

1025

GOVERNMENT AGENT'S OFFICE
OCT 17 1988
PORT HARDY, B.C.

SUB-MINING RECORDER
OCT 17 1988
PORT HARDY, B.C.

DIAMOND DRILLING

SUN-89 GROUP

NANAIMO, M.D.

FILMED

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,892

BHP-UTAH MINES LIMITED

OCTOBER, 1988

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1.0 INTRODUCTION

Between January 27, 1988 and April 3, 1988, a series of 9 holes were completed and a 10th hole was started and abandoned for a total cumulative footage of 6707 ft (2044.3 m). These holes formed part of a study to determine the economic and technical viability of an extension of the Island Copper orebody.

2.0 LOCATION AND ACCESS

The claim group extends from the Island Copper mine site approximately 6 km east and south east. This area is within the Nanaimo mining district at roughly 127 degrees 25 minutes E, 50 degrees 36 minutes N, which places it on the 92L/11W sheet. Access is provided by paved road to the mine site and private mine roads or logging roads.

3.0 PHYSIOGRAPHY

The area is within the coastal lowland of the Suquash basin forming part of the Nanhitti Lowlands of the Central trough physiographic subdivision. The area is characterized by very low relief with a few low rolling hills. Elevations range from 0-300 ft above sea level, (700 ft below sea level within the mine). The eastern end of Rupert Inlet underlies the group, and the claims are crossed by Waukwaas and Washlawlis creeks.

4.0 GEOLOGY

The Upper Triassic and Lower Jurassic sedimentary and volcanic succession of the Vancouver and Bonanza Groups respectively, and Jurassic granodiorite and quartz diorite stocks underlie the area north of Holberg and Rupert Inlets. The succession strikes approximately west-northwest and dips gently southward becoming younger to the south. From south to north the formations are: (1) Bonanza Volcanics andesitic tuffs and flows underlain by (2) Parson Bay calcareous siltstone with interbedded shales and andesitic and cherty tuffs, and limestone with shaley interbeds underlain by (3) Quatsino limestone and (4) Karmutsen amygdaloidal basalt flows. The Dawson fault cuts across the claim group juxtaposing Karmutsen formation rocks against Bonanza Formation.

5.0 PREVIOUS WORK

Mining is currently in progress on mining lease M36 with consequent drilling and development activities and geologic mapping. Surface mapping, mag, VLF, IP and geochem surveys and exploratory diamond drilling have been carried out by BHP-Utah and its predecessor companies on the mineral claims.

This current program forms part of a several (approximately 3) year exploration and engineering program aimed at increasing the recoverable reserves available for the Island Copper mill. The following are extracts from the most recent analysis of all data:

From Island Copper Mine: Interpretative and Evaluation
Report 50108/2

"The preliminary designs described in this report have been developed over a period of more than two years. Extensive site investigations, field and laboratory testing have been performed to determine the geometry and engineering properties of the soils and rocks forming the slopes, as described in the separate Island Copper Mine : Data Report 50108/1."

From Island Copper Mine: Data Report 50108/1:

"Several diamond drilling projects were completed by ICM between 1983 and 1988 for rock characterization and development of south wall slopes. These include diamond drill holes from the DDH 60, 80, 90, 100, 120 and 130 series of holes. Several of these were abandoned or lost because of difficult drilling conditions in the dump and native overburden and did not reach bedrock. One hole K1 was attempted unsuccessfully in the beach dump with a Krupp drill. Recent programs by ICM between 1986 and 1987 were for preliminary investigations of different push-back expansions. The most recent diamond drilling (1988) was for rock characterization of the rock slopes for south wall push-back. It includes diamond drill holes DDH 124 to DDH 132."

Both reports were prepared for BHP-Utah by Steffen Robertson & Kirsten of Vancouver and Woodward-Clyde of Denver, Colo. U.S.A.

6.0 OBJECTIVES

The holes were drilled to determine the detailed geology and alterations and evaluate the rock mass characteristics pertinent to the exploitation of drill indicated copper/gold/molybdenum mineralization adjacent to the Island Copper Mine.

7.0 WORK PERFORMED

Drill core was logged, photographed, measured for recovery, RQD (percent of core greater than or equal to four inches in length), RMR (Rock Mass Rating - an engineering design parameter incorporating alteration, fracture density and type, and rock strength parameters), and magnetic susceptibility ($\times 10^{-3}$ CGS units). The drilling statistics are summarized in the following table. The core is preserved intact for its value in future (and present) studies regarding rock slope design. Consequently, assays are not available for these holes. The core was logged by G.A. Clarke and J.A. Fleming. The RMR determinations were made by G.L. Pierce, stability engineer.

TABLE 1: DRILLING STATISTICS

		<u>MINE GRID COORDINATES</u>				
<u>TOTAL</u>						
<u>HOLE</u>	<u>LENGTH</u>	<u>EAST</u>	<u>NORTH</u>	<u>ELEVATION</u>	<u>AZIMUTH</u>	<u>INCLINATION</u>
D124	705	28400.0	4298.4	1032.5	360	-40
D125	109*	28120.0	4400.0	1020.0	360	-50
D125A	769	28118.0	4407.8	1020.3	357	-45.5
D126	762	29037.5	4673.4	1031.3	317	-44.5
D127	819	27802.3	4406.7	1033.2	358	-42
D128	928	26200.0	4462.6	1041.7	002	-53.5
D129	425	26111.6	4447.8	1042.2	230	-49
D130	943	27097.6	4409.4	1035.1	356	-46
D131	309	26714.9	4374.4	1036.0	231	-46.5
D132	938	26765.0	4469.6	1036.3	052	-48

* D125 was abandoned due to difficult drilling conditions in mine waste dump material.

B.0 RESULTS

The holes are summarized in Appendix "A". Complete geological logs and RMR data are included as Appendix "B". The holes all lie within the Bonanza formation with lithologies consisting of andesite tuffs and minor porphyries. A few intrusive breccia zones are noted and interpreted as channels venting high velocity fluids to surface, likely from deep-seated sources.

Correlatable stratigraphic horizons within the volcanic rocks are absent. The only unique unit is a brick red hematitic fragmental unit but it is unclear if the hematite is an alteration product. The geology is further complicated by multiple faults with unknown offsets.

Alteration and alteration zoning are the most significant features outlined by these holes. In general, the alterations are typical of porphyry copper systems with propylitic, transitional and potassic alterations developing in a northward direction as the Island Copper porphyry is approached. These "thermal" alterations, which generally relate to magmatic water flow, are superimposed by phyllic and argillic and some advanced argillic hydrothermal alterations driven primarily by meteoric water.

The propylitic zone is characterized by strong epidote alteration with some chlorite. (Chlorite is not diagnostic since it is ubiquitous through all alteration types, generally as a retrograde feature). The upper parts of D128 (0-350'), D130 (0-250') and D132 (0-300') lie within the propylitic zone. D131 is interpreted to lie within the propylitic zone with phyllic alteration superimposed - likely a reflection of the strong fault at the bottom of the hole (298-309'). Hole D129 may be weakly propylitically altered through its entire length (0-425'). This hole is offset from the remaining holes by the fault known as the End Creek fault which is encountered in D131. The offset and throw on this fault are unknown but the weak epidote/chlorite alterations are likely unrelated to the main Island Copper porphyry system.

The transition zone between the propylitic and potassic zones is characterized by moderate magnetite and chlorite with accessory epidote and quartz. In general, this alteration zone encompasses holes D124 (0-574'), D125A (0-640'), D126 (0-370'), D127 (0-550'), D128 (350-928'), D130 (250-814') and D132 (300-943'). The considerable footage drilled in this zone is a reflection of the relatively constant distance these holes are collared away from the main Island Copper intrusive.

8.0 RESULTS (cont'd)

The potassic zone is characterized by biotite, strong magnetite and occasionally by strong quartz flooding or veining. Amphibole has recently been recognized as a significant constituent of this early, high temperature phase, but was not noted in the logging of D124-D132. Potassic alteration is represented in these holes by the lower sections of D124 (574-705'), D125A (640-769'), D126 (370-762') and D127 (550-819').

The phyllic alterations are represented primarily by sericite. Most often this occurs as envelopes on quartz veins. As the veining increases, the envelopes coalesce, to the point where alteration is pervasive. This is the alteration zone of primary importance in determining the RMR since sericite alteration asserts a considerable influence on the overall rock strength. The phyllic alterations also tend to channel along structures and permeate into the adjacent wall rocks, further deteriorating rock strength properties weakened by mechanical movement.

Zones of significant phyllic alterations are found in holes D124 (430-470' and 530-570'), D125A (0-530', decreasing 530-640'), D126 (200-370'), D130 (600-814') and D132 (520-640' and 710-800'). Discontinuous zones of sericite alteration also occur in D127, D128 (significant zones between 400 and 700 feet) and structurally related in D129 (160-176') and D131 (183, 239, 247 in 2-3 ft. zones). In virtually all cases, the presence of phyllic alterations is reflected by low RMR values, as shown in the graphs following the geological summaries.

Argillic alteration, characterized by clay minerals is generally lumped with the phyllic zones. No distinctions are made in these holes regarding clay minerals. Advanced argillic alterations are very localized and are represented by pyrophyllite and dumortierite mineralization. These are found in D126 (310-350'), D127 (534-543'), D128 (possible pyrophyllite 600-610'), D130 (735-740') and D132 (520-620' - weak and 700-710').

The main structural features are the numerous, generally small-scale faults. The most significant is likely the one encountered in D131 (298-309') which caused the loss of the hole. This fault is probably (as mentioned above) the End Creek fault, a major ore control in the Island Copper Deposit. The numerous other faults tend to be fairly narrow (1-5 feet, occasionally to 15 feet). However, correlation between holes is uncertain, primarily because of the number of structures, but also due to the lack of distinctive geology in the rock.

9.0 CONCLUSIONS

These holes outline part of a typical Island Arc porphyry system with propylitic, transition and potassic zones superimposed by phyllic and advanced argillic zones. Copper grades (estimates only) generally lie within the potassic and transition zones. The phyllic and argillic/advanced argillic overprint has a profound effect on the rock strength parameters as they relate to slope engineering.

10.0 RECOMMENDATIONS

The alterations and structures affecting the possible mining and processing of this deposit have been sufficiently well defined by this program. No further drilling is recommended for this purpose.

11.0 STATEMENT OF COSTS

DIRECT DRILLING COSTS:

HOLE	HOLE	FIELD	DRILLING				
___#___	FOOTAGE	COSTS*	COSTS**	MUD	MATERIALS	TOTAL	
D124	705	\$ 4,187.50	\$ 9,768.00	\$ 1,813.34	\$ 256.52	\$16,025.36	
D125	109	1,531.24	0.00	42.40	969.74	2,543.39	
D125A	769	10,437.50	10,329.50	1,806.24	4,232.13	26,805.37	
D126	762	2,000.00	11,335.50	1,043.04	292.67	14,671.21	
D127	819	7,875.00	11,203.50	2,374.40	292.67	21,745.57	
D128	928	9,968.75	13,662.00	3,773.60	734.29	28,138.64	
D129	425	4,562.50	5,346.00	1,416.16	1,647.00	12,971.66	
D130	943	5,812.50	11,863.50	2,764.48	292.67	20,733.15	
D131	309	6,000.00	3,283.50	1,526.40	0.00	10,809.90	
D132	938	5,937.50	14,157.00	3,739.68	878.01	24,712.19	

TOTAL 6707 \$58,312.50 \$90,948.50 \$20,299.74 \$ 9,595.70 \$179,156.44

SUPERVISION & CORE LOGGING: 43 days x \$175 7,525.00

REPORT PREPARATION: 4 days X \$175 \$700

2 days X \$120 240

940.00

COMPANY OVERHEAD: 25% of Supervision &
Report Preparation

2,116.25

\$189,737.69

***Pro-rated total: \$162,523.19

Unit Cost: \$28.29 per foot or \$92.81 per meter.

* Field costs include all items incurred on a per hour basis.

** Drilling costs are incurred on a per foot basis - all core sizes.

*** Holes D124 (505-705') and D126 (0-762') lie outside the Sun89 group. The total value of this report is therefore reduced by a factor of 5745/6707.

STATEMENT OF QUALIFICATIONS

I submit that we are qualified to prepare and present this report for assessment credit. Our qualifications are as follows:

G.A. Clarke - Geologist
Island Copper Mine, BHP-Utah Mines Ltd., Port Hardy, B.C.

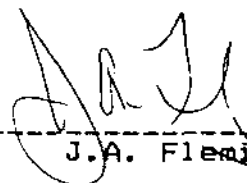
- 1) B.Sc. (Hons) in Geophysics 1976 from University of Manitoba.
- 2) Employed continuously as a geologist and/or geophysicist since June, 1976, currently geologist at Island Copper Mine.
- 3) Active member of the Society of Exploration Geophysicists and affiliate member of the American Association of Petroleum Geologists.



G. A. Clarke

J.A. Fleming - Chief Geologist
Island Copper Mine, BHP-Utah Mines Ltd., Port Hardy, B.C.

- 1) B.Sc. (Major Geology) 1971 from McGill University.
- 2) Employed as a geologist continuously since June 1968, and presently Chief Geologist, Island Copper Mine, BHP-Utah Mines Ltd.
- 3) Fellow of the Geological Association of Canada since 1974.



J.A. Fleming

Appendix A

DRILLHOLE/TRVERSE : D_124

PROJECT IDEN : ILC
COLLAR NORTHING: 4298.41START DATE : 88/ 1/27
COLLAR EASTING : 28400.02
TOTAL LENGTH : 705.00COMPLETION DATE :
COLLAR ELEVATION: 1032.45
CORE/HOLE SIZE : NQGEOLOGGED BY : SAC + JAF
GRID AZIMUTH : 0.00

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
000	0.0		360.00	-40.00		
001	150.0		26.00	-40.00		

R HED
R HED
R HED

COLLARED IN BEACH DUMP BY SDS-BECKER DRILL. CASING DRIVEN 30
FT SHORT OF BEDROCK. FEB 03 - ROCK WEDGED IN HOLE & DEFLECTED
RODS AFTER PULLING FOR BIT - HOLE ABANDONED.

SUMMARY REMARKS

0 - 113.00
CASING - NO CORE
113.00 - 145.50
TILL - COBBLES OF VOLCANIC AND INTRUSIVE ROCKS.
145.50 - 157.00
DARK GREEN, WEAKLY FRACTURED, LAPILLI TUFF, STRONGLY MAGNETITE
ALTERED, MODERATELY CHLORITE, MAGNETITE AND EPIDOTE ALTERED
WITH CHALCOPYRITE IN CLASTS.
157.00 - 193.00
MEDIUM GREEN, WEAKLY FRACTURED, CHLORITE, EPIDOTE ALTERED,
COARSE ASH TUFF WITH MINOR MAGNETITE AND HEMATITE IN THE
CLASTS. SOME PORPHYRITIC (FLOW?) LOOKING ANDESITE 175 - 178
FEET.
193.00 - 243.50
MEDIUM DARK GREEN, MODERATE CHLORITE - MAGNETITE ALTERED (+/-
HEMATITE) ANDESITE TUFF CUT BY SCATTERED SERICITE ALTERATION
ZONES TO 20CM THICK ASSOCIATED WITH QUARTZ-MOLY VEINS +/- CPY.
AN INTRUSIVE BRECCIA (PEBBLE DYKE?) OCCURS AT 231.5 - 231.8 AND
241.5 - 243.5 WITH MIXED ANGULAR FRAGMENTS OF SERICITE ALTERED
ANDESITE TUFF. PYRITE 10% OCCURS MAINLY AS FRACTURE FILLINGS.
243.50 - 313.50
DARK GREEN-GREY WEAK CHLORITE-MAGNETITE +/- SERICITE +/- EPIDOTE
+/- HEMATITE ALTERED, PORPHYRITIC ANDESITE WITH ABOUT 20% FELD
LATHS TO 3MM AND MAFIC PHENOS PSEUDOMORPHED BY CHLORITE IN FINE
GRAINED MATRIX. SEE 604 - 690 AND 719 - 750 IN D-126 - THEY
ARE CALLED CRYSTAL TUFF.
313.50 - 405.00

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ILC

DRILLHOLE/TRVERSE : D_124 (CONTINUED)

SUMMARY REMARKS

MEDIUM GREEN, WEAK-MODERATE, CHLORITE-QUARTZ-MAGNETITE +/- SERICITE +/- HEMATITE ALTERED FINE ASH TUFF WITH LAYERS OF ASH TUFF LAPILLI. SOME NARROW SERICITE ALTERED SHEARS WITH BRECCIA. A FAULT OCCURS AT 338 - 351 WITH MULTI SHEARS AND BRECCIA. COARSE LAPILLI TUFF OCCURS AT 355 - 403. CPY OCCURS AS VEINLETS AND DISSEMINATED.

405.00 - 429.00

LAPILLI ANDESITE TUFF WITH APHANITIC AND ASH LAPILLI, IN FINE GRAINED, APHANITIC MATRIX. WEAK CHLORITE-SERICITE-MAGNETITE +/- EPIDOTE +/- HEMATITE ALTERED. PYRITE DISSEMINATED AND FRACTURE FILLINGS 5%, VEINLETS AND F.F. OF CPY TO 1%.

429.00 - 459.00

STRONG SERICITE/CLAY ALTERED, SHEARED, MEDIUM-COARSE LAPILLI TUFF.

459.00 - 523.00

WEAK-MODERATE MAGNETITE-CHLORITE-QUARTZ ALTERED SMALL LAPILLI TUFF WITH DARK ALTERED CLASTS IN LIGHT GREY ASH MATRIX. PYRITE ABOUT 5%, CPY MINOR.

523.00 - 574.00

STRONG CHLORITE, MODERATE SERICITE ALTERED LAPILLI TUFF CUT BY BRECCIA/SHEAR ZONES AT 524-533, 550.5-558, 568-573 FT. WITH ASSOCIATED MOD-STRONG SERICITE/CLAY(?) ALTERATIONS AND 5-10% PYRITE.

574.00 - 705.00

MAINLY A GREY-GREEN, MODERATELY FRACTURED, CHLORITE-MAGNETITE-QUARTZ ALTERED, MIXED, MEDIUM LAPILLI AND COARSE ASH/CRYSTAL TUFF (ANDESITE PORPHYRY?) CUT BY GREY QUARTZ VEINS WITH NARROW ALTERATION ENVELOPES AND QUARTZ-MOLY VEINS WITH WIDER SERICITE ENVELOPES. CRYSTAL TUFF HAS MOD-STRONG PERVASIVE MAGNETITE AND QUARTZ. PYRITE OVERALL ABOUT 5% POSSIBLY WITH SOME CPY. RUNS 5-8% 514-600 FT. IN LAPILLI TUFF WITH WEAK HEMATITE ALTERED MATRIX. MAGNETITE INCREASED TO MODERATE TO STRONG IN DARK CRYSTAL TUFF AT 600-628 FEET.

CPY OCCURS IN VEINLETS AND BLEBS TO 3MM IN QUARTZ VEINS.

PYRITE RUNS 5-8%. POORLY SORTED LAPILLI TUFF OCCURS 628-705 FEET WITH LAPILLI TO 3CM. QUARTZ VEINING STRONG FROM 680 FT. WITH ASSOCIATED LIGHT SERIC ALTERATIONS. LAPILLI GENERALLY COMPOSED OF MAGNETITE ALTERED CRYSTAL TUFF - SIMILARITIES WITH D-126 AT 750-762 - POSSIBLE CORRELATEABLE STRATIGRAPHY BETWEEN HOLES.

705.00

END OF HOLE.

DRILLHOLE/TRVERSE : D_125A

PROJECT IDEN : ILC
COLLAR NORTHING: 4407.80START DATE : 88/ 1/31
COLLAR EASTING : 28118.00
TOTAL LENGTH : 769.00COMPLETION DATE : 88/ 1/31
COLLAR ELEVATION: 1020.30
CORE/HOLE SIZE : NQGEOLOGGED BY : GAC + JAF
GRID AZIMUTH : 0.00

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
000	0.0		360.00	-45.00		
001	150.0		353.00	-41.00		
002	300.0		357.00	-44.50		
003	500.0		356.00	-46.50		
004	700.0		356.00	-46.50		

R HED RE-DRILL OF D-125.
R HED SOUTH WALL EXPANSION STABILITY HOLE - 2ND HOLE OF 1988 PGM.
R HED CASED THROUGH BEACH DUMP & OVERBURDEN (TILLS)

SUMMARY REMARKS

0 - 145
CASING - NO CORE RECOVERED.

145 - 148
TILL - MULTI-LITHIC CHUNKS INCLUDING KARNUTSEN AMYG BASALTS.

148 - 237
CHLORITE & CHLORITE/MAGNETITE ALTERED TUFFS, MOSTLY LAPILLI
WITH 50-60% OF SECTION HYDROTHERMALLY ALT'D TO GREY CHLORITIC
CLAYS & SERICITE. MAJOR STRUCTURES ARE ABSENT BUT
CHL/CLAY/SER ALT'D ZONES TO 15 - 20FT. THICK SIGNIFICANTLY
REDUCE ROCK STRENGTH.

237-351
SIMILAR TO 148-237, EXCEPT CLAY/CHL ALT'D ZONES ARE BROADER (UP
TO 40 FT. RUNS).

351-397
SLIGHTLY HEMATITIC, WEAKLY SILICIFIED WITH CONSIDERABLE
SERICITE ALT'N. FRAC IS LOW, BUT ROCK IS SOFT AND NOT HIGHLY
COMPETENT.

397-499
SIMILAR TO 148-237, GENERALLY LAP TUFFS WITH SHORT RUNS OF

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DRILLHOLE/TRVERSE : D_125A (CONTINUED)

SUMMARY REMARKS

COMPETENT, WEAKLY CHLORITE +/- MAGNETITE ALT'D TUFFS
INTERSPERSED IN MODERATELY CLAY ALT'D SOFT CRUMBLY CHLORITE +/-
SERICITE ALTERED ANDESITES.

499-540

CLAY/CHL & WK SERICITE ALT'D FAULT ZONE WITH SHEARS AT 5-30 DEG
TO C/A.

540-637

ANDESITE ASH & LAPILLI TUFFS WITH WEAK CHLORITE ALT THROUGHOUT
AND 20-30% OF SECTION MOD SERICITE ALTERED, USUALLY AS
ENVELOPES ON QZ VEINS. MINOR SLIPS & CLAY SEAMS ARE PRESENT,
AS WELL AS OCCASIONAL CPY/PY VEIN TO 2-3CM THICK.

637-736

CHLORITE & WEAK MAGNETITE ALTERED ASH-LAPILLI TUFF ANDESITES
WITH WEAK PERSISTENT ZEOLITE VEINING AND OCCASIONAL 3-10CM
THICK SLIP OR SHEAR.

736-769

BIOTITE/MAGNETITE ALTERED FINE TEXTURED (ASH TUF?)
BROWN/GREENISH ANDESITES. MODERATE QZ, QZ/MAG & POSS QZ.MO
VEINING WITH NOTEWORTHY INCREASE IN QZ & PY/CPY IN LAST 2 FT.

BHP-Utah Mines Ltd., Island Copper Mine
ILC

DRILLHOLE/TRVERSE : D_126

PROJECT IDEN : ILC
COLLAR NORTHING: 4673.40START DATE : 88/ 6/30
COLLAR EASTING : 29037.50
TOTAL LENGTH : 762.10
COMPLETION DATE :
COLLAR ELEVATION: 1031.20
CORE/HOLE SIZE : NQGEOLOGGED BY : JAF + JAF
GRID AZIMUTH : 0.00

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
000	0.0		310.00	-45.00		
001	100.0		312.00	-45.00		
002	300.0		316.00	-45.00		
003	500.0		317.00	-44.50		
004	700.0		317.00	-44.50		

SUMMARY REMARKS

0 - 15.0
CASING

15.0 - 136.0

COARSE ASH, SMALL LAPILLI AND X'AL TUFF, MED GREEN-GREY, WEAK TO MODERATELY FRACTURED, CHL-MAGNETITE-QUARTZ, MINOR SERICITE ALTERED. PYRITE 3-5%. SOME LAYERING OF CRYSTALS AT LOW ANGLE TO CORE AXIS. LAPILLI TUFF OCCURS AT 31-40, 44-68, 85-90 AND 128-136 FT.

136.0 - 142.0

LIGHT GREEN, GREYWACKE(?) OR COARSE ASH TUFF. EVEN GRADED, GRITTY LOOKING (REWORKED TUFF?), WITH A MULTILITHIC LATE STAGE BRECCIA (PHREATIC BRECCIA?) WITH SOME GFP FRAGS (INTRUSIVE BXX?) FROM 137.5 - 140.5 FT. VERY DISTINCTIVE UNITS - POSS MARKER HORIZON.

142.0 - 222.0

GREY-GREEN, MOD CHLORITE, WEAK-MODERATE MAGNETITE ALTERED LAPILLI TUFF WITH RUNS OF STRONG SERICITE ALTERATION ENVELOPES ON QUARTZ VEINS. ASH-CRYSTAL TUFF LAYERS OCCUR AT 142-154, 159-163, 180-184 FEET. PYRITE IS ABT 5%.

222.0 - 373.0

GREY-GREEN MODERATE CHLORITE, WEAK QUARTZ, MAGNETITE ALTERED, MODERATELY TO STRONGLY FRACTURED, SHEARED LAPILLI TUFF. ABOUT 50% OF SECTION IS HIGHLY SERICITE ALTERED ASSOCIATED WITH SHEARS AND QUARTZ VEINS. A VERY SOFT, BOUGY SHEAR OCCURS 225-239 FT. PYRITE RUNS 5-8%. SOME CPY VNS OCCUR IN QTZ VNS

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DRILLHOLE/TRVERSE : D_126 (CONTINUED)

SUMMARY REMARKS

AND SERIC ALTERED TUFF.

A PROBABLE FAULT OCCURS AT 292-294 FT. FROM 312-373 FT, ABOUT 60% IS HIGHLY FRACTURED WITH ABUNDANT SERICITE ENVELOPES ON QUARTZ-MOLY VEINS AND PYROPHYLLITE WITH MAIN ALT'D SECTIONS, 315-348 AND 360-373 FT.

373.0 - 476.0

GREEN-GRAY, WEAK MODERATELY FRACTURED, MOD-STRONG CHLORITE, MOD-MAGNETITE, QUARTZ ALTERED INTER LAYERED LAPILLI AND ASH TUFF. PYRITE ABOUT 5%; CPY OCCURS MAINLY DISSEM WITH PYRITE IN DARK CHL-MAGNETITE ALTERED PATCHES/CLASTS. SERICITE ALT'M ENVELOPES ON QUARTZ-MOLY VEINS COMPOSE <10% EXCEPT 409-476 FEET, WHERE ABT 50% OF TUFF SOFT, WHITE SERICITE ALTERED.

476.0 - 532.0

BROWNISH-GREEN, MODERATE CHLORITE-BIOTITE ALTERED, WEAK TO MODERATELY FRACTURED, HARD COMPACT, ASH AND CRYSTAL TUFF WITH MINOR LAPILLI SIZED CLASTS. INCREASED VEINING AND MICROVEINING TOWARDS BOTTOM CONTACT WITH QUARTZ (GREY AND MILKY QUARTZ), CALCITE AND ZEOLITE VEINS. PYRITE ABT 5%; CPY DISSEMINATED AT ABOUT 1%.

532.0 - 549.0

LIGHT GRAY, MEDIUM CHLORITE-QUARTZ-SERICITE +/-BIOTITE, +/-MAGNETITE ALTERED BRECCIA WITH FRAGMENTS OF TUFF, QUARTZ VEIN AND QUARTZ-FELDSPAR PORPHYRY-CONTACT ZONE WITH THE PORPHYRY PYRITE 3-5% AND SOME CPY IN THE REMNANT TUFF.

549.0 - 552.0

GREEN-GRAY, QUARTZ-CHLORITE-SERICITE ALTERED MEDIUM TO COARSE GRAINED QUARTZ-FELDSPAR PORPHYRY. MAFIC PHENOS ALT'D TO CHLORITE, SERICITE AND FELDSPAR PHENOS VAGUE DUE TO QUARTZ ALTERATION. BRECCIATION AND QUARTZ VEINING MARKS LOWER CONTACT.

552.0 - 604.0

SHEARED, BRECCIATED, VEINED, MICROVEINED, QUARTZ-CHLORITE +/-MAGNETITE, +/-BIOTITE (REMNAINT) ALTERED LAPILLI TUFF IS LOWER CONTACT ZONE OF PORPHYRY DYKE. PYR ABOUT 3%, SOME CPY. A FAULT OCCURS AT 582-587 WITH SHEARS AND BANDED GOUGE AT 20-30 DES C/A WITH 1-3% PYR.

604.0 - 699.0

DARK GRAY, MODERATE TO STRONG QUARTZ-CHLORITE-MAGNETITE ALTERED CRYSTAL TUFF (ANDESITE PORPHYRY?). PYRITE DISSEMINATED 3-5%, CPY OCCURS WITH PYRITE. SCATTERED GRAY QUARTZ VEINS W/O LT ALTERATION ENVELOPES. HARD, DENSE ROCK. SOME LAPILLI LAYERS OCCUR AT 637-651 FEET.

699.0 - 719.0

GREEN-GRAY TO LIGHT GRAY BRECCIA (LAPILLI TUFF?) COMPOSED OF POORLY SORTED TUFF, QUARTZ AND SILIC-TUFF FRAGS IN ASH SIZED

BHP-Utah Mines Ltd., Island Copper Mine
ILC

DRILLHOLE/TRVERSE : D_126 (CONTINUED)

S U M M A R Y R E M A R K S

MATRIX. MOST OF ROCK SOFT, FRIABLE WITH STRONG SERICITE
ALT'NS. PYRITE OCCURS TO +10%. GRAY AND WHITE QUARTZ VEINS BUT
BRECCIA.

719.0 - 750.0

MEDIUM-DARK GREEN COARSE LAPILLI TUFF, WITH ABOUT 50% IRREGULAR
CHLORITE-MAGNETITE ALTERED LAPILLI IN COARSE ASH MATRIX.
PYRITE <3% OCCURRING MAINLY AROUND FRAGS. INCREASED QUARTZ
VEINING AND CRACKLING 739-748 FEET.

750.0 - 762.0

DARK, QUARTZ-MAGNETITE-CHLORITE ALTERED CRYSTAL TUFF
(PORPHYRITIC ANDESITE?) AS AT 604-699 FEET. CUT BY GRAY QUARTZ
VEINS W/D ALTERATION ENVELOPES. PYRITE <4%.

762.0

END OF HOLE.

BHP-Utah Mines Ltd., Island Copper Mine
ILC

DRILLHOLE/TRVERSE : D_127

PROJECT IDEN : ILC
COLLAR NORTHING: 4406.70START DATE : 88/ 5/ 5
COLLAR EASTING : 27802.30
TOTAL LENGTH : 819.00COMPLETION DATE : 88/ 6/ 9
COLLAR ELEVATION: 1033.22
CORE/HOLE SIZE : NORECORDED BY : JAF +
GRID AZIMUTH : 0.00

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
000	0.0		360.00	-40.00		
001	200.0		357.50	-42.00		
002	400.0		357.50	-43.00		
003	600.0		359.00	-44.00		
004	800.0		359.00	-44.00		

SUMMARY REMARKS

0 - 142 CASING

142 - 164 OVERBURDEN

164 - 435 REDDISH-BROWN WEAKLY TO LOCALLY STRONG FRACTURED, CHLORITE-EPIDOTE-HEMATITE +/- SERICITE ALTERED PYRITIC, COARSE LAPILLI TUFF TO VOLCANIC BRECCIA. HEMATITE ALTERATION IS MODERATE TO STRONG FROM 183-224 FT., AND 338-410 FT. WITH HEMATITE MAINLY OCCURRING IN THE MATRIX. PYRITE AVERAGES 5-10% WITH DISSEMINATIONS GREATER THAN FRACTURE FILLINGS. A SOFT STRONGLY SERICITE ALTERED ZONE OCCURS AT 172-183 FT. TEXTURES VARY FROM AMYGDULAR, AND/OR WELDED TUFFS, CRYSTAL AND ASH TUFFS TO VOLCANIC BRECCIA/AGGLOMERATIC WITH THE COARSE VARIETIES PREDOMINANT MINOR CPY NOTED 255-291 IN MATRIX AND AS VEINLETS.

435 - 452 MEDIUM GREEN-GREY, WEAKLY FRACTURED, WEAK-MODERATE CHLORITE-EPIDOTE +/- MAGNETITE +/- SERICITE ALTERED, COARSE ASH TO SMALL LAPILLI TUFF. PYRITE CONTENT IS ABOUT 5%. GRADED BEDS ARE COMMON. THESE LAYERS ARE SIMILAR TO BEDS IN D_126 AT 136-143 FT., AND IN D_124 AND MAY BE MARKER HORIZONS, POSSIBLY VOLCANIC SEDIMENTS. HEMATITE ALTERATION IS IN THE FRAGMENTS.

452-465 DARK GREEN, MODERATE CHLORITE +/- MAGNETITE ALTERED, PYRITIC (5-10%) ASH-LAPILLI TUFF WITH CLOTS OF PYRITE 1-4 MM IN DIA. IN DARK PATCHES.

465 - 495 LIGHT GREY MODERATE-STRONG QUARTZ ALTERED LAPILLI TUFF IN A SILIC COARSE ASH MATRIX. POSSIBLY A WELD TUFF

DRILLHOLE/TRAVERSE : D_127 (CONTINUED)

SUMMARY REMARKS

MATRIX.

485 - 534 DARK REDDISH-GREN (HEMATITE-CHLORITE), WEAK FRACTURED, ASH-LAPILLI TUFF. TWO NARROW ZONES OF PHREATO-MAGMATIC BRECCIA.

534 - 543 TAN-GREEN, STRONGLY FRACTURED, SHEARED, SERICITE-PYROPHYLLITE ALTERED ASH TUFF. SOME SOFT MUDDY CORE.

543 - 630 REDDISH-GREEN-GREY COARSE ASH-LAPILLI TUFF. WEAK TO MODERATELY FRACTURED AND OFTEN HEALED BY CALCITE-ZEOLITE VEINS. ABOUT 30% OF SECTION HAS A PERVASIVE SERICITE ALTERATION ASSOCIATED WITH QUARTZ VEINS AND/OR SHEARS.

630 - 640 A WEAK SHEAR ZONE WITH STRONG SERICITE +/- PYROPHYLLITE ALTERATIONS. SHEARS ARE AT LOW ANGLE TO CORE AXIS WITH BROKEN AND DEFORMED CARBONATE-ZEOLITE VEINS.

640 - 670 MODERATELY FRACTURED, QUARTZ VEINED, MEDIUM GREEN-GREY COARSE ASH-FINE LAPILLI TUF. OVERALL ALTERATION = MODERATE CHL-SER-MAG. SOME PATCHY BIOTITE.

670 - 819

HIGHLY QUARTZ-VEINED, BIOD-CHL-MAG (+/- SERICITE) ALTERED TUFF. MIXED ASH-FINE LAPILLI TEXTURES ARE SOMEWHAT MASKED BY THE ALTERATIONS. TWO NOTABLE SERICITIC SHEARS, ONE AT 706' AND THE SECOND AT 804'. THE ROCK IS GENERALLY WEAK DUE TO THE HIGH DEGREE OF FRACTURING.

819 END OF HOLE.

BHP-Utah Mines Ltd., Island Copper Mine
ILC

DRILLHOLE/TRVERSE : D_128

PROJECT IDEN : ILC
COLLAR NORTHING: 4462.60START DATE : 88/ 2/29
COLLAR EASTING : 26200.00
TOTAL LENGTH : 1100.00COMPLETION DATE : 88/ 3/10
COLLAR ELEVATION: 1041.70
CORE/HOLE SIZE : NQGEOLOGGED BY : JAF +
GRID AZIMUTH : 0.00

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
000	0.0		360.00	-45.00		
001	150.0		8.00	-48.00		
002	300.0		5.00	-49.50		
003	500.0		4.00	-52.00		
004	700.0		360.00	-53.50		
005	900.0		2.00	-53.50		

SUMMARY REMARKS

0 - 100 TRICONED THROUGH BEACH DUMP AND TILL - NO CORE.
 100 - 122 TILL COBBLES OF ANDESITE, BASALT, DIORITE ETC. WITH CLAY CEMENT.
 122 - 232 STRONG EPIDOTE +/- CHLORITE ALTERED ANDESITES, PRIMARILY LAPILLI TO ASH TUFFS WITH MINOR PORPHYRITIC ANDESITE. SEVERAL SHORT BRECCIA RUNS MAY BE PEBBLE DIKES. 2-3% TOTAL SULPHIDES.
 232 - 240 BRICK RED HEMATITE MATRIX LAPILLI TUFF.
 240 - 338 SIMILAR TO 122 - 232. MINOR SPHALERITE NOTED - DISSEMINATED AND ASSOCIATED WITH ZEOLITE. LOCAL AMYGDALOIDAL TEXTURES.
 338 - 392 VOLCANICLASTIC ANDESITES AS ABOVE. WEAK TO MODERATE EPIDOTE, INCREASED SERICITE AS OCCASIONAL ENVELOPES AND WEAK MATRIX ALTERATION.
 392 - 460 STRONG SERICITE ALTERED ANDESITE TUFFS AND PORPHYRIES. SEVERAL WEAK CLAY ALTERED ZONES AND/OR FAULTS. MISSING CORE AT 460 - PROBABLY A FAULT ZONE.
 460 - 491.5 MODERATE CHLORITE ALTERED ANDESITE TUFF WITH LOCAL HEMATITE.
 491.5 - 494 MODERATE TO STRONG SERICITE ALTERED QUARTZ-FELDSPAR PORPHYRY.
 494 - 525 STRONG CLAY-SERICITE ALTERED ANDESITE TUFFS.
 525 - 526 CLAY-SERICITE FAULT BRECCIA ZONE.
 526 - 660 FINE TO COARSE ANDESITE TUFFS AND MINOR FLOWS WITH WEAK CHLORITE +/- EPIDOTE ALTERATION. SHORT INTRUSIVE BRECCIA RUNS, OCCASIONALLY WITH CHALCOPYRITE. SERICITE (+ PYROPHYLLITE?) 605-611. SEVERAL SMALL STRUCTURES.

BHP-Utah Mines Ltd., Island Copper Mine
ILC

DRILLHOLE/TRAVERSE : D_128 (CONTINUED)

SUMMARY REMARKS

660 - 672.5 STRONG SERICITE ALTERATION ASSOCIATED WITH MAJOR
FAULT 667.5-672.5.
672.5 - 733.5 INTENSE SERICITE/CHLORITE/CLAY ALTERED ZONE WITH
SEVERAL SHEAR ZONES IN CRUDDY LOOKING ROCK. SHARP LOWER
ALTERATION CONTACT IS LIKELY A FAULT.
733.5 - 842 WEAK-MODERATE CHLORITE/SERICITE ALTERED ANDESITE
LAPILLI TUFFS. COMPETENT ROCK WITHOUT MAJOR STRUCTURES.
842 - 852 WEAK FAULT ZONES IN ANDESITE TUFFS. WEAK SERICITE
ALTERATION & CLAY ON SHEARS.
852 - 928
ANDESITE TUFFS WITH WEAK CHLORITE/MAGNETITE ALTERATION AND
MODERATE CARBONATE/ZEOLITE VEINING.
928 END OF HOLE

BHP-Utah Mines Ltd., Island Copper Mine
ILC

DRILLHOLE/TRVERSE : D_129

PROJECT IDEN : ILC
COLLAR NORTHING: 4447.80START DATE : 88/ 3/11
COLLAR EASTING : 26111.60
TOTAL LENGTH : 600.00COMPLETION DATE : 88/ 3/14
COLLAR ELEVATION: 1042.18
CORE/HOLE SIZE : NQGEOLOGGED BY : GAC +
GRID AZIMUTH : 0.00

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
000	0.0		230.00	-49.00		
001	200.0		229.00	-48.50		
002	400.0		230.00	-49.00		

F - I N T E R V A L - K L (UNITS = FT)	CORE RECOV- ERY (%)	Z M ROCK I X TYPE	TYPI- BAL M ROCK TM TM 1 2 QM1	TEX- FUNG TX TX 1 2 F F C P	GRAIN FRAC- TURES CHARACS TURE # TK	STRUCTUR-1 T ID STK 1 AZM RT	ALTERATION A A A A BZ BI CY CB	MING A A A A MG XX PY	DRE-TYPE A A A A CP GL YY	MINS A A A A SUMMARY
Y 6 F R O M - T O	ROCK	FOR EN RT	TM QM2 TX TX	S R S Q	DIP F	T ID STK 2 AZM RT	KE MU CL EP HE HA PR	MO SL HA		
K F	QUAL	MEM V Q LC- 3	3 4 0 N H /	SML I			H H H H H H H H			
E L	DESIG	AGE	COL	R D P C		STRUCTUR-2	A A A A A A A A			
Y 6										

S U M M A R Y R E M A R K S

0 - 101 CASING THROUGH BEACH & TILL
 101 - 150.5 STRONG EPIDOTE ALT'D PORPH'C ANDES WITH WK
 HEMATITE.
 150.5 - 160 MOD SER/CHL ALT'D ANDESITE WITH MINERALIZED (ZINC)
 BXA AT TOP.
 160 - 176 SERICITE/CLAY/HEMATITE ALTERED FAULT ZONE; SOUGE
 ZONE 170 - 176 IS TOO SMALL TO REPRESENT END CK. FAULT.
 176 - 250 CHLORITE/EPIDOTE ALT'D ANDES TUFFS WITH WEAK
 SERICITE TO 210.5. 2-3 SMALL 30 CM SHRS & SEVERAL 15 CM
 MASSIVE ZN/CU SULPH VNS.
 250 - 282 WEAK CHL/EPI ALT'D ANDES PORPHYRY.
 282 - 425 EDH

WEAK EPIDOTE ALT'D ANDES LAP TUFFS WITH V SLIGHT HEM STN.
 353.5 - 425 MAY REPRESENT MUDFLOW DEPOSIT.

DRILLHOLE/TRVERSE : D 130

PROJECT IDEN : ILC
COLLAR NORTHING: 4409.40

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START DATE      : 88/ 3/16
COLLAR EASTING  : 27097.60
TOTAL LENGTH    : 814.00
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COMPLETION DATE : 88/ 3/22
COLLAR ELEVATION: 1035.09
CORE/HOLE SIZE : NR

GEOLDSSED BY : SAC +
 GRID AZIMUTH : 0.00

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
000	0.0		360.00	-45.00		
001	200.0		357.00	-44.50		
002	400.0		356.00	-45.00		
003	600.0		356.00	-46.00		
004	800.0		353.00	-47.00		

F - I N T E R V A L -				CORE										STRUCTURE-1 ALTERATION MINS										ORE-TYPE MINS									
X L (UNITS = FT)				RECOV-ERY										H H H H H ANY H H H ANY																			
E A				I										T ID STK DIP A A A A A MIN A A A MIN																			
Y 6 F R O M - T O				(%)										1 AZM RT QZ BI CY CB MG XX PY CP GL YY										SUMMARY									
-----,-----,-----				-----,-----,-----										-----,-----,-----										-----,-----,-----									
K F				ROCK FOR EN RT										T ID STK DIP KF MU CL EP HE HA PR MD SL NA																			
E L				QUAL MEM V Q LC- 3										2 AZM RT H H H H H H H H																			
Y 6				DESIG AGE COL										STRUCTURE-2 A A A A A A A A																			

S U M M A R Y R E M A R K S

0 - 101.5 DUMP MATERIAL & TILL - NO CORE.
101.5 - 343 ASSORTED VOLCANICLASTIC TUFFS VARYING FROM ASH TO
CSE LAPILLI TEXTURE. MODERATE TO STRONG EPIDOTE ALT'N
THROUGHOUT. HEMATITE STAINING IS COMMON WITH STRONG HEMATITE
IN PURPLE SECTIONS 224-229, 253-256, 325.5-347. NO MAJOR
STRUCTURES & SERICITE ALTERATION IS SPORADIC & WEAK.
343 - 620 ANDESITIC TUFFS & PORPHYRIES WITH GENERALLY
WEAK-MODERATE CHLORITE +/- EPIDOTE ALTERATION. SERICITE ALT'N
ENVELOPES ARE WEAK BUT PRESENT, AND INCREASE WITH DEPTH.
PYROPHYLLITE/DUMORTIERITE OCCURS AT 606 - 608.5.
620 - 735.5 GENERALLY LAPILLI TUFFS WITH MOD-STRONG SERICITE
ALTERATION OCCURRING AS ENVELOPES ON FRACTURES & VEINLETS.
SERICITE OVERPRINTS A PERY MOD-STR CHL ALTERATION OF THE TUFFS.
MINDR CLAY ALT'D STRUCTURES @ 684 - 687.
735.5 - 740 CRUSHED, CLAY ALT'D BXA ZONE WITH MODERATE
SERICITE & POSSIBLE PYROPHYLLITE APPEARS TO BE A FAULT,
POSSIBLY REPEATING THE OVERLYING SECTION.
740 - 814 EDH

CHLDRITE/MAGNETITE & WEAK SERICITE ALTERED SECTION OF COARSE
LAPILLI TUFFS AND MINOR PORPHYRIES. NO MAJOR STRUCTURES.

BHP-Utah Mines Ltd., Island Copper Mine
ILC

DRILLHOLE/TRVERSE : D_131

PROJECT IDEN : ILC
COLLAR NORTHING: 4374.40START DATE : 88/ 3/25
COLLAR EASTING : 26714.90
TOTAL LENGTH : 309.00COMPLETION DATE : 88/ 3/30
COLLAR ELEVATION: 1036.00
CORE/HOLE SIZE : NQGEOLOGGED BY : SAC +
GRID AZIMUTH : 0.00

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
000	0.0		230.00	-45.00		
001	250.0		231.00	-46.50		

F - INTERVAL - K L (UNITS = FT) E A Y G FROM - TO	CORE RECOV- ERY (%)	Z M ROCK I X TYPE	TYPI- DAL TM TM 1 2 QM1	QAL FYING TX TX 1 2 F F C P	TEX- MIN S R S O DIP F	GRAIN CHARACS TURE SML I R D P C	STRUCTUR-1 T ID STK 1 AZM RT	ALTERATION A A A A M U C L E P H E H A A A A	MINS H H H H A A A A MIN A A A MIN	ORE-TYPE H H H H A A A A GL YY	MINS H H H H A A A A SUMMARY
ROCK QUAL DESIG	FOR EN MEM V AGE	RY Q LC- 3 COL	TM QM2 3 4 D N H /	TX TX S R S O DIP F	SML I R D P C	STRUCTUR-2					

SUMMARY REMARKS

0 - 110.3 TRICONED/CASED THROUGH BEACH DUMP & TILL.
 110.3 - 133.3 SLIGHTLY HEMATITIC, CHLORITE/SERICITE ALT'D LAP TUFF COMPRISED OF PORPHYRITIC ANDES CLASTS. WEAK EPIDOTE ALTERATION.
 133.3 - 239 CHLORITE-EPIDOTE ALTERED ANDESITE PORPHYRY WITH SOME SECTIONS BRECCIATED. LOCAL WEAK HEMATITE STAINS. MINOR SERICITE ALTERATION, FAULT (?) BRECCIA ZONE 182 - 185. STRONG SERICITE ALTERED BRECCIA (TUFF?) ASSOCIATED WITH NARROW FAULTS @ 239 AND 247.
 249 - 277 INTENSE HEMATITE ALTERED FRIABLE FG ANDES (?) ASH SIZE TUFF (?) WITH SHORT RUN OF HEMATITE/CHLORITE ALT'D LAPILLI TUFF.
 277 - 298 ANDESITE LAPILLI TUFF. WEAK CHLORITE ALT'N & MINOR EPIDOTE AND HEMATITE PRESENT.
 298 - 309 EDH

PROBABLE FAULT. CLAY/CHLORITE/GOUGE TO 304, ENTIRE SECTION SHASHEO TO BITS, 20% RECOVERY, BAD DRILLING.

DRILLHOLE/TRAVERSE : D_132

PROJECT IDEN : ILC
COLLAR NORTHING: 4469.60START DATE : 88/ 7/15
COLLAR EASTING : 26765.00
TOTAL LENGTH : 943.00COMPLETION DATE : 88/ 7/20
COLLAR ELEVATION: 1036.30
CORE/HOLE SIZE : NBBEDLOGGED BY : GAC +
GRID AZIMUTH : 0.00

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
000	0.0		53.00	-45.00		
001	100.0		53.00	-46.00		
002	300.0		52.00	-48.00		
003	500.0		52.00	-50.00		
004	700.0		61.00	-51.00		
005	900.0		53.50	-51.00		

SUMMARY REMARKS

0 - 85 CASING THROUGH BEACH DUMP AND TILL - NO CORE
 85 - 290 STRONG TO VERY STRONG EPIDOTE ALTERED ANDESITE TUFFS.
 DOMINANTLY LAPILLI WITH SOME ASH AND INCLUDING MINOR
 PORPHYRITIC FLOWS AND CLASTS. 2-3% PYRITE WITH OCCASIONAL
 DISSEMINATED AND/OR VEINLET SPHALERITE. FIRM COMPETENT CORE
 WITHOUT SIGNIFICANT STRUCTURES.
 290 - 390 ANDESITE VOLCANICLASTICS AND MINOR PORPHYRY WITH ASH
 AND LAPILLI SIZE UNITS. WEAK TO MODERATE EPIDOTE/CHLORITE
 ALTERATION WITH NUMEROUS 6-18" GREY SERICITIC ZONES OFTEN
 ASSOCIATED WITH WEAK SLIPS OR CLAY SEAMS. 1-2% PYRITE
 DISSEMINATIONS AND FRACTURE FILLINGS.
 NB: SCATTERED THROUGH THE HOLE ARE SEVERAL INTRUSIVE BRECCIA
 SECTIONS IN LENGTHS FROM 2 CM TO 4 M WITH MAJORITY ABOUT 2 M.
 THESE CONSIST OF SUBANGULAR TO SUBROUNDED FRAGMENTS OF ASSORTED
 TEXTURE AND ALTERATIONS OF ANDESITE, QUARTZ FELDSPAR PORPHYRY
 AND OCCASIONALLY QTZ OR QTZ VEIN FRAGMENTS UP TO 10-15 CM BUT
 MOSTLY 1-2 CM SET IN A PYRITIC CHLORITIZED MATRIX. THESE ARE
 FOUND AT 330-342, 403-409, 456-472, 632-633, 703-704.
 390 - 508 PREDOMINANTLY CHLORITE OR CHLORITE/SERICITE ALTERED
 ANDESITE TUFFS, MAINLY 5-20 MM SIZE LAPILLI WITH 10-20% LITHIC
 OR FINE ASH. MODERATE SERICITE ALTERATION IS ASSOCIATED WITH
 WEAK STRUCTURES AND INTRUSIVE BRECCIAS DESCRIBED BELOW. 2%
 DISSEMINATED AND VEINLET PYRITE AND MINOR ZINC (2% OVER 1 FT @
 392-393). FAULT AT 429.5-433.
 508 - 635 ANDESITE LAPILLI TUFFS WITH 70% OF SECTION STRONGLY
 SERICITE ALTERED WITH PATCHY PYROPHYLLITE AND RARE DUMORTIERITE
 TO 550. CLAY ALTERED POSSIBLE FAULTS AT 508-512, 547.5-551.

DRILLHOLE/TRAVERSE : D_132 (CONTINUED)

SUMMARY REMARKS

THE REMAINING 30% OF SECTION IS MODERATE TO STRONG SERICITE CHLORITE ALTERED COARSE LAPILLI TUFFS. SULPHIDES ARE MINOR LIMITED TO THE CHLORITIC CLASTS AND OCCASIONAL FRACTURE IN THE SERICITIZED ZONES.

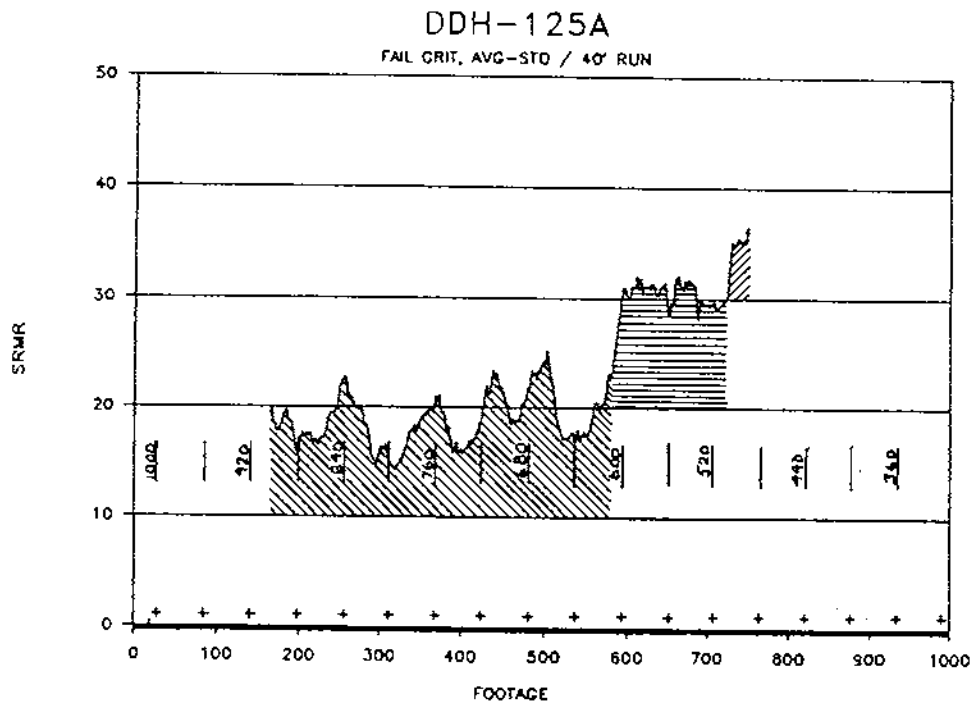
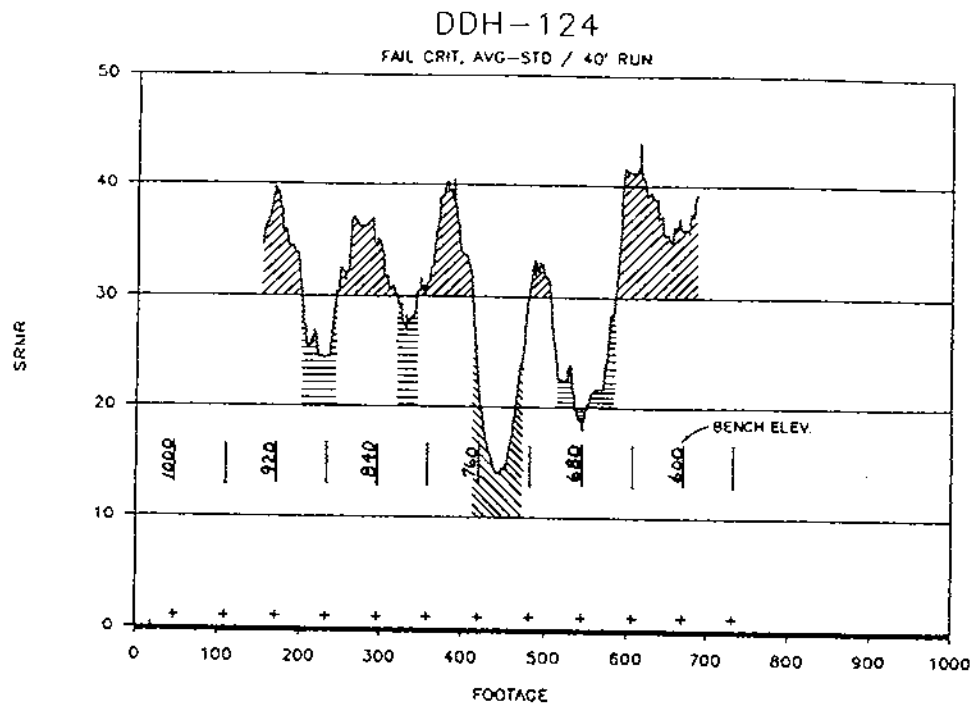
635 - 702 VERY WELL DEVELOPED ANDESITE LAPILLI TUFFS WITH DARK CHLORITE +/- PYRITE ALTERED CLASTS IN MED-GREY MATRIX. WEAK ZEOLITES AND LOCAL SERICITE ENVELOPES.

702 - 715 STRONG SERICITE AND POSSIBLE PYROPHYLLITE IN A FRACTURED ZONE - FAULT ?

715 - 849 MODERATE CHLORITE/MAGNETITE ALTERED ANDESITE LAPILLI TUFFS CUT AT IRREGULAR INTERVALS (15 - 30 FT) BY SERICITE ALTERATION ZONES OFTEN WITH CLAY AND/OR GOUGE, ALTERATION ZONE 1-5 FT THICK AND ARE VERY WEAK IF NOT ACTUAL FAULTS.

849 - 943 MODERATE TO STRONG MAGNETITE/CHLORITE ALTERED ANDESITE TUFFS AND SOME PORPHYRIES. LESS MAGNETITE IN LOWER PORTION WEAK STRUCTURES AT 896-900, 918-922. 1 FT. BRECCIA DIKE AT 936.

943 END OF HOLE



BHP - UTAH MINES LTD.

ISLAND COPPER MINE

DATE
AUG. 1988

PROJ. NO. 50108

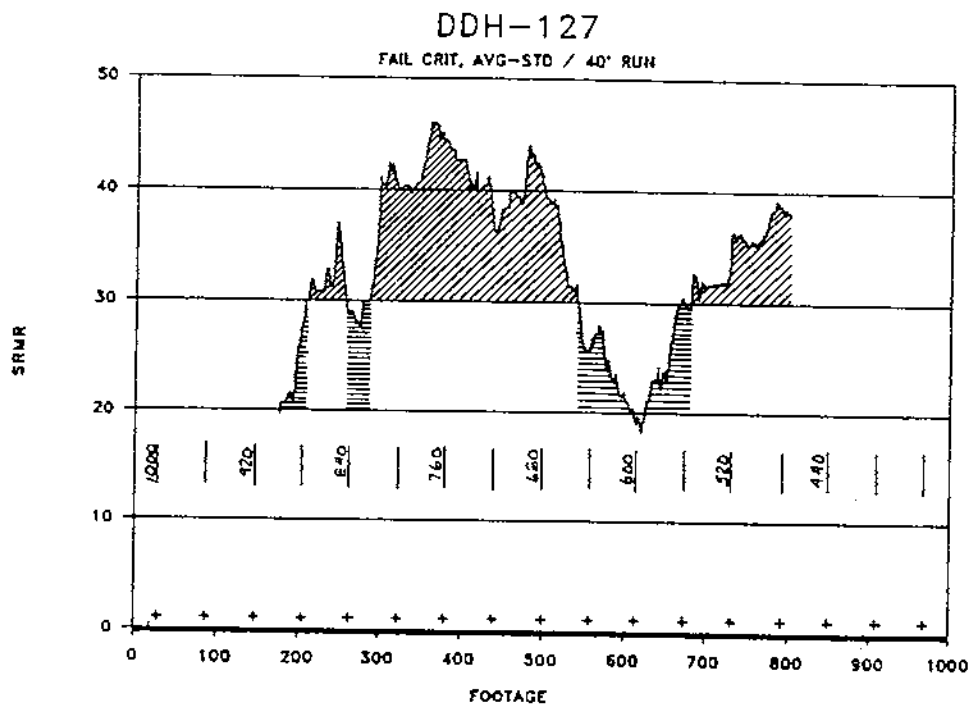
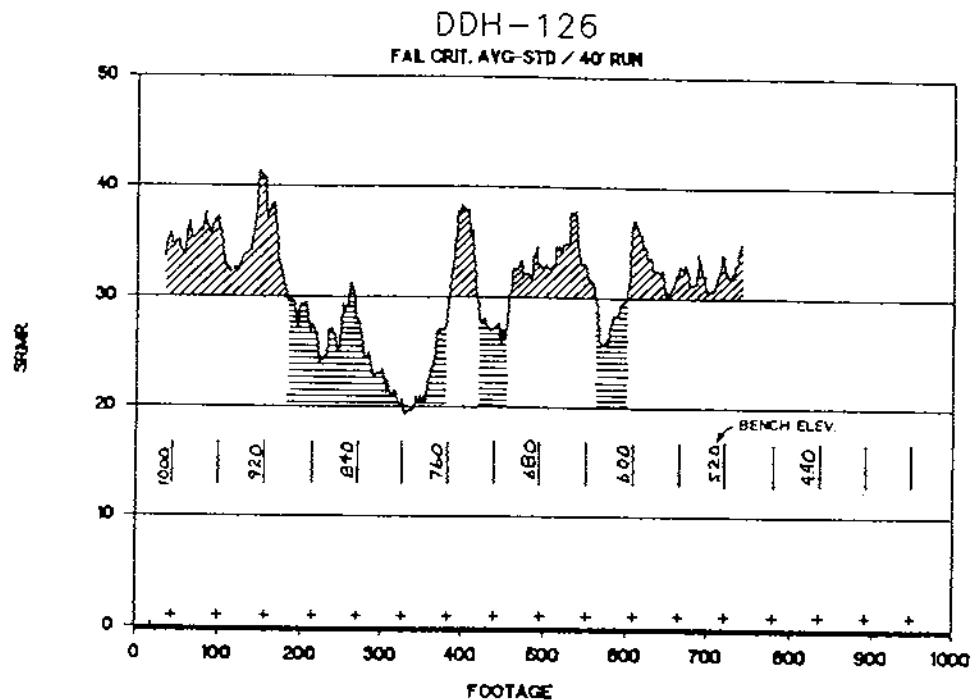
APPROVED

NO.

BOREHOLE SRMR LOGS

STEFFEN ROBERTSON & KIRSTEN, Consulting Engineers

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BHP-UTAH MINES LTD.

ISLAND COPPER MINE

DATE
AUG. 1988

PROJ. NO. 50108

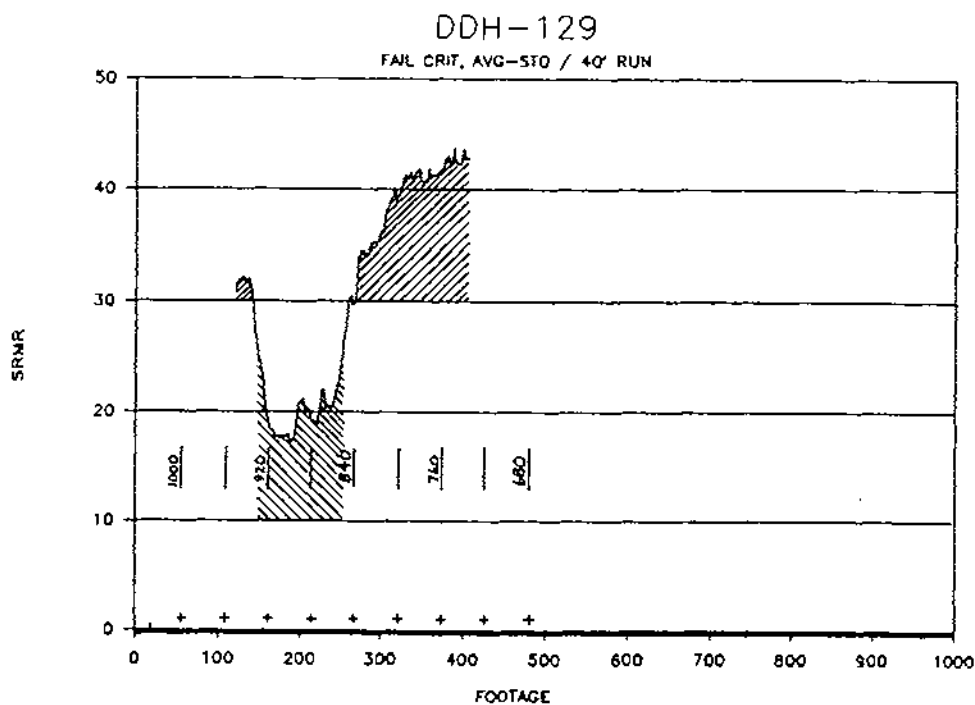
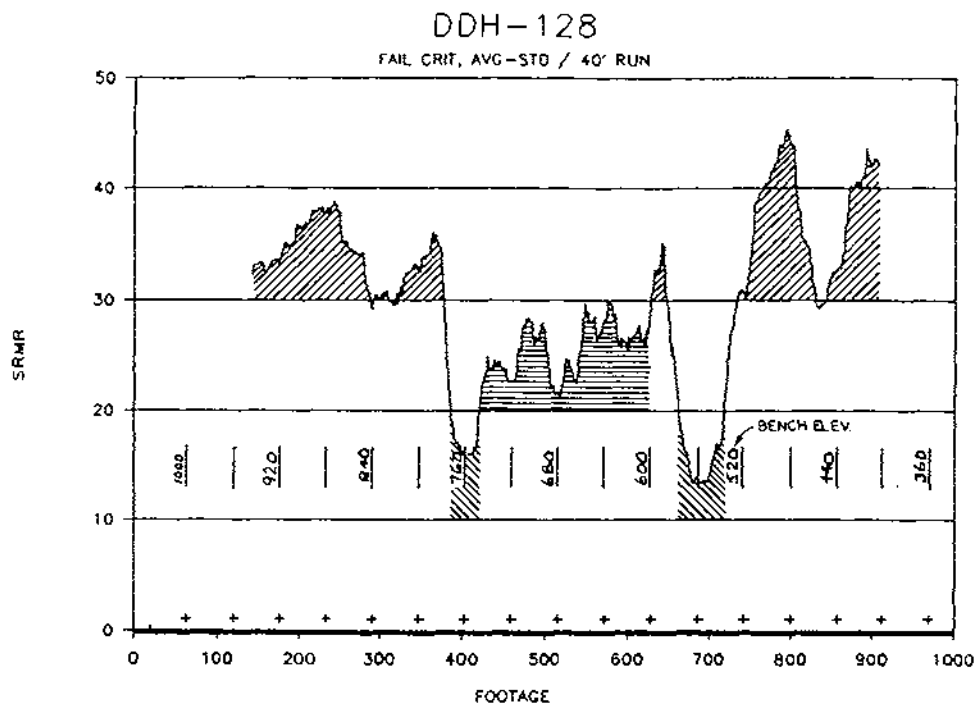
APPROVED

NO.

BOREHOLE SRMR LOGS

STEFFEN ROBERTSON & KIRSTEN, Consulting Engineers

35



BHP - UTAH MINES LTD.

ISLAND COPPER MINE

DATE
AUG. 1988

PROJ. NO.
50108

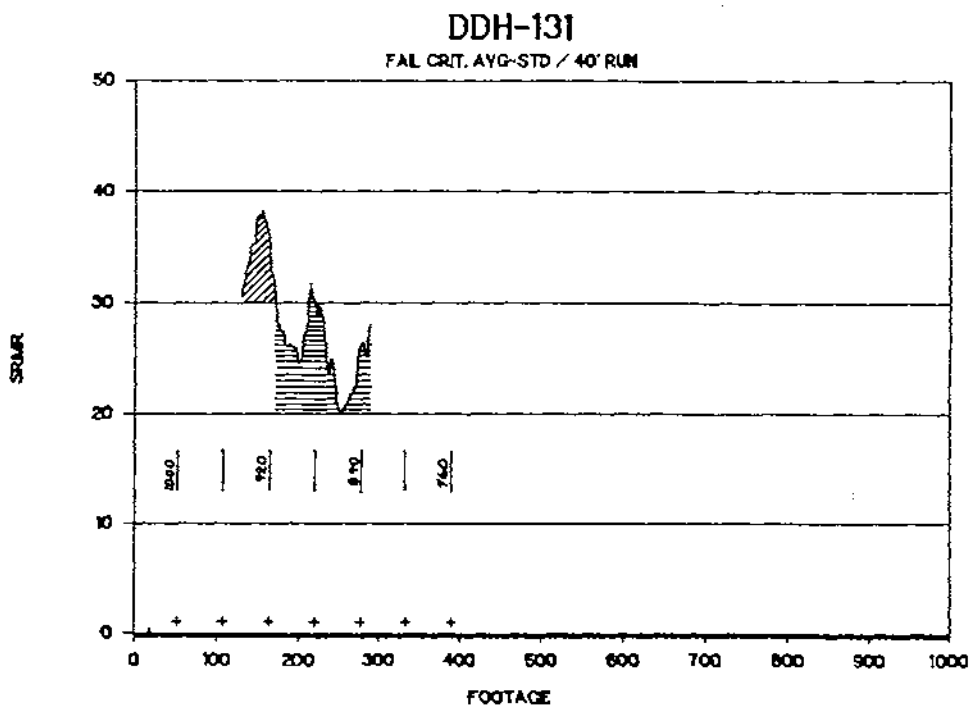
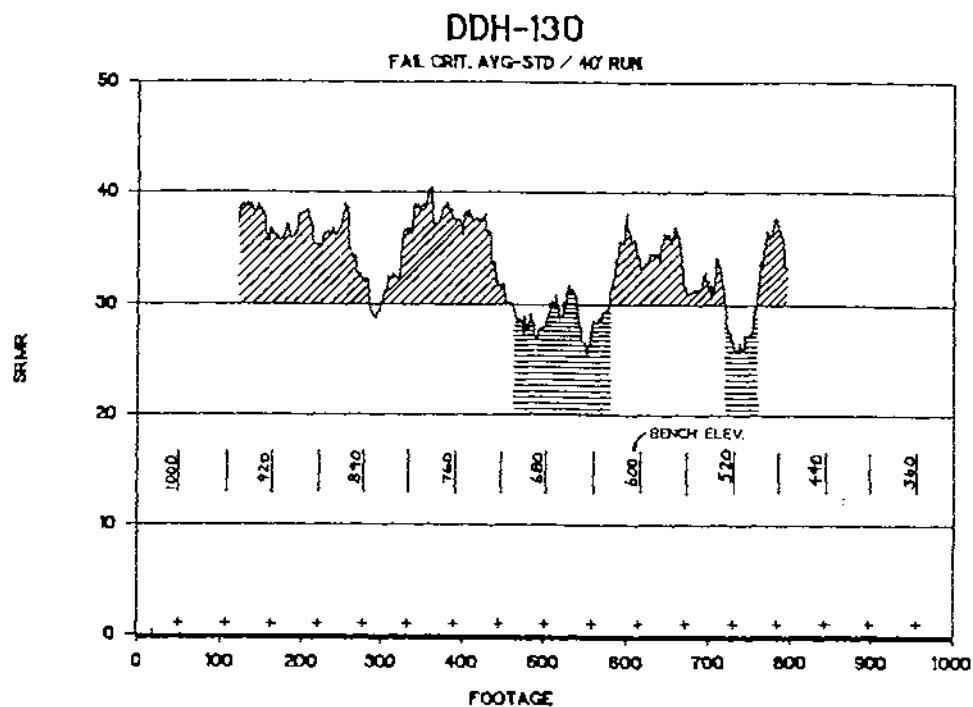
APPROVED

NO.

BOREHOLE SRMR LOGS

36

STEFFEN ROBERTSON & KIRSTEN, Consulting Engineers



BHP - UTAH MINES LTD.

ISLAND COPPER MINE

DATE
AUG. 1988

PROJ. NO. 50108

APPROVED

NO.

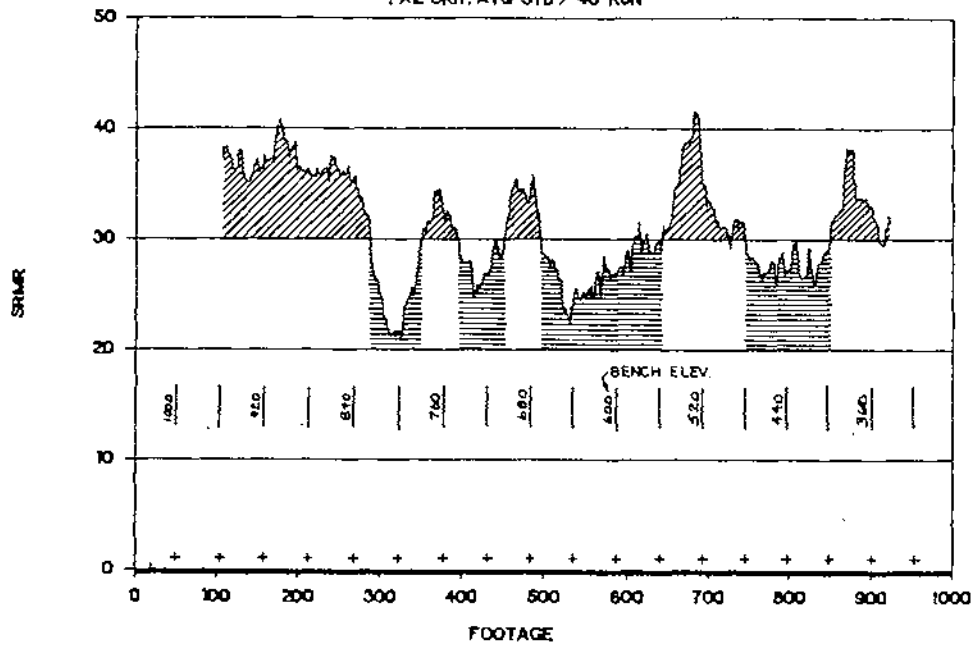
BOREHOLE SRMR LOGS

37

STEFFEN ROBERTSON & KIRSTEN, Consulting Engineers

DDH-132

FAL CRIT. AVG-STD / 40' RUN



BHP-UTAH MINES LTD.

ISLAND COPPER MINE

DATE
AUG. 1988

PROJ. NO. 50108

APPROVED

NO.

BOREHOLE SRMR LOGS

38

STEFFEN ROBERTSON & KIRSTEN, Consulting Engineers

Appendix B

GEOLOG CODES

2/81 - SCALE: LIGHTNESS L-card col 18

ROCK CODE	P-card col 24-27
ALTN	ALTERED ROCK - LITH. UNCERTAIN
APLI	APLITE DYKE
BRXX	BRECCIA: UNDIFFERENTIATED
BS/O	ANDESITE TO BASALT DYKE
BVAB	BONANZA ANDESITE BRECCIA
BVAP	BONANZA ANDESITE BRECCIA
BVAG	BONANZA AGGLOMERATES
BVAN	BONANZA ANDESITE UNDIFF.
BVAT	BONANZA ANDESITE TUFF
CASN	CASING IN BED ROCK, NO CORE
COVR	COVERED AREA
CRCS	CRETACEOUS CONGLOMERATE
CRSD	CRETACEOUS SEDIMENTS - UNDIFF.
FAUL	FAULT (GOUGE ZONE 1 FT.)
INBX	INTRUSIVE BRECCIA - UNDIFF.
ISDR	ISLAND INTRUSIVES DIORITE
ISGD	ISLAND INTRUSIVES GRADIORITE
ISQD	ISLAND INTRUSIVES QUARTZ DIORITE
ISQM	ISLAND INTRUSIVES QUARTZ MONZONITE
KHBA	KARHUTSEN VOLCANICS - UNDIFF.
KHLS	KARHUTSEN LIMESTONE
MARB	MARBLE; CRYSTALLINE LIMESTONE
MATR	MATRIX DESCRIPTION
MISH	MISSING CORE (CORE NOT AVAILABLE)
OVER	OVERBURDEN
PBL5	PARSONS BAY LIMESTONE
PBSD	PARSONS BAY SEDIMENTS
PBTU	PARSONS BAY TUFF
PBUS	PARSONS BAY VOLC. AND/OR SEDS.
PPAN	BONANZA ANDESITE PORPHYRY
PPDR	QUARTZ DIORITE TO DIORITE PORP.
PPFI	FELOSPAR PORPHYRY DYKE
PPGD	GRANDIORITE PORPHYRY DYKE - I
PPHB	KORNBLENDE PORPHYRY
PPQF	QUARTZ-FELOSPAR PORPHYRY DYKE
PPOM	QUARTZ MONZONITE PORPHYRY DYKE
QALS	QUATZINO LIMESTONE
QTEV	QUARTZ VEIN
RSQD	RUPERT STOCK GRANDIORITE
RSQM	RUPERT STOCK QUARTZ MONZONITE
SAND	SAND (ASSOCIATED WITH FAULT)
SKAR	SKARNIFIED/ALTERED
STKP	CASING ABOVE GROUND
TILL	GLACIAL TILL

TYPIFYING MINERALS	P-card col 28-30, 32-34
AK	ANKERITE, FR DOLOMITE
AP	APATITE
BI	BIOTITE
CB	CARBONATE
CL	CHLORITE
CY	CLAY
DU	DUMORTIERITE
EM	ENARGITE (?)
FL	FLUORITE
FR	ROCK FRAGS - UNDIFFERENTIATED
FX	FELDSPAR PHENOCRYST
GA	GARNET
GC	GOUGE
GI	GILSONITE
GY	GYPSON
HB	HORNBLende
IF	INTRUSIVE FRAGMENTS
LA	LAUNOMITE
MC	MALACHITE
MG	MAGNETITE
MR	MARIPOSITE
MS	SERICITE
MI	MAFIC PHENOCRYSTS
PP	PHYROPHYLLITE
PX	PHYROXENE
QF	QUARTZ FRAGMENT
QZ	QUARTZ
RP	ROCK FRAGMENT
TC	TALC
VF	VOLCANIC FRAGMENTS
X1	ENARGITE
X2	UN ID
X3	UN ID
X4	SOFT GRAY GYPSUM (?)
X5	BRN CHLORITE (?)
X6	BRN BIOTITE (?)
X7	SOFT BK HYDROCARB (?)
X8	GRN CALC-SILICATE
ZE	ZEOLITE

FORMATION	L-card col 21-23
BV	BONANZA VOLCANICS - TUFFS/FLOW
KH	KARHUTSEN FORM: BASALT & SED
PR	PARSONS BAY FORM: SEDS & VOLCS
QL	QUATZINO FORM: LST & VOLC. RD

TEXTURE	P and L cards 36-36, 37-38
SS	SLICKENSIDES
O.	
CC	MICROVEINED
A*	AMYGDALOIDAL
AN	APHANITIC
AP	APLITIC
AR	ARGILLACEOUS
BD	BEDDED
BN	BANDED
BR	BRECCIATED
CH	CHILLED MARGIN
CT	CLASTIC
EQ	EQUIGRANULAR
EU	EUBEDRAL
FO	FOLIATED
FR	FRAGMENTAL
G1	GRADED BEDDING
GO	GOUGED
ER	CRACKLED
LM	LAMINATED
LT	LITHIC TUFF
MX	MASSIVE
MY	MYLONITIC
P/	PORPHYRITIC TEXTURE - VAGUE
PB	PORPHYROBLASTIC
PP	PORPHYRITIC
PT	PATCHY
RA	ASYMMETRICAL
SH	SHEARED
SU	SUBBEDRAL
SW	STOCKWORK
T/	TUFFACEOUS (VAGUE/??)
UT	UNIFORM TEXTURE
V/	VEINED
VG	VUGGY
VV	VEINED

ROCK QUALITY	L-card col 26-27
AG	AGGLOMERATE: RDD FRAGS > 64 MM
AS	ASH TUFF: FRAGS 1/4 - 4 MM
LP	LAPILLI TUFF: FRAGS 4 - 64 MM
LT	LITHIC TUFF: RX FRAGS < 64 MM
VB	VOLCANIC BR: ANG FRAGS > 64 MM
XL	CRYSTAL TUFF: FRAGS & CRYSTALS

C-SCALE: COLOUR CODES	L-card col 28
A	GRAY
B	BLUE
C	GREEN
N	BLACK
O	ORANGE
P	PURPLE
R	RED OR PINK
T	TAN
U	BROWN
W	WHITE

F-SCALE	L-card col 46
0	0 UNFRACTURED
1	1 SLIGHTLY FRACTURED
2	2 VERY LIGHTLY FRACTURED
3	3 LIGHTLY FRACTURED
4	4 FAIRLY LIGHTLY FRACTURED
5	5 MODERATELY FRACTURED
6	6 FAIRLY WELL FRACTURED
7	7 WELL FRACTURED
8	8 VERY WELL FRACTURED
9	9 EXTREMELY WELL FRACTURED
X	55+ SHATTERED

HOW-SCALE	P.L. cards, col 40-41
0	FRESH, PRIMARY ROCK
1	A, MINOR AND/OR SCAT. C
2	MACROVEINS AND VEINS
3	VEINS, SPOTS OR PATCHES
4	VEINS, AND/OR OCCAS. ENVE
5	VEINS, AND/OR ABUNDANT EN.
6	P OR D LESS THAN <, S AND
7	P OR D EQUAL TO <, S AND
8	P OR D GREATER THAN <, S
9	P OR D, V, <, S AND E
	MICROVEINS, FRACTURE FILL
	MACROVEINS
C	COATINGS & ENCRUSTATIONS
D	DISSEMINATIONS, SCAT. CRY
E	ENVELOPES
F	FRAGMENTS (EG: SULPHIDE FRAGS)
K	STOCKWORK
L	LAMINATIONS/BEDDING
P	PERVASIVE
Q	PATCHES, AS IN QUILTS
S	SELVAGES
T	STAININGS, AS IN TARNISH
V	VEINS
X	R AND/OR S, M AND/OR L
Z	MASSIVE, LAMINATED/BEDDED

MOO3-SCALE: INTENSITY	P.L. cards, cols 34, 35, 36, 37, 38
-	3 to < 7
(	.05 to <.2
8	.2 to <.5
+	2 to < 3
-	.02 to <.05
/	TRACES = .02
/	PRESENT: ESTIMATE IMPOSSIBLE
0	NIL, ABSENT
1	7 to < 15
2	15 to < 25
3	25 to < 35
4	35 to < 45
5	45 to < 55
6	55 to < 65
7	65 to < 75
8	75 to < 85
9	85 to < 99
?	POSSIBLY PRESENT
X	ESSENTIALLY 100%

STRUCTURE ID ENTRIES (SID)	P and L cards col 49-50
CC	MICROVEINED
BD	BEDDING
BN	BANDING
C/	CONTACT
F/	FAULT
FO	FOLIATION
PL	FAULT - GOUGE > 1 FT THICK
S/	SHEAR ZONE
SH	SHEAR
SR	SHEAR
SW	STOCKWORK
V/	MISC. VEINS
VA	QUARTZ PYRITE VEIN
VB	QUARTZ CARBONATE
VC	VEIN, CLAY
VF	MAGNETITE VEIN (LST)
VH	CHALCOPYRITE VEIN
VL	CALCITE VEIN
VK	QUARTZ MOLT VEIN
VP	VEIN, PYRITE
VQ	VEIN, QUARTZ
VT	QUARTZ MAGNETITE
VY	VEIN, PYROPHYLLITE
VE	ZEOLITE VEIN

ENVIRONMENT	L-card col 79
1	CHLORITE-EPIDOTE
2	CHLORITE-MAGNETITE
3	BIOTITE-CHLORITE
4	MAGNETITE-QUARTZ
5	PHYROPHYLLITE
6	SERICITE
7	SERICITE-CHLORITE
8	
9	QUARTZ/SILICA
8	SKARNIFICATION

M2-SCALE	L-card col 79
0	FRESH
1	CHLORITE - EPIDOTE
2	CHLORITE - MAGNETITE
3	BIOTITE - CHLORITE
4	MAGNETITE - QUARTZ
5	PHYROPHYLLITE
6	SERICITE
7	SERICITE CHLORITE
8	R-SPAR
9	SILICIC (> 90% QUARTZ)
8	SILICIFIED

THE ABOVE ARE THE MAIN CODES USED IN THE GEOLOG CODING SYSTEM.

RMR IS DETERMINED ACCORDING TO THE FOLLOWING TABLE:

PARAMETER			RANGES OF VALUES									
1	Strength of intact rock material	Point-load strength index	> 10 MPa	4 - 10 MPa	2 - 4 MPa	1 - 2 MPa	For this low range - uniaxial compressive test is preferred					
		Uniaxial compressive strength	R5 > 250 MPa	R4 100 - 250 MPa	R3 50 - 100 MPa	R2 25 - 50 MPa	R1 5 - 25 MPa	R1 1-3 MPa	< 1 MPa			
	Rating		30	27	22	19	17	15	S5	S4	S3	S2 S1
2	Handled Drill core quality RQD		90% - 100%	75% - 90%	50% - 75%	25% - 50%	< 25%					
	Rating		20	17	13	8	3					
3	Handled spacing of discontinuities		> 2 m	0.6 - 2 m	200 - 600 mm	60 - 200 mm	< 60 mm					
	Rating		20	15	10	8	5					
4	Condition of discontinuities		Rock > R1 Very rough surfaces. Not continuous No separation Unweathered wall rock	Rock > R1 Slightly rough surfaces. Separation < 1 mm Slightly weathered walls	Rock > R1 Slightly rough surfaces Separation < 1 mm Highly weathered walls	Rock > R1 Stuckensided surfaces OR Gouge < 5 mm thick OR Separation 1-5 mm Continuous	Rock < R1 Soft gouge > 5 mm thick OR Separation > 5 mm Continuous					
	Rating		30	25	20	10						

TABLE 2
S R K GEOMECHANICS CLASSIFICATION OF ROCK MASSES (SRMR)

0124

International Geosystems Corporation

Geolog System

Geoform

THIS SYSTEM IS TO ACTIVATE SYSTEMS

IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)

DATE OF COMPLETION

5 = Alpha 5 0 = Zero 1 = One 2 = Two

KEYPUNCHED

Alpha 1 2 = Alpha 2

Identity Date	FLAG	FORAM VISION	SPIC	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	DATE OF COMPLETION	5 = Alpha 5 0 = Zero 1 = One 2 = Two	KEYPUNCHED	Alpha 1 2 = Alpha 2
1	DEN	680202						
2	PRJ							
3	FLG							
4	FLG							
5	FLG							
6	FLG							
7	FLG							
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100	FLG							



Geolog System

Geoform

INTEREST IN COL. 1 TO 40 (DATE INDEX)										S = Alpha 5 0 = Zero 1 = One 2 = Two										7 = Seven 8 = Alpha 1 9 = Alpha 2																																																																															
1	2	3	4	5	6	7	8	9	10	ID OF DRILLHOLE/TRANSFER NAME AND NUMBER										SIZE OF CORE OR HOLE										DATE AND TIME										LOGGERS										COMPLETED										KEYPUNCHED																																							
1										2										3										4										5										6										7										8										9										10									
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GRAPHIC

40487

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1719

[illegible]

1567

ILC-RMR			HOLE NO D124 LOGGED BY GLP			DATE 4 Feb 88 LOCATION SE corner 10308		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
100	101	C		135	35		169	45
	2			6			170	45
	3			7			1	50
	4			8			2	50
	5			9			3	50
	6			140			4	50
	7			1			5	40
	8			2			6	45
	9			3			7	35
	10			4			8	35
	1			5			9	35
	2			6			180	45
	3			7	35		1	45
	4			8	50		2	45
	5			9	45		3	40
	6			150	50		4	50
	7			1	40		5	50
	8			2	50		6	45
	9			3	50		7	45
	120			4	50		8	40
	1			5	40		9	35
	2			6	40		190	45
	3			7	45		1	45
	4			8	40		2	45
	5			9	35		3	25
	6			160	45		4	50
	7			1	45		5	40
	8			2	45		6	15
	9			3	45		7	40
	130			4	45		8	50
	1			5	40		9	45
	2			6	50		200	50
	3			7	40			
	4			8	45			

V. poor
microm.

Till

2957

ILC-RMR			HOLE No 3124 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	201	40		235	25		269	40
	2	25		6	45		270	35
	3	35	rounded	7	45		1	45
	4	40		8	30		2	40
	5	40		9	30		3	45
	6	45		240	15		4	35
	7	45		1	45		5	40
	8	45		2	15		6	45
	9	45		3	40		7	40
	210	35		4	45		8	35
	1	35	rounded	5	40		9	45
	2	50		6	40		280	45
	3	50		7	40		1	40
	4	50		8	40		2	40
	5	45		9	40		3	45
	6	35		250	40		4	45
	7	20		1	40		5	45
	8	20		2	40		6	35
	9	15		3	40		7	35
	220	20	poor recovery	4	50		8	45
	1	30		5	50		9	45
	2	35		6	45		290	35
	3	15		7	45		1	35
	4	45		8	45		2	35
	5	45		9	45		3	40
	6	35		260	40		4	45
	7	40		1	40		5	45
	8	35		2	40		6	45
	9	50		3	40		7	45
	230	45		4	40		8	45
	1	45		5	40		9	45
	2	45		6			300	45
	3	45		7				
	4	50		8				

1.57
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poor
rec.

50/67

ILC-RMR			HOLE No D124 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	301	40		335	3.5		369	50
	2	45		6	40		370	50
	3	45		7	45		1	25
	4	45	not	8	45		2	45
	5	50		9	20		3	45
	6	45		340	45		4	50
	7	45		1	45		5	50
	8	45		2	45		6	50
	9	40		3	45		7	50
	310	15		4	15		8	50
	1	35		5	45		9	50
	2	40		6	30		380	45
	3	35		7	35		1	50
	4	35		8	40		2	50
	5	35		9	30		3	50
	6	50		380	45		4	50
	7	45		1	20		5	50
	8	30		2	50		6	50
	9	35		3	50		7	50
	320	30		4	50		8	20
	1	35		5	50		9	50
	2	15		6	35		390	
	3	35		7	45		1	
	4	40		8	35		2	
	5	45		9	50		3	
	6	45		360	45		4	
	7	20		1	45		5	
	8	30		2	45		6	
	9	45		3	35		7	
	330	35		4	45		8	
	1	45		5	50		9	
	2	45		6	50		400	
	3	40		7	45			
	4	30		8	15			

45/87

ILC-RMR		HOLE No D124		DATE		LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	40 1	30		435	15		469	40
	2	45		6	20		470	45
	3	35		7	20		1	45
	4	50		8	20		2	20
	5	50		9	15		3	45
	6	30		440	15		4	35
	7	45		1	15		5	45
	8	35		2	50		6	45
	9	20		3	15		7	45
	410	35		4	15		8	50
	1	25		5	20		9	50
	2	25		6	25		480	50
	3	45		7	20		1	50
	4	25		8	20		2	50
	5	35		9	20		3	50
	6	25		450	20		4	40
	7	40		1	20		5	50
	8	45		2	20		6	40
	9	45		3	20		7	45
	420	45		4	20	contact	8	50
	1	50		5	20		9	35
	2	45		6	20		490	15
	3	45		7	20		1	50
	4	45		8	25		2	20
	5	30		9	30		3	45
	6	50		460	20		4	45
	7	45		1	35		5	50
	8	30		2	45		6	50
	9	50		3	20		7	50
	430	25		4	35		8	40
	1	15		5	40		9	35
	2	25		6	35		500	45
	3	15		7	35			
	4	15		8	20			

5077

ILC-RMR			HOLE No D124 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	501	45		535	40		569	25
	2	45		6	45		570	25
	3	45		7	45		1	20
	4	45		8	45		2	15
	5	45		9	30		3	25
	6	50		540	45		4	30
	7	45		1	45		5	50
	8	40		2	45		6	
	9	30		3	50		7	
	510	35		4	40		8	
	1	35		5	50		9	
	2	40		6	50		580	45
	3	35		7	50		1	50
	4	35		8	50		2	50
	5	50		9	50		3	50
	6	50		550	30		4	50
	7	30		1	15		5	45
	8	30		2	20		6	45
	9	45		3	20		7	45
	520	45		4	20		8	45
	1	45		5	20		9	40
	2	50		6	20		590	50
	3	35		7	25		1	45
	4	35		8	20		2	40
	5	20		9	40		3	25
	6	20		560	45		4	40
	7	15		1	45		5	50
	8	15		2	45		6	45
	9	20		3	20		7	50
	530	15		4	20		8	
	1	20		5	45		9	
	2	20		6	30		600	
	3	15		7	20			
	4	15		8	25			

100 ft

9 ft

ILC-RMR		HOLE No D124 LOGGED BY		DATE LOCATION				
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	601	50		635	20	Structure last	669	35
	2	40		6	50		670	50
	3	45		7	50		1	40
	4	40		8	50		2	45
	5	50		9	35		3	40
	6	50		640	40		4	35
	7	45		1	35	good quality	5	50
	8	50		2	35		6	45
	9	50		3	45		7	40
	610	50		4	45		8	50
	1	45		5	50		9	35
	2			6	50		680	45
	3			7	50		1	45
	4			8	50		2	45
	5			9	40		3	40
	6			650	40		4	35
	7	50		1	45		5	35
	8	45		2	45		6	50
	9	45		3	45		7	45
	620	45		4	45		8	45
	1	50		5	50		9	40
	2	50		6	20	structure	690	40
	3	45		7	50		1	50
	4	45		8	50		2	50
	5	45		9	50		3	45
	6	50		460	50		4	40
	7	45		1	50	qtz rich alt to ser	5	40
	8	45		2	25		6	50
	9	45		3	35		7	50
	630	50		4	40		8	50
	1			5	45		9	45
	2			6	50		700	40
	3			7	50			
	4	35		8	50			

777

ILC-RMR		HOLE No D 124 LOGGED BY			DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	101	45		35			69	
	2	50		6			70	
	3	50		7			1	
	4	45		8			2	
	5	45		9			3	
	6			10			4	
	7			1			5	
	8			2			6	
	9			3			7	
	10			4			8	
	1			5			9	
	2			6			80	
	3			7			1	
	4			8			2	
	5			9			3	
	6			50			4	
	7			1			5	
	8			2			6	
	9			3			7	
	20			4			8	
	1			5			9	
	2			6			90	
	3			7			1	
	4			8			2	
	5			9			3	
	6			60			4	
	7			1			5	
	8			2			6	
	9			3			7	
	30			4			8	
	1			5			9	
	2			6			00	
	3			7				
	4			8				

ROCK QUALITY DESIGNATION (R.Q.D.)

Page 1 of 4

FILE #: D124

DATE: JAN 29/88 LOGGED BY: [Signature]

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)		R. Q. D.		# of	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. 2 (IN)	RECT	7/4"	7/4"	0/4"	0/4"	FRACT. 3	INTENSITY
113	119	72	72	4	6	0	0	0	0		HIGH
119	122	36	108	10	28	0	0	0	0		✓
122	126	48	156	6	13	0	0	0	0		✓
126	131	60	216	15	25	7	0	0	0		✓
131	135	48	264	7	15	6	0	0	0		✓
135	139	48	312	8	17	0	0	0	0		✓
139	141	24	336	8	33	0	0	0	0		✓
141	143	24	360	4	17	0	0	0	0		✓
143	146	36	396	9	25	0	0	0	0		✓
146	149	36	432	21	58	12	33	0	0		Moderate
149	151	24	456	24	100	21	88	0	0		Low
151	153	24	480	15	63	8	33	0	0		Moderate
153	158	60	540	45	75	16	27	0	0		✓
	163	60	600	60	100	14	23	0	0		✓
163	168	60	660	60	100	23	38	0	0		✓
168	173	60	720	60	100	43	72	0	0		Low
173	178	60	780	60	100	14	23	0	0		Moderate
178	183	60	840	60	100	28	47	0	0		✓
183	188	60	900	60	100	22	37	0	0		✓
188	193	60	960	60	100	21	35	0	0		✓
193	198	60	1020	60	100	28	47	0	0		Moderate
198	200	24	1044	18	75	11	46	0	0		✓
200	204	48	1092	42	88	19	40	0	0		✓
204	209	60	1152	51	85	19	32	0	0		✓
209	213	48	1200	46	96	16	33	0	0		✓
213	218	60	1260	49	82	14	23	0	0		HIGH
218	223	60	1320	32	53	0	0	0	0		✓
223	228	60	1380	60	100	10	0	0	0		✓
228	233	60	1440	60	100	25	42	0	0		Moderate
233	238	60	1500	60	100	49	82	0	0		Low
	243	60	1560	60	100	37	62	0	0		Moderate
243	248	60	1620	60	100	9	0	0	0		HIGH
248	253	60	1680	60	100	4	0	0	0		✓
253	259	72	1752	58	81	33	46	0	0		Moderate
259	264	60	1812	60	100	11	0	0	0		HIGH

ROCK QUALITY DESIGNATION (R.Q.D.)

Pg 2 of 4

HOLE #: D124

DATE: FEB 2/88

LOGGED BY: [Signature]

Andy Rogers

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)		R. Q. D.		# OF	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. (IN)	RECS	7.4"	4"			FRACS	INTEREST
264	269	60	1812	59	98	12	0			THICK	
269	274	60	1932	55	92	19	32			MODERATE	
274	279	60	1992	60	100	13	0			THICK	
279	284	60	2052	60	100	20	33			MODERATE	
284	289	60	2112	35	58	10	0			THICK	
289	291	24	2136	20	83	0	0			✓	
291	294	36	2172	36	100	0	0			✓	
294	297	36	2208	35	97	4	0			✓	
297	303	72	2280	39	54	4	0			✓	
303	304	12	2292	3	25	0	0			✓	
304	309	60	2352	58	97	25	42			MODERATE	
309	313	48	2400	46	96	0	0			THICK	
313	317.5	54	2454	52	100	27	50			MODERATE	
317.5	322	54	2508	29	54	4	0			THICK	
322	325	36	2544	34	94	4	0			✓	
325	328	36	2580	36	100	13	36			MODERATE	
328	330	24	2604	24	100	4	0			THICK	
330	334	48	2652	33	69	4	0			✓	
334	335.5	18	2670	12	67	4	0			✓	
335.5	339	42	2712	32	76	4	0			✓	
339	344	60	2772	53	88	23	38			MODERATE	
344	347	36	2808	36	100	4	0			THICK	
347	350	36	2844	32	89	12	33			MODERATE	
350	355	60	2904	59	98	36	60			✓	
355	358	36	2940	36	100	5	0			THICK	
358	363	60	3000	60	100	41	68			MODERATE	
363	368	60	3060	60	100	41	68			✓	
368	373	60	3120	60	100	39	62			✓	
373	378	60	3180	60	100	46	77			✓	
378	383	60	3240	60	100	39	65			✓	
383	388	60	3300	60	100	54	70			Low	
388	393	60	3360	58	97	58	97			✓	
393	398	60	3420	57	95	54	90			✓	
398	403	60	3480	59	98	44	73			MODERATE	
403	408	60	3540	60	100	35	58			✓	

ROCK QUALITY DESIGNATION (R.Q.D.)

PL 307 4

HOLE #: D124

DATE: FEB 2/88 LOGGED BY: J. H. HAY

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)	R. Q. D.	# of	FRA.
FROM	TO	INCHES	CUM. INCHES	REC. (IN)	REC. Y	7/4"	0/4"	FRACTS	INTOSIT.
408	409	12	35	12	100	0	0	HIGH	
409	414	60	3612	52	87	35	58	MODERATE	
414	419	60	3672	60	100	43	72	✓	
419	424	60	3732	60	100	47	78	LOW	
424	429	60	3792	60	100	48	80	✓	
429	434	60	3852	60	100	41	68	MODERATE	
434	439	60	3912	60	100	0	0	HIGH	
439	444	60	3972	60	100	21	35	MODERATE	
444	449	60	4032	58	97	25	42	✓	
449	454	60	4092	59	98	32	53	✓	
454	459	60	4152	60	100	46	77	✓	
459	464	60	4212	59	98	31	52	✓	
464	469	60	4272	59	98	33	55	✓	
469	474	60	4332	60	100	45	75	✓	
474	479	60	4392	59	98	44	73	✓	
479	484	60	4452	60	100	36	60	✓	
484	489	60	4512	60	100	42	70	✓	
489	494	60	4572	58	97	29	48	✓	
494	499	60	4632	58	97	45	75	✓	
499	504	60	4692	59	98	34	57	✓	
504	509	60	4752	60	100	24	40	✓	
509	514	60	4812	57	95	42	70	✓	
514	519	60	4872	60	100	39	65	✓	
519	524	60	4932	60	100	31	57	✓	
524	529	60	4992	58	97	4	0	HIGH	
529	534	60	5052	60	100	0	0	✓	
534	539	60	5112	60	100	40	67	MODERATE	
539	544	60	5172	60	100	40	67	✓	
544	549	60	5232	60	100	45	75	✓	
549	554	60	5292	60	100	33	55	✓	
554	559	60	5352	60	100	14	0	HIGH	
559	564	60	5412	60	100	37	62	MODERATE	
564	569	60	5472	56	93	14	0	HIGH	
569	574	60	5532	60	100	4	0	✓	
574	579	60	5592	60	100	35	58		

ROCK QUALITY DESIGNATION (R.Q.D.)

P. 4 OF 4

HOLE #: D124

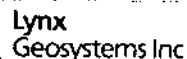
DATE: Feb 27/88

LOGGED BY: [Signature]

Andy S. [Signature]

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)		R. Q. D.		# OF	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. 2 (IN)	REC. 1	7/4"	4"			FRACT. 3	INTENSITY
579	584	60	5652	60	100	50	83			Low	
584	589	60	5712	51	85	34	57			MODERATE	
589	594	60	5772	60	100	37	62			✓	
594	599	60	5832	60	100	43	72			✓	
599	604	60	5892	60	100	34	57			✓	
604	609	60	5952	57	95	36	60			✓	
609	614	60	6012	60	100	35	58			✓	
614	619	60	6072	58	97	30	50			✓	
619	624	60	6132	60	100	41	68			✓	
624	629	60	6192	58	97	42	70			✓	
629	634	60	6252	60	100	34	57			✓	
634	639	60	6312	60	100	30	50			✓	
639	644	60	6372	60	100	38	63			✓	
644	649	60	6432	60	100	42	60			✓	
649	654	60	6492	60	100	44	73			✓	
654	659	60	6552	60	100	40	67			✓	
659	664	60	6612	60	100	38	63			✓	
664	669	60	6672	60	100	34	57			✓	
669	671.5	30	6702	30	100	28	93			Low	
671.5	674	30	6732	29	97	10	33			MODERATE	
674	679	60	6792	60	100	41	68			✓	
679	684	60	6852	60	100	5	4			High	
684	689	60	6912	60	100	33	55			MODERATE	
689	694	60	6972	60	100	26	43			✓	
694	699	60	7032	59	98	48	80			Low	
699	702	36	7068	36	100	26	72			MODERATE	
702	705	36	7104	36	100	32	89			Low	
END OF HOLE											

0125A



Geolog System

Geoforn

5 = Alpha 5 0 = Zero 1 = One 2 = Two 3 = Three 4 = Four 5 = Five 6 = Six 7 = Seven 8 = Eight 9 = Nine A = Alpha A B = Alpha B C = Alpha C D = Alpha D E = Alpha E F = Alpha F G = Alpha G H = Alpha H I = Alpha I J = Alpha J K = Alpha K L = Alpha L M = Alpha M N = Alpha N O = Alpha O P = Alpha P Q = Alpha Q R = Alpha R S = Alpha S T = Alpha T U = Alpha U V = Alpha V W = Alpha W X = Alpha X Y = Alpha Y Z = Alpha Z

KEYPUNCHED

$$I_{\text{or } 1} = \text{Alpha } 1 \quad Z = \text{Alpha } 2$$
[illegible]



Geolog System

Geoform

S = Alpha S 0 = Zero 1 = One

KEYPUNCHED

1 or 1 = Alpha 1 2 = Alpha 2

[illegible]



Geolog System

Geoform

S = Alpha S 0 = Zero 1 = One 2 = Two 3 = Three 4 = Alpha 0 1 or i = Alpha 1 2 = Alpha Z

KEYPUNCHED



Geolog System

5 = Alpha 5 0 = Zero 1 = One 2 = Two 3 = Three 4 = Four 6 = Alpha 0 7 = Seven 8 = Alpha 1 9 = Alpha 2

KEYPUNCHED

Geoform

[illegible]



Geolog System

Geoforn

S = Alpha 5 0 = Zero 1 = One 2 = Two 3 = Three 4 = Four 5 = Five 6 = Six 7 = Seven 8 = Alpha 8 9 = Alpha 9 10 = Alpha 10 11 = Alpha 11 12 = Alpha 12 13 = Alpha 13 14 = Alpha 14 15 = Alpha 15 16 = Alpha 16 17 = Alpha 17 18 = Alpha 18 19 = Alpha 19 20 = Alpha 20 21 = Alpha 21 22 = Alpha 22 23 = Alpha 23 24 = Alpha 24 25 = Alpha 25 26 = Alpha 26 27 = Alpha 27 28 = Alpha 28 29 = Alpha 29 30 = Alpha 30 31 = Alpha 31 32 = Alpha 32 33 = Alpha 33 34 = Alpha 34 35 = Alpha 35 36 = Alpha 36 37 = Alpha 37 38 = Alpha 38 39 = Alpha 39 40 = Alpha 40 41 = Alpha 41 42 = Alpha 42 43 = Alpha 43 44 = Alpha 44 45 = Alpha 45 46 = Alpha 46 47 = Alpha 47 48 = Alpha 48 49 = Alpha 49 50 = Alpha 50 51 = Alpha 51 52 = Alpha 52 53 = Alpha 53 54 = Alpha 54 55 = Alpha 55 56 = Alpha 56 57 = Alpha 57 58 = Alpha 58 59 = Alpha 59 60 = Alpha 60 61 = Alpha 61 62 = Alpha 62 63 = Alpha 63 64 = Alpha 64 65 = Alpha 65 66 = Alpha 66 67 = Alpha 67 68 = Alpha 68 69 = Alpha 69 70 = Alpha 70 71 = Alpha 71 72 = Alpha 72 73 = Alpha 73 74 = Alpha 74 75 = Alpha 75 76 = Alpha 76 77 = Alpha 77 78 = Alpha 78 79 = Alpha 79 80 = Alpha 80 81 = Alpha 81 82 = Alpha 82 83 = Alpha 83 84 = Alpha 84 85 = Alpha 85 86 = Alpha 86 87 = Alpha 87 88 = Alpha 88 89 = Alpha 89 90 = Alpha 90 91 = Alpha 91 92 = Alpha 92 93 = Alpha 93 94 = Alpha 94 95 = Alpha 95 96 = Alpha 96 97 = Alpha 97 98 = Alpha 98 99 = Alpha 99 100 = Alpha 100 101 = Alpha 101 102 = Alpha 102 103 = Alpha 103 104 = Alpha 104 105 = Alpha 105 106 = Alpha 106 107 = Alpha 107 108 = Alpha 108 109 = Alpha 109 110 = Alpha 110 111 = Alpha 111 112 = Alpha 112 113 = Alpha 113 114 = Alpha 114 115 = Alpha 115 116 = Alpha 116 117 = Alpha 117 118 = Alpha 118 119 = Alpha 119 120 = Alpha 120 121 = Alpha 121 122 = Alpha 122 123 = Alpha 123 124 = Alpha 124 125 = Alpha 125 126 = Alpha 126 127 = Alpha 127 128 = Alpha 128 129 = Alpha 129 130 = Alpha 130 131 = Alpha 131 132 = Alpha 132 133 = Alpha 133 134 = Alpha 134 135 = Alpha 135 136 = Alpha 136 137 = Alpha 137 138 = Alpha 138 139 = Alpha 139 140 = Alpha 140 141 = Alpha 141 142 = Alpha 142 143 = Alpha 143 144 = Alpha 144 145 = Alpha 145 146 = Alpha 146 147 = Alpha 147 148 = Alpha 148 149 = Alpha 149 150 = Alpha 150 151 = Alpha 151 152 = Alpha 152 153 = Alpha 153 154 = Alpha 154 155 = Alpha 155 156 = Alpha 156 157 = Alpha 157 158 = Alpha 158 159 = Alpha 159 160 = Alpha 160 161 = Alpha 161 162 = Alpha 162 163 = Alpha 163 164 = Alpha 164 165 = Alpha 165 166 = Alpha 166 167 = Alpha 167 168 = Alpha 168 169 = Alpha 169 170 = Alpha 170 171 = Alpha 171 172 = Alpha 172 173 = Alpha 173 174 = Alpha 174 175 = Alpha 175 176 = Alpha 176 177 = Alpha 177 178 = Alpha 178 179 = Alpha 179 180 = Alpha 180 181 = Alpha 181 182 = Alpha 182 183 = Alpha 183 184 = Alpha 184 185 = Alpha 185 186 = Alpha 186 187 = Alpha 187 188 = Alpha 188 189 = Alpha 189 190 = Alpha 190 191 = Alpha 191 192 = Alpha 192 193 = Alpha 193 194 = Alpha 194 195 = Alpha 195 196 = Alpha 196 197 = Alpha 197 198 = Alpha 198 199 = Alpha 199 200 = Alpha 200 201 = Alpha 201 202 = Alpha 202 203 = Alpha 203 204 = Alpha 204 205 = Alpha 205 206 = Alpha 206 207 = Alpha 207 208 = Alpha 208 209 = Alpha 209 210 = Alpha 210 211 = Alpha 211 212 = Alpha 212 213 = Alpha 213 214 = Alpha 214 215 = Alpha 215 216 = Alpha 216 217 = Alpha 217 218 = Alpha 218 219 = Alpha 219 220 = Alpha 220 221 = Alpha 221 222 = Alpha 222 223 = Alpha 223 224 = Alpha 224 225 = Alpha 225 226 = Alpha 226 227 = Alpha 227 228 = Alpha 228 229 = Alpha 229 230 = Alpha 230 231 = Alpha 231 232 = Alpha 232 233 = Alpha 233 234 = Alpha 234 235 = Alpha 235 236 = Alpha 236 237 = Alpha 237 238 = Alpha 238 239 = Alpha 239 240 = Alpha 240 241 = Alpha 241 242 = Alpha 242 243 = Alpha 243 244 = Alpha 244 245 = Alpha 245 246 = Alpha 246 247 = Alpha 247 248 = Alpha 248 249 = Alpha 249 250 = Alpha 250 251 = Alpha 251 252 = Alpha 252 253 = Alpha 253 254 = Alpha 254 255 = Alpha 255 256 = Alpha 256 257 = Alpha 257 258 = Alpha 258 259 = Alpha 259 260 = Alpha 260 261 = Alpha 261 262 = Alpha 262 263 = Alpha 263 264 = Alpha 264 265 = Alpha 265 266 = Alpha 266 267 = Alpha 267 268 = Alpha 268 269 = Alpha 269 270 = Alpha 270 271 = Alpha 271 272 = Alpha 272 273 = Alpha 273 274 = Alpha 274 275 = Alpha 275 276 = Alpha 276 277 = Alpha 277 278 = Alpha 278 279 = Alpha 279 280 = Alpha 280 281 = Alpha 281 282 = Alpha 282 283 = Alpha 283 284 = Alpha 284 285 = Alpha 285 286 = Alpha 286 287 = Alpha 287 288 = Alpha 288 289 = Alpha 289 290 = Alpha 290 291 = Alpha 291 292 = Alpha 292 293 = Alpha 293 294 = Alpha 294 295 = Alpha 295 296 = Alpha 296 297 = Alpha 297 298 = Alpha 298 299 = Alpha 299 300 = Alpha 300 301 = Alpha 301 302 = Alpha 302 303 = Alpha 303 304 = Alpha 304 305 = Alpha 305 306 = Alpha 306 307 = Alpha 307 308 = Alpha 308 309 = Alpha 309 310 = Alpha 310 311 = Alpha 311 312 = Alpha 312 313 = Alpha 313 314 = Alpha 314 315 = Alpha 315 316 = Alpha 316 317 = Alpha 317 318 = Alpha 318 319 = Alpha 319 320 = Alpha 320 321 = Alpha 321 322 = Alpha 322 323 = Alpha 323 324 = Alpha 324 325 = Alpha 325 326 = Alpha 326 327 = Alpha 327 328 = Alpha 328 329 = Alpha 329 330 = Alpha 330 331 = Alpha 331 332 = Alpha 332 333 = Alpha 333 334 = Alpha 334 335 = Alpha 335 336 = Alpha 336 337 = Alpha 337 338 = Alpha 338 339 = Alpha 339 340 = Alpha 340 341 = Alpha 341 342 = Alpha 342 343 = Alpha 343 344 = Alpha 344 345 = Alpha 345 346 = Alpha 346 347 = Alpha 347 348 = Alpha 348 349 = Alpha 349 350 = Alpha 350 351 = Alpha 351 352 = Alpha 352 353 = Alpha 353 354 = Alpha 354 355 = Alpha 355 356 = Alpha 356 357 = Alpha 357 358 = Alpha 358 359 = Alpha 359 360

Two = Seven O = Alpha O
KEYPUNCHED

$\Delta H_{\text{fusion}} = 11.7 \text{ kJ mol}^{-1}$
 $\Delta H_{\text{fusion}} = 11.7 \text{ kJ mol}^{-1}$

50000
 60000

Export Job
 Import Job
 Uninstall
Assay Data

GRAPHIC

[illegible]



Lynx
Geosystems Inc.

Geolog System

Geoforn

ENTER REVISIONS IN COLUMN 1 TO 4 TO ACTIVATE ENTRIES

5 = Alpha S 0 = Zero 1 = One 2 = KEYPUNCHED 3 = Alpha I 4 = Alpha Z

REV	FLAG	FORWARD	REVERSE	DATE AND TIME	STATION	OFFSET	NORTHING	EASTING	ELEVATION
1	D E N	6 8 0 5	D 1 2 5 A	DAY	HR	MIN	SEC	UTM	UTM
U	FLAG	FROM	TO	RECOVERY	ROCK-SOIL	TYPE-MAT	QAL-MAT	TEXTURES	GRAIN
A	FROM	FROM	TO	QGO	ENV	RTD	IC	QMU	TAU
D	71.72	72.55	3QT2V	SAI	CM	GY	QZ	VNS	C/W
L	71.72	72.55	SEVERAL	XPAL	20	CM	GY	QZ	VNS
R	72.55	72.8	MOD SUR	C/W	GY	CHL	2EO	QZ	VNS
P	72.8	769	BYA	VF	Q3	VC	3MSN	QZ	VNS
R	73.2	769	BIOTITE	MAA	ALT	D	FINE	LAP	CSK
			QZ	W	TH	INC	LUDED	PARALLEL	PY
			ALT	IS	PERV	0.55	BUT	APPEARS	TO
			CHL	ALT	IS	LOCAL	2EPI	ADT	TO
	769	769							
D	767	769	SAIRV						
L			BY						
R	75.62	757	GEVAN						
L									
R	769	769	EOH						



Geolog System

Geoform

$S = \text{Alpha S}$ $Q = \text{Zero}$ $1 = \text{One}$

KEYPUNCHED

1 or 1 = Alpha 1 2 = Alpha 2

650

$$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

Deputy Editor
 Executive Editor
 Managing Editor
 Editor

GRAPHIC

[illegible]

ILC-RMR			HOLE No 125A LOGGED BY			DATE 22 Feb 88 LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	101			135			69	35
	2			6			170	35
	3			7			1	35
	4			8			2	35
	5			9	?		3	35
	6			140	tel/ry		4	35
	7			1	?		5	40
	8			2	↑		6	40
	9			3			7	15
	110			4			8	15
	1			5	25		9	20
	2			6	35		180	20
	3			7	35		1	20
	4			8	30		2	20
	5			9	25		3	20
	6			150	25		4	25
	7			1	20		5	25
	8			2	25		6	15
	9			3	20		7	15
	120			4	25		8	15
	1			5	20		9	40
	2			6	25		190	15
	3			7	25		1	20
	4			8	20		2	20
	5			9	20		3	20
	6			160	25		4	45
	7			1	25		5	35
	8			2	25		6	45
	9			3	20		7	45
	130			4	35		8	45
	1			5	30		9	30
	2			6	40		200	30
	3			7	30			
	4			8	40			

pe
uc

2077

ILC-RMR			HOLE No 125A LOGGED BY		DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	201	35		235	15		69	35
	2	35		6	20		270	20
	3	25		7	20		1	25
	4	20		8	35		2	25
	5	15		9	35		3	20
	6	35		240	25		4	25
	7	35		1	15		5	15
	8	35		2	25		6	15
	9	25		3	35		7	25
	210	20		4	35		8	15
	1	20		5	35		9	15
	2	20		6	30		280	30
	3	20		7	35		1	15
	4	15		8	35		2	20
	5	15		9	35		3	45
	6	35		250	45		4	35
	7	20		1	35		5	15
	8	35		2	40		6	30
	9	35		3	25		7	30
	220	35		4	35		8	30
	1	20		5	25		9	25
	2	20		6	35		290	45
	3	35		7	30		1	40
	4	20		8	30		2	45
	5	25		9	30		3	30
	6	20		260	35		4	35
	7	15		1	20		5	40
	8	20		2	20		6	20
	9			3	35		7	20
	230			4	40		8	25
	1			5	35		9	15
	2			6	35		300	20
	3	20		7	35			
	4	20		8	35			

397

ILC-RMR			HOLE No 125A LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	301	20		35	45		69	20
	2	25		6	25		370	20
	3	20		7	15		1	20
	4	20		8	25		2	20
	5	25		9	25		3	20
	6	15		340	25		4	25
	7	15		1	20		5	40
	8	15		2	35		6	20
	9	15		3	35		7	20
	310	20		4	35		8	35
	1	20		5	35		9	20
	2	20		6	10		380	40
	3	15		7	25		1	40
	4	20		8	25		2	25
	5	25		9	25		3	50
	6	25		350	25		4	50
	7	45		1	20		5	50
	8	45		2	35		6	40
	9	45		3	35		7	40
	320	20		4	35		8	15
	1	25		5	35		9	45
	2	20		6	35		390	20
	3	20		7	40		1	35
	4	25		8	25		2	40
	5	35		9	35		3	15
	6	20		360	35		4	25
	7	15		1	35		5	20
	8	25		2	15		6	40
	9	15		3	20		7	50
	330	15		4	20		8	20
	1	20		5	25		9	25
	2	20		6	35		400	20
	3	20		7	50			
	4	20		8	10			

ILC-RMR			HOLE No 1251		DATE		LOCATION		
LOGGED BY									
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING	
	401	10		435	25		69	20	
	2	45		6	30		470	30	
	3	20		7	40		1	15	
	4	15		8	45		2	20	
	5	15		9	40		3	20	
	6	15		440	15		4	20	
	7	20		1	35		5	25	
	8	15		2	20		6	20	
	9	25		3	35		7	20	
	110	25		4	35		8	15	
	1	20		5	20		9	25	
	2	25		6	25		480	30	
	3	30		7	45		1	20	
	4	30		8	45		2	45	
	5	10		9	45		3	20	
	6	25		450	35		4	45	
	7	20		1	15		5	25	
	8	25		2	15		6	30	
	9	35		3	30		7	50	
	420	25		4	45		8	50	
	1	25		5	30		9	40	
	2	45		6	35		490	40	
	3	40		7	25		1	45	
	4	45		8	40		2	50	
	5	35		9	20		3	50	
	6	45		460	25		4	50	
	7	45		1	45		5	50	
	8	45		2	45		6	50	
	9	45		3	20		7	50	
	430	25		4	25		8	50	
	1	25		5	25		9	50	
	2	25		6	35		500	40	
	3	25		7	35				
	4	25		8	40				

ILC-RMR			HOLE No		259	DATE			LOCATION		
LOGGED BY											
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	501	35		535	25		69	20			
	2	40		6	20		570	25			
	3	50		7	45		1	25			
	4	45		8	20		2	20			
	5	35		9	20		3	20			
	6	25		540	20		4	35			
	7	35		1	50		5	35			
	8	45		2	50		6	45			
	9	20		3	35		7	45			
	510	20		4	50		8	35			
	1	25		5	40		9	45			
	2	25		6	50		590	45			
	3	20		7	45		1	50			
	4	15		8	25		2	35			
	5	45		9	45		3	35			
	6	25		550	20		4	20			
	7	20		1	50		5	45			
	8	20		2	30		6	50			
	9	20		3	15		7	45			
	520	25		4	20		8	40			
	1	40		5	45		9	30			
	2	35		6	20		590	25			
	3	30		7	20		1	40			
	4	20		8	25		2	45			
	5	20		9	45		3	25			
	6	20		560	25		4	40			
	7	20		1	35		5	35			
	8	25		2	15		6	35			
	9	25		3	25		7	25			
	530	25		4	25		8	35			
	1	25		5	25		9	25			
	2	15		6	25		600	40			
	3	20		7	25						
	4	20		8	20						

ILC-RMR			HOLE No. 125A LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	601	45		35	45		69	20
	2	45		6	35		70	45
	3	45		7	15		1	45
	4	45		8	25		2	45
	5	40		9	40		3	40
	6	45		40	40		4	50
	7	45		1	45		5	45
	8	35		2	40		6	35
	9	25		3	45		7	50
	410	35		4	45		8	40
	1	45		5	45		9	45
	2	45		6	40		480	45
	3	45		7	35		1	45
	4	40		8	45		2	35
	5	35		9	30		3	35
	6	45		450	30		4	35
	7	50		1	45		5	35
	8	25		2	45		6	35
	9	35		3	35		7	35
	620	30		4	25		8	35
	1	45		5	40		9	50
	2	45		6	45		490	45
	3	40		7	35		1	35
	4	35		8	50		2	35
	5	40		9	35		3	35
	6	40		460	35		4	35
	7	45		1	45		5	35
	8	40		2	40		6	45
	9	35		3	45		7	35
	630	40		4	50		8	35
	1	45		5	50		9	35
	2	20		6	50		700	35
	3	45		7	20			
	4	45		8	20			

good
qual

ILC-RMR		HOLE NO D1251 LOGGED BY		DATE LOCATION				
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	701	50		755	45		69	45
	2	35		6	45		770	
	3	50		7	35		1	
	4	15		8	45		2	
	5	25		9	45		3	
	6	20		740	35		4	
	7	35		1	45		5	
	8	20		2	45		6	
	9	45		3	45		7	
	710	40		4	35		8	
	1	45		5	40		9	
	2	45		6	40		780	
	3	35		7	45		1	
	4	35		8	45		2	
	5	35		9	40		3	
	6	40		750	50		4	
	7	40		1	40		5	
	8	45		2	40		6	
	9	45		3	35		7	
	720	35		4	50		8	
	1	50		5	50		9	
	2	50		6	50		790	
	3	35		7	40		1	
	4	35		8	40		2	
	5	45		9	35		3	
	6	45		760	35		4	
	7	25		1	45		5	
	8	35		2	45		6	
	9	35		3	40		7	
	730	35		4	35		8	
	1	40		5	35		9	
	2	40		6	45		800	
	3	40		7	45			
	4	35		8	45			

ROCK QUALITY DESIGNATION (R.Q.D.)

161055

WILE #: D125A

DATE: FEB 17/88

LOGGED BY: [Signature]

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)		R. Q. D.		# of	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. 2 (IN)	RECT	7/4"	4"	4"		FRAC. 2	INTENSITY
146	147	12	12	2	42	0	0	0		HIGH	
147	148	12	24	3	25	0	0	0		✓	
148	153	60	84	56	93	31	52			MODERATE	
153	159	72	156	46	64	12	0	0		HIGH	
159	164	60	216	60	100	23	38			MODERATE	
164	169	60	276	58	97	24	40			✓	
169	173	48	324	33	69	0	0	0		HIGH	
173	178	60	384	60	100	34	57			MODERATE	
178	183	60	444	60	100	35	58			✓	
183	187	48	492	41	85	18	38			✓	
187	193	72	564	63	88	31	43			✓	
193	195	24	588	24	100	14	58			✓	
195	199	48	636	48	100	19	40			✓	
199	202	36	672	36	100	6	0	0		HIGH	
202	204	24	696	12	50	0	0	0		✓	
204	209	60	756	50	83	11	0	0		✓	
209	214	60	816	60	100	0	0	0		✓	
214	217	36	852	28	78	0	0	0		✓	
217	219	24	876	24	100	5	0	0		✓	
219	222	36	912	24	67	0	0	0		✓	
222	227	60	972	60	100	15	0	0		✓	
227	232	60	1032	60	100	15	0	0		✓	
232	237	60	1092	36	60	0	0	0		✓	
237	239	24	1116	9	38	0	0	0		✓	
239	241	24	1140	16	67	0	0	0		✓	
241	244.5	42	1182	40	95	4	0	0		✓	
244.5	246.5	24	1206	24	100	0	0	0		✓	
246.5	248	18	1224	14	78	0	0	0		✓	
248	251	36	1260	36	100	9	0	0		✓	
251	255.5	54	1314	54	100	19	35			MODERATE	
	256	6	1320	6	100	0	0	0		HIGH	
256	261	60	1380	60	100	39	65			MODERATE	
261	266	60	1440	60	100	32	53			✓	
266	268	24	1464	24	100	0	0	0		HIGH	
268	274	72	1536	42	58	18	0	0		✓	

ROCK QUALITY DESIGNATION (R.Q.D.)

Page 2 of 5

FILE #: D125A

DATE: FEB 18/88 LOGGED BY: [Signature]

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)	R. Q. D.		# OF	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. 2 (IN)	REC. %	7/4"	4"		FRACTS	INTENSITY
274	279	60	1596	60	100	0	0		HIGH	
279	284	60	1656	60	100	26	43		Moderate	
284	289	60	1716	59	98	33	55		✓	
289	294	60	1776	60	100	33	55		✓	
294	299	60	1836	60	100	33	55		✓	
299	304	60	1896	58	97	21	35		✓	
304	309	60	1956	60	100	9	0		HIGH	
309	314	60	2016	60	100	0	0		✓	
314	319	60	2076	60	100	40	67		Moderate	
319	324	60	2136	60	100	34	57		✓	
324	329	60	2196	60	100	30	50		✓	
329	334	60	2256	60	100	5	0		HIGH	
334	339	60	2316	58	97	9	0		✓	
339	344	60	2376	57	95	20	33		Moderate	
344	346	24	2400	20	83	4	0		HIGH	
346	351	60	2460	60	100	16	0		✓	
351	356	60	2520	60	100	40	67		Moderate	
356	361	60	2580	60	100	38	63		✓	
361	366	60	2640	54	90	13	0		HIGH	
366	367	12	2652	10	83	8	80		Low	
367	369	24	2676	24	100	6	25		Moderate	
369	374	60	2736	55	92	18	30		✓	
374	375.5	18	2754	18	100	11	61		✓	
375.5	379	42	2796	40	95	15	36		✓	
379	382	36	2832	26	72	10	28		✓	
382	387	60	2892	60	100	44	73		✓	
387	391.5	54	2946	54	100	23	43		✓	
391.5	396	54	3000	54	100	18	33		✓	
396	401	60	3060	60	100	26	43		✓	
401	406	60	3120	55	92	5	0		HIGH	
406	411.5	66	3186	64	97	24	36		Moderate	
411.5	415	42	3228	21	50	7	0		HIGH	
415	420	60	3288	60	100	9	0		✓	
420	425	60	3348	54	90	14	0		✓	
425	430	60	3408	60	100	35	58		Moderate	

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO. D125A

DATE FEB 18/88

LOGGED BY



FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE INTENSITY
FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES	%	
430	435	60	3468	60	100	11	0	HIGH
435	440	60	3528	60	100	40	67	MODERATE
440	445	60	3588	60	100	15	0	HIGH
445	450	60	3648	60	100	35	58	MODERATE
450	452	24	3672	13	54	0	0	HIGH
452	457.5	66	3738	60	91	32	53	MODERATE
457.5	463	66	3804	64	97	43	67	✓
463	466	36	3840	36	100	12	33	✓
✓ 466	471	60	3900	60	100	19	32	✓
471	476	60	3960	60	100	5	0	HIGH
476	481	60	4020	60	100	7	0	✓
481	486	60	4080	60	100	26	43	MODERATE
486	491	60	4140	60	100	40	67	✓
491	496	60	4200	60	100	50	83	LOW
496	501	60	4260	60	100	37	62	MODERATE
501	506	60	4320	60	100	32	53	✓
506	511	60	4380	60	100	22	37	✓
511	516	60	4440	60	100	11	0	HIGH
516	521	60	4500	56	93	13	0	✓
521	527	72	4572	69	96	16	0	✓
527	532	60	4632	58	97	6	0	✓
532	537	60	4692	59	98	17	28	MODERATE
537	538	12	4704	9	75	0	0	HIGH
538	543	60	4764	60	100	26	43	MODERATE
543	548	60	4824	59	98	57	95	LOW
548	553	60	4884	60	100	34	57	MODERATE
553	558	60	4944	60	100	9	0	HIGH
558	563	60	5004	60	100	26	43	MODERATE
563	568	60	5064	60	100	24	40	✓
568	573	60	5124	60	100	16	0	HIGH
573	578.5	66	5190	60	91	27	45	MODERATE
578.5	583.5	60	5250	60	100	39	65	✓
583.5	588.5	60	5310	60	100	38	63	✓
588.5	593.5	60	5370	60	100	18	30	✓

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D125A

DATE

FEB 19/88

LOGGED BY

K. E. Lane

	FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM. PIECES	RQD	FRACTURE INTENSITY
	FROM	TO	INCHES	CUMULATIVE	INCHES	%	4"	%	
✓	593.5	599	66	5436	59	89	28	47	MODERATE
	599	604	60	5496	60	100	31	52	✓
	604	609	60	5556	60	100	18	30	✓
	609	614	60	5616	60	100	23	38	✓
	614	618	48	5664	37	77	11	23	✓ / HIGH
	618	619	12	5676	12	100	5	42	✓
✓	619	620.5	18	5694	18	100	8	44	✓
	620.5	624	42	5736	42	100	5	0	HIGH
	624	629	60	5796	60	100	18	30	MODERATE
	629	634	60	5856	60	100	28	47	✓
	634	636	24	5880	20	83	12	50	✓
	636	637	12	5892	12	100	0	0	HIGH
	637	642	60	5952	60	100	23	38	MODERATE
	642	647	60	6012	60	100	13	0	HIGH
	647	652	60	6072	60	100	33	55	MODERATE
	652	657	60	6132	60	100	37	62	✓
	657	662	60	6192	60	100	33	55	✓
	662	667	60	6252	60	100	48	80	LOW
	667	672	60	6312	60	100	29	48	MODERATE
	672	677	60	6372	60	100	33	55	✓
	677	682	60	6432	60	100	38	63	✓
	682	687	60	6492	60	100	26	43	✓
	687	692	60	6552	60	100	32	53	✓
	692	694.5	30	6582	30	100	10	33	✓
	694.5	699	54	6636	54	100	33	61	✓
	699	704	60	6696	60	100	43	72	✓
	704	709	60	6756	58	97	23	38	✓
	709	714	60	6816	60	100	37	62	✓
	714	719	60	6876	58	97	11	0	HIGH
	719	724	60	6936	56	93	16	0	✓
	724	729	60	6996	58	97	21	35	MODERATE
	729	734	60	7056	60	100	19	32	✓
	734	737	36	7092	36	100	25	69	✓
✓	737	741	48	7140	48	100	34	71	✓

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D125A

DATE

Feb 22/88

LOGGED BY

R. Bone

FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE
FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	INTENSITY
741	746	60	7200	60	100	13	0	High
746	750	48	7248	48	100	17	35	Moderate
750	752	24	7272	24	100	0	0	High
752	754	24	7296	15	63	0	0	✓
754	759	60	7356	55	92	29	48	Moderate
759	764	60	7416	60	100	29	48	✓
764	769	60	7476	60	100	20	33	✓
END OF HOLE								

D126



Geolog System

Geoforn:

S = Alpha S 0 = Zero 1 = One 2 = Two 3 = Three 4 = Four 5 = Alpha O 6 = Alpha I 7 = Alpha Z

KEYPUNCHED

[illegible]



Lynx
Geosystems Inc

Geolog System

Geoform

ENTER REVISED DATA IN THESE ENTRIES

5 = Alpha 5 0 = Zero 1 = One 2 = Alpha 2 10 = Alpha 1 2 = Alpha 2

KEYPUNCHED

REV	FLAG	FORMAT	DATE	TIME	STATION	OFFSET	NORTHING	EASTING	ELEVATION
21	136								
22	136								
23	136								
24	136								
25	136								
26	136								
27	136								
28	136								
29	136								
30	136								
31	136								
32	136								
33	136								
34	136								
35	136								
36	136								
37	136								
38	136								
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67	136								
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75	136								
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78	136								
79	136								
80	136								

RTXT 68 85 XBUAT 70 60
TIGHT PACKED ASH & Y.M. TUFF WITH SCATTERED LAP SIZED CLASTS
BANDS LT 50% M.F.N. 37.5% THK WITH ASS QTL VNS. SOME SPOT
PT. VNS WITH LT. AT Y ENV. AT 60" C/P. EVEN MIX OF ASH AND Y.M. ASH
CON. COLLAPSED BOWLS, DATA RUN. LT. AT 0. P/LITE (5-5.0 P/L)

RTXT 85 90 XBUAT 63
LPKG KLM 50 80 E1
OK CITH. (4) ASH TUFF LAP. COMP. ART. LOTS IN LT. M.F. - SOME ASH M.F.
YR 8-10% WT. ART. RUNS COMMON ON LAP.

RTXT 90 100 XBUAT 62
XLAG FRBN 10 E3
GEN SPAT. X.M. TUFF WITH GEN. ART. SERR. ART. SHARP. FELD
GRAIN. FELD. AT LOW. ART. 40 P/L - S-8. FINE DISSEM.
GEN. LAP. LOTS OF ART. 10-10. 100-100. 5% SERR. M.F.
105-100. 100% 100% 100% 100% 100% 100% 100% 100% 100% 100%

RTXT 100 116 XBUAT 64
XLAG FRBN 60 64 64
OK. M.F. QTL - M.F. ART. TIGHT PACKED Y.M. TUFF WITH M.F. LAP. LOTS
K. CRACKED WITH M.F. ART. 10-10. 100-100. 5% SERR. M.F.
WT. 20% Y.M. 100% 100% 100% 100% 100% 100% 100% 100% 100%

RTXT 116 125 XBUAT 66
XLAG FRBN 45 45 45
STRE. SERR. ART. M.F. ART. WITH QTL. M.F. ART. 10-10. 100-100. 5% SERR. M.F.
WT. 20% Y.M. 100% 100% 100% 100% 100% 100% 100% 100% 100%



Geolog System

Geoform

$$\xi = \text{Alpha} \xi$$

0 = Zero

1 = One

2-KEYPUNCHED

For $\alpha = \text{Alpha}$

$$Z = \text{Alpha}_4 Z$$
[illegible]



Geolog System

Geoforn

[illegible]



Geolog System

Geoform

S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven 10 = Ten 11 = Eleven 12 = Twelve 13 = Thirteen 14 = Fourteen 15 = Fifteen 16 = Sixteen 17 = Seventeen 18 = Eighteen 19 = Nineteen 20 = Twenty 21 = Twenty One 22 = Twenty Two 23 = Twenty Three 24 = Twenty Four 25 = Twenty Five 26 = Twenty Six 27 = Twenty Seven 28 = Twenty Eight 29 = Twenty Nine 30 = Thirty 31 = Thirty One 32 = Thirty Two 33 = Thirty Three 34 = Thirty Four 35 = Thirty Five 36 = Thirty Six 37 = Thirty Seven 38 = Thirty Eight 39 = Thirty Nine 40 = Forty 41 = Forty One 42 = Forty Two 43 = Forty Three 44 = Forty Four 45 = Forty Five 46 = Forty Six 47 = Forty Seven 48 = Forty Eight 49 = Forty Nine 50 = Fifty 51 = Fifty One 52 = Fifty Two 53 = Fifty Three 54 = Fifty Four 55 = Fifty Five 56 = Fifty Six 57 = Fifty Seven 58 = Fifty Eight 59 = Fifty Nine 60 = Sixty 61 = Sixty One 62 = Sixty Two 63 = Sixty Three 64 = Sixty Four 65 = Sixty Five 66 = Sixty Six 67 = Sixty Seven 68 = Sixty Eight 69 = Sixty Nine 70 = Seventy 71 = Seventy One 72 = Seventy Two 73 = Seventy Three 74 = Seventy Four 75 = Seventy Five 76 = Seventy Six 77 = Seventy Seven 78 = Seventy Eight 79 = Seventy Nine 80 = Eighty 81 = Eighty One 82 = Eighty Two 83 = Eighty Three 84 = Eighty Four 85 = Eighty Five 86 = Eighty Six 87 = Eighty Seven 88 = Eighty Eight 89 = Eighty Nine 90 = Ninety 91 = Ninety One 92 = Ninety Two 93 = Ninety Three 94 = Ninety Four 95 = Ninety Five 96 = Ninety Six 97 = Ninety Seven 98 = Ninety Eight 99 = Ninety Nine 100 = One Hundred 101 = One Hundred One 102 = One Hundred Two 103 = One Hundred Three 104 = One Hundred Four 105 = One Hundred Five 106 = One Hundred Six 107 = One Hundred Seven 108 = One Hundred Eight 109 = One Hundred Nine 110 = One Hundred Ten 111 = One Hundred Eleven 112 = One Hundred Twelve 113 = One Hundred Thirteen 114 = One Hundred Fourteen 115 = One Hundred Fifteen 116 = One Hundred Sixteen 117 = One Hundred Seventeen 118 = One Hundred Eighteen 119 = One Hundred Nineteen 120 = One Hundred Twenty 121 = One 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Fifty Five 156 = One Hundred Fifty Six 157 = One Hundred Fifty Seven 158 = One Hundred Fifty Eight 159 = One Hundred Fifty Nine 160 = One Hundred Sixty 161 = One Hundred Sixty One 162 = One Hundred Sixty Two 163 = One Hundred Sixty Three 164 = One Hundred Sixty Four 165 = One Hundred Sixty Five 166 = One Hundred Sixty Six 167 = One Hundred Sixty Seven 168 = One Hundred Sixty Eight 169 = One Hundred Sixty Nine 170 = One Hundred Seventy 171 = One Hundred Seventy One 172 = One Hundred Seventy Two 173 = One Hundred Seventy Three 174 = One Hundred Seventy Four 175 = One Hundred Seventy Five 176 = One Hundred Seventy Six 177 = One Hundred Seventy Seven 178 = One Hundred Seventy Eight 179 = One Hundred Seventy Nine 180 = One Hundred Eighty 181 = One Hundred Eighty One 182 = One Hundred Eighty Two 183 = One Hundred Eighty Three 184 = One Hundred Eighty Four 185 = One Hundred Eighty Five 186 = One Hundred Eighty Six 187 = One Hundred Eighty Seven 188 = One Hundred Eighty Eight 189 = One Hundred Eighty Nine 190 = One Hundred Ninety 191 = One Hundred Ninety One 192 = One Hundred Ninety Two 193 = One Hundred Ninety Three 194 = One Hundred Ninety Four 195 = One Hundred Ninety Five 196 = One Hundred Ninety Six 197 = One Hundred Ninety Seven 198 = One Hundred Ninety Eight 199 = One Hundred Ninety Nine 200 = Two Hundred 201 = Two Hundred One 202 = Two Hundred Two 203 = Two Hundred Three 204 = Two Hundred Four 205 = Two Hundred Five 206 = Two Hundred Six 207 = Two Hundred Seven 208 = Two Hundred Eight 209 = Two Hundred Nine 210 = Two Hundred Ten 211 = Two Hundred Eleven 212 = Two Hundred Twelve 213 = Two Hundred Thirteen 214 = Two Hundred Fourteen 215 = Two Hundred Fifteen 216 = Two Hundred Sixteen 217 = Two Hundred Seventeen 218 = Two Hundred Eighteen 219 = Two Hundred Nineteen 220 = Two Hundred Twenty 221 = Two Hundred Twenty One 222 = Two Hundred Twenty Two 223 = Two Hundred Twenty Three 224 = Two Hundred Twenty Four 225 = Two Hundred Twenty Five 226 = Two Hundred Twenty Six 227 = 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331 = Three Hundred Thirty One 332 = Three Hundred Thirty Two 333 = Three Hundred Thirty Three 334 = Three Hundred Thirty Four 335 = Three Hundred Thirty Five 336 = Three Hundred Thirty Six 337 = Three Hundred Thirty Seven 338 = Three Hundred Thirty Eight 339 = Three Hundred Thirty Nine 340 = Three Hundred Forty 341 = Three Hundred Forty One 342 = Three Hundred Forty Two 343 = Three Hundred Forty Three 344 = Three Hundred Forty Four 345 = Three Hundred Forty Five 346 = Three Hundred Forty Six 347 = Three Hundred Forty Seven 348 = Three Hundred Forty Eight 349 = Three Hundred Forty Nine 350 = Three Hundred Fifty 351 = Three Hundred Fifty One 352 = Three Hundred Fifty Two 353 = Three Hundred Fifty Three 354 = Three Hundred Fifty Four 355 = Three Hundred Fifty Five 356 = Three Hundred Fifty Six 357 = Three Hundred Fifty Seven 358 = Three Hundred Fifty Eight 359 = Three Hundred Fifty Nine 360 = Three Hundred Sixty 361 = Three Hundred Sixty One 362 = Three Hundred Sixty Two 363 = Three 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395 = Three Hundred Ninety Five 396 = Three

KEYPUNCHED

[illegible]



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KEY		FLAG	FORMAT	VERSION	INT	TYPE	SITE OR PROJECT NAME AND NUMBER		SITE OF CORE OR HOLE		VS	MOON	DATE AND TIME	DAY	HR	MIN	SEC	APR	CHOCLOGS	BY	ED BY	VS	COMPLETED	MOON	DAY	KEYPUNCHED		COMMENT	REMARKS	GRID AZIMUTH	UNITS																																																																																																																																																																																															
1		O	E	N	G	R	D	S	D-126										S = Alpha S		0 = Zero		1 = One		2 = Two		3 = Three		4 = Four		5 = Five		6 = Six		7 = Seven		8 = Eight		9 = Nine		10 = Ten		11 = Eleven		12 = Twelve		13 = Thirteen		14 = Fourteen		15 = Fifteen		16 = Sixteen		17 = Seventeen		18 = Eighteen		19 = Nineteen		20 = Twenty		21 = Twenty One		22 = Twenty Two		23 = Twenty Three		24 = Twenty Four		25 = Twenty Five		26 = Twenty Six		27 = Twenty Seven		28 = Twenty Eight		29 = Twenty Nine		30 = Thirty		31 = Thirty One		32 = Thirty Two		33 = Thirty Three		34 = Thirty Four		35 = Thirty Five		36 = Thirty Six		37 = Thirty Seven		38 = Thirty Eight		39 = Thirty Nine		40 = Forty		41 = Forty One		42 = Forty Two		43 = Forty Three		44 = Forty Four		45 = Forty Five		46 = Forty Six		47 = Forty Seven		48 = Forty Eight		49 = Forty Nine		50 = Fifty		51 = Fifty One		52 = Fifty Two		53 = Fifty Three		54 = Fifty Four		55 = Fifty Five		56 = Fifty Six		57 = Fifty Seven		58 = Fifty Eight		59 = Fifty Nine		60 = Sixty		61 = Sixty One		62 = Sixty Two		63 = Sixty Three		64 = Sixty Four		65 = Sixty Five		66 = Sixty Six		67 = Sixty Seven		68 = Sixty Eight		69 = Sixty Nine		70 = Seventy		71 = Seventy One		72 = Seventy Two		73 = Seventy Three		74 = Seventy Four		75 = Seventy Five		76 = Seventy Six		77 = Seventy Seven		78 = Seventy Eight		79 = Seventy Nine		80 = Eighty		81 = Eighty One		82 = Eighty Two		83 = Eighty Three		84 = Eighty Four		85 = Eighty Five		86 = Eighty Six		87 = Eighty Seven		88 = Eighty Eight		89 = Eighty Nine		90 = Ninety		91 = Ninety One		92 = Ninety Two		93 = Ninety Three		94 = Ninety Four		95 = Ninety Five		96 = Ninety Six		97 = Ninety Seven		98 = Ninety Eight		99 = Ninety Nine		100 = One Hundred	
P	L	476	530	BNAVREF		FRV/	3VM	4074P5	V3P4ZET=7)	35																																																																																																																																																																																																																				
RLTH	476	530	TIED BROWNISH-GRN MED CHL-BID-MAGN		FRV/	3VM	4074P5	V3P4ZET=7)	35																																																																																																																																																																																																																					
ASH AND XAL ANDOSI TUFF WITH SOME LAPILL (24mm) SIZED TUFF. LT-MED GRN-GRY MTX TO OR DOTTED. HARD TUFF WITH XALS & ASH IN OK SILIC-MAG MTX. GRAY QZ. VNS & MINICY QZ 1-1/2 IN THK CUT TUFF WITH NARROW. ALTN ENV. SOME SECTIONS OF LT GRNS ASSOC. WITH QZ FLOODING. BKN AND ZED. ALTN. GRN OCCURS DISSEM WITH PTH (GANG. BT +0.15% +0.20% Cu). SOME NARROW (<2 FT) RUNS OF OK GRN SPOTTED; POLYMINAL LOOKING. SIL. ALD RK (OFF) NICE VAGUE FLD PHENOS. DCLD FROM 15/2. OFF QZ. VNS GEN AT <30° S/A. (CARB AND ZED VNS AND MAND VNS INCR. TO BTH CONTACT).																																																																																																																																																																																																																														
P	L	530	549	INRXREF		FR/BR	3V2	6075	V370ZCTH7)	64																																																																																																																																																																																																																				
RLTH	530	549	LT GRAY, SPOTTED OK GRN, MED CHL-QZ-SERPH-BID MAG		FR/BR	3V2	6075	V370ZCTH7)	64																																																																																																																																																																																																																					
INT. GRX OK IN NW. OF QZ-CAL DIKE AS 549 F. MAG FRAGS OF TUFF AND QZ IN SILIC MTX AND LT BY ZEO-CARB UNITS. VAGUE PHENOS OF FLD QZ. REMN. BLD ALSO LAP TUFF OCCURS 545-549. PFR RUNS 3-5%. RE HYDROFRACT. STRESS ANG JUM, ORIENTED. SOME NARROW (21 FT) SHOOT OF QZ. CPY PRES. IN REMN. TUFF																																																																																																																																																																																																																														
P	L	549	550	PPQFFX		PPKRTJCL	3VQ	1084	V3ZTH7)	74																																																																																																																																																																																																																				
RLTH	549	550	GRN-GRN MED TRACT'D QZ-CAL SERPH ALD. MED-COAR. GRN'D		PPKRTJCL	3VQ	1084	V3ZTH7)	74																																																																																																																																																																																																																					
QZ-FLD PORPHYRY. SUB-GRAN. QZ PHENOS TO 1 CM COMP. AST 10 TO FINE FRACT. FLD. PHENOS VAGUE, MASKED BY SIL. ALTN. PHENOS ALD TO CHL+SERPH COM. AST 10 TO 50 WITH MOST OF QZ WITH QZ VNS AND QZ. PFR RUNS 3%. RE CRACKLOS CUT QZ. LOW EN CNT MARKED BY BKN AND QZ VAGUE																																																																																																																																																																																																																														



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599-720-**KEYPUNCHED**

IDENTITY DATA		SURVEY DATA		UPPER TIE		LOWER TIE		ASSAY DATA		ENTRY		GRAPHIC	
NO.	FLAG	FORMAT	VERSION	NO. TYPE	NO. OF DRILLING TRENCHES	NO. OF CORE OR HOLE	DATE AND TIME	DATE AND TIME	DATE AND TIME	DATE AND TIME	DATE AND TIME	DATE AND TIME	DATE AND TIME
1	2	3	4	5	6	7	8	9	10	11	12	13	14
P	552	604											
L													
RTX	552	604											
MIXED MEDIUM WHITE BROWNISH GRAY QZ-CR+L-MAGN-BIO JERIC ALTD. QZ VNS, MILK VNS, SHERALD AND BXYD ASH-LAPILL TUFF 1/15 IS LOWER ZONE OF QZ. SOME OF THE QZ. HAS VNS POKE TXF - PUS. POKE FRAGS QZ. FLOODING LEAVES (M. CHL-SEK AND LAP. WITH WT. REACTION RIMS IN SINK MIX.													
P	582	587											
L													
RTX	582	587											
A ZONE OF STEEL SINKING AT 20-30° CA, BANDING OF QZ VNS, SOFT SINK, BOUZY MIX. QZ VNS SHIPD, AND BXYD, AND EXTEND UP OUT OF THIS ZONE. RK WREY LIT. PYR. LOW, 1-3° THE RK SHIPD IS AN ASH-YAN TUFF. FRAGS OF GR. 200-2 CALK IN SINK.													
P	604	699											
L													
RTX	604	699											
DARK GRAY WKKY FRAGS, MOD-SINK QZ-CR-MAGN ATN. PORPHYRIL-LOOKING RL (X.M. TUFF / POKE AND S.) WITH 50-55% TO GRAY-WT. FELD FUMPHIL AND SHERALD FRAGS 1-3CM IN LENGTH IN DL. QZ. MIGN. CHL. MIGN. D. DENSE PACKED MATRIX OF X.P.S. (FRAGS) 1-2.5mm DIA. PYR. DIS. AGG 3-5% - FINE SAND. MIGN. DIS. DISSED SPOTS AND VNS. L.P. DIS. DIS. WITH MY. SHERALD. QZ. H. CARBON VNS. AT 20-40° CA. CARBON VNS. AT 45 AND 0-15 SEE. SUGGEST RK IS X.M. TUFF													
P	637	651											
L													
RTX	637	651											
LAPILL TUFF MIGN. AT TOP AND BOTM OF SINKING AND BXYD AT LOW L TO 10 PUS QZ VNS													



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5 = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven 8 = Alpha Q 10 = Alpha I 2 = Alpha Z

KEYPUNCHED

0-126 JAF 28.02.23

NO	FLAG	FORMAT	NO. TYPE	ID OF DRILL HOLE TRAVERSE	DATE AND TIME	STATION	OFFSET	NORTHING	EASTING	ELEVATION
666				667						
A CRACKLED QTZ-MAGN VN MAGN WITH OR RED AND CML DCL AT 30° 9A										
IN B.CM 50% KRAMM TUFF AND IN MIDDLE WITH PK = CPT, BLESS/XMS										
DK GRN QTZ-MAGN IN MAGN TUFF VN HAVE NO ET. ACTUS ASSO.										
699				719						
BRXXREFR FR BR JGN SSH LGS5 VIA ZETI 1										
BNT SHAC										
699				719						
A MED GRN-GRN TO LGRTY MED FRAGTO BRECCIA WITH POORLY SORTED										
FRAGS 2mm - 30mm, 618-800, SLIGHTLY MILLER, OF FINE ASH TUFF										
SILK TUFF AND QTL. OBVIOUS FRAG MIXING - PHOS 9% VOLC 1% FRAGS										
GRN MAGNETS - POSS. JUST LAPILLI TUFF (COARSE LAPILLI)										
MOST OF SECTION IS STAG. SOME AUTO WITH T/D 50 DISS. PYR IN INTERSTICES IS										
BLESS & VINS. CIL WGRAL. GRN QTZ VNS AT 60 AND 0 9A										
CUT BXX 9 CUT BY JOUNGON QTZ-MAGN VNS SHOWN AT 60° AT 10M										
LON TAG. - REINPT CHANGTE LAPILLI TUFF										
719				745						
BVA IVF FRITANISO SNO 063 VIA ZETI										
LP UNZSHAC 3VN TO EDRS VI										
719				750						
A MED-DK GRN. WK FRAGD, COARSE LAPILLI TUFF WITH AUT 50% DARK										
CHL-MAGN, SUB-ROD, INKED AND COMPOSED PH AND X/L TUFF LAPILLI IN										
A MED-GRN COARSE ASH TUFF MIX. KL DOESN'T HAVE 11-01F. TUFF										
FROM ABOVE BXX, BUT HERE FRAGS ARE NOT STAG SILK. ATD										
MOST OF TUFF DARK IS 5-5mm SIZE SCOT. DK GRN QTZ VNS TO GEN W/O AR STNS.										
PYR GEN < 3% AGAIN. GRN QTZ VNS TO GEN W/O AR STNS.										
NO VIS CIL INK. FR QTZ VNS AND CRACKED TUFF FROM 739-745										
750				762						
BVA NOX IVF P/1 H183 3VR 6086 P1 VIA ZETI										
XL36 3VR 45 PS VI										
750				762						
DK, QTZ-MAGN AUTO PORPHYRIC LOOKING R/L 1-SIMILAR TO 604-699 AT										
WITH SADD QTZ VNS 5mm 1/5mm THK V/O BW. SOME PH VNS WITH										
SILK SILK VNS. SK MAGNETIC HARD - RINGS W/ STAG - PAPER AND										
PAPER TUFF. DK CH-MAGN AND 15 QTZ SMO CLAYS 10-20mm										
DIA COMP 40-50% IN DK, EG, CH-MAGN MIX. TUFF VNS										



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KEY		FLAG	FORMAT VERSION	REV. TYPE	ID OR DRILLHOLE TRAVELER NAME AND NUMBER	SIZE OF CORE (CM PICK)	YR	MON	DATE AND TIME	MIN	APT	BY	GEOLOGIC	Q = Zero	1 = One	2 = Two	3 = Three	4 = Four	5 = Five	6 = Six	7 = Seven	8 = Eight	9 = Nine	0 = Alpha 0	1 = Alpha 1	2 = Alpha 2	
I		D	E	N	S	6	8	0	5	D-152		JAF		86.05.03		KEYPUNCHED											
U	FLAG	FROM	TO	RECOVERY	F ₁₀₀ (%)	ROCK-SOIL	TYPIFY-MAT	CLAY-MAT	TEXTURE	GRAIN COUNT	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE		
L	FROM	FROM	TO	RECOVERY	F ₁₀₀ (%)	ROCK-SOIL	TYPIFY-MAT	CLAY-MAT	TEXTURE	GRAIN COUNT	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE		
A	FROM	FROM	TO	RECOVERY	F ₁₀₀ (%)	ROCK-SOIL	TYPIFY-MAT	CLAY-MAT	TEXTURE	GRAIN COUNT	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE		
R 762 7621 END OF HOLE																											



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S = Alpha S 0 = Zero 1 = One

2 = Alpha 0 1 = Alpha 1 2 = Alpha 2

KEYPUNCHED

IDENTIFY DATA		SURVEY DATA		UPPER SURVEY DATA		LOWER SURVEY DATA		CORRECTION	
NO.	FLAG	STATION VERSION	SPEC	IDENTITY OF PROJECT (UNIT OR PROJECT NUMBER)	NO. OF DRILL HOLE TRAVERSE	SIZE OF CORE OR HOLE	TYPE OF CORE	LOGGED BY	DRILLING BY
1	2	3	4	5	6	7	8	9	10
1	DEN	680202		0-126				SAF	
FROM		TO		TOTAL DEPTH LENGTH		AZIMUTH		NORTHING	
126.0		126.1		0 - 136.0		150		150	
126.0		126.1		136.0 - 142.0		150		150	
126.0		126.1		142.0 - 150.0		150		150	
126.0		126.1		150.0 - 163.0		150		150	
126.0		126.1		163.0 - 184.0		150		150	
126.0		126.1		184.0 - 205.0		150		150	
126.0		126.1		205.0 - 239.0		150		150	
126.0		126.1		239.0 - 300.0		150		150	
126.0		126.1		300.0 - 313.0		150		150	
126.0		126.1		313.0 - 348.0		150		150	
126.0		126.1		348.0 - 375.0		150		150	
126.0		126.1		375.0 - 400.0		150		150	
126.0		126.1		400.0 - 425.0		150		150	
126.0		126.1		425.0 - 450.0		150		150	
126.0		126.1		450.0 - 475.0		150		150	
126.0		126.1		475.0 - 500.0		150		150	
126.0		126.1		500.0 - 525.0		150		150	
126.0		126.1		525.0 - 550.0		150		150	
126.0		126.1		550.0 - 575.0		150		150	
126.0		126.1		575.0 - 600.0		150		150	
126.0		126.1		600.0 - 625.0		150		150	
126.0		126.1		625.0 - 650.0		150		150	
126.0		126.1		650.0 - 675.0		150		150	
126.0		126.1		675.0 - 700.0		150		150	
126.0		126.1		700.0 - 725.0		150		150	
126.0		126.1		725.0 - 750.0		150		150	
126.0		126.1		750.0 - 775.0		150		150	
126.0		126.1		775.0 - 800.0		150		150	
126.0		126.1		800.0 - 825.0		150		150	
126.0		126.1		825.0 - 850.0		150		150	
126.0		126.1		850.0 - 875.0		150		150	
126.0		126.1		875.0 - 900.0		150		150	
126.0		126.1		900.0 - 925.0		150		150	
126.0		126.1		925.0 - 950.0		150		150	
126.0		126.1		950.0 - 975.0		150		150	
126.0		126.1		975.0 - 1000.0		150		150	



Geolog System

Geoform

KEYPUNCHED

5 = Alpha 5 0 = Zero 1 = One 2 = Two 3 = Three 4 = Alpha 4 6 = Alpha 6 7 = Alpha 7

INTERPRETER'S LOCATION: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839.

Geoform

[illegible]

S.K.M.L.
POINT LOAD STRENGTH TEST

10/8

HOLE NO D126

DATE TESTED: _____

BY: _____

FOOTAGE	ROCK TYPE	D (CORE) (IN)	P Diameter (Psi) x Area (in ²) (LBS)	I _s = P/D ² (PSI)	S _c = 22 I _s N ₉₃ (PSI)	Comments
1		34	40	67	50	
2		5	45	8	50	
3		4	50	9	50	
4		7	45	70	50	
5		8	45	1	30	
6		9	20	2	40	
7		40	25	3	40	
8		1	45	4	40	
9		2	45	5	35	
10		3	30	6	50	
11		4	45	7	50	
12		5	45	8	40	
13		6	45	9	50	
4		7	45	20	45	
5	crsng	8	50	1	40	
6	35	9	50	2	45	
7	35	50	45	3	45	
8	35	1	40	4	45	
9	35	2	40	5	20	
20	35	3	40	6	50	
1	35	4	40	7		
2	40	5	40	8		
3	40	6	40	9		
4	45	7	35	90	45	
5	45	8	45	11	50	
6	35	9	45	2	40	
7	50	60	30	3	50	
8	50	1	35	4	45	
9	45	2	30	5	45	
30	50	3	35	6	35	
1	50	4	45	7	50	
2	50	5	45	8	40	
3	45	6	45	9	50	
				100	50	

ILC-RMR			HOLE No. 126 LOGGED BY G.H.P.			DATE 17 Feb LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	121	30		135	50		169	40
	2	50		6	—		70	50
	3	50		7	—		1	35
	4	25		8	—		2	35
	5	50		9	30		3	45
	6	35		140	45		4	40
	7	45		1	50		5	50
	8	25		2	35		6	20
	9	45		3	50		7	20
	110	—		4	40		8	50
	1	—		5	40		9	50
	2	—		6	50		180	50
	3	—		7	—		1	45
	4	—		8	—		2	50
	5	—		9	—		3	40
	6	—		150	—		4	50
	7	50		1	—		5	50
	8	45		2	—		6	35
	9	25		3	—		7	35
	120	50		4	45		8	20
	1	40		5	50		1	35
	2	35		6	—		190	20
	3	25		7	—		1	30
	4	25		8	—		2	40
	5	20		9	—		3	40
	6	25		160	—		4	30
	7	45		1	—		5	50
	8	45		2	—		6	50
	9	45		3	—		7	20
	130	50		4	35		8	50
	1	35		5	50		9	50
	2	50		6	45		200	40
	3	35		7	45			
	4	50		8	50			

ILC-RMR			HOLE No LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	201	20		35	35		69	50
	2	50		6	35		270	50
	3	50		7	20		1	25
	4	45		8	20		2	25
	5	45		9	15		3	50
	6	45		240	20		4	50
	7	35		1	50		5	40
	8	50		2	25		6	35
	9	35		3	50		7	35
	210	45		4	50		8	35
	1	15		5	50		9	15
	2	20		6	50		280	25
	3	40		7	50		1	25
	4	35		8	45		2	35
	5	50		9	45		3	35
	6	45		250	50		4	35
	7	45		1	45		5	20
	8	50		2	30		6	20
	9	1		3	20		7	35
	220	1		4	40		8	50
	1	1		5	50		9	45
	2	1		6	50		290	45
	3	1		7	35		1	25
	4	1		8	40		2	45
	5	50		9	40		3	20
	6	15		260	40		4	25
	7	20		1	40		5	25
	8	25		2	20		6	20
	9	15		3	30		7	30
	230	30		4	30		8	35
	1	35		5	40		9	45
	2	1		6	40		300	45
	3	1		7	35			
	4	1		8	50			

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B278

ILC-RMR			HOLE No. LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	301	35		35	20		69	20
	2	35		6	20		370	35
	3	20		7	20		1	45
	4	20		8	25		2	40
	5	35		9	25		3	15
	6	20		340	25		4	40
	7	35		1	50		5	40
	8	40		2	25		6	35
	9	25		3	45		7	45
	310	50		4	35		8	35
	1	45		5	15		9	45
	2	25		6	15		380	40
	3	40		7	20		1	40
	4	35		8	40		2	50
	5	35		9	45		3	35
	6	35		350	45		4	45
	7	40		1	20		5	40
	8	35		2	45		6	40
	9	20		3	35		7	50
	320	20		4	45		8	45
	1	15		5	45		9	40
	2	20		6	45		390	40
	3	30		7	35		1	45
	4	15		8	40		2	35
	5	40		9	25		3	50
	6	35		360	25		4	40
	7	15		1	20		5	45
	8	35		2	20		6	40
	9	25		3	20		7	40
	330	25		4	20		8	50
	1	30		5	25		9	45
	2	30		6	30		400	45
	3	25		7	30			
	4	35		8	25			

5078

ILC-RMR			HOLE NO LOGGED BY			DATE LOCATION			126
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING	
	40 1	45		35	15		69	25	
	2	40		6	20		470	35	
	3	45		7	40		1	35	
	4	35		8	35		2	40	
	5	45		9	20		3	45	
	6	50		4 40	20		4	35	
	7	40		1	35		5	45	
	8	35		2	45		6	40	
	9	40		3	40		7	45	
	410	45		4	45		8	35	
	1	50		5	45		9	45	
	2	40		6	45		480	35	
	3	45		7	35		1	45	
	4	40		8	25		2	50	
	5	35		9	40		3	35	
	6	50		450	40		4	50	
	7	45		1	35		5	50	
	8	45		2	40		6	40	
	9	35		3	35		7	40	
	420	45		4	35		8	35	
	1	45		5	40		9	45	
	2	35		6	50		490	35	
	3	35		7	50		1	50	
	4	50		8	45		2	15	
	5	50		9	45		3	50	
	6	40		460	45		4	50	
	7	50		1	45		5	45	
	8	15		2	40		6	45	
	9	45		3	50		7	50	
	430	45		4	50		8	50	
	1	40		5	25		9	40	
	2	45		6	30		500	50	
	3	15		7	50				
	4	25		8	50				

608

ILC-RMR		HOLE No LOGGED BY		DATE LOCATION				
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	501	35		35	45		69	35
	2	35		6	50		590	35
	3	35		7	35		1	25
	4	45		8	45		2	30
	6			9	50		3	35
	6			540	40		4	45
	7			1	50		5	50
	8			2	50		6	30
	9	35		3	35		7	45
	510	10		4	45		8	40
	1	35		5	45		9	45
	2	35		6	50		580	25
	3	40		7	45		1	25
	4	40		8	45		2	35
	5	40		9	50		3	25
	6	35		550	45		4	15
	7	40		6	40		5	20
	8	40		2	35		6	20
	9	40		3	35		7	30
	520	50		4	40		8	35
	1	40		5	45		9	40
	2	40		6	40		590	50
	3	35		7	35		1	50
	4	40		8	20		2	45
	5	45		9	25		3	45
	6	40		560	25		4	35
	7	45		1	35		5	45
	8	50		2	35		6	45
	9	40		3	25		7	40
	530	40		4	35		8	40
	1	35		5	45		9	30
	2	45		6	45		600	45
	3	40		7	50			
	4	50		8	45			

ILC-RMR			HOLE No D126 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	601	40		35	35		69	40
	2	40		6	35		670	45
	3	35		7	40		1	40
	4	40		8	40		2	30
	5	40		9	20		3	45
	6	40		640	45		4	45
	7	40		1	45		5	45
	8	40		2	40		6	40
	9	40		3	35		7	45
	45			4	25		8	35
610	40			5	35		9	40
1	45			6	45		680	40
2	40			7	50		1	40
3	45			8	50		2	40
4	40			9	50		3	35
5	40			6501	35		4	40
6	40			1	25		5	
7	40			2	45		6	
8	45			3	40		7	
9	40			4	35		8	35
620	35			5	40		9	35
1	45			6	45		690	35
2	40			7	45		1	35
3	45			8	40		2	35
4	45			9	35		3	35
5	35			660	45		4	35
6	35			1	40		5	30
7	40			2	45		6	20
8	40			3	40		7	35
9	35			4	35		8	40
630	35			5	25		9	45
1	35			6	50		700	50
2	35			7	15			
3	35			8	40			
4	35							

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ILC-RMR		HOLE NO D126 LOGGED BY			DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	701	45		35	45		69	
	2	45		6	35		770	
	3	50		7	35		1	
	4	50		8	40		2	
	5	50		9	35		3	
	6	50		740	25		4	
	7	45		1	35		5	
	8	25		2	35		6	
	9	45		3	45		7	
	710	35		4	35		8	
	1	50		5	45		9	
	2	50		6	35		780	
	3	35		7	40		1	
	4	45		8	40		2	
	5	45		9	35		3	
	6	25		750	35		4	
	7	25		1	35		5	
	8	45		2	35		6	
	9	30		3	40		7	
	720	45		4	50		8	
	1	40		5	45		9	
	2	50		6	35		790	
	3	50		7	40		1	
	4	40		8	40		2	
	5	35		9	45		3	
	6	45		760	40		4	
	7	45		1	35		5	
	8	45		2			6	
	9	45		3			7	
	730	45		4			8	
	1	50		5			9	
	2	50		6			800	
	3	50		7				
	4	40		8				

ROCK QUALITY DESIGNATION (R.Q.D.)

Pg 1 OF 2

HOLE #: D126

DATE: FEB 8/88

LOGGED BY: [Signature]

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)		R. Q. D.		# OF	FAC.
FROM	TO	INCHES	CUM. INCHES	REC. 2 (IN)	REC%	7/4"	8/0"	4"		FRACT.	INTENSITY
15	18	36	36	24	72	0	0	0		HIGH	
18	19	12	48	10	83	0	0	0		✓	
19	22	36	84	32	89	4	0	0		✓	
22	23	12	96	12	100	0	0	0		✓	
23	28	60	156	60	100	36	60			MODERATE	
28	33	60	216	55	92	37	62			✓	
33	34	12	228	12	100	4	33			✓	
34	39	60	288	60	100	32	53			✓	
39	42	36	324	36	100	21	58			✓	
42	47	60	384	58	97	54	90			LOW	
47	52	60	444	60	100	43	72			MODERATE	
52	57	60	504	60	100	24	40			✓	
57	62	60	564	56	93	22	37			✓	
62	65.5	42	606	30	71	16	38			✓	
65.5	70.5	60	666	60	100	43	72			✓	
70.5	75.5	60	726	60	100	33	55			✓	
75.5	80.5	60	786	60	100	40	67			✓	
80.5	85.5	60	846	55	92	24	40			✓	
85.5	90	54	900	54	100	48	89			LOW	
90	95	60	960	60	100	39	65			MODERATE	
95	99	48	1008	45	94	32	67			✓	
99	104	60	1068	60	100	54	90			LOW	
104	109	60	1128	60	100	34	57			MODERATE	
109	114	60	1188	60	100	41	68			✓	
114	119	60	1248	60	100	41	68			✓	
119	124	60	1308	60	100	28	47			✓	
124	129	60	1368	57	95	33	55			✓	
129	134	60	1428	60	100	46	77			✓	
134	139	60	1488	60	100	37	62			MODERATE	
139	144	60	1548	60	100	49	82			LOW	
144	149	60	1608	60	100	50	83			✓	
149	154	60	1668	60	100	44	73			MODERATE	
154	159	60	1728	60	100	55	92			LOW	
159	164	60	1788	60	100	56	93			✓	
164	169	60	1848	60	100	19	32			MODERATE	

ROCK QUALITY DESIGNATION (R.Q.D.)

Pg 2 of 5

WELL # : D126

DATE : FEB 8/88

LOGGED BY : [Signature]

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)		R. Q. D.		# of	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. (IN)	REC%	7/4"		7/4"		FRAC ³	INTENSITY
169	174	60	1908	60	100	32		53		Moderate	
174	179	60	1968	60	100	39		65		✓	
179	184	60	2028	60	100	51		85		Low	
184	188	48	2076	48	100	16		33		Moderate	
188	192	48	2124	48	100	22		46		✓	
192	197	60	2184	60	100	50		83		Low	
197	202	60	2244	60	100	35		58		Moderate	
202	207	60	2304	60	100	56		93		Low	
207	212	60	2364	60	100	43		72		Moderate	
212	217	60	2424	60	100	36		60		✓	
217	222	60	2484	60	100	59		98		Low	
222	227	60	2544	58	97	35		58		Moderate	
227	235	96	2640	59	61	5	MISMATCH	0		High	
235	239	48	2688	48	100	17		35		Moderate	
239	244	60	2748	60	100	46		77		✓	
244	249	60	2808	60	100	36		60		✓	
249	254	60	2868	60	100	36		60		✓	
254	259	60	2928	56	93	35		58		✓	
259	262	36	2964	31	86	5		0		High	
262	267	60	3024	60	100	35		58		Moderate	
267	272	60	3084	60	100	38		63		✓	
272	276.5	54	3138	54	100	29		54		✓	
276.5	282	66	3204	62	94	0	Gouge	0		High	
282	287	60	3264	60	100	22		37		Moderate	
287	292	60	3324	60	100	53		88		Low	
292	297	60	3384	60	100	0	Gouge	0		High	
297	301	48	3432	40	83	20		42		Moderate	
301	306	60	3492	60	100	16	Gouge	0		High	
306	309	36	3528	36	100	0		0		✓	
309	314	60	3588	58	97	39		65		Moderate	
314	316	24	3612	24	100	8		33		✓	
316	321	60	3672	60	100	43		72		✓	
321	325	48	3720	45	94	24		50		✓	
325	329	48	3768	46	96	15		31		✓	
329	331	24	3792	20	83	7		29		✓	

ROCK QUALITY DESIGNATION (R.Q.D.)

Pg 3 of 5

HOLE #: D126

DATE: FEB 8/88

LOGGED BY: [Signature]

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)	R. Q. D.			# OF	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. # (IN)	REC %	7/4"	%	4"		FRAC. #	INTENSITY
331	333	24	3816	24	100	0	0	0		HIGH	
333	337	48	3864	32	67	0	0	0		✓	
337	339	24	3888	24	100	0	0	0		✓	
339	342	36	3924	36	100	22	61			Moderate	
342	345	36	3960	31	86	20	56			✓	
345	348	36	3996	30	83	6	0			HIGH	
348	353	60	4056	56	93	37	62			Moderate	
353	358	60	4116	60	100	39	65			✓	
✓ 358	363	60	4176	60	100	26	43			✓	
363	368	60	4236	60	100	23	38			✓	
368	373	60	4296	60	100	41	68			✓	
373	377	48	4344	41	85	13	27			✓	
✓ 377	382	60	4404	60	100	27	45			✓	
382	386	48	4452	44	92	25	52			✓	
386	390.5	54	4506	51	94	32	59			✓	
390.5	395	54	4560	54	100	31	57			✓	
395	400	60	4620	60	100	42	70			✓	
400	404	48	4668	48	100	14	29			✓	
404	409	60	4728	60	100	40	67			✓	
409	414	60	4788	60	100	42	70			✓	
414	419	60	4848	60	100	28	47			✓	
419	421	24	4872	24	100	13	54			✓	
421	423	24	4896	20	83	0	0			HIGH	
423	428	60	4956	60	100	37	62			Moderate	
428	433	60	5016	60	100	26	43			✓	
433	438	60	5076	60	100	31	52			✓	
438	441	36	5112	36	100	4	0			HIGH	
441	446	60	5172	60	100	26	43			Moderate	
446	451	60	5232	60	100	37	62			✓	
451	454	36	5268	36	100	11	31			✓	
454	459	60	5328	49	82	37	62			✓	
459	463.5	54	5382	48	89	26	48			✓	
463.5	468	54	5436	54	100	35	65			✓	
468	472	48	5484	43	90	27	56			✓	
472	474	24	5508	24	100	16	67			✓	

ROCK QUALITY DESIGNATION (R.Q.D.)

P. 4 OF 5

PILE #: D126

DATE: FEB 9/88

LOGGED BY: [Signature]

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)		R. Q. D.		# OF	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. 2 (IN)	RECT	7/4"	8/0 4"			FRAC. 3	INTENSITY
474	478	48	5556	48	100	35	73			MODERATE	
478	483	60	5616	60	100	51	85			LOW	
483	488	60	5676	60	100	32	53			MODERATE	
488	493	60	5736	60	100	44	73			✓	
493	498	60	5796	55	92	43	72			✓	
498	503	60	5856	60	100	33	55			✓	
503	508	60	5916	57	95	25	42			✓	
508	513	60	5976	60	100	14	0			HIGH	
513	518	60	6036	60	100	15	0			✓	
518	523	60	6096	60	100	26	43			MODERATE	
523	528	60	6156	60	100	41	68			✓	
528	533	60	6216	60	100	36	60			✓	
533	538	60	6276	56	93	43	72			✓	
538	543	60	6336	60	100	46	77			✓	
543	548	60	6396	60	100	43	72			✓	
548	553	60	6456	60	100	45	75			✓	
553	558	60	6516	60	100	34	57			✓	
558	563	60	6576	60	100	32	53			✓	
563	568	60	6636	60	100	46	77			✓	
568	573	60	6696	60	100	27	45			✓	
573	578	60	6756	60	100	30	50			✓	
578	583	60	6816	53	88	27	45			✓	
583	584	12	6828	9	75	0	0			HIGH	
584	589	60	6888	60	100	20	33			MODERATE	
589	594	60	6948	60	100	45	75			✓	
594	599	60	7008	60	100	41	68			✓	
599	604	60	7068	60	100	53	88			LOW	
604	609	60	7128	60	100	24	40			MODERATE	
609	612	36	7164	36	100	18	50			✓	
612	616	48	7212	34	71	10	21			✓	
616	620	48	7260	44	92	16	33			✓	
620	624	48	7308	48	100	24	50			✓	
624	629	60	7368	60	100	6	0			HIGH	
629	634	60	7428	60	100	13	0			HIGH	
634	639	60	7488	57	95	33	55			MODERATE	

ROCK QUALITY DESIGNATION (R.Q.D.)

Pa 5 of 5

WELL # : D126

DATE : FEB 10/88

LOGGED BY : [Signature]

FOOTAGES (FT)		INTERVAL		CORE	%	CUMUL. LENGTH OF PIECES (INCHES)		R. Q. D.			# of	FRAC.
FROM	TO	INCHES	CUM. INCHES	REC. (IN)	REC%		7/4"	%	4"		FRAC. 3	INTENSITY
639	644	60	1548	60	100		28		47		MODERATE	
644	649	60	1608	60	100		48		80		LOW	
649	654	60	1668	60	100		33		55		MODERATE	
654	659	60	1728	60	100		24		40		✓	
659	664	60	1788	60	100		20		33		✓	
664	669	60	1848	60	100		23		38		✓	
669	674	60	1908	60	100		38		63		✓	
674	678	48	1956	48	100		15		31		✓	
678	679	12	1968	9	75		0		0		HIGH	
679	683	48	8016	47	98		20		42		MODERATE	
683	687	48	8064	25	52		0		0		HIGH	
687	691	48	8112	26	54		5		0		✓	
691	696	60	8172	60	100		14		0		✓	
696	701	60	8232	60	100		29		48		MODERATE	
701	706	60	8292	60	100		58		97		LOW	
706	711	60	8352	58	97		51		90		✓	
711	716	60	8412	59	98		38		63		MODERATE	
716	721	60	8472	57	95		41		68		✓	
721	726	60	8532	60	100		58		97		LOW	
726	729	36	8568	36	100		34		94		✓	
729	734	60	8628	60	100		48		80		✓	
734	739	60	8688	53	88		18		30		MODERATE	
739	744	60	8748	60	100		28		47		✓	
744	748	48	8796	48	100		18		38		✓	
748	753	60	8856	56	93		13		22		✓ / HIGH	
753	755	24	8880	24	100		20		83		LOW	
755	758.5	42	8922	35	83		15		36		MODERATE	
758.5	762	42	8964	34	81		4		0		HIGH	

END OF HOLE.

D127



Geolog System

Geotoni

S = Alpha S 0 = Zero 1 = One 2 = Two 3 = Three 4 = Four 5 = Five 6 = Six 7 = Seven 8 = Eight 9 = Nine 10 = Ten 11 = Alpha 1 12 = Alpha 2

KEYPUNCH

| 1 or i = Alpha 1 2 = Alpha 2

[illegible]



Lynx
Geosystems Inc

Geolog System

KEYPUNCHED

Geologi

FLAG		STAMP		H-T		DATE AND TIME		GEOLOGIC		COMPLETED		COMMENT / REMARK		GRID NORTH		UNITS	
DI	PR	DI	PR	DI	PR	DI	PR	DI	PR	DI	PR	DI	PR	DI	PR	DI	PR
D-127		NA		JAF													
FROM	TO	F-S	O	A-Z	LOCKER	V-ANG	NEC	STATION	OFFSET	NEC	NORTHING	EASTING	ELEVATION				
FROM	TO	RECOVERY	ROCK-SOIL	TYPE-MAT	GALMAT	TEXTURE	GRAIN	FRACURE	STRUCT	STRK	CL	OR	ALTERNATION	MINERALIZATION	DEFAULT	SUMMARY	
FROM	TO	RECOVERY	ROCK-SOIL	TYPE-MAT	GALMAT	TEXTURE	GRAIN	FRACURE	STRUCT	STRK	CL	OR	ALTERNATION	MINERALIZATION	DEFAULT	SUMMARY	
172	183																
172	183																
183	224																
183	224																
224	237																
224	237																
237	255																
237	255																

172 183 XBVT FRSH 6 3SH 60 P7P1P1P3 67
 LPRR RR 6 3SH 60 P7P1P1P3 67
 SOFT STAINING L. SERIC. PRT'D TUFF WITH BROWN LAPID IN PYRITIC
 SERIC. MTX. SERIC. OF RK GRIP IN SERIC MUD 1-3cm THICK OCC. THR
 SECTION AT 60-90° C/A. GEN. NON-4 MET.

183 224 XBVT 6 3SH 40 P573P8 17
 LPRR 466C P573P8 17
 ROUND LARGE LAPILLI COMP. 50-60% WITH BROWN CIL-10 - PRT-10cm
 MENS OF LAP. WITH WHITE PRT' RIMS 1-3mm THK THE MOST
 COMMON. DIC GRAN CL. PAKIES GEN 5-10mm DIA common in
 the LAP. & MAY BE PRT'D HIL. PHANES MTX. IS STRE. 100% HOM
 PRT'D. AND COMP. OF TIGHT PACKED PRT' SIZE 1-10mm MTX
 SOFT, SERIC. AND 30cm's OCC. AT 100% (4cm), 101 (20cm), 210-211 (50cm)

224 237 XBVT 71
 LPRR 71
 DARK GRN, CIL. AND LAP. TO 3cm CHARACTERIZED AT UP TO 20%
 SPOTS OF PYRITE OCCUR IN REDDISH GRN-GRY MTX. LAP SHOW
 ETH BATTER BOUNDARIES - CIL. - PLATEL. WHEN DEPOSITED

237 255 XBVT 74
 LPRR 74
 A DARK, HARD, WKL. MASH. PRT'D AND STRE. XAL AND MSH. TUFF WITH PRT
 CIL. AND 200 TAMP. PRT'D. PASS. WELDED TUFF WITH PLOW -
 PRT'D. XAL & STRE. PRT'D. 50% COMP. OF NT-GRY AND XAL IN FINE PRT -
 PRT'D. DIC MTX. PRT'D. HIL. PHANES MTX. IS STRE. 100% HOM
 A GASSY TUFF. (LOW) PYR. CONT. (60%)



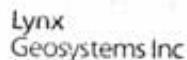
Geolog System

Geotoni

S = Alpha S 0 = Zero 1 = One 2 = Two 3 = Three 4 = Four 5 = Five 6 = Six 7 = Seven 8 = Eight 9 = Nine

KEYPUNCHES

3



Geolog System

Geotoni

HAG		CORRELATION		HUT		ID OF DRILLHOLE/TRACE/LOG		SIZE OF CORE		DATE AND TIME		GEOLOGICAL		COMPLETED		KEY		ELEVATION		MAG. OF	
D	N	E	S	W	U	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D-127		WQ																			
FROM		TO		P-S		AZIM		ELEVATION		STATION		OFFSET		MAG. OF		ELEVATION		MAG. OF			
FROM		TO		RECOVERY		ROCK-SOIL		TYPE/SAAT		TEXTURE		COLOR		STRUCTURE		STRENGTH		ALTERNATE MINERALIZATION		REMARKS	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV		R/O		ENV		R/O	
FROM		TO		R/O		ENV		R/O		ENV		R/O		ENV							



Geolog System

GeOlon

5 = Alpha 5 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O I or i = Alpha I Z = Alpha Z

FLAG		STATION		DATE AND TIME		S = Alpha S		0 = Zero		1 = One		2 = Two		7 = Seven		8 = Alpha O		I or I = Alpha I		Z = Alpha Z	



Geolog System

Geotop

[illegible]



Geolog System

Geography

[illegible]



Geolog System

Geotoni

[illegible]



Geolog System

Geotom

S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O I or i = Alpha I Z = Alpha Z

FLAG		FURNACE		ACT		SITE OF CORE		DATE AND TIME		CALCULATED		COMPLETED		COMMENT / REMARKS		GRID ALTIMETER		SUNSET							
DI	IN	DI	IN	DI	IN	DI	IN	DI	IN	DI	IN	DI	IN	DI	IN	DI	IN	DI	IN						
P		P		P		P		P		P		P		P		P		P							
FROM		TO		F-S		O		A-Z		CLOCKWISE		V-ANG		HIG		STATION		OFFSET		NORTHING		EASTING		ELEVATION	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO		RECOVERY		TYPE		ROCK-SOIL		TYP		T-M		CALC		HIG		COUNT		STRENGTH		STRENGTH		STRENGTH	
FROM		TO																							

Lynx
Geosystems Inc

Geolog System

Geotop

5 = Alpha 5 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O I or i = Alpha i Z = Alpha Z

[illegible]



Geolog System

Geography

Geological Log Sheet

DATE: 07/19/87

LOCATION: RSM 212

SECTION: 312X

UNIT: 452 - 465

DARK GREEN MODERATE AMPHIBOLITE + MAGNETITE ALTERED PYRITIC (S-10%)
ASH-LAPILLI TUFF WITH CLOTS OF PYRITE 1-4 CM DIA IN

UNIT: 465 - 485

LIGHT GREY MODERATE STROMBOLIAN QUARTZ ALTERED LAPILLI TUFF IN A
SILIC COARSE ASH MATRIX POSSIBLY A WELD TUFF MATRIX.

UNIT: 485 - 534

DARK REDDISH-GREEN (HEMATITE-CALCITIC), NEAR FRACTURED ASH-
LAPILLI TUFF TWO NARROW ZONES OF PRECATO-MAGNETIC BRECCIA.

UNIT: 534 - 543

TAN-GREEN STRONGLY FRACTURED, SHEARED, SERICITE-PYROPHYLLITE
ALTERED ASH TUFF SOME SOFT MUDDY CORE.

UNIT: 543 - 630

REDDISH-GREEN-GRAY COARSE ASH-LAPILLI TUFF. NEAR TO MODERATELY
FRACTURED AND OFTEN HEALED BY CALCITE-ZEOLITE VEINS. ABOUT 30%
OF SECTION HAS A PERVIOUS SERICITE ALTERATION ASSOCIATED WITH
QUARTZ VEINS AND/OR SHEARS.

UNIT: 630 - 640

A WEAK SILICEOUS ZONE WITH STRONG SERICITE & PYROPHYLLITE
ALTERATIONS. SHEARS ARE AT LOW ANGLE TO CORE AXIS WITH BROKEN,
AND DEFORMED CARBONATE-ZEOLITE VEINING.

UNIT: 640 - 670

Moderately fractured, QUARTZ VEINED, MEDIUM GREEN-GRAY COARSE
ASH-FINE LAPILLI TUFF. OVERALL ALTERATION = MODERATE CHL-SER-MAG

Lynx
Geosystems Inc

Geolog System

Geolog

S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O I = Alpha I Z = Alpha Z

FLAG		FORMAT		HOLE TYPE		HOLE NUMBER		HOLE DEPTH		DATE AND TIME		CLOCKED		COMPLETED		COMMENT		GRID		UNITS	
FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO
RSUM 0190 0191 670 - 60M HIGHLY QUARTZ-VEINED BIOT-LIL-MAG +/- SERICITIC ALTERED TUFF. MIXED ASH-FINCLAPILL TEXTURES ARE SOMEWHAT MASKED BY THE ALTERATIONS. TWO NOTABLE SERICITIC SHEARS, ONE AT 70M AND THE SECOND AT 80M. THE ROCK IS GENERALLY WEAK DUE TO THE HIGH DEGREE OF FRACTURING.																					

ILC-RMR		HOLE No D127 LOGGED BY			DATE 12-27 7 Mon - LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	1			35			169	40
	2			6			170	45
	3			7			1	45
	4			8			2	20
	5			9			3	20
	6			40			4	15
	7			1			5	20
	8			2			6	25
	9			3			7	15
	10			4			8	25
	1			5			9	25
	2			6			180	15
	3			7			1	25
	4			8			2	15
	5			9			3	15
	6			150			4	15
	7			1			5	35
	8			2			6	15
	9			3			7	35
	20			4			8	40
	1			5			9	40
	2			6			190	45
	3			7	40		1	20
	4			8	40		2	40
	5			9	40		3	35
	6			160	40		4	45
	7			1	40		5	45
	8			2	40		6	35
	9			3	40		7	45
	30			4	20		8	45
	1			5	45		9	45
	2			6	45		200	45
	3			7	30			
	4			8	40			

ILC-RMR		HOLE No D127 LOGGED BY		DATE LOCATION				
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	201	45		235	35		69	45
	2	45		6	35		270	50
	3	45		7	25		1	35
	4	45		8	45		2	35
	5	50		9	45		3	25
	6	50		240	45		4	25
	7	50		1	40		5	30
	8	50		2	50		6	15
	9	25		3	50		7	15
	210	35		4	45		8	50
	1	25		5	45		9	50
	2	50		6	45		280	50
	3	50		7	50		1	40
	4	15		8	50		2	45
	5	45		9	50		3	45
	6	45		250	50		4	45
	7	25		1	45		5	35
	8	45		2	50		6	35
	9	35		3	45		7	35
	220	30		4	50		8	40
	1	25		5	20		9	40
	2	35		6	35		290	45
	3	15		7	45		1	40
	4	15		8	40		2	35
	5	45		9	40		3	50
	6	50		260	50		4	50
	7	50		1	30		5	50
	8	50		2	45		6	50
	9	50		3	45		7	50
	230			4	45		8	50
	1			5	45		9	50
	2			6	40		300	50
	3			7	25			
	4			8	35			

ILC-RMR			HOLE No D127 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	301	50		335	35		69	
	2	40		6	50		370	
	3	50		7	45		1	
	4	45		8	40		2	
	5	46		9	35		3	
	6	50		340	50		4	
	7	50		1			5	
	8			2			6	
	9			3			7	
310				4			8	
1				5			9	
2				6			380	
3	40			7			1	
4	50			8			2	
5	50			9			3	
6	50			350			4	
7	45			1			5	
8	35			2			6	45
9	50			3	40		7	50
320	50			4	35		8	45
1	40			5	50		9	35
2	45			6	45		390	50
3	50			7	45		1	
4	45			8	45		2	
5	50			9	50		3	
6	45			360	50		4	35
7	45			1			5	35
8	35			2			6	50
9	40			3			7	50
330	40			4			8	45
1	45			5			9	45
2	40			6			400	50
3	35			7				
4	50			8				

498

ILC-RMR		HOLE No D127 LOGGED BY		DATE LOCATION				
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	40 1	45		435	50		69	40
	2	40		6	25		470	50
	3	45		7	50		1	
	4	50		8	45		2	
	5			9	45		3	
	6			440	50		4	
	7			1	50		5	
	8	45		2	50		6	
	9	35		3			7	
	410	50		4			8	
	1	50		5			9	
	2			6			480	
	3			7			1	
	4			8			2	35
	5			9			3	50
	6			450			4	
	7			1			5	
	8			2	30		6	
	9			3	45		7	45
	420			4	25		8	45
	1			5	35		9	40
	2			6	35		490	45
	3	35		7	30		1	45
	4	40		8	40		2	40
	5	40		9	40		3	40
	6	35		460	50		4	50
	7	35		1			5	50
	8	45		2			6	50
	9	50		3			7	50
	430	45		4			8	45
	1	40		5			9	45
	2	45		6			500	35
	3	50		7				
	4	50		8				

528

ILC-RMR		HOLE No D12- LOGGED BY			DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	501	50		535	25		69	50
	2	50		6	40		570	50
	3	50		7	20		1	35
	4	50		8	40		2	35
	5	45		9	35		3	45
	6	35		540	35		4	40
	7	50		1	25		5	45
	8	45		2	30		6	35
	9	45		3	35		7	45
	510	50		4	35		8	25
	1	40		5	45		9	35
	2	45		6	15		580	40
	3	40		7	40		1	45
	4	40		8	45		2	35
	5	45		9	45		3	45
	6	35		550	45		4	35
	7	45		1	45		5	40
	8	30		2	35		6	25
	9	50		3	45		7	35
	520	50		4	35		8	35
	1	40		5	35		9	35
	2	35		6	40		590	50
	3	45		7	45		1	40
	4	45		8	45		2	15
	5	40		9	15		3	20
	6	45		560	45		4	20
	7	45		1	45		5	15
	8	50		2	15		6	45
	9	50		3	35		7	45
	530	35		4	20		8	50
	1	40		5	20		9	35
	2	45		6	30		600	20
	3	40		7	20			
	4	45		8	50			

6578

ILC - RMR		HOLE NO LOGGED BY			DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	601	20	P47	635	20		69	15
	2	20		6	30		670	25
	3	20		7	30		1	35
	4	20		8	25		2	20
	5	15		9	15		3	45
	6	35		640	40		4	45
	7	50		1	40		5	35
	8	50		2	20		6	45
	9	15		3	45		7	50
	610	45		4	30		8	35
	1	15		5	50		9	40
	2	40		6	35		680	35
	3	35		7	35		1	40
	4	35		8	35		2	35
	5	45		9	40		3	40
	6	45		650	45		4	45
	7	35		1	50		5	45
	8	40		2			6	40
	9	15		3			7	40
	620	35		4			8	45
	1	45		5			9	45
	2	45		6			690	70
	3	25		7	35		1	35
	4	50		8	45		2	40
	5	15		9	50		3	40
	6	40		660	45		4	35
	7	40		1	15		5	40
	8	35		2	45		6	45
	9	40		3	45		7	40
	630	20		4	35		8	45
	1	20		5	45		9	35
	2	15		6			700	45
	3	15		7				
	4	30		8				

ILC-RMR		HOLE No		DATE		LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	701	45		735	40		69	45
	2	35		6	45		770	45
	3	45		7	45		1	45
	4	35		8	50		2	45
	5	35		9	35		3	35
	6	35		140	45		4	50
	7	40		1	45		5	50
	8	15		2	35		6	35
	9	15		3	50		7	50
	710	35		4	50		8	40
	1	35		5	50		9	45
	2	45		6	40		780	
	3	35		7	35		1	
	4	45		8	50		2	
	5	35	2200 AX	9	50		3	45
	6	35		750	35		4	
	7	35		1	35		5	
	8	40		2	35		6	
	9	35		3			7	
	720	45		4			8	45
	1	45		5			9	45
	2	35		6	40		790	45
	3	40		7	45		1	45
	4	45		8	35		2	45
	5	50		9	45		3	40
	6	45		760	35		4	40
	7	45		1	35		5	50
	8	45		2	45		6	50
	9	40		3	35		7	45
	730	45		4	45		8	35
	1	35		5	40		9	50
	2	35		6	40		800	50
	3	45		7	35			
	4	40		8	35			

82/8

ILC-RMR		HOLE No D127 LOGGED BY			DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	80 1	45		35			69	
	2	50		6			70	
	3	35		7			1	
	4	40		8			2	
	5	35		9			3	
	6	40		40			4	
	7	35		1			5	
	8	35		2			6	
	9	35		3			7	
	810	40		4			8	
	1	40		5			9	
	2	45		6			80	
	3	45		7			1	
	4	40		8			2	
	5	40		9			3	
	6	35		50			4	
	7	45		1			5	
	8	40		2			6	
	9	35		3			7	
	820			4			8	
	1			5			9	
	2			6			90	
	3			7			1	
	4			8			2	
	5			9			3	
	6			60			4	
	7			1			5	
	8			2			6	
	9			3			7	
	30			4			8	
	1			5			9	
	2			6			00	
	3			7				
	4			8				

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D127

DATE

Feb 24/88

LOGGED BY

J. E. Core

FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE
FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	INTENSITY
142	147	60	60	27	45	8	0	HIGH
147	157	120	180	23	19	0	0	✓
157	161	48	228	18	38	9	0	✓
161	163	24	252	9	38	0	0	✓
163	167	48	300	37	77	11	23	MODERATE
167	172	60	360	60	100	32	53	✓
172	177	60	420	60	100	6	0	HIGH (Gouge)
177	182	60	480	60	100	42	70	MODERATE
182	187	60	540	60	100	18	30	✓
187	192	60	600	60	100	42	70	✓
192	196	48	648	41	85	23	48	✓
196	199	36	684	30	83	12	33	✓
199	204	60	744	58	97	25	42	✓
204	209	60	804	60	100	43	72	✓
209	214	60	864	60	100	35	58	✓
214	219	60	924	60	100	35	58	✓
219	224	60	984	60	100	39	65	✓
224	229	60	1044	56	93	49	82	LOW
229	234	60	1104	60	100	48	80	✓
234	237	36	1140	31	86	4	0	HIGH
237	241	48	1188	48	100	39	81	LOW
241	246	60	1248	57	95	45	75	MODERATE
246	251	60	1308	53	88	42	70	✓
251	256	60	1368	60	100	27	45	✓
256	260	48	1416	48	100	19	40	✓
260	264	48	1464	48	100	26	54	✓
264	267	36	1500	36	100	11	31	✓
267	268	12	1512	9	75	0	0	HIGH
268	272	48	1560	48	100	25	52	MODERATE
272	277	60	1620	60	100	15	0	HIGH
277	282	60	1680	60	100	47	78	MODERATE/LOW
282	287	60	1740	60	100	22	37	MODERATE
287	292	60	1800	60	100	24	40	✓
292	297	60	1860	60	100	47	78	MODERATE/LOW

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D127

DATE

Feb 25/88

LOGGED BY

J. E. Cox

FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE INTENSITY
FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"		
297	302	60	1920	60	100	48	80	low
302	307	60	1980	60	100	45	75	Moderate/Low
307	312.5	66	2046	62	94	51	85	low
312.5	318	66	2112	60	91	42	70	Moderate/Low
318	323	60	2172	60	100	45	75	✓
323	325	24	2196	24	100	20	83	low
325	329	48	2244	48	100	27	56	Moderate
329	334	60	2304	60	100	42	70	Moderate/Low
334	339	60	2364	60	100	35	58	Moderate
339	344	60	2424	60	100	54	90	low
344	349.5	66	2490	61	92	60	91	low
349.5	355	66	2556	60	91	47	78	Moderate/Low
355	358.5	42	2598	42	100	27	64	Moderate
358.5	360	18	2616	18	100	16	89	low
360	365	60	2676	58	97	55	92	low
365	369	48	2724	47	98	37	77	low
369	374	60	2784	58	97	55	92	low
374	379	60	2844	60	100	57	95	low
379	384	60	2904	60	100	41	68	Moderate/Low
384	389	60	2964	60	100	39	65	Moderate
389	394	60	3024	60	100	43	72	✓
394	399	60	3084	53	88	40	67	✓
399	404	60	3144	60	100	39	65	✓
404	409	60	3204	54	100	40	67	✓
409	414	60	3264	60	100	50	83	low
414	419	60	3324	60	100	57	95	low
419	424	60	3384	60	100	49	82	low
424	427	36	3420	27	75	9	33	Moderate
427	432	60	3480	60	100	44	73	✓
432	437	60	3540	60	100	49	82	low
437	442	60	3600	60	100	47	78	low
442	447	60	3660	60	100	51	85	low
447	452	60	3720	60	100	41	68	Moderate
452	457	60	3780	60	100	40	67	✓

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO. D127DATE Feb 26/88LOGGED BY [Signature]

FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE
FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	INTENSITY
457	462	60	3840	60	100	48	80	low
462	467	60	3900	60	100	60	100	✓ (7 FRACTURE)
467	471	48	3948	45	94	38	79	✓
471	476	60	4008	60	100	57	95	✓
476	481	60	4068	60	100	52	87	✓
481	486	60	4128	60	100	55	92	✓
486	491	60	4188	60	100	42	70	MODERATE
✓ 491	496	60	4248	60	100	46	77	MODERATE/LOW
496	501.5	66	4314	58	88	38	58	MODERATE
501.5	507	66	4380	62	94	37	56	✓
507	512	60	4440	60	100	45	75	✓
512	516	48	4488	48	100	16	33	✓
516	521	60	4548	56	93	39	65	✓
521	525	48	4596	48	100	30	63	✓
525	530	60	4656	60	100	40	67	✓
530	535	60	4716	50	83	30	50	✓
535	539	48	4764	47	98	30	63	✓
539	541.5	30	4794	26	87	4	0	HIGH
541.5	546	54	4848	48	89	21	39	MODERATE/HIGH
546	551	60	4908	60	100	26	43	MODERATE
551	556	60	4968	60	100	14	23	MODERATE/HIGH
✓ 556	558	24	4992	24	100	15	63	MODERATE
558	561.5	42	5034	34	81	28	67	✓
561.5	567	66	5100	62	94	14	0	HIGH (Gouge)
567	572	60	5160	60	100	27	45	MODERATE
572	577	60	5220	60	100	23	38	✓
577	582	60	5280	58	97	28	47	✓
582	587	60	5340	60	100	35	58	✓
587	592	60	5400	60	100	40	67	✓
592	593	12	5412	9	75	0	0	HIGH (Gouge)
593	598	60	5472	55	92	34	57	MODERATE
598	603	60	5532	58	97	25	42	✓
603	608	60	5592	60	100	34	57	✓
608	613	60	5652	60	100	32	53	✓

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D127

DATE

Feb 29/88

LOGGED BY

J. E. One

	FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE INTENSITY
	FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	
✓	613	618	60	5712	60	100	33	55	MODERATE
	618	623	60	5772	60	100	39	65	✓
	623	628	60	5832	60	100	49	82	LOW
	628	633	60	5892	60	100	21	35	MODERATE
	633	638	60	5952	60	100	25	42	✓
	638	643	60	6012	60	100	46	77	✓
	643	648	60	6072	60	100	43	72	✓
	648	653	60	6132	54	90	45	75	✓
	653	658	60	6192	58	97	39	65	✓
	658	663	60	6252	60	100	39	65	✓
	663	668	60	6212	60	100	38	63	✓
	668	669	12	6324	12	100	0	0	HIGH
	669	674	60	6384	60	100	27	45	MODERATE
	674	679	60	6444	60	100	29	48	✓
	679	682	36	6480	36	100	8	0	HIGH
	682	687	60	6540	60	100	33	55	MODERATE
	687	691	48	6588	44	92	17	35	✓
	691	693	24	6612	11	46	4	0	HIGH
	693	698.5	66	6678	60	91	35	53	MODERATE
	698.5	704	66	6744	62	94	26	39	✓
	704	706	24	6768	21	88	0	0	HIGH
	706	709	36	6804	36	100	0	0	✓
	709	714	60	6864	60	100	22	37	MODERATE
	714	717	36	6900	36	100	9	0	HIGH
	717	722	60	6960	60	100	27	45	MODERATE
	722	727	60	7020	60	100	39	65	✓
	727	732	60	7080	60	100	15	0	HIGH
	732	737	60	7140	60	100	30	50	MODERATE
	737	742	60	7200	60	100	37	62	✓
	742	747	60	7260	60	100	43	72	✓
	747	752	60	7320	58	97	31	52	✓
	752	755	36	7356	36	100	5	0	HIGH
	755	758	36	7392	29	81	10	28	MODERATE
	758	763	60	7452	48	80	23	38	✓

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D127

DATE

Feb 29/88

LOGGED BY



FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE
FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	INTENSITY
763	768	60	7512	60	100	9	0	High
768	773	60	7572	57	95	23	38	Moderate
773	778	60	7632	60	100	29	48	✓
778	783	60	7692	60	100	28	47	✓
783	788	60	7752	60	100	38	63	✓
788	793	60	7812	60	100	22	37	✓
793	798	60	7872	57	95	38	63	✓
798	803	60	7932	58	97	33	55	✓
803	805	24	7956	24	100	5	0	High
805	808	36	7992	36	100	11	31	Moderate
808	813.5	66	8058	64	97	33	50	✓
813.5	819	66	8124	66	100	18	0	High

END OF HOLE



Geolog System

Geotoni

5 = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven 0 = Alpha O 1 or i = Alpha I 2 = Alpha Z

[illegible]



Geolog System

Georoni

[illegible]

lynx
Geosystems Inc

Geolog System

CULTURE: V3 SPHALERITE VS P.
ROCK: PEBBLE DIKE
BODY: Two

S = Alpha S 0 = Zero T = One Ø = Alpha O I = Alpha I Z = Alpha Z

FLAG		CLAMAT	INT	TO AFFORD PROSPECTING	SIZE OF CORE	DATE AND TIME	COLLECTED	COMPLETED	COMMENT / REMARK	CORE AZIMUTH	UNITS	
		0 0 5		D-128								
FROM	TO	P-S	O	AZM	CLOCKWISE FROM TRUE N	VI-ANG	REC'D	STATION	OFFSET	NORTHING	EASTING	ELEVATION
FROM	TO	RECOVERY		ROCK-SOL	TYPE-MAT	DALMAT	TEXTURE	GRAIN	FRAC-TION	STRUCT	ALTERATION	UNITS
FROM	TO	RECOVERY		ENV	RTD	CC	TMU	QMU	TH	TH	TH	TH
273.5	277			X BVAT	LPY			VCTP3N80	2VS	70	Q8	6+
277	329			X BVAT	LP4G				2BN	75	2E	
308	326			OCC DEFORMATION				BANDING OF PHENOS-MAT		E2	Q5	V3
				POSS AMYGDALES								
329	338.8			BVAT							Q4	8+
329	338.8			WK CHL ALT	C/W PATCHES			TO 5 CM COMPRISED OF WH OR CORE SURROUND			Q5T3	17
				BY STR EPI	ENV 3-5 MM THK			S DIAUSE HEM STN			PT A/W EPI TO 52	
				S.C. OF THESE ALT'D ZONES				IN INTERVAL			PERVWK CHL ALT	WK SER
338.8	346			ENV.	PBCKRE			TRBLANTO	2VS	70	RP6+	
338.8	346			PEBBLE DIKE	AS DEG TO C/A			ASST D FRAGS GENLY FQ 1- PORPH C			E3B4	T/M
				TXT FRAGS	PRESUMABLY ANDES			WITH HLY VARIABE ALT'D INCL: STR				
				SER +/- PY +	PYROPH: MOD CHL			WK MEM. MATR AC PALE ROCK FLOUR				
346	393.5			+ S-7X VFO	PY. SEVERAL 2W/PY VNS			TO 1 CM NOTED.				
				QVAN	T/							
346	393.5			MED GRN-BLU	C/GRN ANDES			C/V VAGUE TUFF TXT			E/B4 Q4	22
				APPEARANCE	MOD RPA			CHL ALT, LOC PATENY MAG				
				CALC VNG. 2	3-2% EUH			DLS PY + MINOR VLT/FE			WK V. PALE 200 27-	
376.5	392.5			IN MAC ALT D ZONES	OCC FO PORPH TXT			IN ANDES (FRAGS?)				
				SBVAN								
376.5	392.5			S-7X PY IN	3-10 M VNS			34-78 DES TO C/A. TA DIPS SP4.				
393.5	421			20. BVAT	VF.			T/ 25				
				LP4G								
393.5	421			STR. INT SUR	ALT'D ZONE			IACL SHORT RUN CLAY			88Q3	Q1M3
				SUGGESTING	ALT'D RATHER THAN			STRUCTURAL CONTGOL				
				EGTL - MED LAP	TUFF. V WK CORE			LOW REC'Y				
421	460.5			BVAT	VF.			VC 32m				
				LP50								
421	460.5			ALTERNATIVE	MED GRN MOD CHL			ALT'D ANDES: LT CV STR			83B5Q3	
				TXT RANGES	FINE ASH-MED LAP			ZONES ALTERNATE				
				TO 45	THEN CHL DOMINATES			WITH SER RUNS TO 10 CM				

[illegible]

CHRYSLER INC.

62000

S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O 1011 = Alpha I 7 = Alpha Z

[illegible]

UCUSU:

[illegible]

Lyons
Geosystems Inc

Geolog System

Geology

FLAG		STATION		TOYALCMENT (TRAVEL)		SOF OF CORE		DATE AND TIME		CLOCK OCCUR		COMPLETED		COMMENT / REMARK		COORDINATE		UNIT	
				NAME AND NUMBER		TYPE		DAY		BY		DAY				NORTH		EAST	
				D-11218															
FROM	TO	F.S.	D.	A.Z.M.	CLOCKWISE	V.ANG.	NICH.	STATION		OFFSET		NORTHING		EASTING		ELEVATION			
FROM	TO	RECOVERY	ROCK SOIL	TYPICAL	QAL	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST
FROM	TO	RECOVERY	ROCK SOIL	TYPICAL	QAL	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST
714.7	723.7			LNBRXRT				RR	346N		2.1	66.43	35	63.43	35	63.43	35	63.43	35
714.7	723.7			WELL CEMENTED				2A20	4	2.1	66.43	35	63.43	35	63.43	35	63.43	35	63.43
				AND FRAGS GEM				3-30	MM										
				FIGTL. COMIT				10%											
				60% CREAM				LT											
				LACK OF FAULT				2											
720.7	733.9			BV ANVIF				T/	3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43
723.7	733.9			STR SER ALT				1	3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43
				THINK				2	2	2.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
733.9	736			FAULT				BRBN	3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43
733.9	736			MINOR SV				AG	3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43
				SUGGEST				3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43	35
				SIGNIF				3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43	35
736	759.5			MOD. CHL				PPAN	3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43
736	759.5			OK ON CHL				40	3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43
				PT 60/A				3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43	35
759.9	822			MATR. AT				3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43	35
759.9	822			FAIRLY UN				3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43	35
				BE OUTL				3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43	35
				TAN/GT				3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43	35
792.5	798			INC. PY				3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43	35
804	812			CW 2-S				3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43	35
820	822			X BVIAT				3	3.0	30.43	35	63.43	35	63.43	35	63.43	35	63.43	35

66666

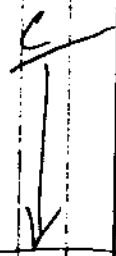
S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O I or i = Alpha I Z = Alpha Z

UUCU

S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O 101 = Alpha I 2 = Alpha Z

ID NUMBER		DATE AND TIME		BY		COMMENT / REMARK		CROSS SECTION		UNITS	
FROM	TO	DATE	TIME	BY	TO	DATE	TIME	REMARKS	SECTION	UNIT	
D-12R								KEYPUNCHED			
FROM	TO	S-S	O' AZM	CLOCKWISE FROM PLAN	V-ANG	HIGH	STATION	OFFSET	NORTHING	EASTING	ELEVATION
FROM	TO	REL-VIEW	ROCK-SOIL	TYPE-MAT	DI-MAT	TEXTURE	GRAIN	REMARKS	TO	TO	TO
FROM	TO	RECOVERY	RECOVERY	RECOVERY	RECOVERY	RECOVERY	RECOVERY	RECOVERY	RECOVERY	RECOVERY	RECOVERY
RSUM 733-5-842 WEAK-MODERATE CHLORITE/SERICITE ALTERED ANDESITE LAPILLI TUFFS CONCRETE ROCK WITHOUT MAJOR STRUCTURES 842-852 WEAK FAULT ZONES IN ANDESITE TUFFS. WEAK SERICITE ALTERATION 852-928 ANDESITE TUFFS WITH WEAK CHLORITE/MAGNETITE ALTERATION AND MODERATE CARBONATE/ZEOLITE VEINING											

ILC-RMR			HOLE NO. D 128 LOGGED BY			DATE 8 Mar 88 LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	101			135	35		69	40
	2			6	40		170	40
	3			7	50		1	35
	4			8	45		2	50
	5			9	30		3	35
	6			140	35		4	25
	7			1	35		5	35
	8			2			6	40
	9			3			7	35
	110			4			8	40
	1			5			9	50
	2			6			180	40
	3			7	40		1	45
	4			8	40		2	40
	5			9	40		3	40
	6			150	40		4	50
	7			1	40		5	40
	8			2	40		6	35
	9			3	40		7	50
	120			4	40		8	40
	1			5	40		9	45
	2			6	25		190	45
	3	40		7	35		1	35
	4	40		8			2	45
	5	50		9			3	30
	6	45		160			4	45
	7	35		1			5	45
	8	35		2	45		6	35
	9	40		3	45		7	45
	130	50		4	45		8	40
	1	50		5	45		9	40
	2	35		6	40		200	45
	3	45		7	35			
	4	50		8	45			



ILC-RMR		HOLE No D128		DATE		LOCATION		
LOGGED BY								
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	201	35		235	40		69	45
	2	45		6	40		270	20
	3	35		7	40		1	45
	4	40		8	40		2	30
	5	45		9	45		3	35
	6	35		240	40		4	40
	7	50		1	45		5	45
	8	40		2	40		6	50
	9	45		3	35		7	40
	210	45		4	45		8	40
	1	40		5	40		9	35
	2	35		6	40		280	30
	3	50		7	35		1	45
	4	50		8	35		2	35
	5	50		9	50		3	50
	6	50		250	50		4	30
	7	35		1	45		5	35
	8	35		2	45		6	40
	9	45		3	40		7	40
	220	45		4	35		8	35
	1	35		5	40		9	40
	2	45		6	45		290	40
	3	45		7	50		1	45
	4	50		8	45		2	50
	5	50		9	45		3	40
	6	45		260	40		4	40
	7	35		1	50		5	45
	8	50		2	50		6	45
	9	50		3	40		7	35
	230	45		4	40		8	20
	1	45		5	35		9	45
	2	50		6	40		300	20
	3	50		7	35			
	4	40		8	50			

ILC-RMR			HOLE NO D12B LOGGED BY		DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	301	35		335	40		69	25
	2	40		6	35		370	45
	3	25		7	50		1	35
	4	35		8	50		2	50
	5	40		9	20		3	35
	6	40		340	50		4	50
	7	15		1	35		5	40
	8	35		2	35		6	45
	9	40		3	40		7	45
	310	35		4	40		8	40
	1	40		5	35		9	40
	2	45		6	25		380	50
	3	40		7	35		1	50
	4	35		8	50		2	40
	5	35		9	45		3	40
	6	40		350	45		4	25
	7	35		1	45		5	35
	8	35		2	45		6	35
	9	45		3	45		7	30
	320	45		4	35		8	35
	1	50		5	40		9	35
	2	45		6	40		390	40
	3	40		7	40		1	35
	4	35		8	45		2	35
	5	45		9	50		3	10
	6	45		360	45		4	35
	7	40		1	45		5	20
	8	20		2	35		6	15
	9	40		3	35		7	15
	330	40		4	45		8	10
	1	45		5	50		9	15
	2	45		6	35		400	15
	3	30		7	35			
	4	45		8	40			

ILC-RMR		HOLE No D128		DATE		LOCATION		
LOGGED BY								
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	401	15		435	45		69	45
	2			6	35		470	45
	3			7	35		1	35
	4			8			2	30
	5			9			3	15
	6			440			4	40
	7	50		1			5	30
	8	20		2			6	35
	9	15		3	15		7	35
	410	25		4	35		8	35
	1	25		5	15		9	35
	2	35		6	15		480	40
	3	35		7	35		1	40
	4	35		8	35		2	35
	5	25		9	35		3	35
	6	35		450	15		4	35
	7	15		1	15		5	35
	8	35		2	45		6	45
	9	35		3	45		7	25
	420	35		4	40		8	35
	1	15		5	20		9	45
	2	35		6	35		490	45
	3	40		7	35		1	35
	4	35		8	40		2	35
	5	40		9	30		3	35
	6	35		460	40		4	35
	7	40		1	20		5	50
	8	35		2	35		6	40
	9	35		3	40		7	50
	430	40		4	35		8	45
	1	40		5	45		9	15
	2	40		6	20		500	45
	3	30		7	35			
	4	40		8	45			

POOR
ONLY

2000
14

11

ILC-RMR		HOLE No D128		DATE		LOCATION		
LOGGED BY								
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	501	20		535	50		69	45
	2	40		6	35		570	20
	3	15		7	35		1	30
	4	20		8	35		2	20
	5	35		9	45		3	45
	6	35		540	50		4	45
	7	35		1	45		5	50
	8	35		2	45		6	50
	9	30		3	35		7	45
	510	40		4	35		8	45
	1	50		5	35		9	35
	2	30		6	30		580	20
	3	50		7	35		1	40
	4	30		8	40		2	45
	5	40		9	45		3	45
	6	40		550	35		4	45
	7	20		1	40		5	50
	8	40		2	35		6	35
	9	15		3	35		7	35
	520	15		4	15		8	40
	1	45		5	35		9	30
	2	35		6	50		590	35
	3	15		7	45		1	35
	4	20		8	35		2	35
	5	20		9	40		3	45
	6	15		560	40		4	50
	7	35		1	45		5	45
	8	40		2	35		6	40
	9	35		3	30		7	35
	530	50		4	45		8	40
	1	15		5	45		9	35
	2	50		6	45		600	35
	3	50		7	45			
	4	50		8	20			

689 9.

I LC-RMR		HOLE No D 128		DATE		LOCATION		
LOGGED BY								
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	601	15		635	35		69	25
	2	40		6	40		670	20
	3	45		7	45		1	15
	4	35		8	45		2	25
	5	20		9	20		3	20
	6	20		640	45		4	30
	7	40		1	45		5	20
	8	15		2	40		6	20
	9	35		3	35		7	20
	610	25		4	35		8	15
	1	20		5	45		9	15
	2	30		6	45		680	20
	3	35		7	50		1	15
	4	35		8	50		2	15
	5	40		9	40		3	20
	6	50		650	40		4	20
	7	35		1	50		5	15
	8	45		2	35		6	20
	9	20		3	45		7	20
	620	30		4	35		8	15
	1	35		5	40		9	35
	2	40		6	45		690	30
	3	45		7	45		1	25
	4	45		8	40		2	25
	5	45		9	45		3	20
	6	50		660	50		4	15
	7	50		1	45		5	15
	8	50		2	45		6	15
	9	40		3	35		7	15
	630	45		4	30		8	15
	1	45		5	20		9	15
	2	50		6	15		700	15
	3	45		7	40			
	4	15		8	20			

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ILC-RMR			HOLE No. D128 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	711	15		735	45		69	45
	2	15		6	45		770	40
	3	15		7	50		1	40
	4	20		8	40		2	40
	5	20		9	35		3	50
	6	40		740	40		4	40
	7	45		1	40		5	45
	8	25		2	50		6	45
	9	25		3	45		7	45
	710	40		4	45		8	50
	1	25		5	40		9	45
	2	35		6	40		780	50
	3	40		7	40		1	45
	4	20		8	45		2	50
	5	35		9	45		3	50
	6	45		750	50		4	45
	7	45		1	50		5	50
	8	35		2	45		6	
	9	50		3	40		7	
	720			4	35		8	
	1			5	40		9	45
	2			6	50		790	50
	3			7	40		1	
	4			8	40		2	
	5	20		9	40		3	
	6	35		760	45		4	
	7	50		1	50		5	
	8	20		2	40		6	40
	9	20		3	40		7	50
	730	50		4	35		8	
	1	20		5	45		9	
	2	15		6	50		800	
	3	25		7	45			
	4	15		8	50			

879

ILC-RMR			HOLE NO. D128 LOGGED BY		DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	801	50		835	40		69	50
	2	—		6	40		870	45
	3	—		7	40		1	20
	4	—		8	40		2	45
	5	45		9	40		3	50
	6	45		840	45		4	50
	7	45		1	45		5	50
	8	45		2	20		6	50
	9	50		3	45		7	50
	810	—		4	45		8	40
	1	—		5	15		9	45
	2	45		6	45		890	45
	3	45		7	35		1	35
	4	45		8	30		2	45
	5	35		9	20		3	50
	6	50		850	25		4	—
	7	35		1	45		5	—
	8	50		2	40		6	—
	9	50		3	45		7	—
	820	40		4	50		8	—
	1	50		5	45		9	—
	2	50		6	45		890	—
	3	40		7	45		1	—
	4	20		8	45		2	40
	5	25		9	45		3	40
	6	35		860	50		4	50
	7	35		1	50		5	—
	8	45		2	45		6	—
	9	35		3	50		7	—
	830	35		4	45		8	—
	1	25		5	35		9	—
	2	35		6	40		900	—
	3	45		7	45			—
	4	45		8	50			—

1045

989

ILC-RMR			HOLE NO LOGGED BY		D 178	DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	901	50		35			69	
	2	50		6			70	
	3	45		7			1	
	4	35		8			2	
	5	50		9			3	
	6	50		40			4	
	7	50		1			5	
	8	45		2			6	
	9	50		3			7	
	910	50		4			8	
	1	50		5			9	
	2	35		6			80	
	3	45		7			1	
	4	45		8			2	
	5	45		9			3	
	6	40		50			4	
	7	40		1			5	
	8	45		2			6	
	9	45		3			7	
	920	45		4			8	
	1	45		5			9	
	2	45		6			90	
	3	45		7			1	
	4	45		8			2	
	5	50		9			3	
	6	50		60			4	
	7	40		1			5	
	8	35		2			6	
	9			3			7	
	930			4			8	
	1			5			9	
	2			6			00	
	3			7				
	4			8				

45

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 5/4

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D128

DATE

MARCH 2/88

LOGGED BY

R. Bore

FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM. PIECES	RQD	FRACTURE
FROM	TO	INCHES	CUMULATIVE	INCHES	%	4"	%	INTENSITY
100	105	60	60	34	57	4	0	HIGH
105	109	48	108	18	38	0	0	✓
109	114	60	168	6	10	0	0	✓
114	122	96	264	20	21	0	0	✓
122	127	60	324	58	97	26	43	Moderate/HIGH
127	132	60	384	60	100	29	48	Moderate
132	137	60	444	60	100	29	48	✓
137	140	36	480	36	100	13	36	Moderate/HIGH
140	144.5	54	534	45	83	6	0	HIGH
144.5	145.5	12	546	9	75	0	0	✓
145.5	149	42	588	42	100	21	50	Moderate
149	151	24	612	24	100	17	71	✓
151	156	60	672	60	100	44	73	✓
156	161	60	732	45	75	0	0	HIGH
161	166	60	792	55	92	25	42	Moderate
166	171	60	852	60	100	21	35	✓
171	176	60	912	60	100	36	60	✓
176	181	60	972	60	100	33	55	✓
✓ 181	184	36	1008	36	100	22	61	✓
184	186	24	1032	24	100	11	46	✓
186	191	60	1092	52	87	24	40	✓
191	196	60	1152	60	100	40	67	✓
196	201	60	1212	39	65	23	38	✓
201	204	36	1248	33	92	16	44	✓
204	208	48	1296	48	100	29	60	✓
208	211	36	1332	35	97	29	81	Low
211	216	60	1392	59	98	42	70	Moderate
216	221	60	1452	60	100	19	32	✓
221	223	24	1476	24	100	19	79	Low
223	228	60	1536	60	100	42	70	Moderate
228	233	60	1596	60	100	49	82	Low
233	238	60	1656	54	90	12	0	HIGH
238	243	60	1716	60	100	27	45	Moderate
243	248	60	1776	41	68	8	0	HIGH

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D128

DATE

MARCH 4/88

LOGGED BY

J. R. ...

	FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE INTENSITY
	FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	
	248	253	60	1836	60	100	40	67	MODERATE
	253	258	60	1896	60	100	34	57	✓
✓	258	259	12	1908	12	100	5	42	✓
	259	263	48	1956	48	100	30	62	✓
	263	268	60	2016	60	100	19	33	✓
	268	273	60	2076	58	97	33	55	✓
	273	278	60	2136	56	93	42	70	✓
	278	279	12	2148	12	100	0	0	HIGH
	279	284	60	2208	60	100	31	52	MODERATE
	284	288	48	2256	48	100	7	0	HIGH
	288	293	60	2316	60	100	30	50	MODERATE
	293	298	60	2376	49	82	20	33	✓
	298	303	60	2436	60	100	32	53	✓
	303	307	48	2484	38	79	4	0	HIGH
	307	309	24	2508	24	100	0	0	✓
	309	314	60	2568	57	95	23	38	MODERATE
	314	317	36	2604	36	100	0	0	HIGH
	317	318	12	2616	12	100	0	0	✓
	318	323	60	2676	60	100	47	78	LOW
	323	326	36	2712	32	89	27	75	✓
	326	331	60	2772	60	100	20	33	MODERATE
	331	336	60	2832	57	95	20	33	✓
	336	341	60	2892	58	97	25	42	✓
	341	345	48	2940	41	85	9	0	HIGH
	345	346	12	2952	12	100	0	0	✓
	346	351	60	3012	60	100	32	53	MODERATE
	351	356	60	3072	46	77	17	28	✓
	356	361	60	3132	60	100	35	58	✓
✓	361	364.5	42	3174	42	100	15	36	✓
	364.5	366	18	3192	12	67	0	0	HIGH
	366	367	12	3204	12	100	0	0	✓
	367	372	60	3264	60	100	36	60	MODERATE
	372	373	12	3276	12	100	0	0	HIGH
	373	378	60	3336	53	88	32	53	MODERATE

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D128

DATE

MARCH 8/88

LOGGED BY

R. Su

	FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE INTENSITY
	FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	
✓	378	383	60	3396	57	95	40	67	Moderate
	383	388	60	3456	60	100	33	55	✓
	388	393	60	3516	45	75	12	0	HIGH
	393	397	48	3564	32	67	6	0	✓
	397	402	60	3624	12	20	0	0	✓
	402	405	36	3660	24	67	0	0	✓
	405	409	48	3708	22	46	12	25	Moderate/HIGH
	409	411	24	3732	24	100	0	0	HIGH
	411	413	24	3756	12	50	0	0	✓
	413	415	24	3780	20	83	6	25	Moderate/HIGH
	415	417	24	3804	9	38	0	0	HIGH
	417	419	24	3828	7	29	0	0	✓
	419	421	24	3852	8	33	0	0	✓
	421	423	24	3876	21	88	7	29	Moderate/HIGH
	423	428	60	3936	53	88	0	0	HIGH
✓	428	433	60	3996	49	82	16	27	Moderate/HIGH
	433	437	48	4044	45	94	19	40	Moderate
	437	441	48	4092	20	42	0	0	HIGH
	441	445	48	4140	20	42	0	0	✓
	445	449	48	4188	28	58	0	0	✓
	449	451	24	4212	7	29	0	0	✓
	451	455	48	4260	48	100	25	52	Moderate
	455	460	60	4320	60	100	0	0	HIGH
	460	462	24	4344	10	42	0	0	✓
	462	467	60	4404	60	100	30	50	Moderate
	467	471.5	54	4458	52	96	39	72	✓
	471.5	476	54	4512	52	96	8	0	HIGH
	476	477	12	4524	12	100	0	0	✓
	477	479	24	4548	24	100	4	0	✓
	479	482	36	4584	34	94	8	22	Moderate/HIGH
	482	485	36	4620	34	94	0	0	HIGH
	485	489	48	4668	48	100	34	71	Moderate
	489	494	60	4728	60	100	27	45	✓
	494	499	60	4788	55	92	29	48	✓

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D128

DATE

MARCH 8/88

LOGGED BY

J. E.

	FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM. PIECES	RQD	FRACTURE
	FROM	TO	INCHES	CUMULATIVE	INCHES	%	4"	%	INTENSITY
✓	499	504	60	4848	58	97	26	43	MODERATE
	504	509	60	4908	41	68	9	0	HIGH
	509	514	60	4968	60	100	51	85	LOW
	514	519	60	5028	58	97	18	30	MODERATE
	519	524	60	5088	60	100	13	22	MODERATE/HIGH
	524	529	60	5148	60	100	19	32	MODERATE
	529	534	60	5208	60	100	50	83	LOW
	534	538	48	5256	44	92	16	33	MODERATE
	538	543	60	5316	60	100	31	52	✓
	543	545.5	30	5346	30	100	4	0	HIGH
	545.5	550	54	5400	54	100	25	46	MODERATE
	550	553	36	5436	32	89	8	22	MODERATE/HIGH
	553	558	60	5496	60	100	34	57	MODERATE
	558	563	60	5556	56	93	17	28	MODERATE
	563	568	60	5616	60	100	27	45	✓
	568	573	60	5676	60	100	24	40	✓
	573	578	60	5736	60	100	51	85	LOW
✓	578	583	60	5796	60	100	42	70	MODERATE
	583	588.5	66	5862	63	95	30	45	✓
	588.5	592	42	5904	32	76	0	0	HIGH
	592	596	48	5952	45	94	28	58	MODERATE
	596	600	48	6000	43	90	10	0	HIGH
	600	604	48	6048	48	100	17	35	MODERATE
	604	609	60	6108	60	100	18	30	✓
	609	614	60	6168	60	100	41	68	✓
	614	619	60	6228	60	100	42	70	✓
	619	624	60	6288	60	100	22	37	✓
	624	629	60	6348	60	100	40	67	✓
	629	634	60	6408	60	100	39	65	✓
	634	639	60	6468	60	100	30	50	✓
	639	644	60	6528	60	100	14	0	HIGH
	644	649	60	6588	60	100	36	60	MODERATE
	649	654	60	6648	60	100	22	37	✓
	654	659	60	6708	60	100	29	48	✓

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D128

DATE

MARCH 9/88

LOGGED BY

C. R. E.

FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE
FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	INTENSITY
659	664	60	6768	60	100	39	65	Moderate
664	669	60	6828	60	100	31	52	✓
669	674	60	6888	60	100	10	0	High
674	678	48	6936	36	75	0	0	✓
678	681	36	6972	36	100	0	0	✓
681	684.5	42	7014	27	64	0	0	✓
684.5	687.5	36	7050	28	78	0	0	✓
687.5	691	42	7092	37	88	12	0	✓
691	694	36	7128	36	100	13	36	Moderate
694	699	60	7188	54	90	0	0	High
699	704	60	7248	60	100	0	0	✓
704	709	60	7308	60	100	29	48	Moderate
709	714	60	7368	60	100	41	68	✓
714	719	60	7428	60	100	36	60	✓
719	724	60	7488	58	97	47	78	✓
724	729	60	7548	57	95	23	38	✓
729	734	60	7608	60	100	34	57	✓
734	739	60	7668	60	100	30	50	✓
739	744	60	7728	60	100	35	58	✓
744	749	60	7788	60	100	25	42	✓
749	754	60	7848	57	95	19	32	✓
754	759	60	7908	60	100	19	32	✓
759	764	60	7968	54	90	27	45	✓
764	769	60	8028	60	100	41	68	✓
769	774	60	8088	60	100	20	33	✓
774	779	60	8148	60	100	46	78	✓
779	784	60	8208	60	100	47	78	✓
784	789	60	8268	60	100	27	45	✓
789	794	60	8328	60	100	47	78	✓
794	799	60	8388	60	100	47	78	✓
799	804	60	8448	60	100	38	63	✓
804	808	48	8496	46	96	13	27	Moderate/High
808	813	60	8556	60	100	47	75	Moderate
813	817	48	8604	48	100	30	63	✓

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

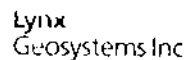
D128

DATE

MARCH 10/88

LOGGED BY

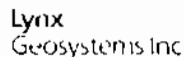
	FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE INTENSITY
	FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	
✓	817	822	60	8664	60	100	44	74	Moderate
	822	827	60	8724	60	100	38	63	✓
	827	832	60	8784	60	100	36	60	✓
	832	837	60	8844	60	100	10	0	High
	837	842	60	8904	60	100	8	0	✓
	842	847	60	8964	60	100	39	65	Moderate
	847	852	60	9024	56	93	19	32	✓
	852	857	60	9084	60	100	37	62	✓
	857	862	60	9144	60	100	42	70	✓
	862	867	60	9204	60	100	18	30	✓
	867	872	60	9264	60	100	40	67	✓
	872	877	60	9324	60	100	54	90	Low
	877	882	60	9384	60	100	27	45	Moderate
	882	887.5	60	9450	60	100	58	88	Low
	887.5	893	60	9516	63	95	49	74	Moderate
	893	898	60	9576	60	100	60	100	Low
	898	903	60	9636	60	100	54	90	✓
	903	908	60	9696	60	100	51	85	✓
✓	908	913	60	9756	60	100	49	82	✓
	913	918	60	9816	60	100	47	78	Moderate/Low
	918	923	60	9876	60	100	40	67	Moderate
✓	923	928	60	9936	60	100	41	68	✓



Geolog System

Geotopi

[illegible]



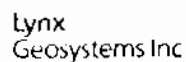
Geolog System

460101

S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O 1 or 1 = Alpha 1 Z = Alpha Z

[illegible]

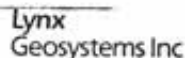
✓ 30 m
continued
10/1/85
C. J. K.



Geolog System

Leotori

[illegible]



Geolog System

Geology

UNLATERALS NEED 1 TO 40 ATTACHED SHEETS			5 = Alpha 0 = Zero 1 = One 2 = Two 7 = Seven 8 = Alpha O 1 or 1 = Alpha I 2 = Alpha Z																			
FLAG	FORMAT VERSION	SUR TYPE	ID OF DRILLER/TRANSDUCER NAME AND NUMBER		SIZE OF CORE OR HOLE		YR	MON	DATE AND TIME DAY	HR	MIN	SEC	APR	GEOLOGIST BY	SD BY	YR	COMPLETED MONTH	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS MET	
FROM	TO	P-S	O	AZM	CLOCKWISE FROM TRUE N	V-ANG	NEC IF MEAN	STATION				OFFSET				NEC IF LEFT	NORTHING	NEC IF SOUTH	EASTING	NEC IF WEST	ELEVATION	NEC IF SURF
FROM	TO	RECOVERY	Yr	Mo	ROCK-SOIL	TYP/TEXT	TEMP	GRAIN	TEXTURE	GRAN	CO	CL	MP	SH	SL	SL	SL	SL	SL	SL	SL	
FROM	TO	RECOVERY	Yr	Mo	ROCK-SOIL	TYP/TEXT	TEMP	GRAIN	TEXTURE	GRAN	CO	CL	MP	SH	SL	SL	SL	SL	SL	SL	SL	
762.5	814																					
762.5	814																					
814	814																					
0-181.5 DUMP MATERIAL: TILL - NO CORE 181.5-343 ASSORTED VOLCANIC CLASTIC TUFFS VARYING FROM ASH TO CSE LAPILLI TEXTURE MODERATE TO STRONG EPIDOTE ALT'N THROUGHOUT. WEAK STAINING IS COMMON WITH STRONG HEMATITE IN PURPLE SECTIONS 224-229, 253-256, 325.5-343 NO MAJOR STRUCTURES; SERICITE ALTERATION IS SPORADIC; WEAK 343-620 ANDESITIC TUFFS; PORPHYRIES WITH GENERALLY WEAK-MODERATE CHLORITE +/- EPIDOTE ALTERATION. SERICITE ALT'N ENVELOPES ARE WEAK BUT PRESENT AND INCREASE WITH DEPTH. PYROPHYLLITE/ DUMORTIERITE OCCURS 606-608.5 620-735.5 GENERALLY LAPILLI TUFFS WITH MOD-STRONG SERICITE ALTERATION, OCCURRING AS ENVELOPES ON FRACTURES, VEINLETS. SERICITE OVERPRINTS A PERY MOD-STR CHL ALTERATION OF THE TUFFS. MINOR CLAY ALT'D STRUCTURES @ 609-607. 735.5-740 CRUSHED CLAY ALT'D BKA ZONE WITH MODERATE SERICITE; 740.5-814 PYROPHYLLITE APPEARS TO BE A FAULT, POSSIBLY REPEATING THE OVERLYING SECTION 740-814 CHLORITE/MAGNETITE; WEAK SERICITE ALTERED SECTION OF COARSE LAPILLI TUFFS AND MINOR PORPHYRIES. NO MAJOR STRUCTURES																						



Geotail

5 = Alpha 5 0 = Zero 1 = One 2 = Two 7 = Seven 8 = Alpha 0 1 = Alpha 1 2 = Alpha 2									
FLAG	FORMAT	DATE	TIME	LOCATION	DEPTH	DIAMETER	DRILLER	LOGGERS	COMMENTS
DI	EN	6	8	0	5				
PR	J								
762.5	814								
762.5	814								
814	814								
0-181.5 DUMP MATERIAL; TILL - NO CORE 181.5-343 ASSORTED VOLCANIC CLASTIC TUFFS VARYING FROM ASH TO CSE LAPILLI TEXTURE MODERATE TO STRONG EPIDOTE ALT'N THROUGHOUT. HEMATITE STAINING IS COMMON WITH STRONG HEMATITE IN PURPLE SECTIONS 224-229, 253-256, 325.5-343. NO MAJOR STRUCTURES, SERICITE ALTERATION IS SPARSIC & WEAK 343-620 ANDESITIC TUFFS; PORPHYRIES WITH GENERALLY WEAK MODERATE CHLORITE +/- EPIDOTE ALTERATION. SERICITE ALT'N ENVELOPES NRE WEAK BUT PRESENT AND INCREASE WITH DEPTH. PYROPHILLITE/ DUMORTIERITE OCCURS 606-608.5 620-735.5 GENERALLY LAPILLI TUFFS WITH MOD-STRONG SERICITE ALTERATION OCCURRING AS ENVELOPES ON FRACTURES, VEINLETS, SERICITE OVERPRINTS A PERY MOD-STR CHL ALTERATION OF THE TUFFS. MINOR CLAY ALT'D STRUCTURES @ 609-607. 735.5-748 CRUSHED CLAY ALT'D ZONE WITH MODERATE SERICITE & POSSIBL PYROPHILLITE APPEARS TO BE A FAULT, POSSIBLY REPEATING THE OVERLYING SECTION 748-814 CHLORITE/MAGNETITE & WEAK SERICITE ALTERED SECTION OF COARSE LAPILLI TUFFS AND MINOR PORPHYRIES. NO MAJOR STRUCTURES									

1874

ILC-RMR			HOLE No D 129 LOGGED BY GLD			DATE 14 Mar 88 LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	101	35		35	20		69	25
	2	35		6	35		170	25
	3	35		7	45		1	15
	4	45		8	45		2	20
	5	40		9	45		3	15
	6	45		140	35		4	15
	7	45		1	35		5	15
	8	35		2	40		6	15
	9	45		3	40		7	20
	110	45		4	45		8	30
	1	40		5	45		9	25
	2	40		6	40		180	20
	3	40		7	45		1	25
	4	40		8	50		2	25
	5	40		9	50		3	35
	6	45		150	35		4	40
	7	40		1	35		5	35
	8	40		2	45		6	35
	9	40		3	45		7	15
	120	45		4	50		8	35
	1	35		5	50		9	35
	2	35		6	30		190	35
	3	40		7	35		1	30
	4	40		8	45		2	25
	5	35		9	25		3	35
	6	35		160	35		4	25
	7	40		1	15		5	20
	8	40		2	20		6	25
	9	20		3	15		7	20
	130	40		4	25		8	35
	1	15		5	25		9	35
	2	40		6	25		200	35
	3	40		7	25			
	4	45		8	20			

2074

ILC-RMR			HOLE No D124 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	201	15		235	25		69	40
	2	20		6	25		270	45
	3	20		7	20		1	45
	4	15		8	20		2	45
	5	15		9	40		3	45
	6	35		240	35		4	35
	7	25		1	40		5	40
	8	25		2	35		6	40
	9	40		3	35		7	35
	210	45		4	35		8	35
	1	20		5	40		9	35
	2	35		6	45		280	45
	3	45		7	50		1	45
	4	45		8	15		2	35
	5	35		9	20		3	20
	6	45		250	15		4	50
	7	35		1	40		5	50
	8	45		2	40		6	40
	9	25		3	25		7	40
	220	25		4	45		8	35
	1	25		5	45		9	45
	2	25		6	45		290	45
	3	25		7	45		1	35
	4	25		8	50		2	35
	5	25		9	45		3	40
	6	20		260	50		4	45
	7	25		1	50		5	45
	8	25		2	40		6	50
	9	40		3	35		7	35
	230	25		4	20		8	45
	1	25		5	35		9	45
	2	15		6	35		300	45
	3	25		7	40			
	4	20		8	45			

ILC-RMR			HOLE No D129 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	301	35		335	40		69	50
	2	45		6	30		370	45
	3	45		7	50		1	45
	4	35		8	50		2	50
	5	40		9	50		3	50
	6	45		340	50		4	50
	7	45		1	50		5	50
	8	50		2	50		6	35
	9	50		3	50		7	35
	310	50		4	50		8	50
	1	40		5	45		9	
	2	50		6	50		380	
	3	40		7	50		1	
	4	40		8	40		2	
	5	50		9	50		3	
	6	50		350	50		4	
	7	50		1	50		5	
	8	40		2	50		6	
	9	35		3	50		7	
	320	45		4	35		8	
	1	45		5	40		9	
	2	45		6	45		390	
	3	40		7	45		1	
	4	45		8	50		2	
	5	45		9	45		3	
	6	50		360	50		4	45
	7	50		1	45		5	50
	8	50		2	40		6	
	9	50		3	50		7	
	330	50		4	50		8	
	1	40		5	35		9	
	2	50		6	35		400	
	3	50		7	50			
	4	40		8	50			

474

ILC-RMR			HOLE No D129 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	401	35		35			69	
	2	40		40			70	
	3	45		40			1	
	4	50		40			2	
	5	45		40			3	
	6	50		40			4	
	7	35		40			5	
	8	45		40			6	
	9	40		40			7	
	410	45		40			8	
	1	45		40			9	
	2	45		40			80	
	3	50		40			1	
	4	50		40			2	
	5	45		40			3	
	6	45		40			4	
	7	50		40			5	
	8	50		40			6	
	9	50		40			7	
	420	35		40			8	
	1	50		40			9	
	2	50		40			90	
	3	50		40			1	
	4	50		40			2	
	5	45		40			3	
	6	50		40			4	
	7	50		40			5	
	8	50		40			6	
	9	50		40			7	
	430	35		40			8	
	1	50		40			9	
	2	50		40			00	
	3	50		40				
	4	50		40				

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D129

DATE

MARCH 14/88

LOGGED BY

R. Gore

FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM. PIECES	RQD	FRACTURE INTENSITY
FROM	TO	INCHES	CUMULATIVE	INCHES	%	4"	%	
100	101	12	12	6	50	0	0	High
101	102	12	24	6	50	0	0	✓
102	106	48	72	35	73	11	0	✓
106	109	36	108	24	67	5	0	✓
109	111	24	132	11	46	5	0	✓
111	113	24	156	11	46	0	0	✓
113	117	48	204	33	69	4	0	✓
117	122	60	264	58	97	15	0	✓
122	126	48	312	42	88	0	0	✓
126	131	60	372	60	100	31	52	Moderate
131	136	60	432	60	100	39	65	✓
136	141	60	492	56	93	32	53	✓
141	146	60	552	60	100	38	63	✓
146	151	60	612	60	100	36	60	✓
151	156	60	672	60	100	58	97	Low
156	161	60	732	60	100	30	50	Moderate
161	166	60	792	60	100	0	0	High (Gauge)
166	171	60	852	60	100	0	0	✓ ✓
171	176	60	912	60	100	0	0	✓ ✓
176	181	60	972	60	100	5	0	✓ ✓
181	186.5	66	1038	62	94	17	0	✓ ✓
186.5	192	66	1104	61	92	24	36	Moderate
192	197	60	1164	60	100	6	0	High (Gauge)
197	202	60	1224	60	100	5	0	✓ ✓
202	206.5	54	1278	51	94	0	0	✓ ✓
206.5	212	66	1344	63	95	16	0	✓ ✓
212	217	60	1404	58	97	29	48	Moderate
217	219	24	1428	24	100	21	88	Low
219	224	60	1488	59	98	23	38	Moderate
224	229	60	1548	60	100	6	0	High (Gauge)
229	231	24	1572	20	83	0	0	✓ ✓
231	236	60	1632	60	100	12	0	✓ ✓
236	238.5	30	1662	30	100	4	0	✓ ✓
238.5	245	78	1740	78	100	18	0	✓ ✓

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D129

DATE

MARCH 14/88

LOGGED BY

M. R. C.

FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM. PIECES	RQD	FRACTURE INTENSITY
FROM	TO	INCHES	CUMULATIVE	INCHES	%	4"	%	
245	250	60	1800	56	93	17	28	Moderate / High
250	255	60	1860	60	100	4	0	High
255	259	48	1908	44	92	23	48	Moderate
259	264	60	1968	54	90	33	55	✓
264	268	48	2016	48	100	5	0	High
268	272	48	2064	48	100	17	35	Moderate
272	277	60	2124	60	100	18	30	✓
277	282	60	2184	56	93	22	37	✓
282	287	60	2244	60	100	38	63	✓
287	292	60	2304	60	100	24	40	✓
292	297	60	2364	60	100	25	42	✓
297	300	36	2400	36	100	13	36	✓
300	305	60	2460	60	100	12	0	High
305	309	48	2508	48	100	31	65	Moderate
309	314	60	2568	60	100	40	67	✓
314	319	60	2628	60	100	43	72	✓
319	323	48	2676	48	100	14	29	✓
323	328	60	2736	60	100	40	67	✓
328	333	60	2796	60	100	46	77	✓
333	336	36	2832	36	100	15	42	✓
336	341	60	2892	60	100	42	70	✓
341	346	60	2952	60	100	48	80	Low
346	351	60	3012	60	100	49	82	✓
351	356	60	3072	60	100	41	68	Moderate
356	361	60	3132	60	100	41	68	✓
✓ 361	366	60	3192	60	100	25	42	✓
366	371	60	3252	60	100	46	77	✓
371	376.5	66	3318	60	91	35	53	✓
376.5	382	66	3384	61	92	40	61	✓
382	387	60	3444	60	100	53	88	Low
387	392	60	3504	57	95	48	80	✓
392	397	60	3564	60	100	38	63	Moderate
397	402	60	3624	60	100	42	70	✓
402	407	60	3684	60	100	49	82	Low

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D129

DATE _____

MARCH 14/88

LOGGED BY

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FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE
FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	INTENSITY
407	411	48	3732	48	100	20	42	MODERATE
411	416	60	3792	60	100	50	83	Low
416	421	60	3852	60	100	52	87	✓
421	425	48	3900	48	100	33	69	MODERATE
END OF HOLE								

D130

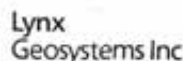
FLAG		FORMAT		NO. OF SAMPLES		DATE AND TIME		STATION		OFFSET		NORTHING		EASTING		ELEVATION		UNITS	
FL	FR	FM	FO	FS	FT	DAY	HR	MIN	SEC	TR	BR	TR	BR	TR	BR	TR	BR	TR	BR
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119
120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139
140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179
180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199
200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219
220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259
260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279
280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299
300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319
320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339
340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359
360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379
380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399
400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419
420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439
440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459
460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479
480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499
500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519
520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539
540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559
560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579
580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599
600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619
620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639
640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659
660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679
680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699
700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719
720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739
740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759
760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779
780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799
800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819
820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839
840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859
860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879
880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899
900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919
920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939
940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959
960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979
980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999

2025

ELAY, CLM,

UNCLASSIFIED

[illegible]



Geolog System

LC nuc: modified bases

Geolo

[illegible]



Geolog System

УДК 62-50

[illegible]

ILC-RMR			HOLE No D130 LOGGED BY GLP			DATE 21 Mar 88 LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	101			135	45		69	45
	2			6	50		170	35
	3	40		7	45		1	45
	4	45		8	50		2	45
	5	40		9	45		3	35
	6	50		140	25		4	25
	7	45		1	50		5	35
	8	50		2	50		6	35
	9	50		3	50		7	45
	110	45		4	45		8	45
	1	40		5	50		9	40
	2	40		6	50		180	50
	3	50		7	50		1	50
	4	50		8	40		2	50
	5	40		9	45		3	35
	6	40		150	45		4	45
	7	45		1	50		5	40
	8	40		2	50		6	45
	9	40		3	40		7	45
	120	45		4	40		8	40
	1	35		5	45		9	40
	2	40		6	45		190	45
	3	40		7	40		1	35
	4	35		8	45		2	50
	5	40		9	25		3	50
	6	45		160	50		4	45
	7	50		1	40		5	50
	8	40		2	45		6	50
	9	45		3	40		7	45
	130	45		4	45		8	50
	1	40		5	45		9	40
	2	50		6	35		200	45
	3	50		7	50			
	4	45		8	40			

ILC-RMR			HOLE No D 130 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	201	45		235	45		69	58
	2	35		6	45		270	45
	3	35		7	45		1	45
	4	35		8	50		2	25
	5	35		9	45		3	35
	6	35		240	35		4	50
	7	45		1	40		5	50
	8	50		2	40		6	30
	9	50		3	40		7	10
	210	50		4	40		8	45
	1	40		5	50		9	45
	2	45		6	50		280	25
	3	45		7	50		1	40
	4	40		8	45		2	35
	5	45		9	50		3	45
	6	35		250	50		4	45
	7	40		1	45		5	40
	8	50		2	35		6	20
	9	50		3	45		7	45
	220	50		4	45		8	50
	1	50		5	45		9	50
	2	50		6	50		290	35
	3	40		7	50		1	50
	4	40		8	35		2	35
	5	50		9	45		3	35
	6	35		260	40		4	50
	7	35		1	50		5	40
	8	35		2	50		6	40
	9	35		3	50		7	50
	230	40		4	45		8	50
	1	35		5	50		9	50
	2	20		6	45		300	35
	3	50		7	35			
	4	45		8	50			

ILC-RMR		HOLE No D130 LOGGED BY			DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	301	40		335	35		69	40
	2	35		6	40		370	50
	3	20		7	40		1	50
	4	35		8	45		2	40
	5	35 35		9	50		3	50
	6	35		340	45		4	50
	7	35		1	50		5	50
	8	50		2	50		6	45
	9	50		3	40		7	50
	310	45		4	45		8	50
	1	35		5	50		9	50
	2	35		6	45		390	20
	3	40		7	40		1	25
	4	50		8	50		2	50
	5	50		9	50		3	50
	6	50		350	35		4	35
	7	15		1	45		5	50
	8	35		2	40		6	
	9	50		3	35		7	
	320	50		4	35		8	
	1	50		5	50		9	
	2	50		6	50		390	
	3	45		7	40		1	
	4	45		8	45		2	
	5	50		9	40		3	
	6	40		360	50		4	35
	7	35		1	45		5	50
	8	45		2	40		6	
	9	45		3	50		7	
	330	45		4	35		8	
	1	40		5	50		9	40
	2	45		6	50		400	40
	3	40		7	50			
	4	40		8	50			

ILC-RMR			HOLE No D130 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	40 1	35		35	50		69	50
	2	40		6	40		470	35
	3	45		7	50		1	20
	4	40		8	40		2	35
	5	35		9	35		3	35
	6	40		40	45		4	50
	7	50		1	40		5	45
	8	45		2	45		6	50
	9	40		3	40		7	40
	410	40		4	40		8	35
	1	50		5	50		9	40
	2	45		6	40		480	40
	3	50		7	25		1	35
	4	50		8	35		2	20
	5	45		9	50		3	50
	6	40		450	40		4	35
	7	35		1	40		5	40
	8	35		2	45		6	35
	9	40		3	50		7	35
	420	45		4	40		8	50
	1	30		5	45		9	35
	2	45		6	35		490	40
	3	40		7	30		1	45
	4	50		8	35		2	30
	5	45		9	35		3	20
	6	50		460	25		4	35
	7	35		1	35		5	35
	8	50		2	40		6	20
	9	45		3	35		7	35
	430	35		4	35		8	35
	1	45		5	45		9	35
	2	50		6	45		500	40
	3	45		7	50			
	4	50		8	50			

59.8.

ILC-RMR			HOLE No D130 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	501	35		535	20		69	25
	2	45		6	20		570	25
	3	20		7	20		1	40
	4	40		8	25		2	40
	5	40		9	35		3	45
	6	35		540	45		4	45
	7	20		1	50		5	35
	8	25		2	50		6	45
	9	45		3	45		7	20
	510	35		4	35		8	35
	1	45		5	35		9	30
	2	35		6	35		580	40
	3	50		7	45		1	45
	4			8	40		2	50
	5			9	45		3	50
	6			550	25		4	45
	7	40		1	45		5	50
	8	50		2	50		6	50
	9	50		3	40		7	40
	520	40		4	45		8	35
	1	50		5	35		9	50
	2	35		6	50		590	50
	3	50		7	35		1	50
	4	45		8	35		2	45
	5	45		9	20		3	45
	6	45		560	25		4	55
	7	45		1	30		5	45
	8	45		2	30		6	40
	9	50		3	35		7	45
	530	40		4	35		8	40
	1	55		5	20		9	45
	2	80		6	35		600	35
	3	50		7	40			
	4	50		8	1.0			

ILC-RMR			HOLE No D130 LOGGED BY GLP			DATE 23 Mar. LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	601	35		635	40		69	45
	2	55		6	45		670	40
	3	40		7	40		1	20
	4	45		8	50		2	45
	5	40		9	50		3	40
	6	40		640	35		4	40
	7	35	} dump/ pyl.	1	55		5	50
	8	35		2	50		6	40
	9	45		3	50		7	45
	45	45		4	35		8	45
610	45	45		5	50		9	35
1	35	35		6	35		680	35
2	45	45		7	55		1	} poor rec'y
3	55	55		8	45		2	
4	40	40		9	40		3	
5	35	35		650	50		4	
6	50	50		1	45		5	20
7	55	55		2	55		6	25
8	45	45		3	45		7	40
9	20	20		4	40		8	35
620	50	50		5	40		9	45
1	45	45		6	45		690	50
2	35	35		7	40		1	25
3	30	30	} pyl.	8	35		2	50
4	50	50		9	45		3	45
5	55	55		660	50		4	55
6	45	45		1	45		5	55
7	40	40		2	40		6	55
8	35	35		3	55		7	40
9	55	55		4	55		8	50
630	25	25		5	40		9	40
1	50	50		6	40		700	40
2	50	50		7	40			
3	35	35		8	40			

ILC-RMR			HOLE No D130 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	701	45		735	45		69	35
	2	45		6	40		770	35
	3	45		7	25		1	50
	4	50		8	30		2	45
	5	55		9	15		3	45
	6	35		740	20		4	45
	7	45		1	40		5	40
	8	45		2	40		6	40
	9	45		3	35		7	45
	710	—		4	45		8	45
	1	—		5	20		9	50
	2	—		6	45		780	50
	3	—		7	45		1	35
	4	—		8	20		2	40
	5	20		9	50		3	45
	6	45		750	45		4	35
	7	35		1	45		5	45
	8	55		2	45		6	45
	9	55		3	35		7	45
	720	35		4	45		8	45
	1	35		5	45		9	40
	2	15		6	50		790	40
	3	50		7	20		1	40
	4	45		8	40		2	45
	5	40		9	55		3	35
	6	45		760	35		4	50
	7	45		1	45		5	50
	8	35		2	40		6	40
	9	30		3	40		7	35
	730	35		4	40		8	50
	1	45		5	40		9	40
	2	20		6	40		800	35
	3	20		7	45			
	4	35		8	45			

878

ILC-RMR		HOLE No D-130 LOGGED BY			DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	801	35		35			69	
	2			6			70	
	3			7			1	
	4			8			2	
	5			9			3	
	6			40			4	
	7	55		1			5	
	8	35		2			6	
	9	20		3			7	
810	20	20		4			8	
	1	50		5			9	
	2	45		6			80	
	3	50		7			1	
	4	50		8			2	
	5	TD		9			3	
	6			50			4	
	7			1			5	
	8			2			6	
	9			3			7	
820	4			4			8	
	1			5			9	
	2			6			90	
	3			7			1	
	4			8			2	
	5			9			3	
	6			60			4	
	7			1			5	
	8			2			6	
	9			3			7	
30	4			4			8	
	1			5			9	
	2			6			00	
	3			7				
	4			8				

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D130

DATE

MARCH 17/88

LOGGED BY

C. R. Stone

FOOTAGE (FT)
FROM TOINTERVAL
INCHES CUMULATIVERECOVERY
INCHES %TOTAL
CUM.
PIECES
4"RQD
%FRACTURE
INTENSITY

	95	100	60	60	55	92	16	0	High
	100	105	60	120	54	90	33	55	Moderate
	105	109	48	168	48	100	39	81	Low
	109	114	60	228	60	100	32	53	Moderate
	114	119	60	288	60	100	33	55	✓
	119	124	60	348	60	100	18	30	✓
	124	129	60	408	60	100	26	43	✓
	129	134	60	468	60	100	32	53	✓
	134	139	60	528	59	98	45	75	Moderate/Low
	139	144	60	588	54	90	44	73	Moderate/Low
	144	149	60	648	60	100	45	75	Moderate/Low
	149	154	60	708	58	97	23	38	Moderate
	154	159	60	768	60	100	18	30	✓
	159	164	60	828	60	100	46	77	Moderate
✓	164	168	48	876	45	94	23	38	✓
	168	169	12	888	12	100	6	50	✓
	169	174	60	948	60	100	32	53	✓
	174	179	60	1008	60	100	31	52	✓
	179	184	60	1068	60	100	43	72	✓
	184	189	60	1128	60	100	27	45	✓
	189	194	60	1188	60	100	36	60	✓
	194	199	60	1248	60	100	42	70	✓
	199	203	48	1296	48	100	20	42	✓
	203	208	60	1356	60	100	32	53	✓
	208	213	60	1416	60	100	44	73	✓
	213	216	36	1452	32	89	4	0	High
	216	221	60	1512	57	95	43	72	Moderate
	221	226	60	1572	60	100	35	58	✓
	226	228	24	1596	24	100	0	0	High
	228	230	24	1620	24	100	5	0	✓
	230	235	60	1680	60	100	40	67	Moderate
	235	239	48	1728	48	100	21	44	✓
	239	242	36	1764	32	89	7	0	High
✓	242	247	60	1824	58	97	39	65	Moderate

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D130

DATE

March 21/88

LOGGED BY

R. E. [Signature]

	FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE INTENSITY
	FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	
	247	252	60	1884	55	92	40	67	Moderate
	252	257	60	1944	60	100	38	63	✓
	257	262	60	2004	60	100	43	72	✓
	262	267	60	2064	60	100	29	48	✓
	267	272	60	2124	59	98	37	62	✓
	272	276	48	2172	48	100	32	53	✓
	276	277	12	2184	11	92	0	0	High
	277	282	60	2244	60	100	38	63	Moderate
	282	287	60	2304	60	100	34	57	✓
	287	292	60	2364	60	100	33	55	✓
	292	297	60	2424	60	100	36	60	✓
✓	297	302	60	2484	60	100	34	57	✓
	302	307	60	2544	60	100	30	50	✓
	307	312	60	2604	60	100	35	58	✓
	312	317	60	2664	60	100	43	72	✓
	317	322	60	2724	60	100	52	87	Low
	322	327	60	2784	57	95	32	53	Moderate
	327	331	48	2832	42	88	9	0	High
	331	335	48	2880	48	100	18	38	Moderate
	335	339	48	2928	48	100	36	75	✓
	339	344	60	2988	60	100	39	65	✓
✓	344	349	60	3048	60	100	41	68	✓
	349	354	60	3108	60	100	24	40	✓
	354	359	60	3168	60	100	30	50	✓
	359	364	60	3228	60	100	49	82	Low
	364	369	60	3288	60	100	40	67	Moderate
	369	374	60	3348	60	100	56	93	Low
	374	379	60	3408	58	97	51	85	✓
	379	384	60	3468	60	100	48	80	✓
	384	389	60	3528	60	100	58	97	✓
	389	394	60	3588	60	100	52	87	✓
	394	399	60	3648	60	100	52	87	✓
	399	401	24	3672	22	92	11	46	Moderate
✓	401	404.5	42	3714	42	100	23	55	✓

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D130

DATE

March 2/88

LOGGED BY

J. R. ...

FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM. PIECES	RQD	FRACTURE INTENSITY
FROM	TO	INCHES	CUMULATIVE	INCHES	%	4"	%	
404.5	409	54	3768	54	100	19	35	MODERATE
409	414	60	3828	60	100	36	60	✓
414	418	48	3876	45	94	4	0	HIGH
418	420	24	3900	24	100	0	0	✓
420	422	24	3924	22	92	6	25	MODERATE/HIGH
422	426	48	3972	45	94	28	58	MODERATE
426	430	48	4020	44	92	18	38	✓
430	435	60	4080	60	100	33	55	✓
435	439	48	4128	48	100	10	0	HIGH
439	444	60	4188	60	100	22	37	MODERATE
444	448	48	4236	48	100	33	69	✓
448	453	60	4296	60	100	33	55	✓
453	458	60	4356	60	100	28	47	✓
458	463	60	4416	56	93	10	0	HIGH
463	468	60	4476	60	100	48	80	LOW
468	473	60	4536	60	100	25	42	MODERATE
473	478	60	4596	60	100	32	53	✓
478	482	48	4644	48	100	12	25	MODERATE/HIGH
482	487	60	4704	60	100	17	28	MODERATE/HIGH
487	492	60	4764	60	100	31	52	MODERATE
492	496	48	4812	48	100	14	29	MODERATE/HIGH
496	499	36	4848	30	83	0	0	HIGH
499	503	48	4896	42	88	14	29	MODERATE/HIGH
503	508	60	4956	56	93	23	38	MODERATE
508	512	48	5004	48	100	18	38	✓
512	517	60	5064	60	100	47	78	✓
517	522	60	5124	60	100	37	62	✓
522	527	60	5184	60	100	33	55	✓
527	532	60	5244	60	100	34	57	✓
532	537	60	5304	60	100	20	33	✓
537	542	60	5364	60	100	47	78	✓
542	547	60	5424	57	95	21	35	✓
547	551	48	5472	48	100	23	48	✓
551	555	48	5520	48	100	18	38	✓

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D130

DATE

MARCH 21/85

LOGGED BY

J. E. Carr

	FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE INTENSITY
	FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	
	555	560	60	5580	60	100	38	63	MODERATE
	560	565	60	5640	54	90	15	25	MODERATE/HIGH
	565	569	48	5688	45	94	4	0	HIGH
	569	574	60	5748	55	92	20	33	MODERATE
	574	578	48	5796	48	100	23	48	/
	578	583.5	60	5862	60	91	38	58	/
	583.5	588	54	5916	54	100	24	44	/
✓	588	593	60	5976	60	100	47	78	/
	593	596	36	6012	36	100	25	69	/
	596	601	60	6072	60	100	25	42	/
	601	606	60	6132	60	100	43	72	/
	606	608	24	6156	24	100	0	0	HIGH
	608	613	60	6216	60	100	24	40	MODERATE
	613	618	60	6276	60	100	42	70	/
	618	623	60	6336	59	98	43	72	/
	623	628	60	6396	54	90	38	63	/
	628	629	12	6408	12	100	6	50	/
	629	634	60	6468	60	100	33	55	/
	634	639	60	6528	60	100	36	60	/
	639	644	60	6588	60	100	35	58	/
	644	649	60	6648	60	100	46	77	/
	649	654	60	6708	60	100	26	43	/
	654	659	60	6768	60	100	26	43	/
	659	664	60	6828	60	100	40	67	/
	664	669	60	6888	60	100	34	57	/
	669	674	60	6948	60	100	33	55	/
	674	679	60	7008	60	100	25	42	/
	679	683	48	7056	24	50	0	0	HIGH
✓	683	688	60	7116	60	100	12	0	/
	688	693	60	7176	60	100	39	65	MODERATE
	693	698	60	7236	60	100	49	82	LOW
	698	703	60	7296	60	100	30	50	MODERATE
	703	708	60	7356	60	100	48	80	LOW
	708	713	60	7416	51	85	39	57	MODERATE

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D130

DATE

MARCH 22/58

LOGGED BY

J. E. Stone

FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE INTENSITY
FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	
713	714	12	7428	12	100	5	42	Moderate
714	719	60	7488	60	100	46	77	✓
719	722	36	7524	36	100	18	50	✓
722	727	60	7584	60	100	44	73	✓
727	732	60	7644	56	93	24	40	—
732	734	24	7668	24	100	0	0	High
734	739	60	7728	60	100	18	30	Moderate
739	743	48	7776	48	100	11	0	High
743	748	60	7836	60	100	34	57	Moderate
748	753	60	7896	60	100	27	45	✓
753	758	60	7956	57	95	21	35	✓
758	763	60	8016	58	97	32	53	✓
763	768	60	8076	60	100	19	32	✓
768	770	24	8100	24	100	4	0	High
770	775	60	8160	60	100	24	40	Moderate
775	780	60	8220	54	90	29	48	✓
780	784	48	8268	48	100	8	0	High
784	789	60	8328	55	92	33	55	Moderate
789	792.5	42	8370	35	83	8	0	High
792.5	795.5	36	8406	36	100	24	67	Moderate
795.5	799	42	8448	39	93	21		✓
799	801	24	8472	24	100	0	0	High
801	804	36	8508	36	100	4	0	✓
804	809	60	8568	48	80	18	30	Moderate
✓ 809	814	60	8628	60	100	42	70	Moderate
END OF HOLE								



Geolog System $\frac{1}{2}$ mile 1/2 (inches) 1/2

[illegible]



Geolog System



Geolog System

S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha C

[illegible]

1.

1

[illegible]

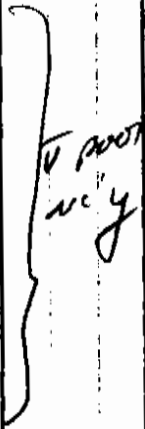
ILC-RMR			HOLE No D131 LOGGED BY GAD			DATE 6 APR 88 LOCATION SOUTH WALL		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	1	40		135	50		69	45
	2	45		6	40		170	45
	3	20		7	45		1	40
	4	40	} part missing	8	35		2	50
	5	35		9	35		3	45
	6	35		140	45		4	40
	7	35		1	40		5	35
	8	35		2	40		6	35
	9	40		3	50		7	40
	110	50		4	50		8	35
	1	40		5	40		9	30
	2	40		6	40		180	35
	3	50		7	50		1	35
	4	50		8	50		2	45
	5	35		9	35		3	20
	6	35		150	35		4	15
	7	45		1	45		5	30
	8	45		2	45		6	35
	9	35		3	35		7	35
	120	25		4	50		8	40
	1	35		5	50		9	15
	2	40		6	50		190	15
	3	40		7	45		1	35
	4	40		8	45		2	35
	5	40		9	45		3	15
	6	20		160	45		4	35
	7	25		1	45		5	40
	8	40		2	40		6	40
	9	40		3	50		7	45
	130	50		4	50		8	40
	1	45		5	40		9	45
	2	40		6	35		200	45
	3	40		7	35			
	4	35		8	45			

2073

ILC-RMR			HOLE No. D131		DATE LOCATION			
LOGGED BY								
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	201	15		235	20		69	35
	2	35		6	35		270	
	3	45		7	40		1	
	4	50		8	30		2	
	5	35		9	35		3	
	6	45		240	20		4	
	7	45		1	35		5	
	8	40		2	25		6	
	9	35		3	40		7	
	210	45		4	45		8	35
	1	35		5	30		9	40
	2	35		6	20		280	35
	3	40		7	45		1	45
	4	45		8	45		2	40
	5	35		9	20		3	40
	6	35		250	20		4	35
	7	20		1	15		5	45
	8	20		2	15		6	40
	9	35		3	35		7	50
	220	45		4	20		8	50
	1	45		5	35		9	25
	2	35		6	35		290	30
	3	40		7	35		1	35
	4	50		8	35		2	45
	5	50		9	30		3	40
	6	50		260	30		4	40
	7	45		1	30		5	50
	8	45		2	20		6	45
	9	40		3	15		7	40
	230	50		4	15		8	35
	1	50		5	15		9	25
	2	35		6	50		300	
	3	35		7	20			
	4	35		8	35			

V pool
UNCOVER} pore
net

393

ILC-RMR		HOLE No. D131		DATE 6 Apr 87		LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	1	25		35			69	
	2	15		6			70	
	3	15		7			1	
	4	35		8			2	
	5			9			3	
	6			40			4	
	7			1			5	
	8			2			6	
	9			3			7	
	10			4			8	
	1			5			9	
	2			6			80	
	3			7			1	
	4			8			2	
	5			9			3	
	6			50			4	
	7			1			5	
	8			2			6	
	9			3			7	
	20			4			8	
	1			5			9	
	2			6			90	
	3			7			1	
	4			8			2	
	5			9			3	
	6			60			4	
	7			1			5	
	8			2			6	
	9			3			7	
	30			4			8	
	1			5			9	
	2			6			00	
	3			7				
	4			8				

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D131

DATE

Apr 4/88

LOGGED BY



FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE INTENSITY
FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	
110	112.5	30	30	30	100	6	0	HIGH
112.5	116	42	72	28	67	0	0	✓
116	120	48	120	48	100	0	0	✓
120	125	60	180	60	100	19	32	MODERATE
125	129	48	228	48	100	0	0	HIGH
129	134	60	288	60	100	26	43	MODERATE
134	138	48	336	45	94	18	38	✓
138	139.5	18	354	12	67	0	0	HIGH
139.5	144	54	408	52	96	22	41	MODERATE
144	145	12	420	12	100	10	83	LOW
145	148.5	42	462	40	95	18	43	MODERATE
148.5	152	42	504	35	83	20	48	✓
152	157	60	564	60	100	42	70	✓
157	162	60	624	60	100	20	33	✓
162	167	60	684	60	100	29	48	✓
167	172	60	744	60	100	34	57	✓
172	176	48	792	48	100	16	33	✓
176	179	36	828	30	83	5	0	HIGH
179	182	36	864	29	81	6	0	✓
182	187	60	924	60	100	0	0	✓
187	192	60	984	60	100	20	33	MODERATE
192	197	60	1044	60	100	20	33	✓
197	202	60	1104	60	100	23	38	✓
202	207	60	1164	53	88	28	47	✓
207	211.5	54	1218	54	100	22	41	✓
211.5	213.5	24	1242	24	100	14	58	✓
213.5	217	42	1284	33	79	6	0	HIGH
217	222	60	1344	55	92	8	0	✓
222	227	60	1404	60	100	38	63	MODERATE
227	232	60	1464	60	100	31	52	✓
232	236	48	1512	45	94	15	31	✓
236	239	36	1548	36	100	8	22	✓ / HIGH
239	244	60	1608	52	87	38	63	MODERATE
244	249	60	1668	54	90	26	43	✓

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D131

DATE

APR 4/88

LOGGED BY

J. E. Cox

FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE
FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	INTENSITY
249	251	24	1692	22	92	9	38	Moderate
251	254	36	1728	36	100	4	0	High
254	257	36	1764	17	47	4	0	✓
257	258.5	18	1782	18	100	5	0	✓
258.5	263.5	60	1842	45	75	0	0	✓
263.5	267	42	1884	22	52	11	0	✓
267	268	12	1896	5	42	0	0	✓
268	269.5	18	1914	0	0	0	0	N/A
269.5	272	30	1944	0	0	0	0	N/A
272	277	60	2004	30	50	0	0	High
277	280	36	2040	33	92	0	0	✓
280	284	48	2088	48	100	9	0	✓
284	289	60	2148	60	100	34	57	Moderate
289	294	60	2208	60	100	23	38	✓
294	299	60	2268	55	92	28	47	✓
299	304	60	2328	18	30	0	0	High
304	306	24	2352	8	33	0	0	✓
306	309	36	2388	6	17	0	0	✓
END OF HOLE.								



Geolog System

Geofor

S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O 101 = Alpha I Z = Alpha Z

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Geolog System Non-scale 2: Replacement

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S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven 8 = Alpha O 10 = Alpha 1 Z = Alpha 2

INTERFERED WITH			FORMAL VERIFICATION			NO. OF DIRECTIONS/TRAVERS			SET OF CORE OR MOLE			DATE AND TIME			BY			COMPLETED			COMMENT / REMARK			GRID AZIMUTH			UNITS		
KEY	FLAG	TYPE	DIN	6	0	5	0-32																						
KEY	FLAG	FROM	TO	F-S	O	AZIM	CLOCKWISE FROM TRUE	V-ANG	MEAS DOWN	STATION	OFFSET	NORTHING	EASTING	ELEVATION															
U	FLAG	FROM	TO	RECOVERY	TYPE	ROCK-SOIL	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE		
1	D	3565	3625			RNAH																							
1	D	3939	4035			RNAH																							
1	R	393.7	403.5			MOD STR FRAC D SER/KHL ALT D CKE LAP TUFF K/W ANG CLASTS TO 2CM																							
1	P	403.3	409.2			MOD FF/VLT ALU CHL D CLASTS																							
1	R	403.5	409.2			INTA PEBBLE DIKE AS 330-342 C/W 202 FSP/QR PORPH FRAGS																							
1	P	409.2	429.5			ARE RIMMED WITH PY PORV WK CHL ALT OF MATR SER COMMON IN FRAGS																							
1	R	409.2	429.5			VFC GN/GY ANDES POSS FGL WK PERV SER/CHL WITH LOC 700 SER ENV																							
1	P	429.5	433			DIS 2N A/W PTI VN Q 25 DEC TO CIA Q 125 DEC CHL C FLT G 70 OF																							
1	R	427.5	433			STR FRAC D STR SER ALT D BKA FLT BONE C/W SHEARING																							
1	P	433	483.5			MOD CHL/GGUE + PERV SER/RY 62 PY																							
1	R	433	483.5			MOD DK GY/GY CHL +/- SER ALT D ANDES MOD MOTTLED BY LIM GRN EPI																							
1	N	456	472.2			CHL D MAPS TO 2MM MATR MOD GY C/W POSS WK S																							
1	R	456	472.2			PEBBLE DIKE AS 330-342 403-407																							



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[illegible]



Geolog System

Geoforn

Geological Survey of Canada Form 1-1 (Rev. 1-1-77)

PROJECT: 6805, SHEET: 0-132, STATION: 6805, DATE: 1977, TIME: 10:00, LOCATION: 6805, COMMENTS: 6805

NO.	FROM	TO	DESCRIPTION	REMARKS
1	6805	6805	6805	6805
2	6805	6805	6805	6805
3	6805	6805	6805	6805
4	6805	6805	6805	6805
5	6805	6805	6805	6805
6	6805	6805	6805	6805
7	6805	6805	6805	6805
8	6805	6805	6805	6805
9	6805	6805	6805	6805
10	6805	6805	6805	6805
11	6805	6805	6805	6805
12	6805	6805	6805	6805
13	6805	6805	6805	6805
14	6805	6805	6805	6805
15	6805	6805	6805	6805
16	6805	6805	6805	6805
17	6805	6805	6805	6805
18	6805	6805	6805	6805
19	6805	6805	6805	6805
20	6805	6805	6805	6805
21	6805	6805	6805	6805
22	6805	6805	6805	6805
23	6805	6805	6805	6805
24	6805	6805	6805	6805
25	6805	6805	6805	6805
26	6805	6805	6805	6805
27	6805	6805	6805	6805
28	6805	6805	6805	6805
29	6805	6805	6805	6805
30	6805	6805	6805	6805
31	6805	6805	6805	6805
32	6805	6805	6805	6805
33	6805	6805	6805	6805
34	6805	6805	6805	6805
35	6805	6805	6805	6805
36	6805	6805	6805	6805
37	6805	6805	6805	6805
38	6805	6805	6805	6805
39	6805	6805	6805	6805
40	6805	6805	6805	6805
41	6805	6805	6805	6805
42	6805	6805	6805	6805
43	6805	6805	6805	6805
44	6805	6805	6805	6805
45	6805	6805	6805	6805
46	6805	6805	6805	6805
47	6805	6805	6805	6805
48	6805	6805	6805	6805
49	6805	6805	6805	6805
50	6805	6805	6805	6805
51	6805	6805	6805	6805
52	6805	6805	6805	6805
53	6805	6805	6805	6805
54	6805	6805	6805	6805
55	6805	6805	6805	6805
56	6805	6805	6805	6805
57	6805	6805	6805	6805
58	6805	6805	6805	6805
59	6805	6805	6805	6805
60	6805	6805	6805	6805
61	6805	6805	6805	6805
62	6805	6805	6805	6805
63	6805	6805	6805	6805
64	6805	6805	6805	6805
65	6805	6805	6805	6805
66	6805	6805	6805	6805
67	6805	6805	6805	6805
68	6805	6805	6805	6805
69	6805	6805	6805	6805
70	6805	6805	6805	6805
71	6805	6805	6805	6805
72	6805	6805	6805	6805
73	6805	6805	6805	6805
74	6805	6805	6805	6805
75	6805	6805	6805	6805
76	6805	6805	6805	6805
77	6805	6805	6805	6805
78	6805	6805	6805	6805
79	6805	6805	6805	6805
80	6805	6805	6805	6805
81	6805	6805	6805	6805
82	6805	6805	6805	6805
83	6805	6805	6805	6805
84	6805	6805	6805	6805



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S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O J or I = Alpha I Z = Alpha Z

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INTERACTIVE LOGICAL DATA ENTRY

5 = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven 8 = Alpha O 10 = Alpha I 2 = Alpha Z

REV	FLAG	FROM	TO	RECOVERY	ROCK-SOIL	VEGETATION	STATION	OFFSET	NORTHING	EASTING	ELEVATION	UNIT
1	D	771	778		X B V A T							
2	R	771	778		MOTTLED OR GN CHL/MAG ALT D ANDES LAM TURF C/W MAG LCHL + OKC OLS							
3	D	769.5	765.5		X F A U L							
4	R	763	785		X F A U L							
5	D	785	849		B V A T V E							
6	R	785	849		ANDES LAM TURF C/W MAG LCHL/MAG OR CHL THROUGHOUT 2.2 SHOT RUNS OF							
7	D	799.5	802.3		BR V A T							
8	R	799.5	802.3		STR. SER. ALT. N-PRIM TMT LOST. OK FLT. C/W VHS C/3 70 DEG. 3-4 A. CG. PI							
9	D	809.5	814.5		STR. SER. ALT. N-PRIM TMT LOST. OK FLT. C/W VHS C/3 70 DEG. 3-4 A. CG. PI							
10	R	809.5	814.5		STR. SER. ALT. N-PRIM TMT LOST. OK FLT. C/W VHS C/3 70 DEG. 3-4 A. CG. PI							
11	D	828	831		X B V A T							
12	R	828	831		CRUMBLY NH SER. ALT. D ZONE POS. OF 2-3m - ASL TURF C/W SHR							



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Geofon

S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven @ = Alpha O ! = Alpha I Z = Alpha Z

Identity
Data
Survey
Data
Upper Tier
Lower Tier
Formulas
Survey Data
F Entry
C Entry

KEY	FLAG	FORMAT	VERSION	DATE	TIME	STATION	OFFSET	NORTHING	EASTING	ELEVATION	UNIT
1	DEM	6805	0-132								
2	PRJ										
3	KEY	FROM	TO	F.S.	O	AZM	CLOCKWISE	V-ANG	NEG W	DOWN	
4	U	FROM	TO	RECOVERY							
5	L	FROM	TO	RECOVERY							
6	A	FROM	TO	RECOVERY							
7	F	FROM	TO	RECOVERY							
8	RSUM	0	1	702-716							
9				STRONG SERICITE ; POSSIBLE PYROPHYLLITE IN A FRACTURED ZONE							
10				FAULT							
11				215-849							
12				MODERATE CHLORITE/MAGNETITE ALTERED ANDESITE LAPILLI TUFFS							
13				CUT AT IRREGULAR INTERVALS (15-30 FT) BY SERICITE ALTERATION							
14				ZONES OFFER WITH CLAY AND/OR GOUGES ALTERATION ZONE 1-5 FT							
15				THICK AND ARE VERY WEAK IF NOT ACTUAL FAULTS							
16				849-943							
17				MODERATE TO STRONG MAGNETITE/CHLORITE ALTERED ANDESITE TUFFS							
18				AND SOME PORPHYRIES. LESS MAGNETITE IN LOWER PORTION WITH							
19				STRUCTURES AT 896-900, 918-922. 1 FT BRECCIA DIKE AT 936.							

107 10

ILC-RMR			HOLE No. D132 LOGGED BY GLP			DATE 6 APR 88 LOCATION SOUTH HALL		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	1			35			69	
	2			6			70	
	3			7			1	
	4			8			2	
	5			9			3	
	6			40			4	
	7			1			5	
	8			2			6	
	9			3			7	
10	10			4			8	
	1			5			9	
	2			6			90	
	3			7			1	
	4			8			2	
	5			9			3	
	6			50			4	
	7			1			5	
	8			2			6	
	9			3			7	
20	20			4			8	
	1			5			9	
	2			6			90	
	3			7			1	
	4			8			2	
	5			9			3	
	6			60			4	
	7			1			5	
	8			2			6	
	9			3			7	
30	30			4			8	
	1			5			9	
	2			6			100	
	3			7				
	4			8				

coming
↑

45
45
45
45
50
50
35
50
50
50
50
45
50

22/10

ILC-RMR			HOLE No D 132 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	101	50		135	50		69	35
	2	40		6	25		170	40
	3	50		7	50		1	40
	4	20		8	50		2	50
	5	45		9	50		3	40
	6	50		140	50		4	40
	7	50		1	50		5	40
	8	45		2	40		6	50
	9	45		3	50		7	45
	40	40		4	50		8	35
110	45	45		5	45		9	50
	1	50		6	45		180	
	2	50		7	50		1	
	3	50		8	45		2	
	4	45		9	15		3	
	5	45		150	45		4	
	6	45		1	50		5	
	7	35		2	35		6	
	8	50		3	40		7	
	9	45		4	40		8	
120	35	35		5	40		9	35
	1	45		6	45		190	50
	2	45		7	35		1	50
	3	30		8	50		2	50
	4	35		9	50		3	50
	5	45		160	50		4	45
	6	40		1	45		5	45
	7	50		2	50		6	35
	8	50		3	50		7	35
	9	50		4	50		8	40
130	50	50		5	50		9	35
	1	35		6	50		200	35
	2	45		7	50			
	3	40		8	35			
	4	35						

lost water

ILC-RMR			HOLE No. D132 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	201	50		235	45		69	45
	2	45		6	40		270	45
	3	50		7	35		1	45
	4	45		8	35		2	45
	5	35		9	50		3	40
	6	40		240	50		4	35
	7	30		1	35		5	45
	8	45		2	45		6	45
	9	45		3	40		7	45
	210	45		4	45		8	45
	1	45		5	35		9	50
	2	45		6	35		280	25
	3	45		7	45		1	35
	4	45		8	30		2	35
	5	40		9	50		3	45
	6	15		250	50		4	45
	7	50		1	50		5	40
	8	40		2	50		6	40
	9	45		3	35		7	40
	220	40		4	30		8	25
	1	45		5	35		9	45
	2	45		6	50		290	50
	3	50		7	35		1	45
	4	50		8	45		2	40
	5	40		9	50		3	20
	6	15		260	50		4	45
	7	50		1	45		5	30
	8	50		2	35		6	45
	9	50		3	35		7	20
	230	40		4	35		8	45
	1	50		5	45		9	40
	2	35		6	40		300	35
	3	45		7	40			
	4	40		8	35			

40710

ILC-RMR			HOLE No D 132 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	301	40		335	20		69	40
	2	30		6	45		370	45
	3	40		7	50		1	35
	4	25		8	50		2	45
	5	20		9	35		3	45
	6	20		340	30		4	35
	7	15		1	40		5	45
	8	20		2	45		6	45
	9	35		3	20		7	35
	310	35		4	20		8	40
	1	35		5	45		9	40
	2	25		6	40		380	40
	3	40		7	45		1	45
	4	45		8	40		2	50
	5	35		9	40		3	50
	6	20		350	45		4	35
	7	30		1	45		5	50
	8	45		2	45		6	40
	9	25		3	40		7	50
	320	25		4	45		8	50
	1	20		5	45		9	45
	2	20		6	35		390	45
	3	20		7	35		1	35
	4	35		8	25		2	30
	5	35		9	20		3	50
	6	20		360	35		4	25
	7	25		1	45		5	35
	8	30		2	30		6	20
	9	20		3	35		7	35
	330	35		4	40		8	35
	1	50		5	45		9	25
	2	50		6	45		400	20
	3	50		7	50			
	4	50		8	45			

57 10

ILC-RMR			HOLE No D132 LOGGED BY		DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	40 1	35		4 35	40		69	40
	2	30		6	35		470	45
	3	35		7	35		1	45
	4	20		8	20		2	45
	5	50		9	35		3	55
	6	40		4 40	35		4	40
	7	45		1	40		5	45
	8	75		2	35		6	40
	9	45		3	45		7	40
	410	40		4	35		8	55
	1	35		5	50		9	50
	2	25		6	50		480	50
	3	35		7	50		1	45
	4	25		8	45		2	45
	5	20		9	35		3	45
	6	40		4 50	50		4	45
	7	35		1	50		5	45
	8	25		2	35		6	55
	9	40		3	40		7	25
	420	45		4	45		8	45
	1	40		5	45		9	40
	2	45		6	45		490	45
	3	35		7	55		1	45
	4	45		8	55		2	35
	5	45		9	55		3	55
	6	40		4 60	55		4	40
	7	45		1	55		5	45
	8	45		2	20		6	40
	9	35		3	50		7	35
	430	20		4	20		8	35
	1	20		5	45		9	45
	2	20		6	45		500	45
	3	15		7	45			
	4	40		8	45			

657 10

ILC-RMR			HOLE No D132 LOGGED BY		DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	501	45		535	45		69	25
	2	45		6	15	570		45
	3	40		7	40	1		40
	4	40		8	45	2		45
	5	50		9	40	3		45
	6	35		540	35	4		40
	7	35		1	15	5		20
	8	25		2	15	6		45
	9	30		3	35	7		30
	510	25		4	35	8		20
	1	20		5	30	9		35
	2	25		6	40	580		35
	3	20		7	50	1		50
	4	25		8	15	2		40
	5	30		9	25	3		40
	6	15		550	20	4		55
	7	50		1	15	5		15
	8	35		2	45	6		25
	9	45		3	45	7		25
	520	45		4	45	8		50
	1	45		5	45	9		45
	2	35		6	35	590		45
	3	45		7	45	1		55
	4	40		8	50	2		30
	5	45		9	35	3		20
	6	20		560	25	4		45
	7	50		1	35	5		45
	8	50		2	35	6		55
	9	45		3	35	7		45
	530	40		4	45	8		30
	1	40		5	45	9		20
	2	20		6	35	600		50
	3	45		7	40			
	4	45		8	45			

7/7/10

ILC-RMR			HOLE No D 132 LOGGED BY			DATE LOCATION		
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	601	35		635	20		69	50
	2	30		6	40		670	
	3	45		7	15		1	
	4	45		8	45		2	
	5	40		9	35		3	
	6	45		640	50		4	
	7	35		1	40		5	
	8	45		2	45		6	
	9	45		3	45		7	30
	610	40		4	40		8	45
	1	45		5	15		9	45
	2	45		6	40		680	50
	3	45		7	35		1	50
	4	20		8	35		2	50
	5	45		9	40		3	50
	6	40		650	50		4	50
	7	45		1	45		5	55
	8	35		2	45		6	45
	9	40		3	40		7	40
	620	40		4	35		8	45
	1	40		5	50		9	45
	2	20		6	45		690	45
	3	20		7	35		1	45
	4	40		8	50		2	50
	5	40		9	50		3	45
	6	40		660	20		4	45
	7	40		1	45		5	50
	8	45		2	50		6	45
	9	45		3	45		7	50
	630	55		4	25		8	50
	1	40		5	40		9	50
	2	35		6	50		700	55
	3	50		7	50			
	4	35		8	50			

80710

ILC-RMR		HOLE No D132 LOGGED BY		DATE LOCATION				
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	701	55		735	50		69	35
	2	55		6	55		770	35
	3	40		7	45		1	35
	4	25		8			2	45
	5	35		9			3	50
	6	45		740			4	45
	7	25		1			5	30
	8	35		2			6	35
	9	20		3	15		7	40
710	30			4	45		8	45
1	25			5	35		9	40
2	45			6	20		780	35
3	45			7	40		1	20
4	45			8	40		2	35
5	35			9	45		3	20
6	20		750	35			4	20
7	55		1	35			5	35
8	40		2	40			6	45
9	45		3	45			7	35
720	45		4	40			8	50
1	45		5	20			9	45
2	35		6	35		790	40	
3	40		7	35		1	45	
4	45		8	45		2	40	
5	45		9	45		3	40	
6	20		760	45		4	40	
7	40		1	35		5	35	
8	50		2	45		6	45	
9	50		3	25		7	35	
730	50		4	25		8	40	
1	30		5	20		9	50	
2	45		6	15		800	50	
3	40		7	45				
4	50		8	40				

970

ILC-RMR		HOLE No 132 LOGGED BY			DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	801	15		835	40		69	35
	2	20		6	45		870	40
	3	25		7	45		1	30
	4	45		8	40		2	35
	5	45		9	35		3	40
	6	30		840	45		4	45
	7	45		1	35		5	↓
	8	45		2	40		6	↓
	9	40		3	45		7	40
	45			4	55		8	45
	810	45		5	15		9	45
	1	20		6	15		890	40
	2	25		7	45		1	45
	3	25		8	20		2	40
	4	45		9	45		3	40
	5	40		850	40		4	45
	6	45		1	45		5	45
	7	40		2	40		6	45
	8	35		3	40		7	45
	9	35		4	45		8	45
	820	35		5	40		9	40
	1	35		6	45		890	35
	2	35		7	55		1	45
	3	35		8	45		2	45
	4	50		9	50		3	40
	5	40		860	50		4	45
	6	45		1	45		5	55
	7	45		2	40		6	35
	8	15		3	40		7	15
	9	15		4	55		8	40
	830	15		5	55		9	35
	1	35		6	40		900	20
	2	30		7	40			
	3	35		8	45			
	4	35						

10 of 10

ILC-RMR			HOLE No D132 LOGGED BY		DATE LOCATION			
FROM	TO	RATING	FROM	TO	RATING	FROM	TO	RATING
	901	45		935	40		69	
	2	55		6	40		70	
	3	45		7	40		1	
	4	55		8	35		2	
	5	45		9	40		3	
	6	40		940	40		4	
	7	40		1	35		5	
	8	55		2	35		6	
	9	40		3	35		7	
	910	35		4			8	
	1	35		5			9	
	2	35		6			90	
	3	35		7			1	
	4	35		8			2	
	5	35		9			3	
	6	50		950			4	
	7	45		1			5	
	8	40		2			6	
	9	40		3			7	
	920	25		4			8	
	1	35		5			9	
	2	40		6			90	
	3	40		7			1	
	4	35		8			2	
	5	35		9			3	
	6	40		60			4	
	7	40		1			5	
	8	15		2			6	
	9	55		3			7	
	930	35		4			8	
	1	40		5			9	
	2	40		6			00	
	3	35		7				
	4	40		8				

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO. D132DATE Apr 5/88

LOGGED BY

TOTAL

CUM.

PIECES

RQD

FRACTURE
INTENSITYFOOTAGE (FT)
FROM TOINTERVAL
INCHES CUMULATIVERECOVERY
INCHES %

4"

%

FOOTAGE (FT) FROM	TO	INTERVAL INCHES	CUMULATIVE	RECOVERY INCHES	%	4"	RQD %	FRACTURE INTENSITY
85	89	48	48	34	71	21	44	Moderate
89	94	60	108	60	100	48	80	Low
94	99	60	168	60	100	47	78	Moderate
99	104	60	228	60	100	44	73	✓
104	109	60	288	54	90	36	60	✓
109	114	60	348	60	100	31	52	✓
114	119	60	408	60	100	25	42	✓
119	124	60	468	60	100	16	0	High
124	129	60	528	60	100	31	52	Moderate
129	134	60	588	56	93	30	50	✓
134	139	60	648	60	100	47	78	✓
139	144	60	708	60	100	46	77	✓
144	149	60	768	54	90	27	45	✓
149	152.5	42	810	42	100	16	38	✓
152.5	157.5	60	870	60	100	30	50	✓
157.5	162.5	60	930	60	100	53	88	Low
162.5	167.5	60	990	52	87	44	73	Moderate
167.5	173	66	1056	66	100	30	45	✓
173	178	60	1116	60	100	26	43	✓
178	183.5	66	1182	60	91	55	83	Low
183.5	189	66	1248	62	94	48	73	Moderate
189	194	60	1308	60	100	44	73	✓
194	197	36	1344	36	100	8	0	High
197	202	60	1404	60	100	29	48	Moderate
202	207	60	1464	60	100	36	60	✓
207	212	60	1524	60	100	38	63	✓
212	216.5	54	1578	51	94	33	55	✓
216.5	221.5	60	1638	60	100	24	40	✓
221.5	226	54	1692	52	96	38	70	✓
226	231	60	1752	60	100	52	87	Low
231	236	60	1812	60	100	22	37	Moderate
236	238	24	1836	19	79	0	0	High
238	243	60	1896	60	100	31	52	Moderate
243	245	24	1920	24	100	5	0	High

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO. D132

DATE

Apr 5/88

LOGGED BY

Andy BebynTOTAL
CUM.

PIECES

ROD

FRACTURE
INTENSITYFOOTAGE (FT)
FROM TOINTERVAL
INCHES CUMULATIVERECOVERY
INCHES %

4"

%

245	249	48	1968	48	100	30	63	Moderate
249	254	60	2028	60	100	39	65	✓
254	259	60	2088	60	100	39	65	✓
259	264	60	2148	60	100	24	40	✓
264	269	60	2208	60	100	20	33	✓
269	274	60	2268	60	100	27	45	✓
274	279	60	2328	53	88	44	73	✓
279	284	60	2388	60	100	30	50	✓
284	288	48	2436	48	100	20	42	✓
288	293	60	2496	60	100	43	72	✓
293	297	48	2544	48	100	18	38	✓
297	302	60	2604	60	100	29	48	✓
302	304	24	2628	24	100	5	0	High
304	308	48	2676	48	100	6	0	✓
308	313	60	2736	60	100	13	0	✓
313	316.5	42	2778	36	86	10	0	✓
316.5	321.5	60	2838	60	100	17	0	✓
321.5	326	54	2892	48	89	5	0	✓
326	329	36	2928	26	72	0	0	✓
329	334	60	2988	60	100	56	93	low
334	336	24	3012	24	100	5	0	High
336	341	60	3072	57	95	20	33	Moderate
341	346	60	3132	60	100	20	33	✓
346	347.5	18	3150	16	89	4	0	High
347.5	352.5	60	3210	60	100	24	40	Moderate
352.5	355.5	36	3246	36	100	18	50	✓
355.5	359	42	3288	39	93	0	0	High
359	362	36	3324	36	100	14	39	Moderate
362	366	48	3372	48	100	21	44	Moderate
366	371	60	3432	60	100	35	58	✓
371	375.5	54	3486	54	100	21	39	✓
375.5	379	42	3528	42	100	21	50	✓
379	384	60	3588	60	100	34	57	✓
384	389	60	3648	60	100	44	73	✓

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D132

DATE

Apr 5/88

LOGGED BY

J. E. Ene
B. Aron B. ByrdTOTAL
CUM.

PIECES

RQD

FRACTURE
INTENSITYFOOTAGE (FT)
FROM TOINTERVAL
INCHES CUMULATIVERECOVERY
INCHES %

4"

%

✓	FOOTAGE (FT) FROM	TO	INTERVAL INCHES	CUMULATIVE	RECOVERY INCHES	%	PIECES 4"	RQD %	FRACTURE INTENSITY
✓	389	394	60	3708	60	100	42	70	Moderate
	394	397	36	3744	36	100	0	0	High
	397	400	36	3780	36	100	0	0	✓
	400	404	48	3828	48	100	7	0	✓
	404	409	60	3888	53	88	48	80	Low
	409	414	60	3948	53	88	28	47	Moderate
✓	414	419	60	4008	60	100	22	37	✓
	419	423	48	4056	48	100	28	58	✓
	423	428	60	4116	60	100	41	68	✓
	428	433	60	4176	60	100	16	0	High
	433	438	60	4236	60	100	37	62	Moderate
	438	442	48	4284	48	100	9	0	High
✓	442	447	60	4344	60	100	54	90	Low
	447	452	60	4404	60	100	38	63	Moderate
	452	457	60	4464	60	100	38	63	✓
	457	462	60	4524	60	100	53	88	Low
	462	467	60	4584	60	100	52	93	✓
	467	472	60	4644	60	100	54	90	✓
	472	477	60	4704	60	100	32	53	Moderate
	477	482	60	4764	60	100	42	70	✓
	482	487	60	4824	60	100	39	65	✓
	487	492	60	4884	60	100	34	57	✓
	492	497	60	4944	60	100	47	78	✓
	497	501	48	4992	48	100	28	58	✓
	501	506	60	5052	60	100	42	70	✓
✓	506	511	60	5112	60	100	23	38	✓
	511	516	60	5172	60	100	4	0	High
	516	521	60	5232	60	100	25	42	Moderate
	521	525.5	54	5286	52	96	31	57	✓
	525.5	530.5	60	5346	60	100	39	65	✓
	530.5	535.5	60	5406	60	100	23	38	✓
	535.5	540.5	60	5466	60	100	19	32	✓
✓	540.5	542	18	5484	18	100	0	0	High

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO. 132DATE Apr 6/88LOGGED BY C. R. Lee

FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE INTENSITY
FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	
542	547	60	5544	58	97	11	0	HIGH
547	551	48	5592	48	100	5	0	✓
551	556	60	5652	60	100	37	62	MODERATE
556	561	60	5712	60	100	31	52	✓
561	567.5	78	5790	59	76	31	40	✓
567.5	572.5	60	5850	60	100	17	0	HIGH
572.5	575	30	5880	30	100	0	0	✓
✓ 575	580	60	5940	60	100	8	0	✓
580	585	60	6000	60	100	39	65	MODERATE
585	590	60	6060	60	100	24	40	✓
590	595	60	6120	60	100	41	68	✓
595	600	60	6180	60	100	39	65	✓
600	605	60	6240	60	100	25	42	✓
605	609	48	6288	48	100	24	50	✓
609	614	60	6348	58	97	33	55	✓
614	619	60	6408	60	100	22	37	✓
619	624	60	6468	60	100	15	0	HIGH
624	629	60	6528	60	100	20	33	MODERATE
629	634	60	6588	60	100	32	53	✓
634	639	60	6648	60	100	10	0	HIGH
639	643.5	54	6702	50	93	26	48	MODERATE
643.5	647	42	6744	42	100	9	0	HIGH
647	652	60	6804	60	100	29	48	MODERATE
652	657	60	6864	60	100	35	58	✓
657	662	60	6924	60	100	45	75	✓
662	667	60	6984	60	100	35	58	✓
667	672	60	7044	60	100	49	82	LOW
672	677	60	7104	60	100	52	87	✓
677	682	60	7164	60	100	48	80	✓
682	687	60	7224	60	100	43	72	MODERATE
687	692	60	7284	60	100	21	35	✓
692	697	60	7344	60	100	46	77	✓
697	702	60	7404	60	100	51	85	LOW
702	707	60	7464	60	100	21	35	MODERATE

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D132

DATE

Apr 16/88

LOGGED BY

J. E. [Signature]

FOOTAGE (FT)		INTERVAL		RECOVERY		TOTAL CUM.	RQD	FRACTURE
FROM	TO	INCHES	CUMULATIVE	INCHES	%	PIECES 4"	%	INTENSITY
✓ 707	712	60	7524	60	100	16	0	HIGH
712	717	60	7584	60	100	29	48	MODERATE
717	722	60	7644	60	100	14	0	HIGH
722	726.5	54	7698	54	100	31	57	MODERATE
726.5	732	66	7764	59	89	27	41	✓
732	737	60	7824	59	98	45	75	✓
737	742	60	7884	57	95	25	42	✓
742	747	60	7944	59	98	26	43	✓
747	752	60	8004	60	100	16	0	HIGH
752	756	48	8052	48	100	0	0	✓
756	761	60	8112	60	100	23	38	MODERATE
761	766	60	8172	60	100	10	0	HIGH
766	771.5	66	8238	66	100	12	0	✓
771.5	776.5	60	8298	60	100	36	60	MODERATE
776.5	781.5	60	8358	60	100	18	30	✓
781.5	787	66	8424	62	94	10	0	HIGH
787	792	60	8484	60	100	33	55	MODERATE
792	797	60	8544	60	100	24	40	✓
797	802	60	8604	60	100	41	68	✓
802	807	60	8664	60	100	43	72	✓
807	812	60	8724	53	88	20	33	✓
812	818	72	8796	71	99	22	0	HIGH
818	819	12	8808	12	100	0	0	✓
819	824	60	8868	60	100	8	0	✓
824	829	60	8928	56	93	39	65	MODERATE
829	834	60	8988	60	100	10	0	HIGH
834	839	60	9048	60	100	32	53	MODERATE
839	844	60	9108	60	100	39	65	✓
844	848	48	9156	43	90	17	35	✓
848	853	60	9216	60	100	19	32	✓
853	858	60	9276	60	100	37	62	✓
858	863	60	9336	59	98	24	40	✓
863	868	60	9396	60	100	36	60	✓
868	873	60	9456	60	100	13	0	HIGH

ROCK QUALITY DESIGNATION (R.Q.D.)

HOLE NO.

D132

DATE

Apr 6/88

LOGGED BY

[Signature]

FOOTAGE (FT) FROM TO	INTERVAL INCHES CUMULATIVE	RECOVERY INCHES %	TOTAL CUM. PIECES 4"	RQD %	FRACTURE INTENSITY
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✓ 873 878	60 9516	59 98	35	58	Moderate
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878 883	60 9576	60 100	21	35	✓
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883 888	60 9636	60 100	30	50	✓
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888 893	60 9696	60 100	22	37	✓
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893 898	60 9756	60 100	19	32	✓
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898 903	60 9816	57 95	24	40	✓
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903 908	60 9876	60 100	30	50	✓
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908 910.5	30 9906	30 100	0	0	High
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910.5 913.5	36 9942	33 92	0	0	✓
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✓ 913.5 918.5	60 10002	60 100	24	40	Moderate
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918.5 923.5	60 10062	60 100	18	30	✓
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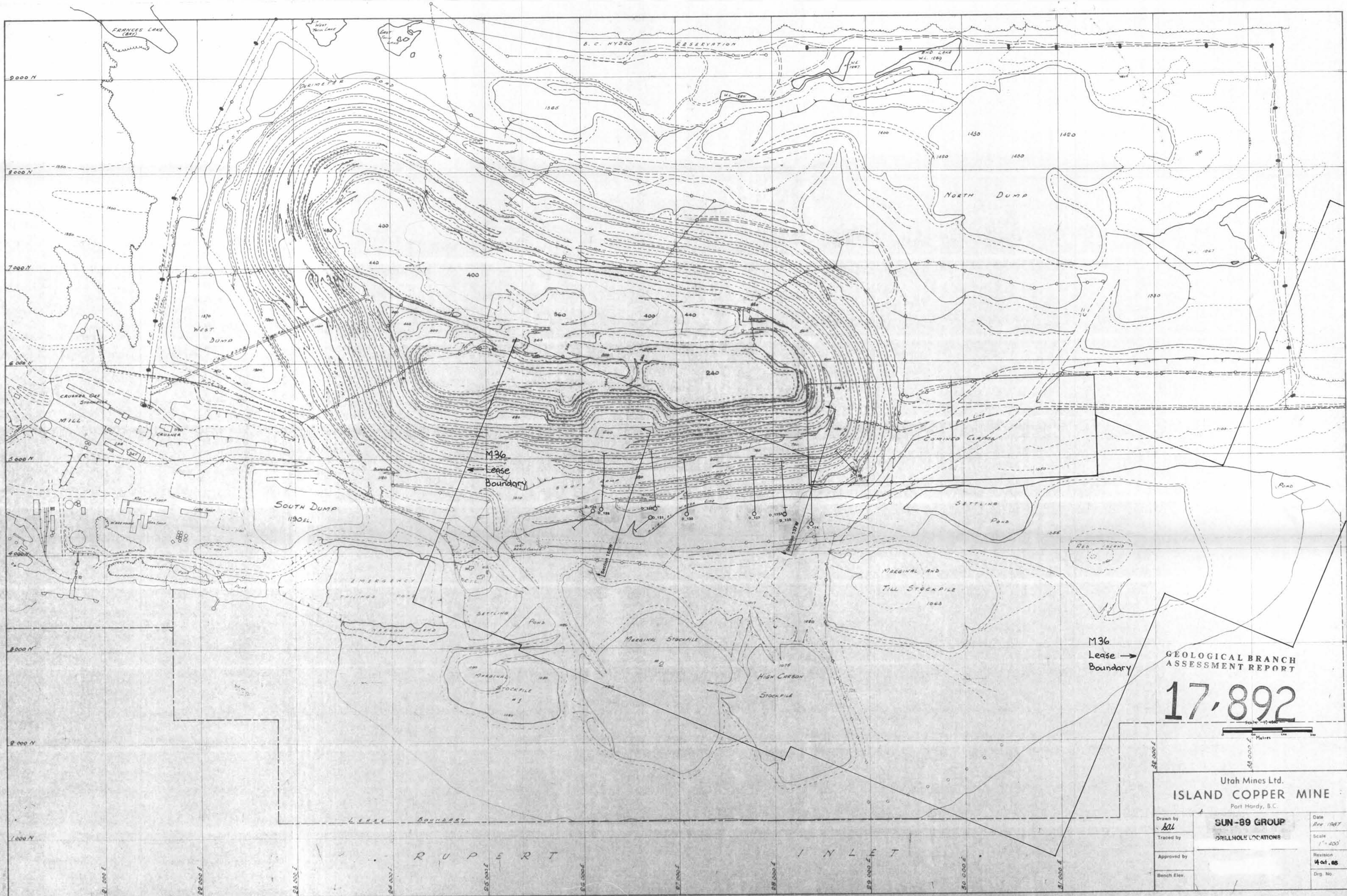
923.5 928	54 10116	54 100	21	39	✓
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928 933	60 10176	60 100	21	39	✓
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933 938	60 10236	60 100	25	42	✓
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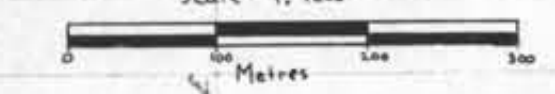
938 943	60 10296	28 47	0	0	High
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END OF HOLE

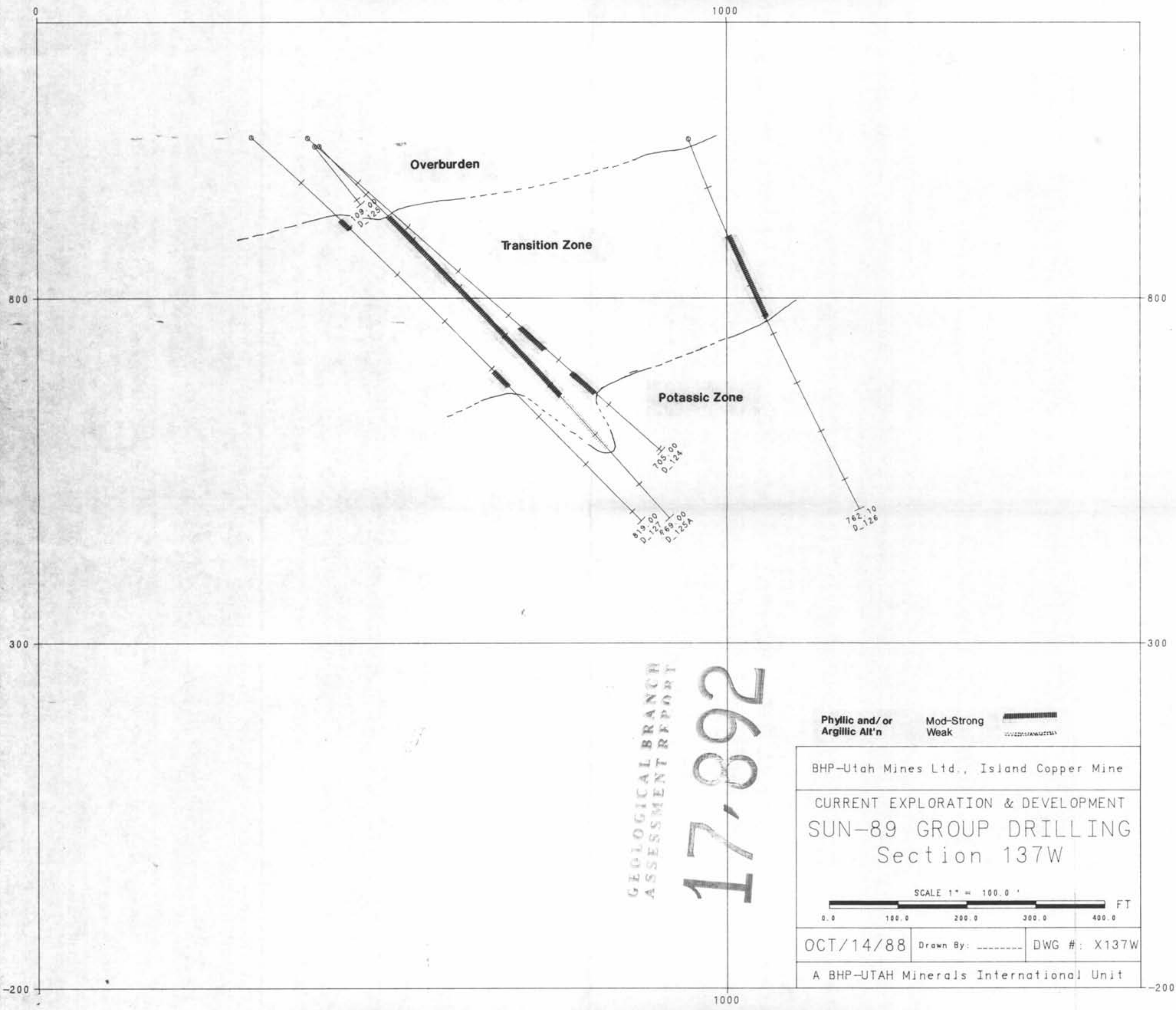


GEOLOGICAL BRANCH
ASSESSMENT REPORT

17-892



Utah Mines Ltd. ISLAND COPPER MINE Port Hardy, B.C.			
Drawn by JAL	SUN-89 GROUP	Date APR 1987	
Traced by	DRILLHOLE LOCATIONS	Scale 1" = 400'	
Approved by		Revision 4 Oct. 88	
Bench Elev.		Dwg. No.	



GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,892

