 R PY microvein.

D 4100 4400 100 X 232
 L 75R3 426 221

D 4400 4800 93 X 222
 L 58R3 457 221

R 4680 4720Large QTZ brecciated vein, vuggy in grainy matrix, abundant PY,
 R CV crosscut by later milky QTZ vein with angular CP blebs.

D 4800 4930 100 X
 L 85R3 487 122

R Increase in brecciated QTZ towards lower contact.

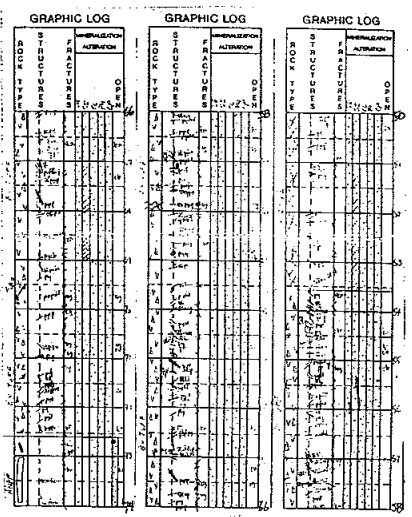
P 4930 5355 94KRXBQZ P1P3Q+ DJKALIB*<< CV
 L 68R4 518 121 C-0* V7 C)

R 70% QTZ vein, 30% silicified host rock. Contacts vague. Greyish
 R matte? surface, vuggy. Vein and host are pitted, granular,
 R cloudy. LI and KA? spots throughout core. Host sericitic,
 R silicified with fine disseminated PY +/- CP. Host generally just
 R fragments in QTZ vein. QTZ vein brecciated, infilled with PY,CP
 R microveins, some CV coatings. Irregular veining, some PY patches
 R fractures random, KA coatings, relatively competent but brittle,
 R spotty chloritization of host rock, some fragments incorporated
 R into QTZ vein. some dark green CHL associated with microveins in
 R QTZ veins.

P 5355 7260 BXXTUFF P2Q1P1 D=KA B*<< HS
 L E*<) G. C- V+ B-

R Variable unit, sericitic to chloritic with 5-20% QTZ BRXX veins.
 R Granular texture at top of interval gradually becoming less
 R vuggy with depth. QTZ becomes clearer usual QTZ BRXX veins at
 R bottom. Host probably PHPP, silicification associated with QTZ
 R veining. Ptygmatic folding of QTZ veins with LI in CHL altered
 R sections. Little LI with depth. PY microveins in less QTZ rich
 R areas, well developed QS envelopes. CP mainly in QTZ veins,
 R minor with PY disseminated and microveins. Rock has little

A001	38.00	41.00	55979	.356	.290
A001	41.00	44.00	55980	.360 0.3600	.320
A001	44.00	48.00	55981	.384	.270
A001	48.00	49.30	55982	.612	.440
A001	49.30	53.55	55983	1.730	1.480



R foliation. CB in QTZ veins with depth, loose vugginess, some
 R orangy CB at top of interval, may confuse with LI, some later
 R angular QTZ-CB-CHL-CP veining. LI spots surround QTZ grains in
 R vein and host. Some specular HE associated with QTZ BRXX veins.

D 5355 5700 96 X 232
 L 57R3 548 221
 R 5597 5598 One fragment, black, soft.
 D 5700 6030 95 X 232
 L 74R3 579 121

R QTZ veins often have centralized mineralization.
 R 5980 5990 Small faulted zone perpendicular to core axis, CY, +/- LI.
 D 6030 6110 96 X

L 96R4 609 011
 R 75% QTZ brecciated veins. Abundant PY, CP, HS microveins and
 R blebs. Chloritic host. Vein no longer granular, white with minor
 R white CB.

D 6110 6400 95 X 131
 L 72R3 640 131

R 6250 6400 Chloritic host with 5% pygmatic QTZ veins. Crosscut by PY micro
 R veins.

D 6400 6700 92 X 131
 L 63R3 670 121

R 6450 6470 Milky QTZ vein with CB, CP crosscuts earlier PY CP vein.

R 6600 6700 Start of chloritic, brecciated tuff with clear to milky very
 R irregular QTZ BRXX veins. Continues to end of interval. Abundant
 R CP.

D 6700 7000 93 X 121
 L 59R3 131

R 6955 7030 Well foliated at 25-35 degrees to core axis. Parts slightly
 R along foliation, yellow CY, some QTZ veins at top.

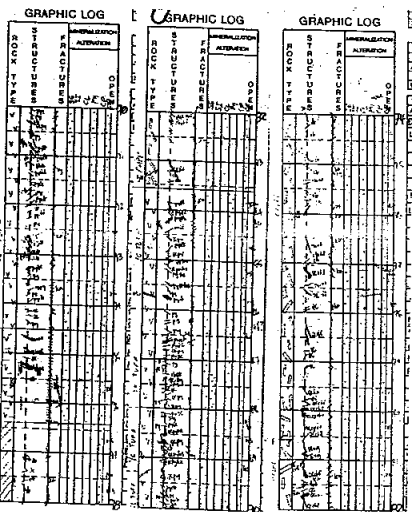
D 7000 7260 96 X 121
 L 58R3 701 221

P 7260 8360 XANPP
 L P= P= QCCL KALI
 L P) C- K(K) C)C.

R Medium green, chilled sharp contacts, PF, KF phenocrysts
 R generally small, up to 3 mm with vague boundaries. Saussuritized
 R slight pervasive CB alteration along QTZ-CB-CHL late stage veins
 R Minor chloritized fragments, squashed CY rich fragments. Very
 R weak to no foliation at 90 degrees to core axis in one place,
 R 45 degrees in another. Little mineralization, some leaching in
 R QTZ veins, some are vuggy. KA coatings on fractures, minor
 R bleaching around some QC-CHL veins, veins generally angular,
 R sharp contacts.

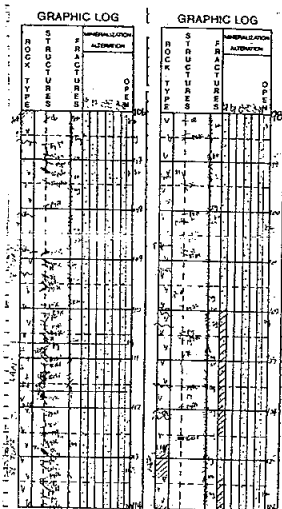
D 7260 7560 93 X 121
 L 58R3 731 131

A001	53.55	57.00	55984	.712	.980
A001	57.00	60.30	55985	.872	.500
A001	60.30	61.10	55986	1.840	.960
A001	61.10	64.00	55987	.732	.460
A001	64.00	67.00	55988	1.090	.750
A001	67.00	70.00	55989	1.360	.650
A001	70.00	72.60	55990	.303	.270
A001	72.60	75.60	55991	.019	.030



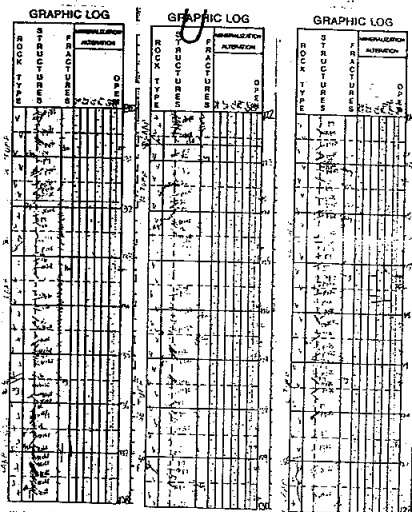
D 7560 7860 97 X 221
 L 87R3 762 120
 D 7860 8160 93 X
 L 87R3 792
 R 7920 8010 70% QTZ-CB-CHL irregular patches and veins. Vuggy places with KA
 R infill. Veins contain BRXX fragments, chloritized, silicified.
 R 8010 8011 Possible EP vuggy veins crosscutting QTZ hard, olive green.
 R 8110 8160 Fractured, QC-CHL veins with KA infill.
 D 8160 8360 90 X 131
 L 18R3 823 232
 R 8310 8311 Bluish salt? on fracture surface. Fragile, lath crystals in
 R rosette.
 P 8360 9450 SEXTUFF P2 D+QCBIB.<+ KAHS
 L J) Q1 K+B. C.B-
 R Mainly sericitic with patches of yellow CY, light grey colour
 R alteration. Equigranular, uniform, PY disseminated and as
 R subhedral microveins with interstitial QTZ and yellow CB. Other
 R white QTZ-CB veins not so abundant but possibly with some Cu
 R minerals. PY veins follow foliation at 35 degrees, QTZ veins
 R irregular. Weak patchy foliation, YC rich areas have some CP
 R blebs, FU. Possibly BI porphyroblasts at 88.15 with patchy KF
 R alteration? Rock competent, random fractures. Some bluish HS
 R associated with QTZ veins.
 D 8360 8600 99 X 030
 L 52R3 853 130
 R Pervasive Yellow clay alteration.
 D 8600 8800 100 X 130
 L 91R3 120
 R Sericitic, abundant QC irregular stockwork. Competent, possible
 R KF alteration.
 D 8800 8930 92 X 222
 L 86R3 884 110
 R Yellow CY pervasive alteration. Possibly KF with BI (purple)
 R altered segments.
 R 8845 8860 Ptygmatic clear QTZ veins with CB BRXX infill, central PY vein.
 R Some HS dusted everywhere, abrupt changes in alteration.
 D 8930 9200 100 X 231
 L 83R3 914 120
 R Sericitic to end of interval. Possible KF alteration, abrupt
 R decrease in QC veining.
 D 9200 9450 94 X 230
 L 64R3 945 130
 P 9450 9640 95 XAGLM P1 J=QCKA <*
 L OR3 1XX J* G1 <<C)
 R Greyish green, very well banded/foliated at 80-90 degrees to

A001	75.60	78.60	55992	.007	.050
A001	78.60	81.60	55993	.005	.005
A001	81.60	83.60	55994	.004	.010
A001	83.60	86.00	55995	.196	.280
A001	86.00	88.00	55996	.328	.240
A001	88.00	89.30	55997	.308	.200
A001	89.30	92.00	55998	.150	.090
A001	92.00	94.50	55999	.154	.110
A001	94.50	96.40	56000	.087	0.0870 .090



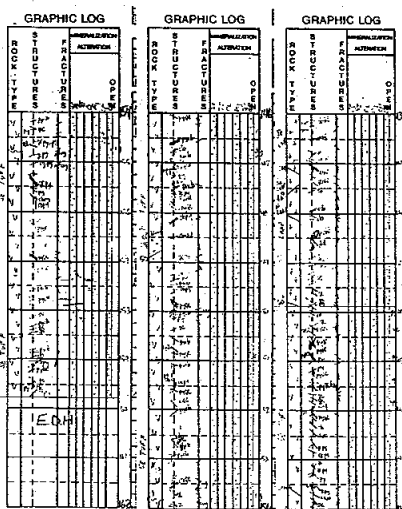
R core axis, varies quickly, erratically. Abundant QTZ rich clasts
R PY disseminated finely interstitial between fragments in grey
R brown matrix. Matrix not graphitic, may just be fine
R disseminated PY. Fragments closely packed, up to 80% of rock.
R Possibly interstitial CB. Rock CY and KA rich, fractures regular
R along foliation. Some later QTZ-CB veins generally along
R foliation. Fractured, CY rich, some PY.
R 9490 9500 Brecciated LAAP. Several phases of intrusives recognized, all
R LAAP.
P 9640 9800 80AMXANDY 110 QCKA MG
L 50R3 XXX P1 A+C- D=
R Dull brown grey, with fine black disseminated MG. Fine grained
R pervasive CB alteration and as amygdules, some veins. Rock
R competent in the middle but both contacts heavily fractured,
R possibly with some sericitic host rock component. Lost core at
R both ends.
A003 9640 9800 3000
P 9800 13190 SE TUFF P10) D=QCFUB.<= HSKA
L G) Q+B- <- D-C-
R Uniform interval, light grey with areas of patchy yellow clay
R alteration. No visible foliation, rock has mottled look, PY and
R QC veins irregular and in all directions. PY disseminated ~5%
R subhedral microveins and patches with interstitial QTZ and CB
R ~5%, minor associated HS. Yellow clay areas exhibit good QS
R envelopes, have patches of emerald green FU. Abundant cross-
R cutting and nested LAAP, sharp contacts, QTZ-CB-CHL veining.
R Fractures in host are random, generally at moderate angle to
R core axis. Patchy, intermittent silicification, CB very minor
R in veins.
D 9800 10100 88 X 121
L 27R3 1006 137
R 9910 9930 ANDY, jumbled.
D 10100 10400 90 X 121
L 27R3 1036 134
R 10100 10140 ANDY, more competent than rest of interval.
R 10200 10250 CY rich fault gouge.
D 10400 10670 87 X
L 08R2 1067 XXX
R Faulted, CY rich.
R 10480 10540 ANDY, more competent, RQD=0
R 10470 10480 Small chunk of LAAP.
R 10590 10620 ANDY, slightly bleached, pieces >10 cm, no amygdules.
D 10670 11060 77 X 121
L 35R3 1098 XXX
R 10800 10900 50 cm lost core.

A001	96.40	99.00	56076	.039	.050
A001	99.00	101.00	56077	.154	.120
A001	101.00	104.00	56078	.191	.080
A001	104.00	106.70	56079	.111	.090
A001	106.70	110.60	56080	.207	.160



N 11060 11165 90 XLAAP 122 P= QCCL Q-
 L 46R3 141 K=<>
 R Medium green, fine grained, no foliation, uniform, angular QC
 R veins with CHL. Minor PY in patches in matrix.
 A003 11060 11165 45
 D 11165 11440 95 X 131
 L 84R3 1128 120
 R 11190 11200LAAP
 R 11220 11310Yellow clay alteration, some FU.
 D 11440 11740 95 X 131
 L 85R3 1158 022
 R 11500 11740Intermittent YC alteration with FU. Trace CP blebs.
 D 11740 12090 97 X 131
 L 91R3 1189 020
 R 11840 11930Yellow clay with FU. Envelopes on PY veins.
 N 12090 12270 98 XLAAP 232 P= QCCL Q-
 L 53R3 1222 131 K1S)
 R Typical, fine grained, no foliation, sharp contacts, upper
 R contact parallel to core axis with yellow clay tuff from
 R 121.10-121.70, crosscuts PY microveins. QC stockwork restricted
 R to LAAP, stops at contact. Normal movement along CB-CHL filled
 R fractures, fractured along contact.
 A003 12090 12270 300
 D 12270 12640 100 X 232
 L 89R3 1247 110
 R 12390 12410CHL flakes as microveins, surrounding PY crystals.
 R 12405 12450Mix of LAAP, tuff. Irregular blobs of LAAP in tuff matrix.
 D 12640 12900 86 X 242
 L 71R3 1280 121
 R Core lost at start of interval, patchy CY alteration.
 D 12900 13190 96 X 141
 L 74R3 1311 151
 R Medium foliation at 45-50 degrees, fractures along foliation.
 R Interval slightly darker with micaceous material.
 P 13190 14190 XLAAP P= QCCL Q.
 L G* K+S)
 R Fine to very fine grained, medium light green, uniform, few
 R fragments, sharp contacts. Several episodes of emplacement:
 R shown by lighter green fragments and dykes surrounded by darker
 R coarser LAAP. Some contacts grade from lighter green, very fine
 R grained to darker, fine grained. QC sometimes crosses cocontacts
 R of LAAP, sometimes truncated. Few sulphides, fractures random.
 R Darker LAAP has vague PF phenocrysts in places. Vague hairline
 R fracture pattern at 70-85 degrees to core axis. Visible in
 R places. Some places amygdaloid with CB-CHL.

A001	110.60	111.65	56081	.015	.040
A001	111.65	114.40	56082	.228	.200
A001	114.40	117.40	56083	.221	.230
A001	117.40	120.90	56084	.086	.150
A001	120.90	122.70	56085	.030 0.0300	.040
A001	122.70	126.40	56086	.072	.170
A001	126.40	129.00	56087	.094	.200
A001	129.00	131.90	56088	.024	.180



D 13190 13500 95 X 231
 L 30R3 1341 142
 A003 13190 13500 25
 D 13500 13800 100 X 232
 L 90R3 1372 121
 R Some hairline fractures in interval.
 R 13545 13550 Light green, very fine grained LAAP at 35 degrees.
 A003 13500 13800 5
 D 13800 14190 96 X 132
 L 60R3 1402 232
 R 13920 13950 Dark green LAAP in contact with light green LAAP, sharp contacts
 R Dark green LAAP contains fragments of other.
 R 13950 14005 Light green LAAP. Hairline fractures only in dark green LAAP.
 P 14190 15980 SE9TUFF P2 D=QCFU <=
 E* G- K1B*
 R Light grey, uniform to patchy, few fragments. Sporadic patchy
 R yellow CY alteration. Some portions maybe TFLP, last 2 m very
 R uniform with 5% disseminated PY blebs. White to clear QTZ with
 R white to cream BRXX infill veins common, irregular,
 R discontinuous. PY mainly disseminated and as subhedral
 R concentrations with interstitial CB-QTZ. Minor FU blebs with
 R associated PY. Little foliation, fractures random. Pink GY
 R towards bottom of PGI.
 D 14190 14500 92 X 231
 L 63R3 1433 121
 R Slight yellow clay alteration, FU, QS envelopes.
 R 14350 14351 CB with orange-pink tint.
 R 14470 14471 Lose yellow clay alteration.
 D 14500 14800 100 x 232
 L 84r3 1463 122
 R First appearance of GY in PGI.
 R 14573 14574 Small LAAP (1 cm wide, banded, at 60 degrees)
 R 14580 14590 QC, somewhat vuggy patch.
 R 14685 14686 Central pink GY in white CB vein.
 D 14800 15100 100 8 131
 L 87R3 1494 120
 R Interval up to 15-20% PY disseminated and veins.
 R 14840 14880 LAAP, sharp contacts.
 D 15100 15400 100 X 121
 L 70R3 1524 121
 D 15400 15700 100 X 121
 L 71R3 1554 022
 D 15700 15980 92 X 022
 L 82R3 1585 010
 R Very uniform, 5-7% disseminated PY, some veining.

A001	131.90	135.00	56089	.004	.030
A001	135.00	138.00	56090	.002	.020
A001	138.00	141.90	56091	.003	.030
A001	141.90	145.00	56092	.080	.130
A001	145.00	148.00	56093	.040	.100
A001	148.00	151.00	56094	.050	.120
A001	151.00	154.00	56095	.044	.110
A001	154.00	157.00	56096	.023	.100
A001	157.00	159.80	56097	.066	.130

The A005 assay sets are selected
composites based on copper grades
and geology

	From	To	Length	Cu %	Au g/t
A005	3.00	38.00	35.00	.777	.483
A005	38.00	49.30	11.30	.396	.308
A005	49.30	72.60	23.30	1.048	.786
A005	72.60	83.60	11.00	.009	.025
A005	83.60	117.40	33.80	.174	.144
A005	117.40	159.80	42.40	.044	.108
/END					