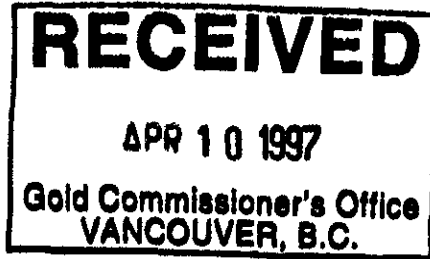


ASSESSMENT REPORT FOR ISK WOLLASTONITE PROJECT

OWNER / OPERATOR: WHITEGOLD RESOURCE CORP.



for the

ISK 1-6, BRYE 1-3, BRIL 1-4, GRIZZLY

LIARD MINING DIVISION

N.T.S.

104 B / 11W

131'18" WEST (LONGITUDE), 56'40" NORTH (LATITUDE)

ISKUT REGION

NORTHERN BRITISH COLUMBIA

AUTHOR: B.A. Lueck

P. Geo

FIELDWORK PERFORMED: JUNE 28 TO AUGUST 30, 1996
GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

DATE: APRIL 9, 1997

24,931

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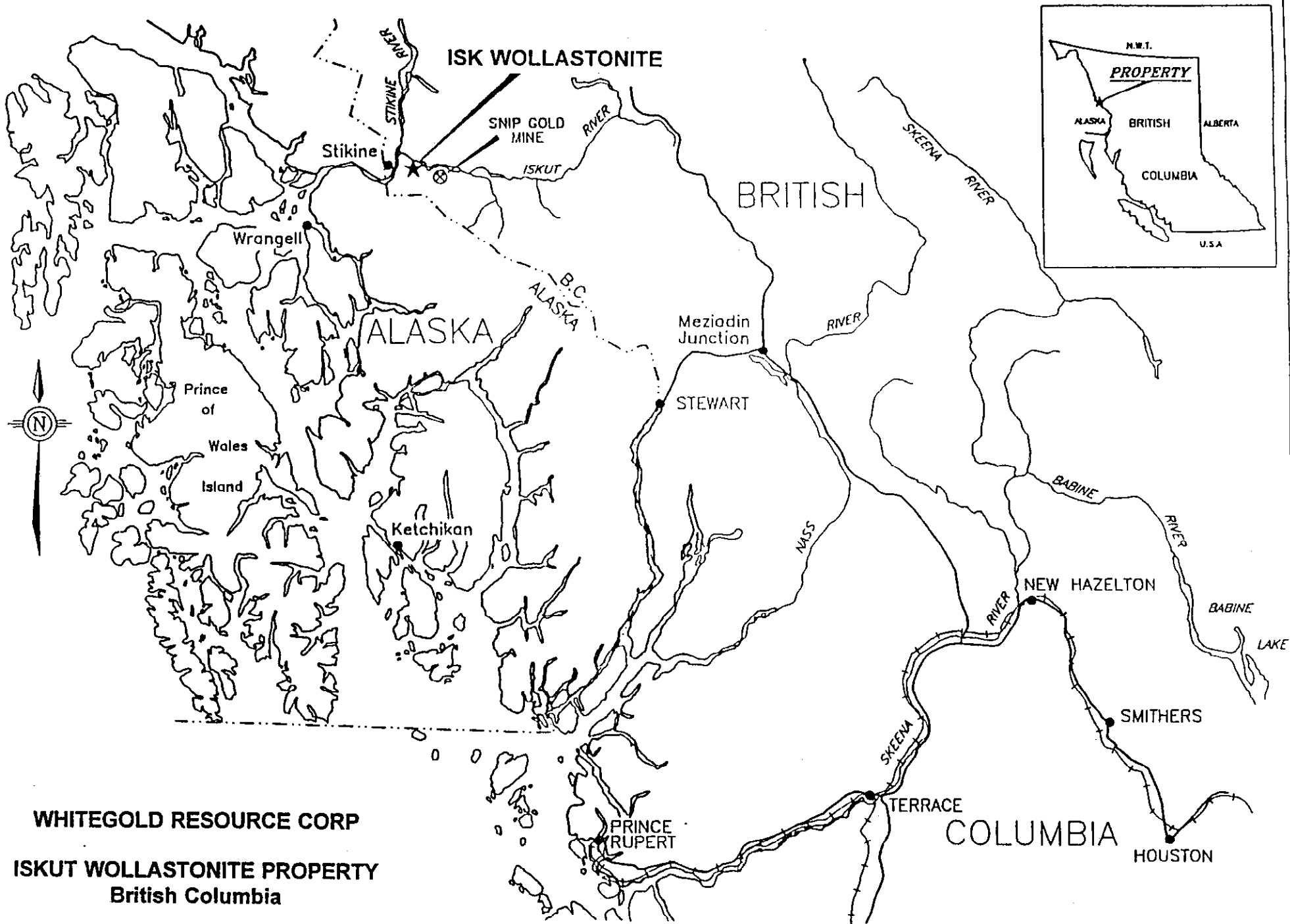
SUMMARY

The 1996 field season at the Isk Wollastonite project was set to accomplish two major goals: (1) the delineation of a minable wollastonite zone through diamond drilling, trenching and geological mapping and (2) the completion of all the work necessary for acquiring a mining permit. Fieldwork was conducted from June 29 to August 28, 1996 and included diamond drilling, trenching, detailed geological mapping, and a legal survey. The field season was based out of Pamicon's camp located at the base of the Bronson airstrip, approximately 1.5 kilometers from Homestake/Prime Resource's Snip Gold Mine.

The Bril deposit was identified as the most suitable for mining and reserve development and the preliminary delineation of the size and shape of the Bril deposit through diamond drilling, trenching, and detailed geological mapping was also initiated. Drill hole data needed for preliminary assessment of wollastonite content and purity at the Bartnick and the Cliff deposits was collected and, in addition, three new wollastonite showings were discovered. In total, work completed consisted of ~6,500 feet of diamond drilling, 140 meters of trenching, and approximately 1740 metres of baseline establishment.

LOCATION, TOPOGRAPHY, and CLIMATE

ISK Wollastonite property occurs in the Iskut River map area, in northern B.C. (NTS 104B/11W), about ten kilometers southwest of the confluence of the Iskut and the Craig Rivers (see figure 1). The property is approximately 70km east of Wrangell, Alaska and



WHITEGOLD RESOURCE CORP
ISKUT WOLLASTONITE PROPERTY
 British Columbia

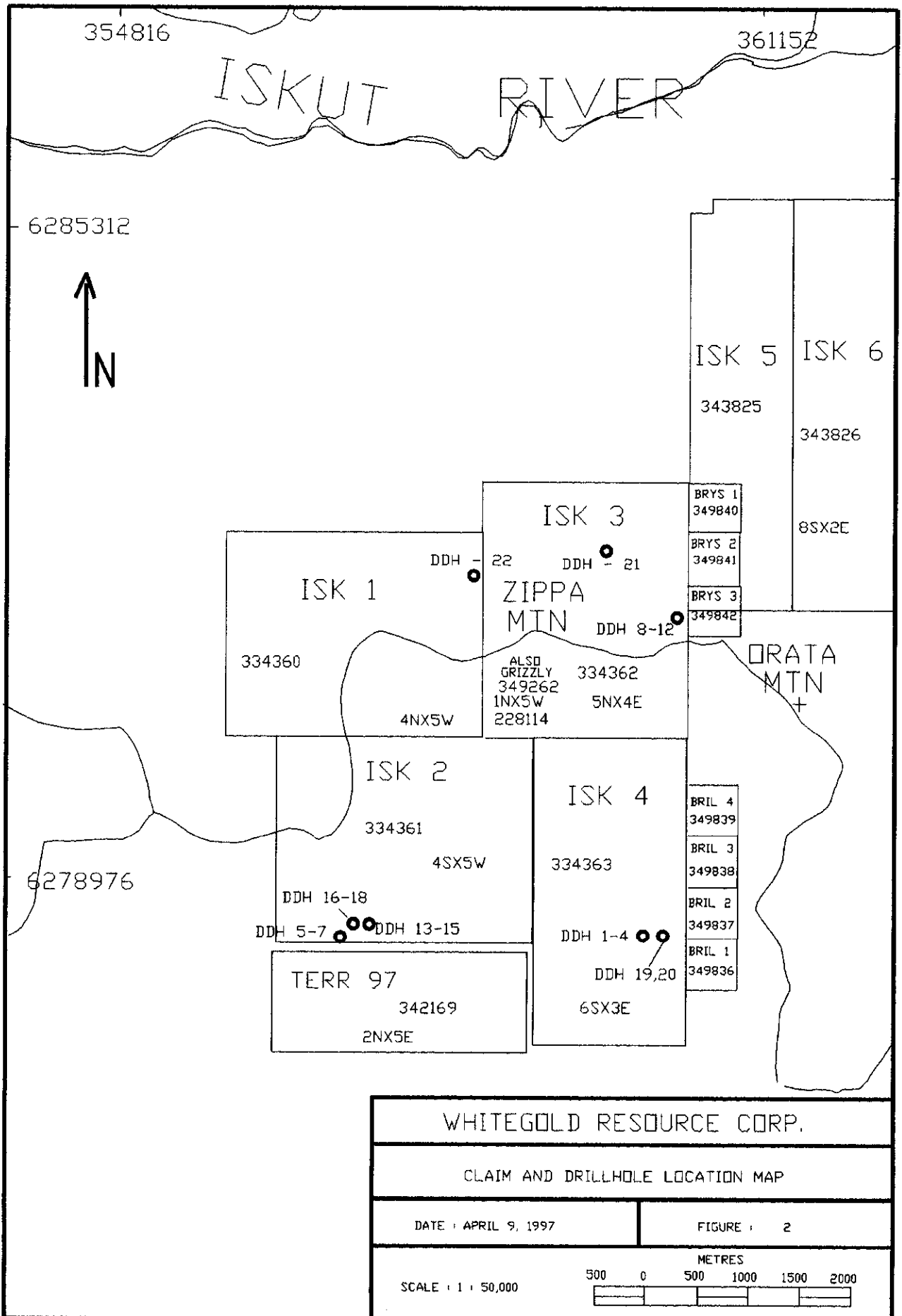
Figure 1

approximately 150km northwest of Stewart, B.C. The area is accessible by plane from Smithers, B.C. to the Bronson Creek airstrip and by helicopter from Bronson Creek (site of Homestake/Prime's Snip Gold mine) which is about 14 km east of the property. The area contains rugged mountains up to 2000 metres in elevation characterized by alpine glaciers and icefields and well-exposed steep rock faces.

The climate in the Bronson Creek area is dominated by cloud, low fog, unsteady winds, with brief periods of stable sunny and hot weather. The property, which ranges in elevation from 1500m to 2000m, is, not uncommonly, below 0°C and occasionally has snowfall. The Iskut region is notoriously for its year-round unstable weather which is not only responsible for many 'weather days' when flying is not permissible, but also has been a contributing cause of a string of airplane and helicopter accidents throughout, at least, the last decade.

PROPERTY DEFINITION

ISK Wollastonite property, operated and 100% owned by Whitegold Resource Corp. (formerly Super Twins Resources Ltd.), is approximately 30.5 km² in area and consists of 122 mineral claim units (see Figure 2). The legal survey of the claims is shown in Figure 3. The property was first discovered in 1993, by Director and Vice-President of Whitegold Resource Corp., Brian Lueck, during his mapping of the area as part of his Master's thesis at the University of British Columbia.

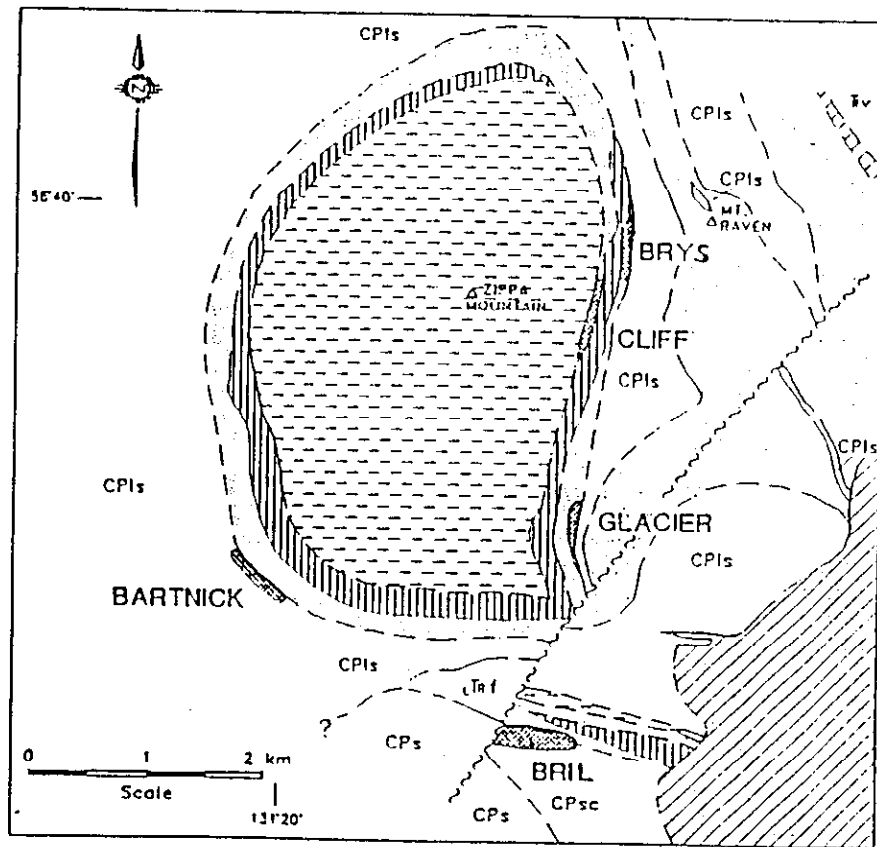


The economic outlook for the property is very encouraging. A conservative price of wollastonite on the world markets is currently around CDN\$200/tonne. Given mining, processing, and transportation costs, the net value of wollastonite in the ground is approximately CDN\$50/tonne. The potential resource of wollastonite at the Isk Wollastonite property is estimated at 40 million tonnes. This yields a net value at CDN\$2 billion.

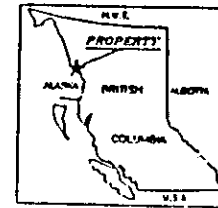
REGIONAL GEOLOGY

The property encompasses the Zippa Mountain pluton which is an elliptically-shaped nepheline syenite that outcrops over a 3.5 by 5 km area (see Figure 4). The intrusion is zoned, layered, characterized by well-developed planar mineral fabrics and based on modal mineralogy is strongly silica-undersaturated. The Mount Raven and Seraphim Mountain plutons are two other intrusions within the property and are spatially and temporally associated with the Zippa Mountain pluton (Fig 2). Together, they comprise the Zippa Mountain Igneous Complex.

The Zippa Mountain pluton is late Triassic and has an age of ~210Ma based on U-Pb dating of zircon (M.L.Bevier, unpub. data). Mount Raven is undated but older than the Seraphim Mountain intrusion which is dated at 213+/-4 Ma by K-Ar on hornblende (R.G. Anderson in Hunt and Roddick, 1991). The Mount Raven pluton is brecciated by the Seraphim Mountain pluton. Field relationships also indicate that the Zippa Mountain pluton is older than the Mount Raven pluton, making it the oldest intrusion recognize in



Geology of the Zippa Mountain Pluton
and Wollastonite Skarns



LEGEND














-  SERAPHIM PLUTON: equigranular biotite-hornblende granite
-  MT. RAVEN PLUTON: equigranular or hornblende feldspar porphyritic diorite; local gabbro
-  Felsic syenite: equigranular syenite with little or no mafic minerals
-  ZIPPA MTN. K-FELDSPAR SYENITE: layered and trachytic syenite and vishnevite-concinnite pegmatite
-  ZIPPA MTN. MELA-SYENITE: syenite with >40% mafic minerals: pyroxene, melanite and biotite
-  ZIPPA MTN. PYROXENITE: equigranular to porphyritic aegirine-augite pyroxenite
-  STUHINI GROUP: layered tuffaceous volcanic rocks and pyroxene porphyritic flows
-  Limestone, calcilicite rocks, shales, thinly laminated calcilicite and recrystallized limestone with interbedded calcareous shale
-  Chert, shales, graphitic shale with interbedded massive chert
-  Schist, phyllite derived from CPs; mica schist at margin of Seraphim pluton
-  WOLLASTONITE DEPOSIT
-  Fault
-  Geological contact: defined, approx.

Figure 4

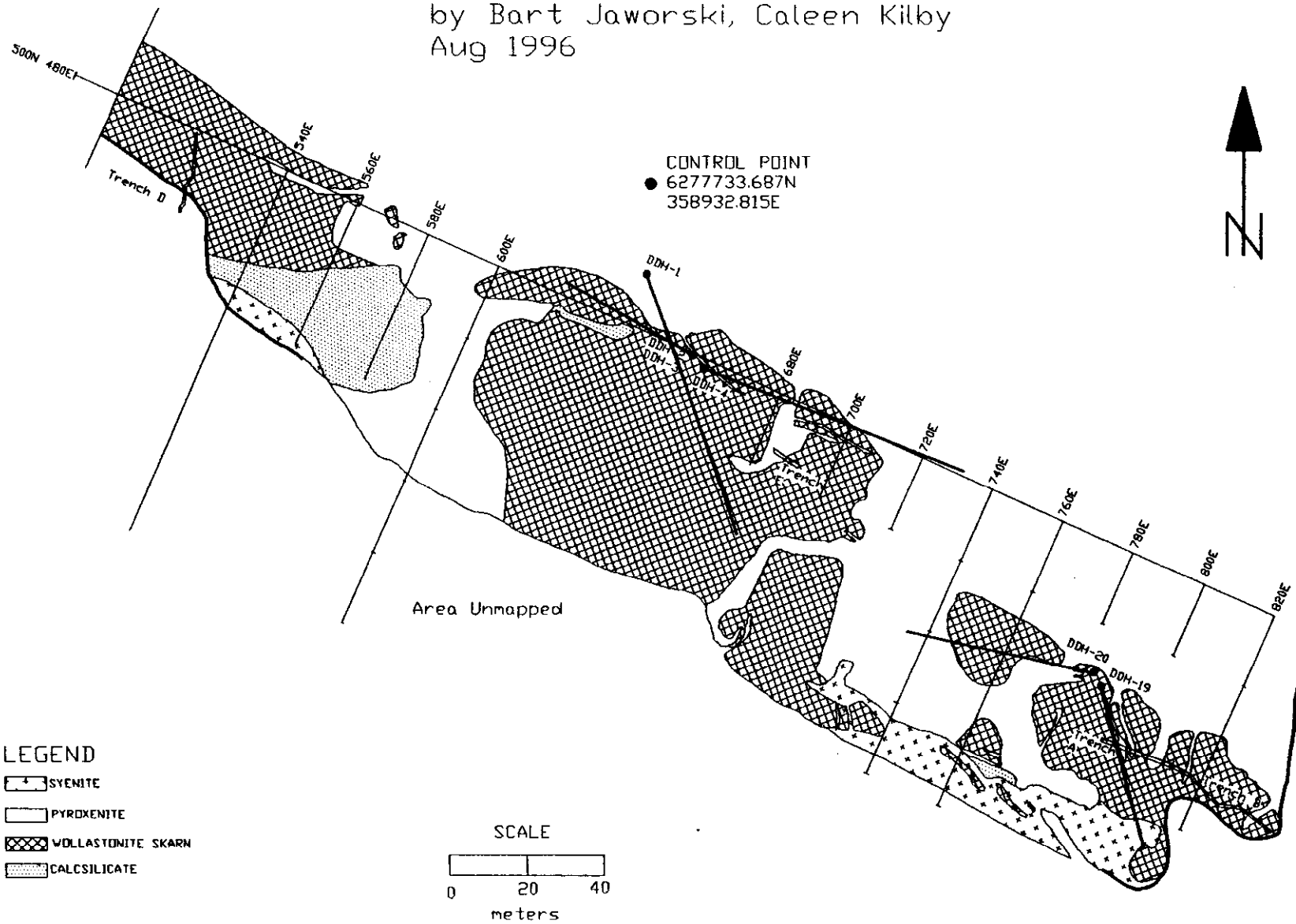
the igneous complex. These plutons intrude complexly deformed and metamorphosed Paleozoic limestone and calcareous siltstone of the Stikine Terrane. Regional metamorphic grade in the vicinity of the Zippa Mountain pluton is lower greenschist.

LOCAL GEOLOGY





To date, five main wollastonite zones have been discovered on the property (see Figure 4). These are the Cliff, Glacier, Bartnick, BryS, and Bril. The Cliff, Glacier, BryS, and Bril occur as large xenoliths or series of xenoliths within the pyroxenite border phase of the Zippa Mountain pluton. The Bartnick deposit is unique in that it appears to occur peripheral to the pluton and, unlike the other wollastonite zones, is interlayered with chert and marble layers.

The Bril deposit occurs as a series of large wollastonite-rich xenoliths up to 100 metres long and 50-100 meters wide lying along a trend of approximately 130° east of north (see Figure 5). The wollastonite-rich xenoliths at the Upper Bril are surrounded by pyroxenite on the all sides except the south-east side where syenite is the dominant phase. The Bril deposit is offset by an inferred fault, trending approximately 25° east of north, located on the west side of the deposit which divides the Bril zone into the upper Bril deposit and the lower Bril deposit. The following is a description of the lithologies present at the Bril deposit.

BRIL WOLLASTONITE DEPOSIT
by Bart Jaworski, Caleen Kilby
Aug 1996



LEGEND

-  SYENITE
-  PYROXENITE
-  WOLLASTONITE SKARN
-  CALCISILICATE

SCALE
0 20 40
meters

IGNEOUS ROCKS

Pyroxenite

Pyroxenite is a dark green rock which occurs surrounding wollastonite and calcsilicate-bearing xenoliths and forms the border phase of the Zippa Mountain pluton. It comprises fine-grained, acicular, pale green aegirine-augite (90%) and apatite (10%), subordinate biotite and trace titanite and melanite. On the north-east end of the upper Bril deposit, pyroxenite contains substantial amounts of magnetite.

Syenite

Syenite is a light to medium grey rock which occurs only at the south-eastern part of the upper Bril deposit. It varies in grain size and texture and is distinguished by abundant grey, strongly zoned, prismatic K-feldspar crystals. K-feldspar comprises up to 75% of the rock and subordinate pyroxene, melanite, and biotite make up the remainder. Accessory phases include apatite and titanite.

SKARN AND METASEDIMENTS

Wollastonite skarn

Wollastonite occurs as white to light green, needle-like crystals which vary in grain size from less than one millimeter long up to 5cm long. The crystals are commonly coarse grained and usually exhibit a massive texture. Wollastonite commonly occurs with up to 25% andradite and melanite (Ti-bearing andradite) garnet, up to 15% pyroxenite, and minor amounts of feldspar, titanite, and apatite. Locally, trace amounts of pyrite occurs

in the wollastonite along fractures and microveinlets. The wollastonite is locally crosscut by millimeter wide late-stage quartz and calcite veins.

Calcsilicate

Calcsilicate occurs as a xenolith surrounded by pyroxenite on the eastern region of the upper Bril deposit. The calcsilicate is light green and fine grained and consists of $\geq 50\%$ diopside with minor amounts of light brown garnet (andradite and/or grossular) and locally minor amounts of melanite.

Garnetite

Garnetite occurs only in one locality at the upper Bril deposit located on the far east side of the Bril zone. Garnetite is a light brown to dark brown rock consisting of $\geq 50\%$ garnet of andradite, melanite, or grossular composition and minor amounts of wollastonite and pyroxene. The garnet is massive in texture with wollastonite and pyroxene occurring in interstices.

Marble

Light grey to blue-green, equigranular marble occurs within the upper Bril deposit as 1-2 meter pods scattered locally throughout the Bril area. It consists of approximately 98% recrystallized calcite and about 2% pyroxene.

WORK DONE

Mapping

The Cliff and the Glacier deposits were geologically mapped on a scale of 1:200 during the 1995 field season, as part of a bachelors thesis by Bart Jaworski at the University of

British Columbia. During the 1996 field season, the upper Bril deposit was geologically mapped in detail on a scale of 1:500 by Bart Jaworski and Caleen Kilby. The mapping was done along an area of >300m × >80m. The detailed geological map of the Bril is shown in Figure 5.

Precursor to the mapping, baselines, consisting of wooden and metal stakes inserted at 20m intervals, were laid down at the Cliff, Bartnick, and Bril wollastonite zones. In total, ~1740m of baseline were put in : 320m at the Cliff, 420m at the Bartnick, and ~1000m at the Bril.

Diamond Drilling

The diamond drill program consisted of 22 diamond drill holes together totaling approximately 6,500 feet of drilling. Six diamond drill holes (DDH-1,2,3,4,19,and 20) totaling 1890 ft were drilled at the Bril deposit (see Figure 5), nine holes (DDH-5,6,7,13,14,15,16,17,18) totaling 2460 ft were drilled at the Bartnick deposit (see Figure 6), and five holes (DDH-8,9,10,11,12) totaling 1790 ft were drilled at the Cliff deposit (see Figure 7). Diamond drill hole DDH-21 was drilled in the south-eastern region of the Zippa Mountain pluton and diamond drill hole DDH-22 was drilled in the south-western region of the Zippa Mountain pluton. The locations of each of these drill holes on a regional scale is shown in Figure 2. A summary table of diamond drill hole information is shown below in Table 1.

Table 1. Summary table of diamond drill hole information.

DDH #	Location	Azimuth	Dip	Depth of hole (ft)	Date started (1996)
1	Bril, Pad 1	160	60	460	July 7
2	Bril, Pad 2	300	60	250	July 9
3	Bril, Pad 2	000	90	350	n/a
4	Bril, Pad 2	110	54	400	n/a
5	Bartnick, Pad 1	030	60	170	n/a
6	Bartnick, Pad 1	060	55	280	n/a
7	Bartnick, Pad 1	080	45	400	July 14
8	Cliff, Pad 1	305	60	450	July 15
9	Cliff, Pad 1	264	55	600	July 16
10	Cliff, Pad 1	305	44	180	July 17
11	Cliff, Pad 2	010	50	390	July 17
12	Cliff, Pad 2	236	55	170	July 21
13	Bartnick, Pad 2	181	45	80	July 22
14	Bartnick, Pad 2	139	59	398	July 23
15	Bartnick, Pad 2	069	60	227	July 25
16	Bartnick, Pad 3	142	45	130	July 28
17	Bartnick, Pad 3	202	45	410	July 29
18	Bartnick, Pad 3	142	50	365	July 30
19	Bril, Pad 3	165	45	200	Aug 1
20	Bril, Pad 3	283	45	230	Aug 2
21	Zippa (SE)	n/a	n/a	n/a	Aug 3
22	Zippa (SW)	n/a	n/a	n/a	Aug 5

(n/a = not available)

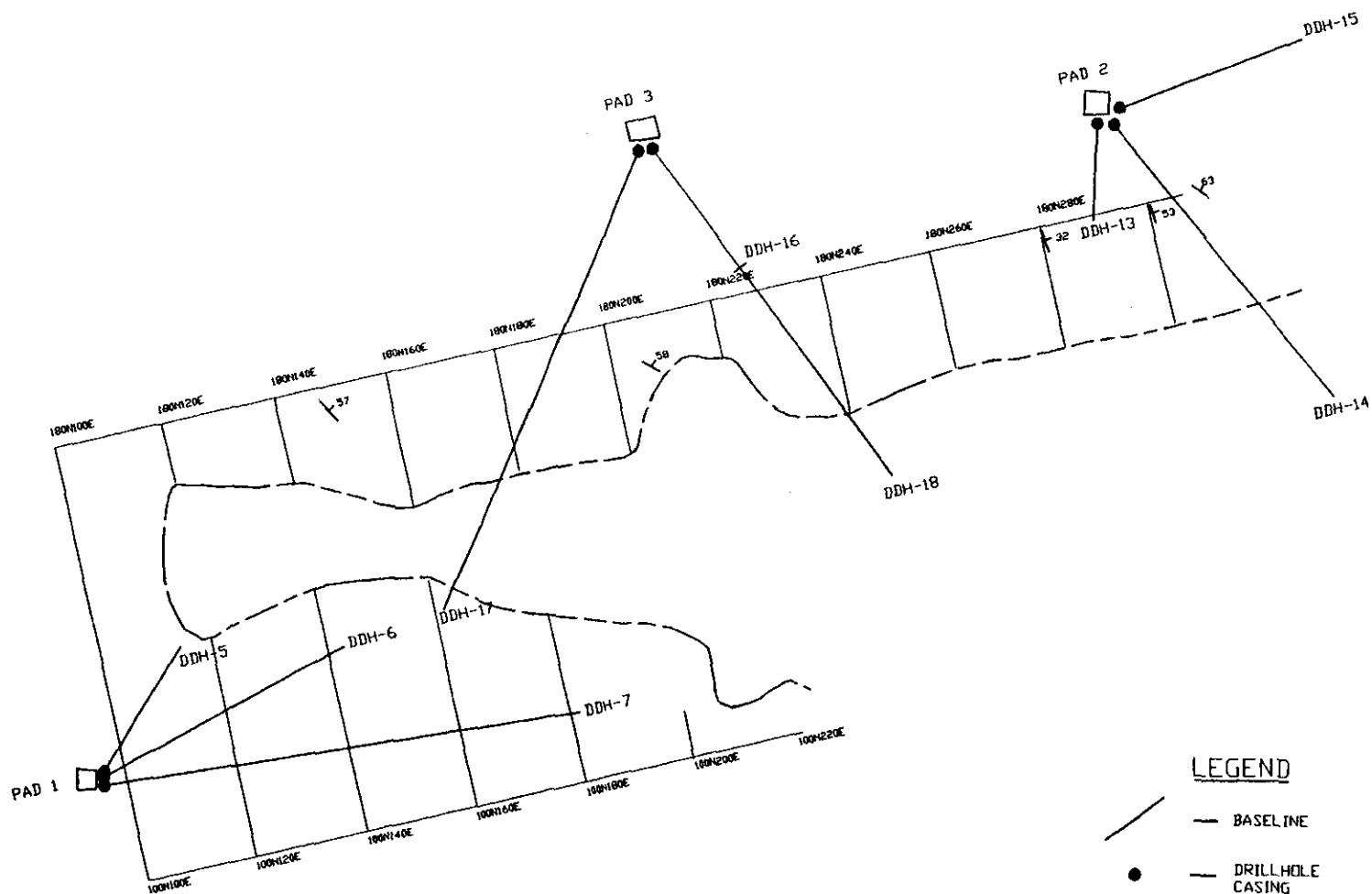
Core was photographed and logged by Bart Jaworski and Caleen Kilby. Core logging was done in order to determine (a) the amount of core loss, (b) the amount of wollastonite present, (c) the presence of sulphides, (d) the quantity of veins and dykes present, and (e) the texture of the ore. After logging, the core was split and every two meters a sample was taken of one half of the core. Core logs of the Brill drill holes are shown in Appendix A. The Brill core was sent off for XRF analysis (Appendix B). The XRF analysis was then converted into wollastonite percentages using a matrix conversion method designed at U.B.C. The wollastonite percentages of the samples analyzed are shown in Appendix C. The Bartnick and Cliff drill hole logs are shown in Appendix D.

Trenching

A two man blasting crew was hired in order to (a) blast out trenches needed for sampling and mapping, and (b) blast out drill pads needed for the drillers. This crew was in camp from July 1 to August 21, 1996. Drill pad blasting consisted of leveling eleven drill pads: three at the Brill, two at the Cliff, four at the Bartnick and two on Zippa Mountain.

The trenching program, consisting of seven trenches totaling 140 meters of trenching, was conducted primarily on the Brill deposit. Five trenches (distinguished 'A', 'B', 'C', 'D', and 'E') at the upper Brill and one trench at the lower Brill were blasted totaling approximately 130 metres of trenching. Trenches A, B, D, and E are shown in Figure 5 and trench C is located 50m east of the Brill map. Trenches A-E were sampled at 1-2

BARTNICK
 WOLLASTONITE
 SHOWING
 by Bart Jaworski
 Aug 1996



CONTROL
 POINT
 ●
 6277728.651N
 356260.652E

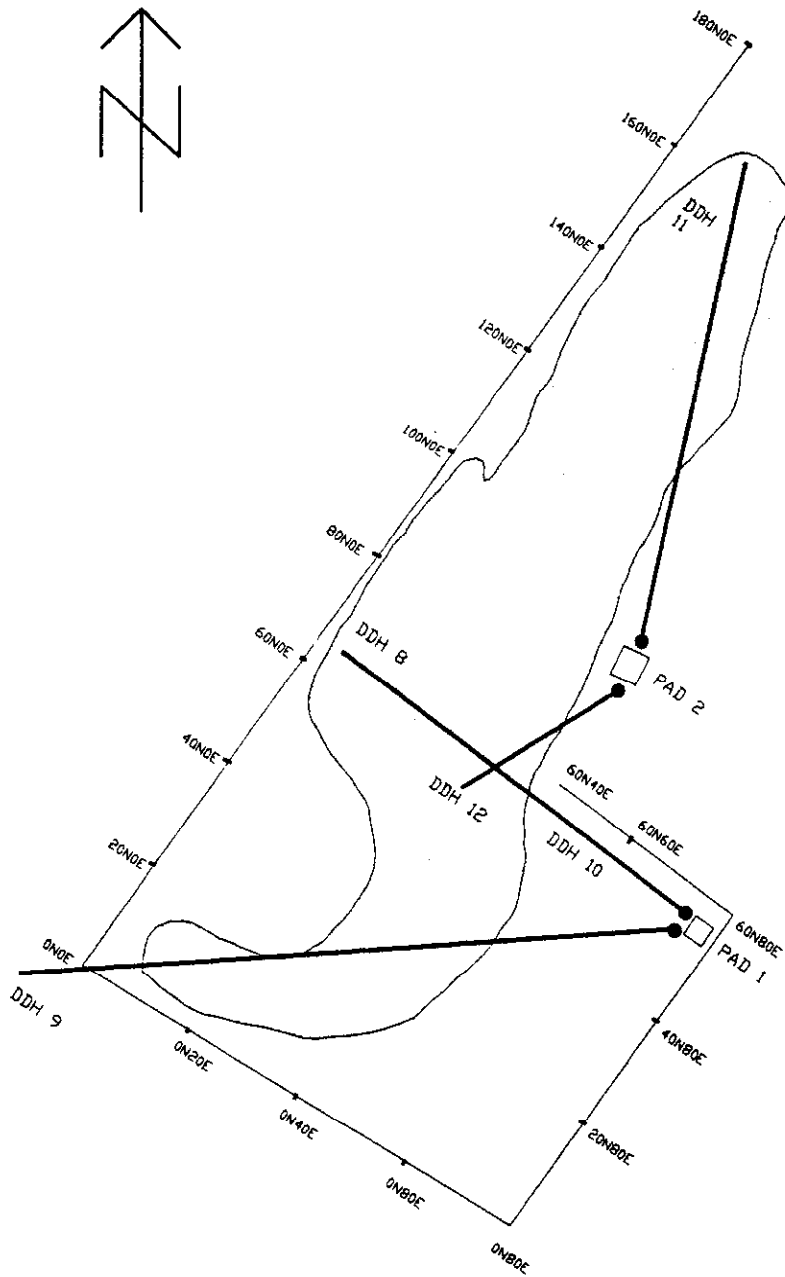
SCALE
 0 — 20
 (metres)

LEGEND

- BASELINE
- DRILLHOLE CASING
- EDGE OF GULLY
- DRILL PAD
- FOLIATION

CLIFF WOLLASTONITE SHOWING

by Bart Jaworski
Aug 1996



LEGEND

- — DRILL CASING
- BASELINE
- WOLLASTONITE EXPOSURE

SCALE
0 20
(meters)

Control Point

●
6281005.620N
359347.119E
(NAD83)

metre intervals, however were analysed. A summary table of information from trenches A-E are shown below in Table 2.

Table 2. Summary table of trenches at Bril.

TRENCH	LENGTH	LOCATION	AVE % WOLL
A	20 m	27m towards 214° from 480N 800E	80 %
B	35 m	10m towards 270° from 460N 820E	60 %
C	40 m	50m towards 116° from end of Trench B	40 %
D	23 m	5m towards 287° from 500N 520E	75 %
E	8.5 m	13m towards 176° from 500N 680E	40%

In addition to the trenches at the Bril, one other trench was made approximately 1000 metres north of the Cliff deposit, near the BryS zone. This trench is approximately 10 metres long and was sampled at 2 metre intervals, however, it was not mapped.

Prospecting

During the 1996 field season, a number of new wollastonite showing were found at the Isk Claims. These are listed below:

(1) The Slimjaw showing: Approximately 600 metres north-north east of the Bartnick deposit and approximately 150 metres down from the Bartnick (near bottom of west side of Dyck Creek valley), is a 100m × 50m wollastonite showing tentatively called the 'Slimjaw' showing. A few grab samples taken from the showing suggest that the quality and purity of the wollastonite is very similar to that of the Bril deposit.

Traversing to the showing is made difficult by the steep slope of the Slimjaw and the presence of large amounts of dense vegetation (alder and devil's club) in the area.

(2) The western extension of the Bril: Approximately 75 metres west of the upper Bril, is a 100m × 10m showing of wollastonite tentatively called '**the western extension**'. This layer-shaped showing appears to be aligned parallel to the general trend of the upper Bril, therefore, suggesting that the upper Bril may extend at least another 175 metres to the west.

(3) The eastern extension of the Bril: A number of 1-10 metre wide patches of wollastonite outcrop over an area extending up to approximately 200 metres east of the upper Bril deposit and are collectively tentatively called '**the eastern extension**'. These wollastonite patches outcrop in an area with considerable overburden. The presence of these outcrops, however, suggest that the upper Bril may extend for at least another 200 metres towards the east.

DISCUSSION

The exposed portions of the Bril orebody represent an estimated 4 million tonnes of wollastonite ore assuming the depth of the wollastonite is 100m, as indicated from initial drilling. The grade of this ore appears to be greater than 70% wollastonite. Mining this amount of ore at 25,000 tonnes per annum represents 160 years of mining. Therefore, only 250,000 tonnes of wollastonite ore needs to be proven in order to assure a mine-life of ten years. The total tonnage estimated for the Bril deposit is approximately 10 million tonnes.

The estimated resource for the entire Isk Wollastonite property is 40M tonnes. This figure takes into account estimated tonnages at all of the wollastonite exposures found to date. However, the potential of the property is even greater considering the fact that where ever there is exposure at the contact of the pluton with the country rocks, wollastonite is observed and that wollastonite which is not exposed could wrap around the entire perimeter of the pluton.

The Isk wollastonite property could also be host to a significant feldspar resource. The Zippa Mountain pluton, consists of a core of syenite which contains >90% potassium feldspar with minor amounts of pyroxene, apatite, biotite, and titanite. The chemical purity of this potential resource has not yet been assessed, however, it is anticipated that the feldspar will be tested next field season.

1996 EXPENDITURES

WORK	DATE	RATE	AMOUNT
Project Engineer	July 1 - Aug 30	63 days @ \$1000/day	63,000
Camp Manager	June 28 - Aug 28	61 days @ \$175/day	10,675
SUB-TOTAL			73,675
Geologist, P.Geo	July 1 - Aug 25	56 days @ \$400/day	22,400
Geologist, G.I.T.	June 28 - Aug 27	60 days @ \$133/mo	8,000
Geologist, P.Geo, P.Eng	Aug 17 - Aug 30	13 days @ \$615/day	7995
3 Assistants	July 1 - Aug 25	56 days @ \$100/day	16,800
SUB-TOTAL			55,195
Blaster	July 1 - Aug 20	50 days @ \$400/day	20,000
Blaster's assistant	July 1 - Aug 20	50 days @ \$200/day	10,000
Explosives, fuel, equipment			9,915

SUB-TOTAL			39,915
2 Drillers	July 6 - Aug 10	30 days @ \$600/day each	36,000
2 Driller's assistants	July 6 - Aug 10	30 days @ \$400/day each	24,000
Drill equipment: drill bits, drill rods, fuel, engine parts			125,100
SUB-TOTAL			185,000
Head Surveyors	July 16 - Aug 30	45 hrs @ \$300/day	13,500
Surveyor	July 16 - Aug 30	45 hrs @ \$250/day	11,250
1 Surveyor's assistant	July 16 - Aug 30	45 hrs @ \$100/day	4,500
3 Trimble GPS receivers		6 days @ \$450/day	2700
3 Trimble LS GPS receivers		3 days @ \$300/day	900
SUB-TOTAL			32,850
Cook	June 30 - Aug 28	55 days @ \$250/day	13,750
Cook's assistant	June 30 - Aug 28	55 days @ \$110/day	6,050
Camp carpenter	June 28 - Aug 16	49 days @ \$260/day	12,750
SUB-TOTAL			32,550
Helicopter	July 1 - Aug 28	121 hrs @ \$750/hr	90,750
Air transportation	June 28 - Aug 30	20 flights @ \$1651/flight	33,025
Expediter	June 15 - Aug 30	75 days @ \$480/day	36,000
Camp rental	July 1 - Aug 30	2 months @ \$5,000/mo	10,000
SUB-TOTAL			170,500
GRAND TOTAL			CDN \$589,685

Statement of Qualifications:

I, Brian A. Lueck, of the City of Coquitlam, British Columbia, do hereby certify that:

1. I am a graduate of the University of British Columbia and possess a B. Sc. (honours) in Geology.
2. I have been employed as a consulting geologist or a government geologist since June of 1985.
3. I am currently enrolled in a M. Sc. program in geology at U. B. C.
4. I am a member in good standing of *The Association of Professional Engineers and Geoscientists of the Province of British Columbia*, and am currently registered as a *P. Geo.*
5. I have been present on the property and have reviewed the data and inspected the field work and I believe this report to be an accurate reflection of the work performed on the property during 1996.



Brian A. Lueck

P. Geo.
Geologist

Appendix A - Bril Corelogs

Lithology

Symbol	Lithology
P	pyroxenite
S	syenite
V	hydrothermal vein
W	wollastonite skarn (>10% wo content)
X	pyroxene and melanite garnet skarn (<10% wo content)
C	calcsilicate
G	garnetite
T	metasediment (calcareous siltstone and/or marble)

Mineralogy

Symbol	Mineral
wo	wollastonite
gt	garnet
px	pyroxene
ti	titanite
fd	feldspar
bt	biotite
ap	apatite
qz	quartz
cc	calcite
rh	rhodochrosite
ep	epidote
py	pyrite
si	siderite
mt	magnetite

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
BRIL- 96-01																		
0	11.28		P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	overburden - cased; Pyroxenite broken talus
11.28	12.2	89																
11.28	11.51		P	0	0	0	0	0	0	0	0	0	py	0	0	0	ap	P w/ fractures: 4mm py; hematite -diss.. py/ foliation/ fabric~45°; finely XLine -interstitial soft white min.-apatite?
11.51	11.57		S	0	0	0	ti	0	0	0	fd	0	0	0	0	0	0	S dyke w/ XL rhombs of ti & zones of P <3mm; irregular fractures w/ white min-also fd?
11.57	11.61		P	0	0	0	0	0	0	0	0	0	py	0	0	0	0	P w/ diss. py & chalcopy. <1%/ wisps-fabric; fractures w/ py/ as above
11.61	11.74		S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S dyke
11.74	11.86		P	0	0	0	0	0	0	0	0	0	py	0	0	0	0	P diss. py as above; contact w/ S (below)
11.86	12.2		S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S (diss. py near contact w/ P only); numerous fractures-hairline w/ hematite
12.2	15.24	99																
12.2	12.35		S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S-as above
12.35	13.15		P	0	0	px	ti	0	0	0	0	0	py	0	0	0	0	P-as above; finer grained towards bottom; (inclusions of S; ti XLs near top few cm w/ py+minor chalcopy.); Foliation; XL alignment py-v. fine grained-2 tones of dk. green intermixed;
13.15	14.15		P	0	0	px	0	ep	0	0	0	bt	py	0	0	0	0	xenolith(s) S w/ dk mineral surrounding-melanite or bt?; fracture(s) w/ ep; other fractures < mixed
14.15	14.35		P	0	0	0	ti	0	0	0	0	0	py	0	0	0	ap	mel-P: ~70% P; ~30% mel, etc; mel gt+interstitial ap, XLs of ti; fractures up to 3mm thick w/ K-spar; rare py+hematite-diss..
14.35	15.24		W	<50	0	px	0	0	0	0	0	0	0	0	0	0	0	px-wo; at top-contact is gradational; wisps of v. fine grained mel; wo <1mm fine XLs; Mel XLs<2mm in lense+ massive w/ px (wo<50%)
15.24	27.44	94																
15.24	16.11		W	>90	0	px	0	0	0	0	fd	0	0	0	0	0	0	px-wo; XLs wo upto >1cm; irregular orientation fracs. w/ k-spar-grey-clear @ 15.74m dyke-mel-px(minor wo)~20cm wide
16.11	16.59		P	0	gt	0	0	0	0	0	fd	0	0	0	0	0	0	Mela-px: contains grossular garnetite; w/ k-spar dyke ~2cm down-irreg. contact

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
16.59	21.34		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	px wo w/ linears lenses mel gt; upper 23 cm w/ dyking from above; fracturing irregular w/ soft white powder-granular cc @ 17.31-17.55m; px/mel dyking @ 17.59-17.67m w/ rh; wo finely Xline <1mm
																		fractures w/ cc diss. along linears grossular gts; v. rare py; occasional K-spar in veins + infilling
21.34	23.39		W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	px wo; linears of px in wo matrix; some 1 cm wide dykes mel-px; % mel diss. along linears-inc towards bottom of unit; some garnetite
23.39	24.39		P	0	0	px	0	0	0	0	0	0	0	0	0	0	0	P; one 6cm wide mel-rich zone lense
24.39	24.77		P	0	gt	px	0	0	0	0	fd	0	0	0	0	0	0	cont w/ mel-gt~25%; xenolith <2cm k-spar
24.77	27.48		W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	px-wo w/mel diss along linears-often assoc. w/ px-rich bands; similar linears w/ diss garnetite; wo v. fine Xline; ~9cm p dyke w/ mel @ 26.36m
27.48	30.49	93																
27.48	28.76		W	70	0	px	0	0	0	0	0	0	0	0	0	0	0	px-wo w/ mel diss; some mel-massive-in irreglar fractures
28.76	30.49		X	10	gt	px	0	0	0	0	fd	0	0	0	0	0	0	mel+px; k-spar in fracture? @30.48m; both margins coarser mel w/ interstitial wo; more finely Xline w/ little wo in central 80cm
30.49	33.54	91																
30.49	30.63		X	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	mel+px-as above; gradational contact
30.63	33.54		W	60	gt	px	0	0	0	0	0	0	0	0	0	0	0	wo+px+mel; propor'ns vary; mel diss to <25% to patches consisting of >50% of core; fract.~1/2cm wide @32.59m w/ wo; fract. 1mm~@31.15m w/ px+wo; void ~5cm wide at 31.61m in wo+mel; wo XL size ranges 1mm-3mm; wo % ranges from sm. areas ~ 80%(few cm)-<10%
33.54	36.59	84																
33.54	35.91		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	wo+px; gt(core-mel-sometimes rims-gr) diss XLs from 33.53-34.14m;dimen.:<1mm-1cm XL group.;wo XL size v.fine-usual. ~1mm;occas. 2-3mm;faint linear-for foliat'n;gt-from 34.14-35.72m all mel;gt-diss in irreg. linears of XLs;no
																		consistent linear-foliation;mel is also occasionally small clusters of XLs in irregular patches

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
35.91	36.83	90																
35.91	36.83		W	50	gt	0	0	0	0	0	0	0	0	0	0	0	0	sec'n dominated by mel gt & contains minor wo in interstices-1mm-13mm wide drk brn-lgt brn mel gt; grains contain minor patches of mel gt(ie. look resorbed by wo+/- px?) & are surrounded by lt green[#22] wo(v. fine grained);lt grey qtz vein <1mm-4mm wide
36.83	38.41		W	85	gt	0	0	0	cc	0	0	0	0	0	0	0	0	wo is interlayered w/ gt layers & gt grains dispersed thro't sec'n drk brn mel gt layers(3-10mm wide) consist of irreg. pat. of mel-gt scattered along a plane 10% of sec'n consists of subrounded lt brn-med brn[#105] gross gt dispersed thro't sec'n;
																		med. brn [#105] gt layer 2.5 cm wide from 38.39m-38.41m; pink carbonate[#113](rh?)vein @ 37.07m, 8mm wide with a 2-5mm wide lt grn cc envelope
38.41	38.84	100	V	45	0	0	0	0	0	qz	0	0	0	0	0	0	0	lt red brn gr gt+med green wo +pat. of mel gt; gr gt layers(5-6cm wide) w/ irreg. boundary def. by pat. of gr gt(1@38.5m, the other @38.70m); white[#8] hard, acicular mat![wo?];vein 5mm wide(acicules up to 7mm long & <<1mm wide);qtz veinlets 1mm wide
38.84	39.48	99	W	70	gt	px	0	0	0	0	fd	0	0	0	0	0	0	lt grn wo[#23] contain' px lys & mel gt lys; 38.85-38.88m contains zone of fine grains of mel gt & wo; 38.97 centre of k-spar in vein 2cm wide(lt & drk grey feldspars in vein);mel gt grains 1*3mm inside vein as well as lt brn grains 1-3mm wide(gr?)
																		39.03-39.08m a 5cm wide layer of px (med grn- patches of #17 & #12) with ~15% 1mm wide dark brn mel gt; 39.08-39.48m wo is irregularly interlayered w/ 3-5 mm wide px layers & is interspersed w/ patches of dark brn mel gt 1-5 mm wide
39.48	39.87	85	W	15	gt	px	0	0	0	0	fd	0	0	0	0	0	0	drk brn-blk layer of <1-2mm wide grains of mel gt & px w/ minor amts of interstitial wo, layer is sharply bounded @ 39.48m and irregularly bounded @ 39.87m(layer is 42cm thick);-wo veinlets cut into this layer & are orient. variably, they're <1mm-3mm wide

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
																		are irregular, color:lt grn-white wo crosscuts layer @ 39.72m; -lt med grey feldspar vein(1cm wide) crosscuts everything(including no vein), contains bright white grains 4*10mm wide, hard(fine grained wo?)
39.87	41.16	95	W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo[#23] w/ interspersed mel gt grains<1mm-5mm wide, wo contains px stringers(irregular) <1mm wide; -a drk brn irregular mel gt layer 1.5cm wide consisting of mel gt grains 1-3mm wide with interstitial wo grains, depth:40.70m; - @41.00m a drk green
																		blob 7.5cm wide, contains fine grained px & mel gt & is rimmed by a 1-3 mm wide layer of mel gt only on side nearer to of hole
41.16	41.38	100	W	90	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt green-white wo w/ dispersed grains & stringers of lt red-brn gross gt (<10%) stringers are irregular & discontinuous & are 1-5 mm wide; -faint wispy lt green layering (px layers) throughout section
41.38	44.36	90	W	95	gt	px	0	0	0	0	fd	0	0	0	0	0	0	lt green wo [#23] relatively free of any dispersed grains of gt or px; containing minor layering as described below:-3 mel gt layers 8mm wide consisting of << 1mm wide grains of mel gt & wo; veins are not solid mel gt, they're diffuse and have moderately
																		irregular boundaries; -@38.99m a 5.5 cm wide irregular blob containing lt brn-med brn mel gt & med green px, blob is rimmed by darker mel gt, 1-3 mm wide veinlets of wo at varying orientations cut through blob; -39.63m and irregular blob 5cm long * 5 cm
																		wide, half of blob is dom. drk brn mel gt which grades into px; -lt grey k-spar vein @39.61m 1cm wide w/ 0-1mm wide sewage of mel gt, 2-3mm wide med-grn px layers (8 of them); -<1-1mm wide white fractures(hard-qtz?) (35 of them)
44.36	45.01	90	P	0	0	px	0	0	0	0	0	0	0	0	0	0	0	section dominated by drk grn(#12) and med grn (#17)-patched P containing minor mel gt=P dyke; -mel gt in irreg. clumps of XLs and are somewhat aligned to H.A.50; - pxite in irregular patches

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
45.01	45.12	100	W	100	0	px	0	0	0	0	0	0	0	0	rh?	0	0	xenolith of wo within P dyke; wo is v lt grey(#8) and contains lt pink[#24] relatively soft material[rh?]; coarse mel gts 2mm-6mm wide(euhedral to subhedral) make up <5% of rock; fine px grains dispersed throughout wo matrix make up <10% of rx
45.12	51.4	100	P	0	0	px	0	0	cc	0	0	0	py	0	rh	0	0	the rest of the P dyke; P consists of drk grn(#12) patches that are generally surrounded by lt grn(#17); py veins cut through P; veins <1-2mm wide, have no envelope; py also diss throughout P; no mt observed; mel gt-rich zone occurs
																		(centre @ 45.17m) 11cm wide, grains up to 5mm wide;45.44m pink irregular zone 7cm wide, relatively soft fizzes on scratched surfaces[rh]; mel gt occur dispersed from 45.13-46.02m, 46.77-47.27m, 49.48-50.31m and 50.91-51.40m; cc vein 1cm wide,
																		contains euhedral cc XLs and is vuggy[open space filling] has rusty red-brn carbonate(fizzes) envelope 11mm wide; same type of cc veins also in different orient'ns:H.A.=45 & 55 (5 of these veins all together); 50.64m cream(#25) wo pod,
																		4.5cm wide containing 1-2mm wide mel gt and px(in minor amts)
51.4	52.04	95	W	50	gt	px	0	0	0	0	0	0	0	0	0	0	0	sec'n is a messy mixture of lt grn wo, clusters of mel gt and larger pockets of px, mel gt~40% of rock and is fine grained (grains~1mm wide); irregularly shaped pod of wo 18cm long; 4cm wide px pod
52.04	52.81	100	P	5	gt	px	0	0	0	0	0	0	0	0	0	0	0	med grn sec'n dominated by px w/ minor amts of mel-gt; small pods of wo 3.5cm wide, mel-gt coarse grained from 52.63-52.81m
52.81	53.34	95	W	10	gt	px	0	0	0	0	fd	0	0	0	0	0	0	predominately lt-drk brn gt(mel) w/ minor amts(10%) px [gtite]; wo pod 6cm wide surrounded by px and round coarse mel-gts; wo veinlets cut through gtite, 2-12mm wide(4 of them); sharply bounded lt-med grey k-spar vein which cuts through wo veins
53.34	53.98	99	W	15	gt	px	0	0	0	0	0	0	0	0	0	0	0	sec'n dominated by fine-med grained(<1-3mm wide) mel-gt dispersed throughout wo+px; 2.5cm wide wo and px layers isoclinally folded

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
53.98	55.75	95	W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	wo containing lt grn and white layers; layers form complex pattern; almost no gts; only place gts occur:(54.57, 54.70, 54.94m), gts are lt-drk brn mel-gts and occur in layers 2-6 mm wide; drker grn layers(px-rich)are 2-5mm wide and exhibit irregular
																		pattern however mainly oriented at H.A.70; thin(1mm) lt grey cc veins at H.A.50[5 of them]
55.75	56.32	99	W	60	gt	px	0	0	0	0	0	0	0	0	0	0	0	sec'n consists of wo w/ ~35% fine grained mel-gt dispersed throughout w/ ~5% px(lt green fine grained); color of sec'n is drk brn to blk; 1mm lt grey qtz vein
56.32	57.93	95	W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	white-lt green wo[#23] exceptionally coarse grained[avg 1.2cm upto 3cm long] contains med green px-rich layers (15% of sec'n) 1-16mm wide; wo XLs seem to grow in random order; mel-gt(<5%) occurs within irregular 1-2cm wide drk grn px blobs, as clumps upto
																		8mm wide; drk grey, hard, 1-2mm wide vein[qtz] crosscutting wo and px (everything ie. late feature)
57.93	58.28	100	W	65	gt	px	ti	0	0	0	0	0	0	0	0	0	0	wo is finer grained and has assoc. w/ lt brn gt(mel?)(~40%) and minor amts(~5%) px; gt occurs as diss grains but also as angular chunks(3.5*2cm) of gtite[looks like a brecciated piece of gtite which is surrounded by wo]; 1/2-1cm long patches of
																		lt yellow non-metallic mineral (color#78 within groundmass of #79), XL shape:somewhat diamond shaped[ti]
58.28	58.47	100	W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	white to lt grn wo w/ 2 thin stringers of lt orange(1mm wide); lt-drk brn mel gt grains in stringers also
58.47	58.98	100	W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo which is coarse grained from 58.47-58.57m; med grn px layers(5 of them) w/ lt and drk brn gts (<1mm wide) aligned along them irregularly; 1 white fracture <1mm wide
58.98	59.17	95	W	80	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt grn to med grn wo w/ mel gt layers 1-15 mm wide containing interstitial wo

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
59.17	59.44	100	W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt grn-white wo w/ coarse red-brn garnets (avg 2mm up to 7mm wide); gt-rich layer 3cm wide w/ gts dispersed around it; drk brn layer 3-4 mm wide of med gt
59.44	59.91	95	W	95	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn (drker grn than last sec'n) wo w/ v. low amts of gt and px; 1cm wide layer of med grn px w/ drk brn mel-gt dispersed around it
59.91	59.96	100	W	20	gt	px	0	0	0	0	0	0	0	0	0	0	0	layer 5cm wide consisting of med gr px rimmed (irregularly) by drk brn mel-gt, layer disperse out to only 2cm wide and is irregular
59.96	61.37	90	W	80	gt	px	0	0	0	qz	0	0	0	0	0	0	0	lt grn to white wo interlayered w/ gt and px layers:[wo>gt>px]; 3 lt brn[#83] gross/mel gt layers 1.2-3cm wide consisting of gt XLs avg 1mm wide upto 3mm
																		drk brn[#10] mel-gt layers(3 in all) from 1mm-26mm wide; gts also appear as grains dispersed loosely around gt layers and irregularly scattered around thin lt grn (px-rich) layers; fizzy lt grn layers 1-5mm wide, composed of px+/- wo; lt grey <1mm
																		wide qtz vein; 1 layer of coarse grained wo 1-2cm wide which contain no othr minerals
61.37	61.48	100	W	40	gt	0	0	0	0	0	0	0	0	0	0	0	0	wo>grt (mel=gross); 11cm wide layer containing 40% wo and drk brn melgrt @ up-hole end of layer which grades into lt brn (gross?) grt towards down-hole; layer has irregular boundaries
61.48	61.52	100	W	98	0	0	0	0	0	0	0	0	0	0	0	0	0	5cm wide band of wo lt grn-white wo sharply and irregularly bounded on either side
61.52	61.75	99	W	99	gt	px	0	0	0	0	0	0	0	0	0	0	0	irregular layer (drk-brn color) composed predom. of wo w/ ~40% mel-gt <1-4mm wide, wo has faint greener layer suggesting more px; texture of layer varies throughout; pods of gt free wo upto 6cm wide occur within sec'n the up-hole end of sec'n
																		contains coarse grains of gt and rest of layer is finer grained
61.75	61.91	100	W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt grn layer of wo w/ <5% gt grains; long layering; layers 1mm wide and discontinuous consisting of <1mm wide grains of mel-gt

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
61.91	63.11	90	W	30	gt	px	0	0	cc	0	0	0	0	0	0	0	0	drk brn-grn sec'n consisting of mel-gt>wo>px; most of sec'n consists of mel-gt(rounded) w/ px in the interstices; pods of pure lt grn-white wo 1-7cm long; wo pods are angular and are crosscut by mel-gt veinlets; cc veins(<1mm wide)
63.11	63.44	100	W	89	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn-white wo w/ minor (10%) mel-gt and 1% px [wo>gt>px]; minor alignment of mel-gts into irregular layer~2cm wide
63.44	63.74	95	W	60	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt grn-white wo w/ drk brn mel-gt(gt grains<1mm-4mm wide); gt aligned into irregular layers 5-20mm wide; 7-8cm wide pods(irregular shaped) of lt green-white wo throughout gt layers
63.74	63.81	99	W	99	0	px	0	0	0	0	0	0	0	0	0	0	0	pure lt grn-white wo w/ 2<1mm wide px-rich layers
63.81	64.19	95	W	50	gt	px	0	0	0	0	fd	0	0	0	0	0	0	from 63.81-63.85m is sharply bounded band containing lt grey-pink k-spar, +/-px, +/- cc, +/-mel-gt(messy banded layer)[<10% wo] from 63.85-64.22m a messy banded layer consisting of lt grn-drk grn wo (color reflecting px content)
																		intermixed w/ drk brn mel-gt grains scattered irregularly along bands (1-2cm wide); qtz +/- cc vein 1-3mm wide cut through everything
64.19	64.65	95	W	95	0	px	0	0	0	0	0	0	0	0	0	0	0	lt grn-white wo w/ minor px-rich layers [wo>>px]; 2-3mm wide drk grn px-rich layers
64.65	64.71	100	W	50	gt	px	0	0	0	0	0	0	0	0	0	0	0	px>wo>gt layer (6cm wide); pods of coarse wo(upto 6mm wide) exist w/in this layer; pods are 1-4cm long
64.71	64.8	100	W	95	0	px	0	0	0	0	0	0	0	0	0	0	0	lt grn-white wo w/ minor px [wp>>px]; irregular 1-2mm wide px (drk grn) veinlets/layers within wo representing <5% of sec'n
64.8	65.08	100	W	60	gt	px	0	0	cc	0	0	0	0	0	0	0	0	lt grn-white wo, coarse grained (3-6mm wide)[wo>px>gt] w/ irregular blobs of px; blobs contain layer XLs of wo in them along w/ med grained (2mm wide) mel-gt grains, general H.A. of px-rich zone is 85 degrees; cc veins cut sec'n (3 of them)
																		~1mm wide (pure white); mel-gt grains occur only inside px-blobs

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
65.08	65.63	95	W	95	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn-white wo w/ <5% drk grn px layers and drk red brn to orange gt[wo>>px~gt];1: drk grn irregular 2-3cm wide px layer which contains trace amts mel-gt;2:lt grn wispy layers 1mm wide, irregular orientation; coarse grains of drk brn
																		[#82] grt (4mm wide) in patches 1*2 cm scattered randomly throughout sec'n; adj. to drk brn gts is lt brn gt patches [#84]-->darker grains in one half of core lighter gts in other half
65.63	65.8	95	W	25	gt	px	0	0	0	0	0	0	0	0	0	0	0	drk brn layer of mel-gts (irregularly bound) w/ ~20% px and 25% wo [gt>wo>px]; gts lt brn and drk brn (different phases)
65.8	65.96	100	W	95	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn-white wo; 3-5mm wide gt(mel-drk brn) and px layer
65.96	66.05	100	W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	med grn wo w/ px layer (wo>px>gt);1: 2cm wide patch of predom. px and almost equal amts of gt;2: white 1mm wide veins
66.05	66.74	95	W	99	0	0	0	0	cc	0	0	0	0	0	0	0	0	lt grn-white [#23] wo; v. pure; 10:<1mm wide lt grn px layers; 5: 1-3mm wide calcite veins
66.74	67.11	95	W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo interlayered w/ <1mm wide px layers; 2:px layers 6mm wide, gt occurs as 6-7 mm wide grains scattered along px(drk grn & white) layers; 1:wo vein crosscuts mel-gt and px-rich
67.11	67.32	95	P	40	gt	px	0	0	0	0	0	0	0	0	0	0	0	drk grn px-rich dyke w/ 2-6 mm wide mel-gt grains dispersed w/in it; contains rounded pods of pure lt grn-white wo, and a vein (3mm wide) of px+ mel-gt crosscuts wo pods[px+gt looks like an igneous dyke but is not as dark as P]
67.32	67.67	95	W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/ <1mm wide (med grn px stringers) (4 stringers in all); contains part of px-mel gt dyke 12 cm long and 3.5 cm wide
67.67	68.36	90	P	5	gt	px	0	0	0	0	0	0	0	0	0	0	0	drk grn dyke containing ~30% rounded grains (1-2 mm wide) of mel-gt contains small pods of wo (2-6cm wide) that are coarser grained than wo adj to dyke
68.36	68.48	95	P	50	gt	0	0	0	0	0	0	0	0	0	0	0	0	zone adj to px gt dyke containing drk red-brn mel-gt with wo interspersed within it, and contains <1% px; veinlets of wo cut into the mel-gt rich layer (1-2mm wide), varying orientation
68.48	68.58	95	P	95	0	px	0	0	0	0	0	0	0	0	0	0	0	lt grn-white wo w/ <5% px in microlayers
68.58	68.61	95	P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	drk grn layer (dyke?) w/ sharp contacts containing px and minor amts of mel-gt

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
68.61	68.8	95	W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/ ~15% px and 5% mel-gt; px occurs as 1-3 mm wide irreg. lyrs; mel-gt occurs w/in px-rich layers which are 4-5mm wide and more discorrelant (minidykes?)
68.8	69.02	90	W	40	gt	px	0	0	0	0	0	0	0	0	0	0	0	med grn px-rich layer w/ sharp irreg. contacts; contain' rounded 1-3 mm wide mel-gt XLs dispersed w/in it; wo occurs w/in it and increases in abundance towards downhole; 1:<1mm wide drk grey hard vein w/ 4mm wide; grn and rusty colored envelope (px+/- FeOx??)
69.02	69.11	100	W	80	0	0	0	0	0	0	0	0	0	0	0	0	0	lt grn-white wo w/ px and minor mel-gt; 1: irregular shaped px-rich dyklets w/ minor rounded gt (dyklets 1-15mm wide)
69.11	69.14	100	P	0	0	px	0	0	0	0	0	0	0	0	0	0	0	layer of px(dk grn) w/ rim (1-2mm wide) of dark brn mel-gt; (4mm wide); crosscut by wo veinlets (1-3mm wide) in various orientations
69.14	69.69	90	W	60	gt	px	0	0	0	0	0	0	0	0	0	0	0	white-lt grn wo interlayered w/ pred. mel-gt (red-brn) ~30% and minor px(lt grn) ~10%; main orientation H.A. 40.
69.69	70.44	85	P	15	gt	px	0	0	0	0	0	0	0	0	0	0	0	drk grn px dyke containing 1-2 mm wide mel-gt grains w/in it; wo pods 3-5cm wide irregularly shaped px>mel-gt; px appears to be in interstices of gt
70.44	71.37	90	W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	70% wo w/ ~20% mel-gt and ~10% px; px and mel-gt occur together and are nearly aligned to (60°); layering is locally folded and exhibits complex pattern; @71.36 red-brn (gross/mel?) gt layer 2-3 cm wide; faint wispy light grn layers occur throughout // to H.A. 60°
71.37	71.53	99	W	15	gt	px	0	0	0	0	0	0	0	0	0	0	0	layer rich in red-brn gross/mel? gt and minor px; vein of coarse grained white wo (2nd generation of wo?) 2cm wide
71.53	72.61	95	W	95	gt	0	0	0	cc	0	0	0	0	0	0	0	0	lt grn wo w/ ~5% drk brn rounded grains of mel-gt dispersed thro'out sec'n; mel-gt also aligns into layer 1cm wide; 5:<1-1mm wide drk grn hard veins w/ 0-5mm wide lt grn envelopes containing cc; these veins cut all rock around them.
72.61	72.85	100	W	? (15)	gt	px	0	0	0	0	0	0	0	0	0	0	0	layer(drk brn in color) containing predom. mel-gt and less amts of px; wo occurs in interstices btn grains

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
72.85	72.99	100	W	85	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/ red-brn mel-gt interspersed through't; red-brn mel-gt layer 5-10mm wide containing mel-gt grains 1mm wide
72.99	73.3	90	W	96	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/ sparsely dispersed red-brn mel-gt which occur in clumps 2-4mm wide; locally mel-gts are aligned into irregular layers 3-5mm wide; a 6.5 cm wide layer of coarse grained white wo (wo grains 4-7mm long); faint 1mm wide layers of pale grn assoc.
																		w/ mel-gt layers (grn layers are irregular)
73.3	73.55	95	W	40	gt	0	0	0	0	qz	0	0	0	0	0	0	0	red-brn layer of gross/ mel gt which is displaced 9cm right laterally by a qtz (lt grey hard) vein 2mm wide, the red-brn gt layer is 5 cm wide; 3: while wo veins 2mm wide crosscut the garnet layer and are themselves crosscut by late qtz(lt grey) vein
73.55	75.07	95	W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn-white wo interspersed sparsely w/ (1-2mm wide) mel-gts; mel-gt align linearly into layers 1-15mm wide; px occurs in 5mm wide vein that contains a 1-2 mm wide mel-gt selvage; px also forms pods(that could be part of dyke)contain' mel-gts w/in them
75.07	75.11	100	P	0	0	px	0	0	0	0	0	0	0	0	0	0	0	dusky blue grey[H31]px dyke[contains no wo w/in], has mel-gt(drk brn) w/in dyke itself (~15% of dyke) however contains a mel-gt selvage 2-4mm wide
75.11	75.54	100	W	98	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt grn-white [#23] wo [monotonous, constant color and texture throughout sec'n]; 2: drk brn layers 5-8mm wide of mel-gt
75.54	75.73	95	P	5	0	px	0	0	0	0	0	0	0	0	0	0	0	drk brn to grn dyke consisting predom. of px w/ round drk brn mel-gts evenly distributed within it; 2 had white (wo?) veinlet through the dyke
75.73	75.95	100	W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn-white wo containing white fuzzy layers (2 of them) 1 and 1.5cm wide of wo[wo>>gt>px]; 2:mel-gt rich layers 1 and 7mm wide containing px and minor wo in the interstices; 1: white, hard, vein(wo?) crosscuts wo and the px-gt
75.95	76.13	90	P	15	gt	px	0	0	0	0	0	0	0	0	0	0	0	sharply bounded drk grn px dyke w/ <1mm wide gt grains evenly distributed throughout; dyke has a 1mm wide envelope of mel-gt; dyke crosscuts pure lt grn-white wo

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
76.13	76.22	100	W	80	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/ irreg. blobs of mel-gt(drk brn) 3-6cm long contains abundant interstitial wo
76.22	76.6	100	P	?(10)	gt	px	0	0	0	0	0	0	0	0	0	0	0	drk grn dyke containing predom. px w/ ~35% mel-gt w/in it +1% cc; mel-gt blobs of wo (coarse grained) from 1.2cm wide and 1.6cm long-->wo is white contains no px/gt
76.6	76.68	100	W	65	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/ abundant (~35%); red brn[#82] gt grains (<1-4mm wide); aligned @ H.A. 60°; gts are generally evenly distributed throughout sec'n; px + gt is crosscut by white wo veinlets
76.68	76.81	100	P	5	gt	px	0	0	0	0	0	0	0	0	0	0	0	drk grn px dyke w/ mel-gt lyrs inside mel-gt layer 7-10mm wide and H.A. 65o; this dyke is crosscut and offset 5mm (left lateral displac't) by white, hard wo vein <1mm wide w/ H.A. 15o; dyke is sharply bounded by lt grn wo; TIMINGO REL:2o wo after px & gt
76.81	77.51	100	W	80	gt	px	0	0	0	0	0	0	py	0	0	0	0	lt grn- white[wo>>px>gt] w/ fuzzy grn irreg. lyrs (<1mm-1mm wide); 4 drk grn px layers 5-15mm wide contain' minor amts (10% of layer) of mgrt which occurs in nm of layer; 3 red-brn mgrt layers 4-20mm wide, mgrt contains py in trace amts; gts color in #83
77.51	78.08	100	P	15	gt	px	0	0	0	0	fd	0	0	0	0	0	0	drk grn-brn sharply bounded layer of predom. px and melgrt in patches of coarse grained white wo; px is interstitial btwn melgrt; grt is evenly distributed throughout the px and is coarser grained when adj to wo grains; grts align along H.A. 50°
																		Pods of coarse white wo 7cm wide; contain coarse melgrt upto 8mm wide; lt grey rounded grains in trace amts w/in drk grn layer=fd? (<1%)
78.08	78.44	95	W	97	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn-white wo [#23] w/ 1-2 mm wide drk grn px-rich wo layers; 2: discontinuous stringers of predom. melgrt w/ interstitial px 2-10mm wide
78.44	78.58	90	P	5	gt	px	0	0	0	0	0	0	0	0	0	0	0	layer of med grn px w/ drk brn melgrt interspersed through it evenly and along fractures w/in relatively pure px [mel after px/]; minor amts (~5%) of wo in 1-12mm long clusters of XLs irregularly interspersed through it

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
78.58	78.66	95	W	70	gt	0	0	0	0	0	fd	0	0	0	0	0	0	lt grn-white wo; pods of red-brn melgrt (2*4cm) containing 10% interspersed wo aligned // to the rest of melgrt which is aligned into irregular layers @ H.A. 40°; 5mm wide lt grn fd vein, contains 5-12mm long XLs (v. pale orange #95) hard, gross? [one XL has a spec 1mm*1mm of melgrt in it-reminant core?]
78.66	79.05	95	W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	layer of red-brn melgrt [#82] w/ med grn px XLS 3-5mm wide evenly distributed throughout; 5mm wide white massive qtz vein; lt grn-white wo w/ clusters and discontinuous irregular layers of melgrt [red-brn #82] aligned to H.A. 60o; assoc. w/ the grt is minor (5%) px which occurs in btwn the melgrt grains; 2-3mm wide white hard vein of v. fine wo crosscuts the sec'n
79.05	79.12	100	P	5	gt	px	0	0	0	0	0	0	0	0	0	0	0	layer of px adj to wo which contains ~25% drk melgrt and ~5% interspersed wo XLs are evenly distributed through layer; sharp boundaries of layer are not // and curve
79.12	79.27	95	W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	pure lt grn-white wo (evenly colored throughout sec'n); layer of px> melgrt +/- wo cuts through it near bottom of core @ H.A. 79°;
79.27	79.77	90	P	0	gt	px	0	0	0	qz	0	0	0	0	0	0	0	3.00m/ 3.31m=90% recovery; layer of med grn px w/ drk brn melgrt (~40%) dispersed throughout it, occas. are irregular zones 1/2-5cm long of melgrt -poor px; 4:<1-1mm wide qtz veins (lt grn) cut through sec'n; 1: lt white 1mm wide veins are crosscut by lt grey qtz veins; white and hard=(wp?)
79.77	80.28	90	W	50	gt	px	0	0	0	0	0	0	0	0	0	0	0	messy area consisting of 50% lt grn-white angular and wavy patterns of wo 5-12cm long intermixed w/ angular to rounded patches of lt grn px 1-4cm long; ~30% of sec'n consist of irregular layer of red-brn melgrt which has melgrt grains dispersed around it

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
																		in the core of this melgrt layer is a lt orange [#110] irregular vein (3-15mm wide) containing gross grt(?); throughout sec'n is dispersed grains/patterns of wo ; the wo is white; white sec'n gives a "swirly" appearance due to irregular 'flow-like' mixing and interaction of different layers
80.28	80.35	90	W	40	gt	0	0	0	0	qz	0	0	0	si	0	0	0	a 4cm wide regular zone (sharply bounded) containing 2-3mm wide lt grey qtz veins, white sheared-out looking patches of fine-grained wo, lt grn layers 3-6mm wide of cc, lt orange, hard envelopes around 1mm wide lt grey qtz veins (si?) , and 3*30mm stringers of drk brn melgrt rimmed by a lt orange layers of gross(?)
80.35	80.72	90	W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grey wo w/ predom.(20%) melgrt irregular layers w/ ~10% px is btwn mgrt grains
80.72	81.48	90	P	15	gt	px	0	0	0	0	0	0	0	si	0	0	0	irregularly bound layer of predom. px in interspersed grains of mgrt; local zones 1-6cm long of mgrt-poor px; angular to subangular patches of wo (white-white grn) w/in layer that are 1-11cm long and have 3-35mm wide rims of mgrt surrounding them ; trace
																		amts of lt orange mineral(hard) which is in contact w/ grt -->(gross?); 4: healed fractures contain cc; 2: 1-3mm wide cc veins (lt grey) w/ 1mm wide envelope of lt yellow-rusty mineral-->si
81.48	81.77	90	W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	white-lt grn wo w/ angular patches of px +/- mgrt 1/2-1cm long (looks like wo crosscuts px here); wo is coarser and whiter than the rest of wo above; ~5% mgrt which occurs as 3-4mm wide grains (9-10 grains) +/- stringers w/in sec'n; 1-2mm white, hard, fine grained wo vein which cuts across px-wo --->possible...; TIMING REL: groundmass white-coarse wo brecciated px and crosscut by white fine grained wo vein

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
81.77	82.32	90	W	50	gt	0	0	0	0	0	0	0	0	0	0	0	0	red-brn to red sec'n containing mel/gross gt(~50%), in btwn gt grains are wo grains which are evenly distributed throughout sec'n, wo is white to lt grn; 3: lt grn (<1-1mm wide) cc veins crosscut sec'n; wo occurs in interstices of grt grains 3-16mm wide
82.32	82.47	93	V	20	gt	0	0	0	0	0	fd	0	0	0	0	0	0	3.10/3.32m=93.4% recovery; 3cm wide lt grey(hard) fd vein w/ a selvage of white 2-7mm long wo XLs (selvage 3-10mm wide) and a 1mm wide en. of alt. gt (when vein in contact w/ mgrt) and drker grn when in contact w/ lt grn wo
82.47	82.64	93	W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	2:lt grn wo w/ med grn layers 2-5mm wide of px-rich wo; 4: orange and drk brn gts aligned in thin (1-3mm wide) layers; both layers described above are //
82.64	82.87	93	W	80	gt	0	0	0	0	0	0	0	0	0	0	0	0	whitish coarse grained (3-10mm long) wo; contains lt-med olive brn [#67 and #70] massive gt;**this zone appears to be an alternation envelope around the 3cm wide k-spar(+/-wo) vein mentioned above and the zone described before the k-spar vein is also an
																		alt. envelope which appears to have bleached the wo (from lt grn to white) and mgrt (from drk brn to lt brn)
82.87	83.56	93	W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo consistent in orientation and color ; 4:med brn melgrts aligned layers of variable density and from 3-12mm wide, mgrt grains from <1-5mm wide; px (<5%) occurs aligned into 1 layer // to mgrt layer; sharp contact w/ next unit (white wo unit);
																		2: 2-3mm wide white, hard veins of wo
83.56	83.77	93	W	10	gt	0	0	0	0	qz	0	0	0	si	0	0	0	white wo w/ lt brn (altered?) grt finely interspersed w/in wo; grt grains 1cm wide; in centre of sec'n is lt grey 7mm wide qtz vein w/ a 1mm wide cc/ si(rusty) envelope which cuts layering @70° (H.A.46o) layering (H.A. 45o) defined by lt brn grts
83.77	84.41	93	W	50	gt	0	0	0	0	0	0	0	0	0	0	0	0	white wo interspersed in btwn lt brn-drk brn melgrts; sec'n is dominated by these grts which define an approximate layering (H.A.45o); wo occurs in layers that are broken up and crosscut by grt layers 1/2-3cm wide

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
84.41	84.9	93	W	90	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt grn wo interspersed lightly and evenly by ~70% coarse grained 1-4mm wide; drk brn gts which loosely define layering H.A.55o; 3: <3mm drk grey cc veins
84.9	85.03	93	W	75	gt	0	0	0	0	0	0	0	0	0	0	0	0	5mm wide med grey cc vein w/ 8mm wide envelope of white altered wo, vein also displaces mgrt layers w/in surrounding wo; surrounding wo contains ~35% red-brn mgrt which occurs as 1.5cm wide layers which contain interstitial wo
85.03	85.25	93	P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	sharply bounded exceptionally well interlayered px layer; layer consists of [#17 drk grnsh grey] px w/ interlayers <1-1mm wide of drk brn melgrt, these interlayers fluctuate from low density to high-density zones w/in sec'n, all interlayers are // (H.A.40)
85.25	85.41	93	W	35	gt	px	0	0	0	0	0	0	0	0	0	0	0	gradational continuation of last described unit; consists of ~80% lt brn gt, massive w/ minor veinlets of drk grey cc (<1-1mm wide); this sequence then grades into grt which has minor amts of wo in interstices as well as 3-5mm wide med grn px layers;
																		end of sec'n marked by 1mm wide lt grey cc vein w/ an inner envelope (1mm wide) of med grn (px bearing?) cc and an outer envelope (<1mm wide) of lt brn-orange gt
85.36	88.41	94																
85.41	85.6		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	sec'n containing large (>4cm long)XLS of wo; fine grained drk brn melgrt is interspersed throughout sec'n (grt=10% of sec'n) and occurs as 2-3 mm wide veinlets that crosscut wo XLS; px-rich wo occurs locally in 1 cm wide diffuse patches
85.6	85.85		W	50	gt	0	0	0	0	0	0	0	0	si	0	0	0	sec'n consists of ~50% wo which contains abundant fine-med grained lt brn gt; gt defines layering H.A. 45°; <1-1mm wide cc veins (lt grey) in sec'n one contains 1-2mm wide lt yellow-pale grn (fizzing) envelope (si?) [two generations of cc veins?] (veins not // to each other)
85.85	86.31		W	7	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo containing interspersed drk brn mgrt (20%) fine -med grained; melgrt and lt grn wo occur in rounded patches along w/ minor amts of px (70% of sec'n); surrounding these patches is white (gt-poor)(&px-poor) wo-->forms 1-5cm wide veins

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
86.31	86.38		P	5	gt	px	0	0	cc	0	0	0	0	0	0	0	0	med grn px layer 4cm wide containing minor amts of wo and mgrt, contains 3-10mm wide selvage of predom. mgrt w/ minor wo; 4mm wide white cc vein
86.38	87.21		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo containing interspersed red-brn grt which defines layers and broad grt-rich zones; these zones are assoc. w/ drk grn wo(mar px-rich); 3: drk grn px dykes 2 and 30mm wide; contain rounded melgrt grains 2-3 mm wide in interspersed w/in it and forming discordant veinlets crosscutting it (veinlets 2-5mm wide), wo is coarse-med grained (1cm long); everything in sec'n is // (local discontinuous only)
87.21	87.4		W	85	0	0	0	0	0	0	0	0	0	0	0	0	0	vuggy wo zone, white bleached, brittle, vuggs(4*20mm) occur along cc veins; 8mm wide white wo vein crosscuts sec'n; minor orange (20%) and drk brn grt are dispersed along sec'n; minor (3%) px; 2% cc
87.4	87.47		W	50	gt	0	0	0	0	0	0	0	0	0	0	0	0	gt(gross) zone w/ aligned wo grains [grt med brn color] wo grains 2-10mm long
87.47	87.5		G	5	gt	0	0	0	0	0	0	0	0	0	0	0	0	3cm wide lt brn to orange band of gross grt (grt banded // to boundaries)
87.5	87.69		W	45	gt	0	0	0	0	0	0	0	0	0	0	0	0	sheared out drk brn melgrt w/ 5-15mm wo patches
87.69	87.74		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	5cm wide drk grn px dyke w/ exceptionally well layered melgrt (just like dyke previously described); 1cm wide selvage of mgrt
87.74	88.01		W	35	gt	0	0	0	0	0	0	0	0	0	0	0	0	grt-rich (lt brn to orange) zone w/ 1/2-2 cm long patches/layers of wo
88.01	88.21		W	90	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/ dispersed coarse grained (2-3mm wide) drk brn melgrt
88.21	88.46		W	75	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt pink friable wo zone w/ dispersed mgrts (~70%) in which align into layers; lt grey cc veins 1-7mm wide
88.41	91.46	89																
88.46	88.86		W	50	gt	px	0	0	0	0	0	0	0	0	0	0	0	core broken in 6 places; zones is vuggy and friable contains ~50% wo w/ ~20% px and 15% grt (drk and med brn grt) w/ ~5% cc which occurs in veins 1-3 mm wide; cc veins host vuggs

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
88.86	89.5		W	50	gt	px	0	0	0	0	0	0	0	0	0	0	0	wo w/ px-rich layers and dispersed melgrt (20%) XLs throughout, px-layers-H.A. 60° (px=30%); cc vein 1mm wide displaces and crosscuts everything; at down hole end of sec'n starts appearing lt pink carbonate(si) which is dispersed in btwn mgrt grains and px grains
89.5	89.97		V	5	gt	px	0	0	cc	0	0	0	0	0	0	0	0	heavily calcified zone; pink gry in color; vuggy cc vein (w/ euhedral cc rhombs) 2cm wide w/ surround' rx(all of core width)consists of microfractures & microveined px and mgrt (+/-wo?)carbonate in core shown off shooting cc veins is pink to lt yellow(si?)
89.97	90.29		W	65	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn and white wo w/ px-rich layers 1-2cm wide (HA 50) (px-15%); drk brn melgrt dispersed throughout (1-2 mm grains) and in linear clusters (5*20mm) which are aligned to HA.45
90.29	90.39		W	30	gt	0	0	0	0	0	0	0	0	0	0	0	0	sec'n dom. med brn mgrt w/ white veinlets of wo; wo also occurs in interstices wo veins 1/2-5mm wide are irregular
90.39	90.45		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	a patch wo; (white-lt grn) w/ ~15%; melgrt dispersed grains throughout; px(5%)
90.45	90.67		P	10	0	px	0	0	0	qz	0	0	0	0	0	0	0	dyke of px (70%) w/ drk brn melgrt dispersed throughout it (mgrt~15%); lt grn qtz vein 3-5mm wide (~5%); white wo stringer 3-6mm wide (~70%) (minor wo in interstices)
90.67	91.08		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/ dispersed mgrt (15%); grt-rich layers 1.5cm wide, irregular; px (~5%) occurs in interstices of mgrt grains; irregular veinlets of wo (1-3mm wide) crosscut
91.08	91.45		W	40	gt	px	0	0	0	0	0	0	0	0	0	0	0	3mm wide white wo veins crosscut; px-rich layer containing dispersed mgrt (25% which form layers (H.A. 45)
91.45	91.68	no record	W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/ interspersed mgrt (25%) and med grn px-rich layers 7mm wide (H.A. 45)
91.68	91.83		P	5	gt	px	0	0	0	qz	0	0	0	0	0	0	0	2mm wide qtz vein with minor calcite crosscuts dyke; drk grn dyke of px (80%) w/ dispersed mgrts throughout in layers (H.A. 35)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
91.83	91.92		W	50	gt	px	0	0	0	0	0	0	0	0	0	0	0	wo rich zone (irregularly bound) w/in the dyke described above and below; contains dispersed mgrt (20%0 minor px layers (105);white 2-5mm wide wo veins crosscut wo rich zone;
91.92	93.72		W	85	gt	px	0	0	0	qz	0	0	0	0	0	0	0	lt grn wo w/ dispersed (v. lightly) mgrt and containing minor wispy layers of px;5:7-17mm wide dykelets of pure px w/ minor dispersed mgrt (no wo);five 0-3mm wide mgrt veinlets; two <1mm wide calcite veins crosscut by 1mm wide qtz vein;
93.72	94.63		W	40	gt	px	0	0	0	0	0	0	0	si	0	0	0	rx type same as above but core intersects a...;2cm wide calcite vein with 7cm wide pink (si?) alteration envelope marked by the presence of lt pink to orange colored carbonate in the surrounding wo rx
94.63	94.76		G	0	gt	0	0	0	0	0	fd	0	py	0	0	0	0	drk brn-red zone consisting of grt (mel+/-gross?) w/ interspersed t grey hard (fd) grains [~10%]; minor layering (H.A.80); contains trace amts of py
94.76	94.84		V	0	gt	0	0	0	0	0	0	0	0	0	0	0	0	2cm wide calcite vein with 3mm wide mgrt envelope
94.84	94.97		W	50	gt	px	0	0	0	0	0	0	0	0	0	0	0	white wo w/ minor amts of px(20%); contains melgrt layer 2.5cm wide; sec'n has diffuse fuzzy boundaries--> alt. env. of vein previously describe(?)
94.97	95.62		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/...; 3: 1/2-3cm wide dykes containing 80% px w/ ~20% melgrt interspersed w/in it; 4mm wide white wo vein crosscuts
95.62	96.08		W	40	gt	px	0	0	0	0	0	0	0	0	0	0	0	highly broken up core (all rubble); rx type same as above but core intersects a calcite vein; whole section calcified and brittle
96.08	96.87		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/ <5% px; containing drk brn melgrt dispersed unevenly; lt brn grt form layers 2cm wide (H.A. 40)
96.87	96.95		W	40	gt	0	0	0	0	0	0	0	0	0	0	0	0	layer drk brn melgrt interspersed w/ white wo vein (3-12mm wide)
96.95	97.23		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo (mgrt-poor); one px dyke 2cm wide w/ ~40% dyke mgrt interspersed throughout; 1cm envelope of carbonate
97.23	97.5		W	60	gt	0	0	0	0	0	0	0	0	0	0	0	0	highly broken up zone, consisting of litholgy same as above but intersecting 1cm wide vuggy calcite vein with euhedral calcite rhombs
97.56	100.61	96																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
97.5	98.77		W	75	gt	px	0	0	0	0	fd	0	0	0	0	0	0	lt gm wo w/ ~10% mgrt that occurs in 1/4-1 cm wide layer; layers have interspersed wo ; wo is coarsely Xline w/ XLs up to 1cm; layers 1/2-1cm wide of px;fractures:1-2mm k-spar vein; gouge zone:soft white wo @ 107m ~1cm wide // to num. hairline fractures
98.77	99.09		P	10	gt	px	0	0	0	0	fd	0	0	0	0	0	0	px +gt; dyke @ 70° cutting core ; irregular selvages-foliation pattern of gts in dyke // to flow fracture; w/ 1-2mm kspar vein; xenoliths of wo in dyke
99.09	100.61		W	55	gt	px	ti	0	0	0	fd	0	0	si	0	0	0	wo+ gt; rx is wo w/ sig. amts of gtite(lt drk) in diss. clumps + more massive; px is less , but interspersed w/ gt +diss. wo; fractures: k-spar +si+cc; k-spar also in irregular fractures + in voids + interstitial; cream-colored XL in (k-spar +wo)-ti?;
																		occas. zones of soft?-fractured, porous wo interspersed btwn gtite; fr w/ si; XLs-rhomb; wo XLs upto 8m-generally coarsely Xline; fractures cross at rear perpendicular angles; vugging along fractures 1mm wide
100.61	103.66	96																
100.61	101.66		W	50	0	0	0	0	0	0	fd	0	0	si	0	0	0	porous nature of wo; locally continuous; wo coarsely Xline; fr w/ si; fr w/ wo; k-spar=0.8cm fr.
101.66	103.12		W	85	gt	px	0	0	0	0	fd	0	0	si	0	0	0	wo+ gt; coarsely Xline wo (upto >2cm) gtite is diss. in clumps of small crystals of few mm; px is v. fine-minor; rx is v. porous; fractures w/ k-spar<1mm wide; si and cc veins; fr assoc. w/ 11mm k-spar subsidiary px +wo;no reg. foliation;
																		locally k-spar also interstitial up to a few mm
103.12	103.66		W	85	0	px	0	0	0	0	0	0	0	si	0	0	0	wo+ px; wo is coarsely Xline up to 1cm XLs; last 12cm v. porous , less dense; fractures w/ si; fr w/ cc; some foliation-px banding; 2cm wide band of k-spar_px; gt minor only siderite fractures; wo veins;
103.66	106.71	89																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
103.66	104.49		W	85	gt	0	0	0	0	0	fd	0	0	si	0	0	0	fr w/ si; locally k-spar fills interstitial spaces of several mm w/ k-spar XLs; rx is fr w/ k-spar-1mm; some zones- supported by k-spar along hairline veins-v.vuggy+poorly cemented-crumbly XLs; coarse-cont-upto > 1cm; v. irregular narrow horizon of con.
																		gts-as in a gneiss ~2mm thick; last 17cm v. vuggy; stockwork of k-spar veins-several cubic cm of void; wo crumbling; si in fr?
104.49	104.89		W	20	gt	px	0	0	0	0	fd	0	0	0	0	0	0	gtite; dk mel; diss coarse Xline wo XLs upto 1xm; k-spar in irregular fr-1cm wide interstitial; wo diss throughout + in k-spar; px minor
104.89	105.29		W	90	gt	px	0	0	0	0	fd	0	0	0	0	0	0	wo+ gtite;wo coarsely Xline upto 1cm w/ gtite + wo; XLs; locally porous, less dense + more friable; px-minor-finely diss; fr w/ k-spar-vuggy
105.29	106.71		W	20	0	0	0	0	0	0	fd	0	0	0	rh	0	0	wo+k-spar; zone is riddled w/ vugs, k-spar stockwork; cc along some fractures k-spar frac. 8cm assoc. alt; vugs along large fractures w/ si XLs; btwn stockwork is rh, wo, px, gtite-all v. porous+becoming uncemented
106.71	106.96		W	20	0	0	0	0	0	0	fd	0	0	0	0	0	0	wo powder left-w/ k-spar stockwork + from fracture planes left
106.71	109.76	99																
106.96	108		W	85	gt	px	0	0	0	0	fd	0	0	si	0	0	0	wo; coarsely Xline -upto >2cm; minor gt-few mm +micropx, somewhatly porous at top; fr w/ k-spar; others w/ si; porous rx w/ interstitial k-spar; locally a zone of mel + px-fabric not consist-for ~8cm; k-spar fr. 5cm wide w/ vugs +si; more massive k-spar at end +porous wo
108	108.74		W	20	gt	px	0	0	0	0	fd	0	0	0	0	0	0	gtite + wo; gtite-massive 26cm from top~12cm wo +px; k-spar fracture-few mm; gtite has k-spar w/ 1-2 mm gt XLs diss in matrix; wo >=1cm coarse Xline; gtite has interstitial k-spar
108.74	109.76		W	85	0	px	0	0	0	0	0	0	0	0	0	0	0	wo+px; wo finely Xline w/ fine diss px; minor diss; gt of 1 or2 mm;fr w/ si; foliation reg. in one area; tiny fault repeats foliation at one pt; locally lt brn gtite increases
109.76	112.8	93																
109.76	110.46		W	95	0	px	0	0	0	0	0	0	0	0	0	0	0	wo+px; wo XLs upto 8cm

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
110.46	112.8		W	75	gt	px	0	0	0	0	fd	0	0	0	0	0	0	wo +grnt; first 13cm cemented w/ k-spar; wo XLs-coarse upto > 1cm; irregular foliation; gtite contact increase locally (lt + drk); px minor-v. fine; fr; w/ wo~2mm wide
112.8	115.85	95																
112.8	114.05		W	75	gt	0	0	0	0	0	fd	0	0	0	0	0	0	gtite-brn+olive grn-other alt min?; 3mm wide kspar vein
114.05	115.85		W	95	gt	px	0	0	0	0	fd	0	0	si	0	0	0	wo+ px; coarse wo XLs upto >2cm w/ minor localized areas of gtite; lt brn, mela-drk+grn alt(?) fr w/ 2-3mm ; k-spar +si; px- v. fine +minor fr. w/ k-spar; few mm + alt. of gtite--> v. lt brn or grn; lower in sec'n-wo more finely Xline
115.85	119.17	94	W	90	gt	px	0	0	0	0	fd	0	0	0	0	0	0	wo+px; as above-except % gtite inc. slightly-still only sig. locally fr. w/ k-spar 0.5cm wide w/ gtite; lt brn along both gts in irregular zones; fr. w/ k-spar@ 0.8cm wide;
118.9	121.95	95																
119.17	119.24		P	0	0	px	0	0	0	0	0	0	py	0	0	0	0	P dyke-4-5cm wide diss py + along tiny fractures in dyke
119.24	119.5		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	wo+ px; some foliation defines by 2-3mm wide px layers (6 in all); 3 layers (<1mm wide) of red-brn gross(?) grt
119.5	124.09		P	0	0	px	ti	ep	0	0	0	0	0	0	0	0	0	drk grn P w/o melgrt; contains ep (soft pastacio grn mineral) rimming white cc veinlets which the px irregularly; minor ti w/in veinlets nearing end of sec'n
124.09	124.31		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/ irregularly oriented 1-2mm wide layers of px; minor melgrt in 3-10mm wide stringers
124.31	124.57		P	0	gt	px	ti	0	0	0	fd	0	0	0	0	0	0	P dyke containing ~5% ti, ~10% k-spar, and gross grt bands on either side of dyke
124.57	124.89		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo, w/ foliation defined by 2-6mm wide px layers (2 of them) and 3 red-brn layers 2-5 mm wide containing white wo core
124.89	125.26		X	5	gt	px	0	0	0	0	0	0	0	0	0	0	0	melgrt layer w/ interstitial px; cc vein 3mm wide
125	128.05	92																
125.26	125.47		W	65	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo, well foliated; contains px-mel layers 1-3mm wide and melgrts dispersed throughout
125.47	125.54		P	0	gt	px	0	0	0	qz	0	0	0	0	0	0	0	px-rich dyke w/ melgrt stringers near core of dyke and scattered throughout dyke; qtz vein 1mm wide w/ cc selvage

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
125.54	126.49		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/ inconsistent layering (irregular foliation); layers of px 2cm wide w/ dispersed melgrt cut by white vein of wo 3mm wide; irregular layers of melgrt (red-brn color) crosscut by white wo veins
126.49	126.62		G	35	gt	0	0	0	0	0	0	0	0	0	0	0	0	layers of massive gte (red-brn color) which is crosscut by wo veins
126.62	126.66		W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	lt grn wo w/ <5% diss melgrt
126.66	126.78		X	10	gt	px	0	0	0	0	0	0	0	0	0	0	0	layer of ~60% melgrt in layers containing interstitial px cut moderately by wo veins
126.78	126.85		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	lt grn wo layer w/ 10% melgrt which occurs as 3cm long broken off fragments and in layers (H.A. 50)
126.85	127.06		X	10	gt	px	ti	0	0	0	0	0	0	0	0	0	0	sec'n containing complexly layered melgrt, px and wo with minor amounts of yellow ti; melgrt crosscut px are ti rich zones, wo crosscuts melgrt layers
127.06	128.29		W	85	0	px	ti	0	0	qz	0	0	0	0	0	0	0	poorly foliated lt grn wo containing...:1-4cm wide wo veins with px selvages; discordant pxite dykes with ti; dykes locally contain qtz cores with minor wo
128.05	131	100																
128.29	129.06		W	75	gt	px	ti	0	0	0	0	0	0	0	0	0	0	lt grn-white wo irregularly textured; 2 pxite dykes with ti and coarse mgrt; pods of pure lt grn wo (3*10?cm) w/ rims of px+ti
129.06	129.34		P	0	gt	px	ti	0	0	0	0	0	0	0	0	0	0	well layered px-rich sec'n w/ linears of melgrt throughout; interspersed w/ px is lt yellow ti(fine grained); sec'n is vuggy and contains cc; cc is lt gr-yellow (soft but harder than ep and fd)
129.34	140.25		P	0	0	px	ti	0	0	0	fd	0	0	0	0	0	0	P containing abundant py w/in stringers and diss; >30cm wide kspar vein with titanite? or vesuvianite?; pxite contains 1-4mm wide calcite veins
140.25	EOH																	EOH

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
BRIL-96-02																		
0	1.52															0	0	casing
1.52	6.1	92																
1.52	2.56		W	40	0	px	0	0	0	0	0	0	0	py	0	0	0	Px. + wo. Wo. amount varies 90%-<10%. XLs <1mm -8mm; highest ~7cm wide. Px: massive over cm areas - wisps in marbling effect. Melanite forms very irreg. veins w/wo. XLs <1mm. in pyroxene-rare pyrite. Multiple frs. <1mm w./ cc + Fe
2.56	4.63		W	60	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. + px. Wo. amt. varies due to patchy areas w./px. or gt. Wo. XLs generally ~1mm. Frs. are 1-2 mm wide w./cc + Fe - a soft brn. infilling. At least 5 surfaces/frs are seen. Growth of si on vuggy irreg. fr. Most mel. + minor gross. is marbled w./diss. + podding
4.63	5.3		W	<40	gt	px	0	0	0	0	0	0	0	0	0	0	0	Px. + gt. At 4.87-5.15m secondary silica - SiO2 in clear amorphous lenses. Fracture at 4.87m. Px in foliated layers and massive w./ melanite frs. carbonate + Fe as above. 5 fractured surfaces covered
5.3	5.5		W	60	0	px	0	0	0	0	0	0	0	0	0	0	0	Wo. - zone of wo. - mel + px. predominate either end. Wo. < 1mm XLs; faint foliation
6.1	9.15	95																
5.5	7.27		X	<10	gt	px	0	0	0	0	0	0	0	si	0	0	0	Px. + gt. Px (~60%) is massive w./ mostly irreg, masses of gtite (gross.) w./ lesser amts. of mel. Irreg. fr. surfaces w./ white cc or brn. si-as above. Section largely silicified. SiO2 infilling vein ~8mm wide. Mel. % increases last 50 cm.
7.27	9.15		W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. Px. + gt in foliated fabric almost parallel to core. Mainly dk. mel. gts. diss. in wo. along px. linears. Some secondary Si? Somewhat silicified. Wo. XLs vary 1 or more mm. Frs. w./si some infilled w./wo. cream-pink along fr. - v. soft - rh?
9.15	10.5		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. Px. + gt cont. foliated patterns. a cream-yellow min. occurs rimming mel. gts and in diss. lenses throughout wo. + px (gross?). Both gtite (gross? + mel.) present. Small fractured infilled w./mel. gt around the veins. Zoned gross, yellow-cream in centre
10.48	11.2		G	<10	gt	px	0	0	0	0	0	0	0	0	0	0	0	Gtite. Gross gtite w./ interstitial wo. + px. - v. fine XLs <10%. Fractures w./ siderite as above

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
11.21	12.2		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + gt. Both gts. + px. w./foliation; zoned gross.gts, some mel. rimmed by gross; + some gross. w./lighter min. in centre. Wo. - finely Xline 1-2mm.
12.19	15.2	87																
12.19	13.5		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + gt - as above.Gts - mainly gross 5-6mm w./ lt.green zoning in centre;mel.gts in one zone, generally 1-2mm. Px.- low %.Wo. finely Xline<1mm.One large fracture w./siderite ~4 mm wide - botryoidal. No obvious foliation
13.45	15.3		X	20	gt	px	0	0	0	0	fd	0	0	si	0	0	0	Gtite + px. Wo. is minor - in patches up to 6cm.XLs ~1mm. Gt: - brn. gross - massive w./ finely Xline wo. + px;dker. mel. massive grading to gross. down section.Interstitial k-spar infilling fractures+voids. Cream colored min. in k-spar. Frs. w./ siderite
15.24	18.3	90																
15.26	16.3		W	80	gt	px	0	0	0	0	0	fd	0	0	0	0	0	Wo. + px. Fractures; some interstitial k-spar?. Wo. XLs 1-5mm. Gts - melanite - few along foliation + occasionally massive; gross. diss.
16.34	16.5		X	<10	gt	px	0	0	0	0	0	fd	0	0	0	0	0	Px. + mel.gt - dyke. Small zone w./minor wo. Massive w./interstitial k-spar+wo.
16.53	17.8		W	75	gt	px	0	0	0	0	0	fd	0	si	0	0	0	Wo. + px. Fractures w./siderite;wo. XLs~1 mm to 1 cm. Gts: assoc. w./ gts is cream yellow-green min. - gross? At 17.16m zone of broken material, fractures on either side(some loss) - material has been leached by fluids? Yellow min. again.
17.82	18		X	<5	gt	px	0	0	0	0	0	0	0	0	0	0	0	Px. + mel. - dyke. Garnet XLs in px.
18.29	21.3	93																
18.02	20.6		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. Fracture-vein w./country rock mins. up to 1 cm wide. Faint foliation-linears w./pyrox. Both gts present in irreg. masses. Frs. include vuggy zone. 1.5cm wo. XLs. crystals coarser at depth(up to 2cm)
20.61	21		X	<15	gt	px	0	0	cc	0	fd	0	py	0	0	0	0	Gtite + px. K-spar in small interstices - few mm w./ gtite. Contains zones - few cm wide w./ large wo. XLs >1cm. Fracture w./calcite +pyrite; remobilized country rock along fr. 4 cm wide.
21.34	24.4	92																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
21.02	23.2		W	85	gt	px	0	0	0	0	fd	0	py	si	0	0	0	Wo. + px. Wo. coarse Xline. Fractures w./siderite +pyrite. Wo. up to 1 cm. K-spar interstitial 1-3 mm in matrix + in veins-fr. 2-3 mm wide. Hard creamy-orange min. assoc. w./ px. in mass.4-5 zones of px. w/ mel.gts.w/ foliation of rocks
23.17	25.6		W	90	gt	px	0	0	0	0	fd	0	0	si	0	0	0	Wo. + px. Coarsely Xline. Minor mel.gt. K-spar intrusions. Fractures; some w./siderite; some w./k-spar-2 mm; infilled up to 8 mm by k-spar w./wo. XLs.
25.57	26		X	<40	gt	px	0	0	0	0	0	0	0	0	0	0	0	Mel. gt + px. dyke cutting through core at 63deg.fracture wo. in 1 mm. some edges abrupt, others w./diss. garnet XLs into country rock.
25.99	29.7		W	93	gt	px	0	0	cc	0	fd	0	0	si	0	0	0	Wo. + px. Interstitial k-spar; cream color min. common. Zones + stringers of mel.gt. Wo. fine-coarsely Xline up to 3cm. Fractures: w./calcite 1 mm. numerous irregular hairline fractures, locally. fr. movement 1.5 cm sealed wo. Fr.w./siderite.
27.44	30.5	93																
29.67	30.5		W	<50	gt	px	0	0	cc	0	fd	0	py	0	0	0	0	Wo. + px. +/- or calc-silicate. Coarsely Xline wo. Elsewhere massive gts(mel.-dk. at top + lter. to gross). Fracture w./2mm infilling. Hairline frs. - minor cc. Cream min.-as above infilling ~4mm fractures, k-spar in fractures ~1 mm. V. finely diss. pyrite?
30.49	33.5	96																
30.49	32		W	<30	gt	px	0	0	cc	0	fd	0	0	si	0	0	0	Wo. + px. +/- or calc-silicate. As above; fracture(s) w./siderite ~1 mm. Gtite up to 80% locally(w./lesser mel.). Green? mineral(vesuvianite?) in garnetite +wo.(diopside)
31.95	32.3		W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. Irreg. fabric. Green min. again. Interstitial k-spar. Wo. coarse XLs - up to several mm. Gtite(dk. + lt.) in linears of fabric + massive locally
32.33	32.9		V	<10	gt	px	0	0	0	0	0	0	py	0	0	0	0	Px. + k-spar(syenite) dyke(s). Px. +mel. zone w./minor wo. intruded by an irreg. syenite dyke. All irreg. Gts growing in syenite(zoned hexagons). Lime-green min. common in syenite-epidote? Creamy ylw.min-apatite? Frs. w./ si. Rare pyrite

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
32.9	33.7		W	70	gt	px	0	0	0	0	0	0	0	si	0	0	0	Wo. + px. Wo. w./minor px. + minor gts; coarsely Xline - up to 1cm. Syenite from dyke above cont.(?) - 2-3cm wide in parts w./mins. from above. Some foliation fabric. Frs. w./siderite-multiple parallel to 55 deg.
33.54	36.6	92																
33.69	34		W	60	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Wo. + px. + gts, mostly mel. - 10%+ locally - diss. clusters. Fractures infilled w./k-spar~2 mm wide - irreg.. Some fabric. Wo. XLs coarse >5mm
33.95	34.7		X	15	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Gt + px. Gt diss. in wo. + px. Irreg. foliation pattern. Irreg. fracture infilled w./k-spar or wo.
34.73	36.1		X	30	gt	px	0	0	0	0	fd	0	0	si	rh	0	0	Px. + gt. Wo. coarsely Xline. K-spar in veins + small masses. Wo. pods. Soft pink min. -rh at 37.86m. Syenite 1.2cm wide at 35.00. Fr. w./ si. Fracture fill with./XLs growing into syenite or dyke? Gouge zone w./ k-spar + open vugs in veins. Gtite altered.
36.14	36.6		W	90	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Wo. + px. A k-spar vein in 1 cm from top; ~8 cm wide . Minor gts(diss.;mel.);cream-colored min. present. Wo. is coarsely Xline - >1cm long
36.58	39.6	94																
36.58	40.8		W	90	gt	px	0	0	0	0	fd	0	0	si	0	0	0	Wo. + px cont. Fr. w./green min. along hairline - siderite? Minor gtite. Fr. w./k-spar -1 mm k-spar+siderite 2-3mm. Vuggy fr. w./ siderite parallel to core axis.
39.63	42.7	92																
40.83	41.4		W	95	0	0	0	0	cc	0	0	0	0	si	0	0	0	As above. Fr.w./siderite + calcite -irreg.-2 mm
42.68	45.7	93																
41.37	42.7		W	90	0	0	0	0	0	0	fd	0	0	si	rh	0	0	Coarsely XLine. At top large fr. zone w./Xls both sides + k-spar zone each side 1.5 cm wide. Uphole side has rhodochrosite for ~1cm
42.68	45.7		W	75	gt	px	0	0	cc	0	fd	0	py	si	0	0	0	Wo. + px. + k-spar. Irreg. fracture w./ px. + gt only inc. locally. Fractures w./siderite + calcite; k-spar fractures or dyke w./ xenoliths of country rock - pyroxenite? w./ py diss. near k-spar frs. At bottom of section fracturing + vugging w./ si cover
45.73	48.8	91																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
45.73	46.5		W	50	gt	px	0	0	cc	0	fd	0	0	0	rh?	0	0	Wo. + px. Rock has zones of high px. + mel.gt locally. Cc veins up to >1cm wide. Blk. cc veins ~1mm wide. Some interstitial k-spar. Pink, soft min. -rh? adjacent to and in some fractures. Also fr. as above w./ carbonate envelope.
46.49	48.1		W	90	gt	px	0	0	cc	qz	0	0	py	0	0	0	0	Wo. + px. Diss. mel.gts - increasing in density locally. Fr. w./calcite. Vein of qtz ~1 cm wide w./black + green calcite in centre + pyrite diss.
48.09	48.5		W	40	gt	px	0	0	0	qz	0	0	0	0	0	0	0	Wo. + px. Predominantly a zone of pyroxene + diss.mel. garnet. - a zone within wo. alteration. Wo. around . Fr. w./qtz <1 mm.
48.78	51.8	85																
48.54	51.5		W	90	gt	px	0	0	cc	qz	fd	0	0	0	rh	0	0	Wo. + px. Rock has diss. garnet + hairline k-spar or qtz veins. At 0.66m from top a zone of px. +mel.gt for ~23cm. Elsewhere - px. + mel.gts diss. throughout core. Zoned gts -mel. in core.Fr. w./ cc. At bottom of section ~10cm rh + cc -porous + very soft
51.83	54.9	82																
51.45	52.1	99	M	0	0	px	0	0	cc	qz	0	0	py	0	0	0	0	Meta- calcareous siltstone(?). Faintly phyllitic meta-sed. v.calcareous. ReXLized friable w./ multiple large calcite fractures semi-parallel to core. Rock broken + some crumbled; contact w./ overlying wo. not evident in core pieces
52.13	53.6	99	M	0	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Above, meta-sed(?) grades into zone of highly calcareous - foliated rock. No phyllitic nature. Rock becomes more competent w./ numerous veins and pods of white micro-crystalline calcite. At bottom of section rock is again phyllitic.
53.56	76.2	99	P	0	0	px	0	0	0	0	0	0	py	0	0	0	0	Pxite. Micro-Xline to finely Xline massive px. Rock is v.porous. Frequent irreg. hairline fractures. Some cc w./ pyrite in fractures; diss.py -rare- in whole rock. Rock appears reXLized - individual XLs not commonly recognizable. XL size changes downhole
	EOH																	

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
BRIL-96-03																		
0	2.74															0	0	Casing
2.74	6.1	85																
2.74	4.24		W	35	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Px. + wo. Px. + mel.gt matrix w./ irreg. zones of wo. Rocks are v.porous + wo. is crumbling - losing cement. Down section px. is subsidiary to wo., in foliated strands + zones. Chalcopyrite is finely diss. + in small 1mm patches. Calcite in fractures w./XLS
																		K-spar vein at 45deg. 1 cm wide w./grey XLS up to 4 mm long w./white woll. (?) interstitial. Rock retrograding? V.calcareous at bottom of section - crumbly + orange-pink in color along hairline fractures
4.24	6.1		X	<5	gt	px	0	0	0	0	0	0	0	si	0	0	0	Px. + mel.gt. Massive px w./ irreg. zones of grouped mel.gts. Rock has many hairline fractures w./cc or k-spar. Wo. is interstitial in ares of gt. Also siderite. Chalcopyrite in 1-3mm flecks in px.
6.1	9.15	99																
6.1	7.06		W	40	gt	px	ti?	0	0	0	fd	0	py	0	0	0	0	Cont. Fr. w./k-spar+titanite(?) - v.minor. Wo. occurs interstitially between gt(mel) and in zones of <1cm width - much broken by px. + gt growth in localized masses + stringers. K-spar fr.w./py + marcasite. Py. +hematite in some locations along fractures.
7.06	7.41		W	90	gt	px	0	0	0	0	0	0	0	si	0	0	0	Wo. + px. + gt. Rock has diss. gt ~1 mm with foliation of pyrox. Fractures w./siderite, wo. XLS ~ 1 mm.
7.41	8.67		W	60	gt	px	0	0	0	0	0	0	0	si	0	0	0	Wo. + px. + gt. Melanite gt predominates at top w./ px. Wo. % increases downhole. Wo. XLS <1mm. Fr.w./siderite. Garnetite significant-locally-up to 1/2 of core width.
9.15	12.2	99																
8.67	9.21		X	<5	gt	px	0	0	0	0	fd	0	0	si	0	0	0	Mel.gt + px/ Massive mel.gt w./ interstitial wo. + massive px. in irreg. zones. Fractures have k-spar+siderite. wo. is only massive locally(few cm).
9.21	9.89		W	60	gt	px	0	0	cc	0	fd	0	0	si	0	0	0	Wo. + gt. Wo. has finely Xline px. diss. in zones + linears; both brn. + dk.gts diss. + concentrated locally. Frs.w./siderite. Some multiple fracture zone w./calcite. Interstitial k-spar locally. Wo. Xls up to 5mm

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
9.89	10.2		G	<5	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Gtite. Massive gtite w./ interstitial wo. and px.+wo. Both lt.brn. gross + mel.gt locally. Fr.w./k-spar + calcite. Wo.- interstitial -up to 5-6 mm.
10.24	12.2		W	70	gt	px	0	0	0	0	0	0	0	si	0	0	0	Wo. + px. Wo. has significant finely Xline px. locally. Gts up to 0.7-0.8cm diss. in rock. Gts along edges btwn.px. + wo. Fr.w./siderite. At 11.34m from top 15cm of more massive gtite(lt.brn.) w./ interstitial wo. wo.finely xline- up to 2 mm. Some grn.gts
12.2	15.2	99																
12.2	13.8		W	75	gt	px	0	0	cc	0	0	0	py	0	0	0	0	Fr. w./wo. in calcite ~ 0.5 cm wide. Diss. pyrite in rock - 1mm flecks. - higher # locally
13.78	14.3		X	<5	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Gtite + px. Interstitial wo. up to 3 mm+. Fr.w./calcite.
14.3	15.2		W	90	gt	px	0	0	0	0	fd	0	py	si	0	0	0	Wo. + px. Fr.w./k-spar + siderite. Diss. pyrite - rare- in wo. K-spar frac. 7cm wide w./ siderite. Wo. mainly finely Xline - but up to 3mm in length locally
15.24	18.3	99																
15.24	16.9		W	90	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Locally massive gtite at 15.32m for ~10cm. Gtite is lt.brn. gross + alt. to green. Fr. w./calcite
16.86	18.3		X	<20	gt	px	0	0	cc	0	0	fd	py	0	0	0	0	Gtite + px. Px. +/- or wo. interstitial to lt.brn.gtite. Brn.gross.gt - green locally. Wo. occasioally in larger zones up to 10cm. Fr. w./calcite + k-spar. Frequent hairline fr. w./cc. Alteration + some tiny vugging adj. to cc fr. -also hem(after py?)
18.29	21.3	99																
18.29	21.1		X	20	gt	px	0	0	0	0	fd	0	0	si	0	0	0	Cont. from above. Down section wo.XLs become coarser -up to 7-8mm; also % of dk. mel.gts incr. Fr. w./wo. infilling. XLs up to 3-4 mm. Fr.w./siderite. K-spar fracture ~1cm wide w./ siderite + interstitial k-spar proximate to fracture.
																		Large k-spar intrusion w./ XLs gt growing into k-spar along edges + w./in k-spar. About 5cm wide at 20.69m + continues to end of section; also wo. XLs in k-spar matrix.
21.09	21.3		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. Gts w./px in linears and grouped locally. Wo. in fracture ~1 cm wide.
21.34	24.4	98																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
21.34	21.7		W	85	gt	px	0	0	cc	0	fd	0	0	si	0	0	0	Wo. + px. Lower half of section is porous - friable - loss of cement? Fr.w./k-spar + calcite in core adjacent to it + siderite on broken surface.
21.68	22.4		W	75	gt	px	0	0	0	0	fd	0	py	0	0	0	0	Wo. + px. Dyke of px. + mel.gt at top of section -7cm wide. Fr. w./5% pyrite on surface in dyke. Gts diss.in rock. Small px. gt dyke ~1cm at 22.27m at 27 deg. Interstitial k-spar locally
22.35	23.9		W	55	gt	px	0	0	cc	0	fd	0	0	si	0	0	0	Wo. + px. + gts. Both gt types in section - grouping locally + diss. Gtite locally. Wo. is finely Xline up to few mm long near top +then incr. to be coarse down section to >1cm. Fr. w./cc + si ~ 8-9 mm. 2 cm wide k-spar + wo. intrusion? or dyke-irreg.
23.87	24.4		W	95	gt	px	0	0	cc	0	fd	0	0	si	0	0	0	Wo. Minor finely Xline px. + diss.gt. Fr. w./siderite. fr. w./k-spar, siderite + calcite.
24.39	27.4	98																
24.39	24.7		X	30	gt	px	0	0	cc	0	fd	0	0	si	rh	0	0	Gtite + px. Wo. finely Xline-interstitial. At top of section-soft,black min-organic material in cc? Area of dk.steel blue material -soft + carbonaceous + unknown? hard orange min. at base. Fr. w./k-spar + siderite also pink rh. in core box at this point.
24.65	25.8		W	50	gt	px	0	0	0	0	0	0	py	si	0	0	0	Wo. + px. + gt. Fr. w./siderite, rare diss. pyrite
25.8	27.4		W	85	gt	px	0	0	0	0	0	0	py	0	0	0	0	Wo. + px. Wo. w./ finely diss. px. w./ some apparent foliation pattern + gt(both lt. + dk.brn.). Fr. w./wo. Rare pyrite diss. Wo. is finely Xline - up to 2-3mm
27.44	30.5	99																
27.44	30.5		W	90	gt	px	0	0	0	0	fd	0	py	si	0	0	0	Wo. + px.Wo. is coarse Xline up to >1cm. Px. + gt are diss. in vague foliated pattern - increasing in concentration locally. Pyrite along wo. vein surface. Fr. w./siderite, k-spar fr.1.7cm wide -v.irreg. selvage w./ wo.
																		Also - in k-spar yellow/cream min. - titanite? K-spar XLs up to 1cm long and 0.3 cm wide
30.49	33.5	99																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
30.49	31.45		W	65	gt	px	0	0	0	0	fd	0	0	si	0	0	0	Wo. + px. + gt. Wo. is coarsely Xline, up to >1cm in length. Both px. + gt in increased amounts from above - levels incr. locally. XLs of mel.gt + px. small -but locally massive. Fr. w./siderite, multiple k-spar fractures
31.45	32.83		W	65	gt	px	0	0	cc	0	0	0	py	0	0	0	0	Wo. + px. + gt. Gt is concentrated locally up to 80%+ in masses assoc. w./ px. in dyke(s) + reaction features. Massive gt growth from dyke(s) into wo. Wo. is coarsely Xline up to >2cm in length. Fr. w./calcite, minor pyrite in pyroxene.
32.83	33.54		W	90	gt	px	0	0	0	0	0	0	0	si	0	0	0	Wo. + px. Wo. is coarsely Xline up to 1cm. Gt up to 15% locally. Fr. w./siderite
33.54	36.59	94																
33.54	36.47		W	90	gt	px	ti?	0	cc	0	fd	0	0	si	0	0	0	Cont. Wo. XLs >1.5cm. Fr(s). w./k-spar + px. + calcite + a yellow min. (titanite?). Mel.gts up to 50% locally. Fr.w./ siderite. Some vugging along fr. planes - up to 1cm + long
36.47	36.59		X	<10	gt	px	0	0	0	0	0	0	0	0	0	0	0	Gt + px. Wo. is interstitial. Gt + px. banding. Grosss. gt in center, mel.gt in perimeter w., px. - wo. Hairline fr. repeats foliation pattern.
36.59	39.63	99																
36.59	37.49		X	<15	gt	px	0	0	0	0	0	0	py	si	0	0	0	Fr. w./siderite. Px. up to 70% of rock in places -w./ diss. pyrite on some fresh surfaces - in patches. Wo. XLs up to 1cm.
37.49	39.63		W	95	gt	px	0	0	0	0	fd	0	0	si	0	0	0	Wo. +px. Wo. coarsely Xline up to + >2cm. Gt diss. and locally grouped. Fr. w./siderite ~1 cm wide . w./k-spar. Locally rock is porous + lacking cement - adj. to fr.w./ siderite. Gt - both brn. gross. + mel. gt. Also gross. green locally.
39.63	42.68	99																
39.63	41.73		W	95	gt	px	0	0	cc	qz	0	0	py	si	0	0	0	Wo. + px. Qtz in fr.>1.5 cm. Diss. pyrite in + adj. to qtz. may be intrusion? Calcite along wo. + px. adj. to qtz. - also has siderite. Py diss. in wo. + px. In px. banding - calcite veins / pods <1 cm. Multiple fr. w./calcite rhombs + vugging
41.73	42.49		W	60	gt	px	0	0	cc	qz	0	0	0	0	rd?	0	0	Wo. + px. Core cut through area of multiple fractures - mainly calcite - infilling + rhombs + vugs. Also powdery white cc + pink min. up to 30% of core locally(rh?) Fr. parallel to core axis; fr. w./calcite up to 2 cm wide w./or w.o. vugging.

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
42.68	45.73	99																
42.49	42.68		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. Coarsely XLine woll up to 1 cm +
42.68	43.8		W	90	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. + px. Coarsely Xline wo. up to several cm. Gt -dk(mel.) -up to 7% -diss. + locally grouped. Px. finely diss., locally from irreg. patches up to ~1cm.Fr. w./ calcite ~1mm wide.At 58cm down section-17cm of wo. saturated w./ interstitial CaCO3, hard:3-4
43.8	45.6		W	50	gt	px	0	0	cc	qz	fd	0	py	0	0	0	0	Wo. + px. + gt. Dk.(mel) gt becomes significant throughout this section - up to 50% of core locally. Px. + wo. are interstitial or in + adj. to veins. Fr. w./calcite + squares of fine pyrite on fr. surface. Also diss. along px. + cc selvage to fr.(original fabric/foliation?). Zones of wo. contain coarse XLs up to >2cm. Occasional k-spar in fr. 1-2mm. Also large fr.w./ cc rhombs - width of zone - up to 1.5cm.Qtz interstitial + in fr.(1cm wide). Locally -gtite
45.73	48.78	99																
45.6	46.59		W	65	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. + px. Px. is more significant in this section. Gt (mel) are diss. and locally grouped. Calcite in fr. w./rhombs. Thick. clear qtz microXLine infilling 6cm down section w./cc - massive. Fr.w./ wo.infilling. Fr.w./ cc; cc + wo. in vugging along fr.
46.59	47.73		W	75	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Wo. + gt. Coarsely Xline up to >1cm. Px. minor XLs - except for local zones of px. + gt(mel.) up to 50% of core. Gt - also lt. brn. gt(andr.?). Fr.w./ k-spar(syenitic) 0.4cm wide - w./ lt.brn. gt growing int o it.
48.78	51.83	99																
47.73	49.23		X	20	gt	px	0	0	cc	qz	0	0	0	si	0	0	0	Px. + gt. (Mel) gt. Wo. is interstitial +locally in small zones of a few cm.In latter coarse XLs. Large fr.w./ cc rhombs+ ~2.5cm layering each side. w./qtz,px.etc.Dk.green px.parallel to fr.zone. Last 85cm massive gtite(lt.brn.) w./ px. + interstitial wo.
49.23	51.83		W	90	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Wo. + px. Wo. is coarsely Xline up to >1.5cm long. Fr.w./ calcite. Px. in foliated patterns + tiny interstitial XLs. K-spar in fr. w./ tiny gts. Minor mel.gts locally w./ px. Large k-spar vein(syenitic?) over 3cm wide. Thin needles of wo. in k-spar

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
																		W./ k-spar soft pink interstitial XL(rh?) between veins - pink, w./ wo. XLs - in zone parallel to fr.w./ calcite layers + rhombs. Px. XLs in w./ pink min. Locally - wo. is v.porous + crumbly cement.
51.83	54.9	99																
51.83	54.9		W	85	gt	px	0	0	0	qz	fd	0	0	0	rh?	0	0	Wo. + px. Wo. - above -after 25cm core decomposes crumbly - porous w./ cement leached? vuggy calcite fr.w./ rhombs. Commonly pink soft min.(rh?) between vein stockwork. Qtz along fr. veinlets. Zones of porousness are local-but abundant.
																		Some k-spar in fr. Some parts of core are bleached white + appear as wo. w./ little cement-turning chalky to touch -but XLs still retain hardness. Fr./qtz. Locally px. + gt dyke(?) 7-8cm wide down 2.22m from top of section
54.88	57.9	99																
54.88	55.7		W	65	gt	px	0	0	cc	qz	0	0	0	0	0	0	0	Wo. + px. % px. + (mel) gt increases(up to 80% of core locally) - in irreg.foliated zones + linears. Also diss. gts appear avg'ing. 1cm. Frs. w./calcite rhombs +/- powder. Wo. is coarsely Xline up to + >1cm. Numerous fr. w./ qtz - translucent
55.74	57.9		W	95	0	px	0	0	0	0	fd	0	0	0	0	0	0	Wo. + px. Wo. is coarsely Xline up to 2cm+ in places. K-spar in fr. - 0.8cm wide - intrusive? w./ reaction rim 1cm on both sides.
57.93	61	99																
57.93	58.2		W	50	0	px	0	0	cc	0	0	0	0	0	rh?	0	0	Cont. Zone of fracturing w./cc rhombs + fr. fill of 0.6cm. Most of this section - again more porous, lacking some cement. Irreg. + intersecting fractures of finely Xline cc - white + grey w./vugging + cc rhombs.(Rh?) soft pink min. w./ px.diss(alt.min)
58.2	58.7		X	10	gt	px	0	0	cc	0	0	0	py	0	0	0	0	Px. + gt. Faulting + alteration above cont. for first 16cm from top of section. Same mins. - except content of(mel.) gt +px. increases from top of section-up to 95 % of core. Fr. w./calcite -thin powder.Calcite fr.w./ pyrite
58.73	60.4		W	95	0	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. + px. Some foliation pattern; Fr. w./ calcite. Wo is coarsely Xline up to + >1cm.fr. w./calcite
60.38	61		X	5	gt	px	0	0	0	0	0	0	0	0	0	0	0	Px. + gt. Massive px. w./ gite(mel.) + gts diss. - zoned. Wo. is interstitial + in small pods of 1-2cm width.

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
60.98	64	97																
60.98	61.3		W	70	gt	px	ti?	0	cc	0	fd	0	0	0	0	0	0	Px. + wo. Px. w./ wo. rich zones up to 80% locally. Gt is diss. + in foliation groups, up to 7% locally. K-spar fr. + calcite along selvage 1.5 cm wide. W./ titanite(?) - yellow XLs adj. to fracture - in px.
61.28	64		P	5	0	px	0	0	cc	0	0	0	0	0	rh?	0	0	Pxite. Massive finely Xline pxite w./ some diss. wo. 5%; in some areas altered to rh(?) - soft pink calcareous min. Fr. w./ calcite + cc rhombs
64.02	67.1	90																
64.02	65.6		G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Pxite. Fr.w./ calcite. Local zones of foliated px. which has been recrystallized w./ calcite. Zones of gite.
65.62	65.9																	No recovery.
65.92	67.1		P	0	0	px	0	0	cc	0	0	0	0	0	0	0	0	As above - calcareous pxite - last 25cm w./ calcareous stockwork + pink, v.soft(rh?) min.
67.07	70.1	73																
67.07	68.2		P	0	0	px	0	0	cc	0	0	0	0	0	0	0	0	Cont. calcareous pxite w./ multiple calcite fr.
68.18	68.8																	Loss of core
68.78	69.5		P	0	0	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite
69.48	69.6																	Loss of core
69.58	70.1		P	0	0	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite w./ minor foliation pattern + calcite fr.
70.12	73.2	94	P	0	0	px	ti	0	0	qz	0	0	0	0	0	0	0	Pxite w./ multiple qtz. veins in top 1 metre. Foliated pattern. Below ~71.40m titanite is diss. <3%
73.17	76.2	99	P	0	0	px	ti?	0	0	0	fd	0	py	0	0	0	0	Cont. At 2.7m down section px. becomes saturated w., k-spar - up to 50% plus rare diss. pyrite - esp. along frs.
76.22	79.3	80	P	0	0	px	0	0	0	0	fd	bt	0	0	0	0	0	Pxite cont. as above. Loss below 45cm? All broken. Below 45cm rock becomes crumbly + phyllitic(?) - chloritized? + biotite.
79.27	82.3	71	P	0	0	px	0	0	0	0	fd	0	0	0	0	0	0	Pxite cont. as above. Section all broken
82.32	85.4	87	P	0	0	px	0	0	0	0	fd	0	0	0	0	0	0	Pxite cont. as above. Section all broken
85.37	88.4	94	P	0	0	px	0	0	0	0	0	bt	py	0	0	0	0	Pxite - as above; but k-spar is absent. Pyrite diss. <1% , except along fr. surfces. Rare zones of finley Xline pxite w./o alteration min. Biotite

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
88.41	91.46	99	P	0	0	px	0	0	0	0	fd	0	0	0	0	0	0	Cont. Section becomes more competent after 1.88m. K-spar increases down section from this point - to be ~50% of rock; k-spar dyke for 36cm at 3.71m from top of section
91.46	94.51	99	P	0	0	px	0	0	0	0	fd	0	0	0	0	0	0	Cont.
94.51	100.6	99	P	0	0	px	0	0	0	0	fd	0	0	0	0	0	0	Cont. Pyrite common in fr. + diss. up to 1% locally. Some titanite; k-spar ~50% to end of core(k-spar 50%, biotite 15%, px 34%, 1% other mins.)
100.6	103.7	99	P	0	0	px	ti	0	0	0	fd	t	py	0	0	0	0	Cont.
103.7	106.7	97	P	0	0	px	ti	0	0	0	fd	bt	py	0	0	0	0	Cont.
	EOH																	

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
BRIL-96 -04																		
0	2.13																	casing
2.13	6.1	97																
2.13	3.38		W	50	gt	px	0	0	cc	0	0	0	0	si	0	0	0	Gt + px. + wo. Lt.brn. gt (andr.) - massive to gтите w./ interstiaill finely Xline px. + wo. Dk(mel.) gts also diss. + zoned(~2mm wide). Fr. w./calcite; fr. w./siderite
3.38	6.1		W	90	gt	px	0	0	cc	0	0	0	0	si	0	0	0	Wo. + px. Wo. w./ px. in foliated stringers + finely diss. Gt is diss. or locally massive gтите -(lt.brn.)Gt + px. up to 30% of core locally. Wo. is finely <0.5cm Xline. Fr. w./calcite; fr. w./siderite. Gts are both lt.brn. + mel(dark)
6.1	9.15	99																
6.1	7.32		W	85	gt	px	0	0	cc	0	0	0	0	0	0	0	0	As above. Rock is locally porous. Locally light brn. +mel. gt up to 50% of core locally.
7.32	9.15		X	5	gt	px	0	0	0	qz	fd	0	py	0	0	0	0	Gt. + px. Gтите, both lt.brn + mel. Wo. occurs assoc. w./ px. + in fractures + pods in rock. K-spar(syenitic) dyke. Zone of lt.pink min(?); occasional titanite wedges. Py along fr. w./in + parallel to dyke. Some interstitial qtz. in gтите
9.15	12.2	98																
9.15	12.2		X	20	gt	px	0	0	cc	0	fd	0	py	si	0	0	0	Gтите + px: mel.gt predom. gt types. K-spar(syenitic). Fr. w./calcite; fr. w./siderite. Wo. is interstitial in fractures + pods.Gt-rich intrusion(?) 18cm down section- 4cm wide. Fr. w./k-spar 2 mm wide + py in 1-10mm flecks
12.2	15.2	99																
12.2	14.7		G	20	gt	px	0	0	cc	0	fd	0	0	si	0	0	0	Gтите; Px. decreases in section; <10%.Fr. w./ siderite; fr.w./k-spar w./gтите w./in fr. Fr. w./ calcite. Locally diss. gt(brn. + mel.). K-spar dyke at 50deg. ~2.02m from top of section; significant k-spar interstitial for 5-10cm on either side of dyke.
14.74	15.2		W	40	gt	0	0	0	0	0	0	0	0	0	0	0	0	Gt. + wo. As above; wo. content inc. Wo. XLs up to 1cm wide
15.24	21.3	99																
15.24	16.1		W	70	gt	0	0	0	0	0	0	0	0	0	0	0	0	Wo. + gt. Wo. +finely Xline px. w./ diss. gt grading to gтите, up to 70% of core locally. Gt is all mel. gt

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
16.11	17.5		W	30	gt	px	ti	0	cc	0	fd	0	py	0	0	0	0	Gt + px. + wo. Rock is 50% mel.gt, avg.~20% px. Top of section large fr.w./ cc + k-spar 2cm wide. Px + gt diss. in k-spar. K-spar interstitial up to 10cm down section. Fr. w./calcite + k-spar + diss. py. Titanite along some k-spar fr.
17.46	18.3		W	90	0	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. + px. Wo. w./ finely diss. px. Minor diss. gts(both lt.brn. + mel.). Fr. w./calcite
18.29	18.5		W	95	0	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px.
18.5	19.4		X	5	gt	px	0	0	cc	0	0	0	py	0	0	0	0	Px. + gt. Finely Xline px. w./diss. gts + gtite(both brn. + mel.),fr. w./calcite. Diss. pyrite. Wo. occurs mainly in pods + stringers assoc. w./ irreg. foliation pattern. K-spar is assoc. w./wo. + interstitial adjacent to the wo. Titanite wedges in k-spar
19.4	21.3		W	95	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. + px. Wo w./v.finely diss. px. + gt(dk.brn. + mel.) diss. +/- or en masse locally. Fr. w./calcite. Wo. is v.finely Xline ~<1mm
21.34	24.4	99																
21.34	21.8		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. as above
21.84	22		P	0	gt	px	0	0	0	0	0	0	py	0	0	0	0	Px dyke. Px. + minor gt dyke. Diss. py along fracture planes + rare throughout. Finely Xline px.
22.04	22.5		W	85	gt	px	0	ep	0	0	0	0	0	0	0	0	0	Wo. + gt. Wo. w./ finely Xline px. diss.+ in foliation linears. Gts (both lt.brn. +mel.) along foliation linears. Some gts changing to green(epidote?). Wo is finely Xline <1mm
22.47	22.7		P	0	gt	px	0	0	0	0	0	0	py	0	0	0	0	Px. dyke. Finely Xline px. +gt. Diss. pyrite on fresh surface. Some small 5 cm pods of wo. Dykelet into underlying section of wo.(px./gt/wo.) selvages
22.73	24.4		W	80	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Wo. + gt + px. Wo. finely Xline and locally up to 1cm long. GT: mainly lt.brn. -diss. throughout rock + massive to gtite locally. Px. is finely Xline +massive w./ gt. Fr. w./k-spar up to 3 mm wide. Some gts alt. to green; zoned gts w./ mel in centre.
24.39	27.4	98																
24.39	24.6		X	25	gt	px	0	0	0	0	0	0	0	0	0	0	0	Px. + gt. Finely Xline px. foliated w./ gts(zoned) and wo. Wo. finely Xline

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
24.59	26.9		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. Wo. finely Xline w./px. in irreg. foliated linears + patches. Diss. gt + gtite -locally up to 95% of core. At top of section lt. brn. gt predominates. Locally gts follow foliation pattern. Near 1.6m down section mel gts(dark) predominate
26.87	27.4		G	10	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Gtite. Mel. gt to gtite predominate w./ one 8cm patch of lt.brn. gtite near top of section. Px. + wo. interstitial to and in pods between the gt. Fr. w./calcite; fr. w./k-spar + calcite. Px ~ 15% of core
27.44	30.5	99																
27.44	27.9		G	10	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Cont. Fr. w./calcite. In lower part of this section px. predominates - med. to finely Xline w./ diss. gts~<1mm
27.86	28.4		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. Wo. w./ px. locally up to 25%. Px.finely Xline w./ gts(mel. or lt.brn.) diss. assoc. w./ px. foliation. Gts(both mel.+ lt.brown) diss. in wo. Wo. is med.Xline - up to 0.2-0.3mm wide.
28.42	28.8		W	40	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Gtite + px. Gtite is lt.brn. + generally massive w./ some diss. mel gt. Px. is finely Xline. Wo. is pervasive in parts of core w./XLs ~3mm. up to 1cm locally. Fr w./ calcite ~1m. Some minor interstitial k-spar, + k-spar stringers(fr.)
28.78	30.5		W	90	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. + px. Wo. w./pale green diopside in irreg. foliation throughout. Both types of gt(lt.brn + mel) are common - diss. in wo. Some lt.brn. gts alter to yellow-green(epidote?). Poorly cemented XLs -powdery w./ many calcite veins. Vugging assoc. w./ cc fr.
30.49	33.5	99																
30.49	32.8		W	85	gt	px	0	0	cc	0	0	0	0	si	0	0	0	Wo. + px. fr. w./ calcite;at 1.34m from top of section:px. content inc. Fr. w./ siderite
32.83	33.5		G	15	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Gtite + wo. First 40cm:gtite -lt.brn w./ interstitial wo. Fr. w./ calcite. After 40cm gtite becomes mel. gtite w./ diss. wo. Wo. also in pods w./ some dk.px. XLs. Linear "intrusion" of lt.brn. gt 0.6cm wide(finely Xline) into melanitic gtite + wo.
33.54	36.6	91																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
33.54	34.3		G	20	gt	px	0	0	0	0	0	0	0	0	0	0	0	Gtite(mel.). Rock is v.black except for interstitial wo. + px. Zones of relatively high px. content - related to irreg. foliation pattern. At bottom of section rock becomes v.porous + a bit crumbly; interstitial wo. is significant + core is vuggy along fr.
34.26	34.5		W	85	0	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px.
34.54	34.8		loss of core													0	0	Loss of core(assumed)
34.83	35.2		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. Med.Xline wo.(~<1-2mm) w./px. + gt in irreg. foliation pattern. Lt.green px. diss. in wo; otherwise finely Xline px. + assoc. gts(mel) in wo. Locally porous + crumbly; also locally wo. XLs up to 2cm long.
35.17	35.9		W	70	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Wo. + px. As above, except px. increases in % up to 90% of core locally. Fracture w./calcite rhombs + vugging - up to 1cm wide. Wo. is frequently v.fine or coarse w./ XLs >1cm. Px. is v.finely Xline
35.9	36.6		W	40	gt	px	0	0	cc	0	0	0	0	0	rh?	0	0	Gt + wo. + px. Mel. gt densely diss. in wo.w./ px. Gts are generally small<1mm. Wo. is coarsely Xline w./ XLs avg. ~2-3mm + up to 5mm. Fr.w./ calcite.Locally rock is porous + crumbly.Minor soft pink min.-rh? Large fr. w./good size cc rhombs + layers
36.59	39.6	99.7																
36.58	36.9		W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. + gt, minor px. Gt occurs dispersed throughout and in irreg. layers which contain minor interstitial px.
36.88	37		V	20	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Layer of mel.gt w./ interstitial wo. Gt is dk.brn(mel.) and is c/c by 5mm wide white wo. vein(HA:70). Wo. vein is c/c by calcite vein(1mm wide) w./ a 2mm wide rusty-green carbonate envelope
36.98	37.1		W	99	0	0	0	0	0	0	0	0	0	0	0	0	0	White wo. w./ very lt.green diffuse patches ; no layers or structures
37.08	37.3		W	60	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo.>px.>gt. Med.green zone of wo. w./ abundant px. dispersed evenly throughout section;1 distinct px veinlet (<1 mm wide) with 6 mm wide wo.- rich envelope
37.34	37.4		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke w./ interspersed gt(2-6cm wide) and irreg. shaped w./ minor wo./ XLs

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
37.4	37.6		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo.>gt>px. Lt. green wo. w./ knots and irreg. layers(2mm wide) of lt.brn., gt; layers + knots have interstitial px.(knots up to 7.5cm wide). Fine wispy layers of px. 1-2mm wide. Orange gross .White wo. vein (5 mm wide) with mel.gt selvage (1-10 mm wide)
37.6	38.1		W	89	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. > px. >gt. White wo. w./ px. in wide diffuse layers (2-3cm wide) and in 2mm wide sharper bounded px. layers. Diffuse and sharp layers parallel(HA:50). Minor dispersed lt.brn. gt
38.13	38.3		X	5	gt	px	0	0	0	0	0	0	0	0	0	0	0	Layer of ~40% mel.gt w./ ~60% interstitial px. trace amounts of wo. XLs
38.27	38.4		W	89	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. w./ sharp px.layers(1-3mm wide) (same as wo. above)
38.4	38.9		W	60	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke (5-6mm wide) c/cing wo. as described above;dyke is irreg. and contains minor (<5%) wo; mel.gt (<10%) occurs interspersed locally around stringers of pxite coming off the main dyke
38.94	39.1		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo.(as described above). Contains diffuse px. layers(5mm wide). Minor(<5%) amounts of gross gt(orange) locally dispersed and minor amounts dk.brn.gt locally dispersed
39.63	42.7	99.7																
39.13	39.7		W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	White + lt.green wo.>gt>px. Wo. contains 5-20mm wide diffuse px. layers. Lt. brn gt dispersed throughout (~20%) + dk. brn. gt in layers parallel to px layers(HA:65)
39.69	39.9		W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	White wo. w./ minor interspersed coarse gt(lt.-dk.brn. color)
39.89	40.4		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. w./ gt(~10%) +(5%) px. Garnet is lt.-dk.brn. + interspersed throughout evenly. Pxite dyke (1cm wide) w./ 1mm wide selvage of mel.gt(dk.brn)
40.39	40.7		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + gt. Same as described above w./ irreg. layers of gt. Gt layers contain ~35% interstitial wo.;gt is lt.brn. Trace px. occurs locally as 1cm wide diffuse px-rich zones
40.65	40.7		W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	White wo. w./ minor interspersed lt.brn-orange gt
40.71	40.9		W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	Same wo. as above w./ 2cm wide lt.brn. gтите layer, gтите layer contain minor interstitial diopside; gts dispersed around layer in the wo.

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
40.85	40.9		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	Same wo. layer as above w./ dispersed lt.brn.gts(5%)
40.9	41		G	10	gt	px	0	0	0	0	0	0	0	0	0	0	0	7cm wide gtite layer (same as descr. above) w./ minor wo.;white wo. vein (4 mm wide) c/c's it
41	41.1		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. as descr. above w./ ~20% lt.-dk.brn. gt dispersed throughout ;(wo, + gt) 2.4 cm wide gt layer(same as descr. above)
41.1	41.7		W	85	gt	0	0	0	0	0	0	0	0	0	0	0	0	White wo. + gt. Lt.brn. gt layers (same as descr. above)(3-10mm wide) comprise ~15% of section; rest of section is white wo.
41.73	42.4		P	0	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Pxite/k-spar dyke w./ coarse euhedral mel. gts. Dk.grey k-spar-rich zone in centre of section ~16cm wide; selvage of dyke is predom. pxite. Dk.brn mel.gts 6-9mm wide constitute~20%section. Section c/c by lt.orange veinlets(1mm wide)(gross?)
42.38	42.7		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. + gt, > px. Gt dk.brn is dispersed throughout. Wo. c/c by pxite dyke (irreg.) which contains dispersed mel.gts(70%)
42.68	45.7	96.5																
42.65	43.3		P	5	gt	px	ti	0	0	0	fd	0	0	0	0	0	0	Pxite dyke w./ k-spar + euhedral coarse-grained mel.gts + trace titanite. K-spar occurs as irreg. patches 3-4cm wide throughout dyke. Mel.gt is interspersed throughout dyke. Irreg. layer of wo. ~20cm wide occurs at 42.71 m and contains px. + mel.gt
43.29	43.5		G	10	gt	0	0	0	0	0	0	0	0	0	0	0	0	Gross. + diopside +/- wo. Gtite layer w./ interstitial diopside and minor wo. Wo. content gradually increases towards downhole
43.52	43.9		W	20	gt	px	0	0	0	0	0	0	0	0	0	0	0	Gt>px., minor wo. abundant dk.brn. mel.gt dispersed throughout w./ interstitial diopside(lt.green). Two 3-5cm wide wo.-rich zones occur and are interspersed w./ gt. Gt + px. layer cut by white wo veins 2mm wide
43.93	44		W	70	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Fractured up zone where loss in recovery probably occurred. Zone consists of wo. + gt(75% wo.) that is c/c by a vuggy calcite vein 7mm wide
44.03	44.2		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	Med.-coarse(5mm wide) grained wo. w/. interspersed fine-grained mel.gts(~10%) and diffuse px. layers (irreg.). Mel.gt also occurs in 2-4mm layers

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
44.21	44.3		P	10	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite dyke w./ ~10 % wo. which occurs as patches and short linears; ~5% mel.gt(dk.brn.) interspersed throughout. Lt. grey calcite vein(1-2mm wide), lt.green altered envelope 7mm wide.
44.31	44.5		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	White wo. w./ ~15% dispersed dk.brn. mel.gt and ~5% px.(irreg. layers 2mm wide HA:55)
44.5	44.9		W	88	gt	px	0	0	0	0	0	0	0	0	0	0	0	Same white wo.(a little coarser ~6mm long XLs) w./ ~10% dispersed mel.gts and <2% px.
44.88	45.4		W	93	gt	px	0	0	0	0	fd	0	0	0	0	mt	0	Same wo. as descr. above w./ <5% mel.gt dispersed throughout. C/c by k-spar + px + gt vein that contains minor amounts of magnetite; vein 1cm wide. C/c by 2 px-gt veins(fine-grained) 3-4 mm wide
45.41	45.6		P	0	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite dyke containing ~60% mel.gt(px. interstitial). C/c by eight <1mm wide lt.grey calcite veins. C/c by gross.veinlet(0-1mm wide). Beginning of section marked by a drastic change in lithology when crossing a fracture filled w./ clay(major fault?)
45.6	45.7		V	0	gt	px	ti	0	0	0	fd	0	0	0	0	0	0	K-spar vein containing feldspars w./ white cores and grey rims(plag to k-spar?), euhedral mel.gt, minor px. and titanite
45.68	45.9		P	0	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite dyke(same as descr. before) w./~50% mel.gt in clumps + fine-grained px. contains minor pods of wo.(1cm wide). C/c by <1mm wide calcite veins
45.73	48.8	100																
45.87	46.1		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Continuation of pxite dyke described above but containing predom.px. and only minor interstitial mel.gt
46.12	46.9		W	50	gt	px	0	0	0	0	0	0	0	0	0	0	0	White wo.c/c by pxite dyke;core cuts parallel to dyke(HA:85). Dyke is irreg., 2-6cm wide and is predom. px. inside and contains 3-8mm wide selvage of mel.gt. Wo. locally contains minor px.(diffuse lt.green layers) and minor amounts of mel.gt interspersed.
46.94	47.7		W	70	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. as described above w./ dyke as descr. above however dyke is thinner than before, therefore increasing % wo. Pxite dykelet branches out and tapers out by 47.68m. Ten <1 mm wide lt-grey calcite veins c/c pxite

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
47.68	48		W	90	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White-lt.green wo. + gt. Dk.brn.(mel.gt) and lt.brn(andr?) gts are dispersed unevenly through section. C/c by drk.green carbonate veins (1 mm wide) with 4 mm wide carbonate envelopes
48.01	48.5		W	60	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. c/c by pxite dyke 2.5 cm wide which runs subparallel to core; dyke contains 3-5mm selvage of mel.gt and a 5-20mm envelope of mel.gt w./ interspersed wo.; dyke + envelope are irreg.
48.5	48.7		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke (same as descr. above) containing ~65% px. + 35% mel.gt(dispersed + in pods)
48.66	48.8		W	85	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White-lt.green wo. containing stringers of px.+ mel.gt. Pod w./ stringers coming off of it of px. +mel.gt; stringers(1-2mm wide)(HA:80),pod is 6cm wide. Stringers contain core of px. and selvage(1mm wide) of mel.gt(dk.brn.gt). Calcite vein <1mm wide
48.78	51.8	99.7																
48.83	49		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.-med.green wo. + minor gt(~5%). Wo. has diffuse + irreg. bands of darker green layers(px. content fluctuates). Dk.brn. mel.gt occurs in(2mm wide) stringers(HA:80) and lt. brn. gt XLs(coarse ~1cm long) dispersed
49.04	49.4		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. + gt + trace px. gt occurs as stringers(0.5-2cm wide) of dk.brn mel.gt w./ interstitial wo; stringers are irreg. Wo.contains interstitial fine-grained mel.gt(dk.brn.) and lt.brn(andr.) gts
49.41	49.9		W	80	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Lt.green wo. + gt>px. Wo. contains only dk.brn(mel.) gt dispersed unevenly along linears(no lt.brn. gts)(HA:80). Minor amounts of px. occur adjacent to gt. Calcite vein(10mm wide)(HA:32) lt.grey color
49.94	50.2		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. w./ minor interspersed mel.gt and trace px.(px. is interstitial between mel.gts XLs)
50.17	50.7		W	90	gt	0	0	0	cc	0	0	0	0	0	0	0	0	White wo. + gt. Lt.brn (andr.) gt occurs in layers 3-6mm wide; these layers contain interstitial wo. Dk.brn. mel.gt occurs in irreg. layers and patches contains interstitial wo. Lt-green calcite vein (1 mm wide) cuts wo.
50.67	50.8		W	70	gt	px	0	0	cc	0	fd	0	0	0	rh	0	0	Pink wo. +carbonate. Wo. c/c by a series of lt-grey calcite veins (<1 mm wide). Wo contains pervasive pink carbonate(rhodochrosite). At end of this zone is a k-spar vein(med.-grey), 1cm long.

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
																		Vein contains minor mel.gt and microveinlets(parallel to k-spar vein) of gross.Pink alter. more likely result of carb. veins because they are in middle of zone +less likely to be result of k-spar vein because it is on 1 end of zone(other side not altered)
50.8	51.2		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. + gt + px. Wo. contains ~10% dispersed mel.gt XLs in irreg. pattern; minor px. is in interstices between mel.gt XLs. Section cut by white wo. veins 5-8 mm wide (some wo. veins seem to c/c each other)
51.2	51.4		W	85	gt	px	ti	0	0	0	0	0	0	0	0	0	0	White wo. + gt. Gt is lt.brn.(andr.) + is dispersed throughout section. Wo. contains faint, diffuse patches of lt.green(higher px.-content). Lt.green vein 1mm (not carbonate) c/c's wo. + gt(diopside vein?).
																		Titanite vein (lt.yellow) c/c's diopside vein(vein is 2-3mm wide). Therefore timing relationship is: wo. + gt. then diopside. then titanite
51.4	51.8		W	80	gt	0	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. containing 5-7cm wide patches of lt.brown (andr.) gt and lt.brn gt which is interspered unevenly throughout.
51.78	52		W	55	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. + gt and minor px. Wo. is c/c by zone of predom. mel.gt(fine-grained) w./ interstitial px. in minor amuounts and minor interstitial wo., zone has irreg. boundary. Mel.gt rich zone is c/c by 2 mm wide white wo. veins.
																		Wo. contains lt.brn(andr.) XLs(up to 7mm long) dispersed throughout.
51.83	54.9	97.4																
51.99	52.7		V	25	gt	px	0	0	cc	qz	0	0	0	0	0	0	0	Mel.gt-rich zone w./ minor interstitial px and wo.(same as descr. above). c/c by 1-3 mm wide wo. veins(white). Pods of wo. occur inside mel.gt-rich zone(pods up to 4cm wide and irreg.); wo. is coarse-grained(2-8mm long)
																		Inside section are pure px. fragments(1x3cm) which are c/c and surrounded by mel.gt + wo.. Qtz. veins 2mm wide containing calcite grains(sharply bounded vein). Calcite veins 2mm wide occur
52.66	52.8		W	90	gt	0	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo., fine-grained(<1mm long) contains minor dispersed dk.brn gt(melanite)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
52.76	53.06		W	60	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo.(same as above) c/c by mel.gt + px. dyke(same as mel.gt-rich zone descr.above);dyke is 4cm wide(HA:78).Pxite dyke c/c by white wo. veins (1-4mm wide);Pxite is interstitial btwn mgt XLs.Px veinlets (tightly folded)1mm wide; these c/c mgt
53.06	53.56		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. + gt. Gt occurs as fine-coarse(<1-7mm) XLs dispersed throughout;gts are lt.brn(andr.) and dk.brn.(mel.) and locally occur in linears 3mm wide 50mm long. Minor faint-diffuse green layers in wo.
53.56	53.96		W	80	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Green wo. w./ irreg. patches of white wo.(fluctuations in px.-content) and gt. Gt is lt.brn. and occurs dispersed locally. Dk.brn. gt occurs in rounded patches and as single XLs in wo. matrix.
53.96	54		W	45	0	0	0	0	cc	0	0	0	0	0	0	0	0	Lt-green hard veinlets (diopside?) (<1 mm wide) c/c wo.; lt-green carbonate veins c/c diopside veins; carbonate vein<1 mm wide Pink carbonate w./ wo. adjacent to lt.grey carbonate vein
54	54.53		W	65	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. + gt + px. Wo. contains ~25% lt.brn(andr.) dispersed throughout + in stringers(5cm long, 0.5cm wide); contains minor px in irreg. small patches(<1cm wide)
54.53	54.82		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	White wo. w./ diffuse patches of lt.green(higher px.-content) wo.; wo. contains minor(~5%) lt.brn. gt as 4mm XLs in wo. matrix and as 2mm wide stringers(HA:70)
54.88	57.93	99.7																
54.82	55.01		P	5	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke containing predom. px. w./ dk.brn. mel.gt dispersed throughout and in high concentrations in rims of dyke(selvage); ~10% wo. occurs in interstices
55.01	55.42		W	?	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White-lt.green wo. w./ irreg. patches of green wo.(high px.-content) + gt. Gt is dk.brn. + occurs locally, in stringers<1mm wide(HA:74);lt.brn.gt occur as coarse(1cm wide) grains dispersed locally, minor amounts of px. in interstices between mel.gt
55.42	55.73		W	70	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White wo. w./ linear patches of med.green w.(wo. + px.) + ~20% gt. Gt: lt.brn. + dk.brn. gt is dispersed along linear patches(irreg.). Calcite vein 3mm wide(white-lt.grey)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
55.73	56.1		W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo.c/c by pxite dyke. Pxite dyke has med.green px-rich core w./ 2-3mm wide selvage of lt.brn. and dk.brn. gt; lt and drk. brn. gt is dispersed w./in wo;(there is so wo. w./in dykes)
56.13	56.3		W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	Wo. + gt. Lt.green-white wo. w./ minor scattered patches of dk.brn. mel.gt and lt.brn. andr. gt
56.28	56.5		W	75	gt	px	ti	0	0	0	0	0	0	0	0	0	0	Same wo. as above but c/c by pxite dyke; dyke is irreg., has px.-rich core and mel.gt-rich rim, contains trace titanite(1.5x3cm wide)
56.48	56.8		W	90	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White-lt.green wo.(fine-grained); + gt+px. Gt is l stringers(<1-3mm wide) irreg. Minor amounts of px. in dykelets 1mm wide exhibiting tight open folding. 4mm wide lt.grey calcite vein.
56.82	56.9		P	0	gt	px	ti	0	0	0	0	0	0	0	0	0	0	Pxite dyke w./ irreg. boundaries; px/-rich core 5mm wide and 5-10mm wide mel.gt selvage; contains minor ti w./in core
56.85	57.1		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.-med.green wo. w./ faint wispy <1m wide layers of px; ~5% mel.gt dispersed (2x7mm) patches. Px. layers aligned to HA:70
57.05	57.3		W	85	gt	0	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. w./ <2% mel.gt dispersed in band 2cm wide (HA:52). Med.green patches of wo. (0.5x3cm wide) (diffuse) w./in section
57.27	57.4		P	0	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite dyke ~12cm wide (HA:52) containing fine-grained px.(~60%) and med.-grained(~40%) dispersed throughout. Lt.brn-orange <<1 mm veinlets cut dyke (gross.?); minor calcite adjacent to dyke boundary
57.39	58.1		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Med.green wo. w./ 1mm wide darker green px. layers(HA:54)(wo. + px.); small patches (0.5x2cm) of pure px.1 dyke of pxite-px.core(3mm wide) w./mel.gt-rich rims(2-3m wide) 1 cm wide. 1-2mm wide stringer c/c's pxite dyke. So, timing is px.then mel.gt
57.93	61	98																
58.08	58.2		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. + gt + minor px. Wo. contains 3cm wide band of lt.-dk.brn gt w., interstitial wo.; minor interstitial dioside(lt.green) between gt XLs

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
58.22	58.37		W	?	gt	px	ti	0	cc	0	0	0	py	0	0	0	0	Lt.green wo(as above) c/c by 2 veins.Vein 1: Lt.grey translucent calcite vein <1-2mm wide w./ 9mm wide med.green envelope of carbonate w./ trace titanite.Vein 2: 3mm wide dk.green px.+pyrite+pyrrhotite? w./ 10mm wide med.green envelope of carbonate
																		Cutting these two veins are fractures filled w./ minor titanite when inside carbonate and contain abundant gross. when in wo.
58.37	58.72		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. w./ minor diffuse lt.green layers + gt. Gts are lt.brn(andr.) and occur dispersed throughout wo. and in layers 1cm wide; gt layers contain diopside in interstices
58.72	59.02		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. w./ diffuse faint patches of med.green(higher px.content) + gt. Gt: lt.brn to dk. brn. interspersed and in linear patches(HA:67). Wo. is med. to coarse-grained
59.02	59.12		W	70	gt	px	ti	0	cc	qz	0	0	0	0	0	0	0	Lt.green wo. w./ dk/green wo. diffuse layers(more px-content). C/c by 2 pxite dykes; 7mm wide dyke and 1.5cm wide dyke; both contain px.-rich core(med.green) and mel.gt -rich rim, locally interface btwn. mel.gt + px. caontains ti.
																		Mel.gt rim may represent an envelope because it contains interstitial wo. Both dykes c/c by 3-4mm wide lt.grey qtz. vein w./ a 10mm wide lt.-med.green envelope of carbonate(similar to similarly described veins above)
59.12	59.24		W	60	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. c/c by irreg. pxite dyke w./ minor mel.gt and minor interstitial wo.
59.24	59.64		W	50	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Lt.grn. wo. +gt + px.Complex pattern of pxite dykelets containing pure px. rimmed by mel.gt.Wo. contains abundant px(interstitial) btwn. mel.gt +wo.Linear patches of coarse(3-4mm long XLs) white wo.cut zone. Complex texture c/c by 4mm wide lt.grn.cc vein
59.64	60.14		W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	White wo. w./ ~1% lt.brn.andr. gt scattered throughout as a few coarse grains. 2 mm wide dk.-grey euhedral calcite vein cuts wo.

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
60.14	60.39		W	?	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. + gt. Gt: lt.brn. and dk.brn. gt dispersed throughout wo. matrix(ie. both andr. + mel. in wo. matrix);also in stringers(HA:64) 5 9mm wide which have dioside?(lt.green px.) in intersticies and in cores
60.39	60.43		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Planar pxite dyke 13mm wide containing 4mm wide envelope of mel.gt
60.43	60.58		W	99	gt	0	0	0	cc	0	0	0	0	0	0	0	0	White wo. w./ <1% specs of lt.brn. andr.gt. 1mm lt. grey calcite vein
60.58	61.13		W	85	gt	px	ti	0	cc	0	0	0	0	0	0	0	0	White wo. + gt + px. Gt:interspersed grains~2mm wide of lt.brn.andr.gt Gt also in irreg. stringers 2-13mm wide. Px:diffuse lt.green patches + bands 1-3cm wide(HA:78). 1mm wide pxite dykelet(px. + mel.gt) w./ 7mm wide med.green carbonate envelope.
																		This envelope contains px., minor mel.gt, titanite and pyrrhotite(magnetic + goldy tinge)
61.13	61.47		W	90	gt	0	0	0	0	0	0	0	0	0	0	0	0	Coarse-grained wo.(6mm long), white color w./ ~2% lt.brn, andr.gt dispersed throughout and in stringers(HA:80)
61.47	61.67		W	88	gt	px	0	0	0	0	0	0	0	0	0	0	0	Same wo. as above c/c by layer of lt.brn. andr.gt 5-10mm wide, contains interstitial wo.(in layer). Trace px. in diffuse cm scale patches of lt.green (wo + px.)
61.67	62.27		W	95	gt	0	ti	0	0	0	0	0	0	0	0	0	0	Same wo. as before(white, med.-grained~4mm long) v.pure only containing ~5% lt.brn.andr.gt in patch 2.5cm long, 1.5cm wide and in dispersed grains throughout wo. matrix; locally gts are v.lt.brn(orange) + contain lt.yellow cores(titanite).
																		One diffuse layer of diopside 3mm wide
62.27	62.49		P	15	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite;pods of pure px. are abundant and are surrounded by mel.gt and interstitial wo. Px. pods have lt.green cores(1cm wide) and dk. green rims(dk.green color from mel.gt in w./ px.). White wo. veins c/c pxite; veins 1-3mm wide
																		Pxite cuts through white wo. which contains minor amounts of px. in layers 2-3mm wide
62.49	63.34		P	10	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite(same as before, except now makes up all th core);pods are narrower and are surrounded by matrix of intergrown mel.gt, px. and minor wo. 4 wo. veinlets 2 mm wide have consistant orientation(HA:30)(later features?)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
63.34	63.7		P	20	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite as above w./ higher wo. content; wo. occurs abundantly interstices and in linear patches(irreg.)
63.72	64		W	55	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Lt.green wo. c/c by pxite dyke(same as above).Dyke is predom. px.w./ ~20% mel.gt dispersed throughout;dyke is 2.5cm wide.Wo. and pxite dyke c/c by 1 mm wide lt.-grey calcite vein(planar);vein has 2mm orange envelope of hard min.(gross?) where c/cing dyke
63.98	64.2		W	60	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. + gt. Gt: lt.brn. andr. gt dispersed throughout as coarse grains(4-6mm wide); andr, also in 3mm wide stringer(HA:80) locally zones of high gt.-content contain interstitial lt.green dioside(+/- wo?)
64.02	67.1	99.6																
64.18	64.4		W	50	gt	px	ti	0	0	0	0	0	0	0	0	0	0	Med.-coarse-grained wo., lt.green cut by pxite dyke(wo. grains 4-9mm long). Dyke contains ~80%px., ~15% mel.gt and 5% lt.yellow titanite
64.42	65.2		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	White wo. w/.minor diffuse px.-bearing wo. layers + gt. Gt:lt.brn(andr.)and dk.brn.(mel.) gt dispersed linearly along core(HA:79); diffuse layers contain interstitial diopside
																		Diffuse layers and patches of v.lt.brn.gt (gross.) occur in areas of low lt. + dk. brn. gt concentration
65.22	65.4		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	White + lt.green wo. + gt. Gt: minor amounts of lt.brn. and dk.brn.gt(andr. and mel.) in stringers(1-3mm wide)(HA:76).Lt.brn.gts 2-7mm wide dispersed through wo. matrix. Wo. vein, 6 mm wide w./2 mm wide gross.gt and minor px envelope.
																		Envelope is faint, diffuse; wo. in vein is whiter and coarser than wallrock wo.
65.42	65.7		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Med.-coarse-grained wo.(3-7mm long), white-lt.green color; wo. + gt +px. Gt: minor amounts of dispersed dk.brn. mel.gt. Pxite dykelet: 1-1.5cm wide of predom. px. w./ ~10% mel.gt and ~2% interstitial wo.
65.65	66		W	90	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Lt.green wo. w./ patches of med.green px.-bearing wo.;wo. med.-grained(3mm long XLs). Minor (5%) mel.gt in bands 1.5 cm wide that contain interstitial diopside and wo. Wo. vein 8mm wide,(planar) w./ 1mm wide carbonate envelope(med.green).

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
																		Also, med. green carbonate vein (2 mm wide) w./ 6 mm wide lt.-grey envelope of carbonate
65.99	66.1		G	20	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Gtite layer 4cm wide containing interstitial calcite; gt is dk.brn(mel); layer c/c by calcite vein <1 mm wide. Wo. surrounding it is white and coarse-grained than wo. above
66.1	66.4		W	85	gt	0	0	0	cc	0	0	0	0	0	0	0	0	White-lt.green wo; med-grained 6mm long XLs; contains minor lt.brn.gts interspersed locally (minor dk.brn.gt(mel) also dispersed locally). C/c by 3 mm wide carbonate veins. Dk.-grey calcite veins <1 mm wide w./ 2 mm wide carbonate envelope
66.44	67.1		P	0	gt	px	0	ep	cc	0	0	0	0	0	0	mt	0	Pxite - v.finely Xline <.01mm. Upper part of section includes transition from skarn into pxite. Rock is carbonaceous w./ k-spar pods in px. + carbonate matrix. Contact w./ skarn irreg. w./ zoning + epidote. Pods of magnetite, wo. in pods - v.porous+crumbly.
																		Pxite has pyrite cubes up to 1m. Shearing/ss in core
67.07	73.2	68																
67.07	68.5																	Core loss(assumed)
68.52	70.7		P	0	0	px	ti	0	cc	0	0	0	0	0	0	mt	0	Pxite w./ XLs up to 1-2mm, average - however v.finely Xline pxite. Areas which are magnetite rich. Fr. are frequent + w./ calcite. Titanite wedges locally in clusters; local small wo. pods of few mms.
70.73	71.2																	Core loss(assumed)
71.23	73.2		P	0	0	px	ti	0	0	0	0	0	0	0	0	0	0	Cont. 1.25m from bottom of section to end of section: k-spar saturation (up to 90% of core locally) of pxite - k-spar dykes + interstitial XLs. Some vugging w./ iron stain + crumbly. Titanite + wo. in k-spar locally
73.17	79.8		P	0	0	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite; finely Xline+ locally sheared surfaces(chlorite:). Numerous hairline calcite fractures
79.75	79.9		S?	0	0	px	ti	0	0	0	0	0	0	0	0	0	0	Syenite dyke~8cm wide w./ tiny titanite XLs - c/c'ing + fragmenting pxite
79.93	99.7		P	0	0	px	ti	0	0	qz	0	0	0	0	0	0	0	Pxite - as above. Occasional qtz. fractures (~50mm wide zone at 81.42m of qtz. saturation)
99.66	108		P	0	0	px	0	0	0	0	0	0	py	0	0	0	0	Pxite: XLs elongate to 1-3mm. Pyrite diss.<1
107.9	110		P	0	0	px	0	0	0	0	0	bt	0	0	0	0	0	Pxite: zones of biotite-rich alteration

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
110.3	110.8		P	0	0	px	0	0	0	0	0	bt	0	0	0	0	0	Dyke? of altered px.w./ bi + px. + micas alt. to chlorite, crumbling
110.8	115.1		P	0	0	px	0	0	0	0	0	0	0	0	0	0	0	Pxite - alt. to chlorite
115.1	115.1		S?	0	0	px	0	ep	0	0	0	0	0	0	0	0	0	Two syenite dykes, 1cm wide each; faulted w./ 1.5 cm movement + epidote along fr.
115.1	118.4		P	0	0	px	0	0	0	qz	0	0	0	0	0	0	0	Pxite - alt. to chlorite w./ occasional qtz. in fractures of 1-5cm
118.4	122		P	0	0	px	ti	0	0	qz	0	0	0	0	0	0	0	As above - w./ titanite XLs~1%
	EOH																	EOH

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
BRIL-96-19																		
0	1.52																	casing
1.52	3.05	68																
1.52	2.65		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green fine-grained wo.w./ ~10% gt(lt.brn. + dk.brn.) + ~5% px. Gt and px. dispersed along foliation(HA:30) in layers 1-5mm wide
2.65	3		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke (~85% px., ~15% bk.mel.gts). Gts in layers 1-5mm wide(HA:30). Pxite c/c by 1 mm wide siderite veins(HA:70)
3	3.32		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo.(fine-grained) w./~10% mel.gt, 15%px. Px. occurs as wispy layers 2-10mm wide(HA:75). Gt occurs locally w./in px.layers and in layers 1cm wide w./ interstitial wo.(HA:75). C/c by siderite vein ~ 1 mm wide
3.32	3.4		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke;(~80% px., ~20% lt. + dk.brn.gt). Gt in foliation(HA:25)
3.4	3.65		W	85	gt	px	0	0	0	0	0	0	0	si	0	0	0	White fine-grained wo. w./ ~10%gt(lt.brn.) ~1% px. Gt w./in one 1cm wide barrel w./ interstitial wo.(HA:52). Px. w./in <1mm wide wispy stringer. Three siderite veins <1mm wide(HA:48)
3.65	3.75		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke(~60%px., ~40% gt). Px. interstitial btwn. gt XLs. Gt: dk.brn. cores, lt.brn. rims, occur in clumps
3.75	3.9		W	75	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~20% gt. Gts: lt.brn. + dk.brn. grains 1-3mm wide distributed along foliation(HA:15). C/c by <1mm wide rusty carbonate vein(siderite(HA:60)
3.9	4.66		W	85	gt	px	0	0	cc	0	0	0	0	si	0	0	0	White fine-grained wo. w/ ~5% gt, ~3% px. Gt: w./in four bands 5-7mm wide(HA:45). Px: w./in three stringers 1-4mm wide(HA:12) which look deformed(microfolds); px. also interstitial in gt bands.
																		Wo. c/c by 14 siderite veins <1mm wide(HA:80) and (HA:35). Wo. c/c by 8mm wide lt.green calcite vein(HA:43)
4.66	4.71		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke 5cm wide(~95% px., ~5% gt) Gt: occurs w./in 7mm wide selvage and minor amounts occur w./in dyke.
4.71	6.1		W	90	gt	px	0	0	0	0	0	0	0	si	0	0	0	White wo.(fine-grained) w./~2%gt + ~1% px. Px: dispersed w./in wo. matrix and in srtingers 1mm wide(HA:36). Gt: dk.brn.-blk.(mel.) w./in 2 stringers 5-10mm wide (HA:56) w./ minor interstitial wo. 3 siderite veins <1 mm wide(HA:65)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
6.1	9.15	96.7																
6.1	6.6		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo.(fine-grained) ~5% px., ~15% gt. Gt: w./in 1 irreg. 2.5-4cm wide gтите layer(HA:80). Px: occurs w./in interstices w./in gтите layers + finely dispersed w./ wo. matrix. Minor lt.orange gt(gross.) w./in wo. matrix
6.6	6.73		W	98	0	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ 0% gt and 2% px. Px: two faint stringers 2mm wide(HA:72)
6.73	6.83		C	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Calc-silicate layer w./ ~40% gt, ~60% px. Gt: irreg. clump 3x5 cm wide. Px: surrounds gt clump
6.83	6.9		P	0	gt	px	0	0	cc	0	0	0	py	0	0	0	0	Pxite dyke; ~95% px., ~5% rusted-out pyrite. Pxite c/c by microveinlets of calcite(HA:47)
6.9	7.08		W	55	gt	0	0	0	0	0	0	0	0	0	0	0	0	White wo.(fine-grained) w./ ~40% gt. Gt: lt. brn and dk.brn. along (HA:07)
7.08	7.33		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~1% px., ~5% gt. Px: w./in one 4mm wide px. layer(HA:40). Gt: lt.brn. gt grains 2mm wide scattered along(HA:35)
7.33	7.68		W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	White wo.(fine-grained) w./~4% gt. Gt: 12mm wide layer (HA:72) w./ interstitial wo.(layer is folded w./ inter limb A:40deg.
7.68	7.72		P	0	0	px	0	0	0	0	0	0	py	0	0	0	0	Pxite dykelet 2cm wide(~90% px., ~10% rusted out py) c/c by 5 mm wide calcite vein parallel to HA;49
7.72	8.19		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	White extremely fine-grained wo. w./ ~1% gt, ~1% px. Gt: two <1-6mm wide layer of lt.brn. gt(HA:40) and (HA:60). Wo. contains five calcite veins 1-5 mm wide(HA:62). Px: interstitial in (HA:60) gt layer
8.19	8.29		P	0	0	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite dyke ~7cm wide(HA:36) w./ ~10% cc. Pxite c/c by 1-3 mm wide calcite veins parallel to HA:36
8.29	8.53		W	55	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White wo. w./~35% px. + ~5% gt. Px: diss. w./in wo. matrix along (HA:55). Gt: occurs only at beginning of section distribute along fracture parallel to (HA:55). Wo. is c/c by <1 mm wide calcite veins(HA:43)
8.53	8.85		G	5	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Lt.brn. gтите layer(HA:60). Gt: massive dk.brn. patches(mel.) c/c by network of 1 mm wide lt.brn grt(andr.?)veinlets. Gt c/c by 1-3 mm wide lt grey calcite veins(HA:30). One patch of wo.(1x3cm wide)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS	
8.85	9.1		W	15	gt	0	0	0	cc	qz	0	0	0	0	0	0	0	0	Sheared-out zone contains <1-3mm wide layers(all parallel) of wo. + gt + cc + chert;(HA:03)
9.1	10.1		W	80	gt	px	0	0	0	0	0	0	0	si	0	0	0	0	White fine-grained wo. w/ ~10% px., ~5% gt. Px: dispersed w./in wo. matrix + w./in 8 px. layers 5-15mm wide(HA:40).Gt: dk.brn. gt occurs w./in 3 px. layers as 1-2mm wide selvages. Lt.brn.gt as 6mm wide band (HA:29). Wo. c/c by 4 <1mm wide siderite veins
9.15	12.2	99.6																	
10.06	10.2		W	65	gt	px	0	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w/ ~30% px., ~1% gt. Px: w./in 7 layers 1-7mm wide(HA:30) and with wispy lt.green (px. + wo.) bands parallel to HA:30. Gt: dk.brn. w./in vein 8mm wide(HA:50)
10.21	10.3		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke:(HA:30) w./ ~90% px., ~10% gt. Gt: drk-brn w/in vein 8 mm wide(HA:58)
10.26	10.6		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~5% px. ~5% gt. Px: w./in 4 bands 3-8mm wide (HA:21). Gt: dk.brn. occurs as 1mm wide selvage in 3 px. layers as a gt clump(1x1.5cm), and as 2 layers 5-15mm wide(HA:40)
10.61	10.7		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke: 7cm wide (HA:30). Pxite ~95% px. and ~5% mel.gt. Mel.gt: dk.brn. occurs w./in 1-2mm wide selvage of dyke and in minor amounts w./in dyke
10.71	10.8		W	99	0	px	0	0	0	0	0	0	0	0	0	0	0	0	White-lt.green med.-grained wo.(~5mm long XLs) w./~1% px. Px: one 3mm wide stringer(HA:45)
10.78	10.9		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	0	White med-grained wo. w./ ~25% gt. Gt: round pods of dk.brn. gt(mel)(1x3cm) distributed parallel to (HA:39); pods of gt are cored by white med.-grained wo.(cores ~7-8mm wide 2.5cm long); locally gt grades from dk.-lt.brn
10.88	11.1		W	94	gt	px	0	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~5% px. <1% gt. Px: white wo. is interlayered w/ lt.green wo. layers which contain minor amts. of px.; layers are 2-3cm wide(HA:35). Gt: minor amts of orange gt(gross) dispersed parallel to (HA:35)
11.13	11.3		P	0	gt	px	0	0	cc	0	0	0	0	0	0	0	0	0	Pxite dyke w./ ~55% px. ~45% gt. Gt: dispersed throughout dyke. Px: interstitial. C/c by 3 calcite veinlets <<1 mm wide(HA:42)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
11.29	11.5		W	85	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~10% px., ~3% gt. Px: dispersed fine grains w./in bands of wo. 1-12 mm wide(HA:42). Gt: lt.brn. grains 1mm wide dispersed parallel to px.-wo. bands(HA:42). 1 calcite vein <1 mm wide(HA:55)
11.45	11.6		P	5	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite dyke ~12cm wide(HA:50) w./~ 90% px., ~10% gt. Gt: occurs along 1cm wide selvage and in minor amts. w./in dyke. Px: interstitial btwn gt grains. Dyke contains wo. XLs w./in 2cm inside dyke. Dyke is c/c by calcite veins 1 mm wide(HA:46)
11.61	11.7		W	65	gt	px	0	0	0	0	0	0	0	0	0	0	0	White wo.(fine-grained) w./ ~20% px., ~5% gt. Px: w./in bands 1-2mm wide (HA:42). Gt: w./in segmented layer 3mm wide(HA:42)
11.66	12		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~5% px., ~2% gt. Px: w./in 3 px. bands 5 mm wide(HA:40) and distributed parallel to (HA:45) w./in wo. matrix. Gt: distributed w./in wo. matrix along 3 bands 1-1.5 cm wide parallel to (HA:45)
12.01	12.2		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo w./ 15% px., 3% gt. Px: diss. w./in wo. matrix. Gt: lt.brn.(andr.) as 1-1.8 cm wide layer(HA:65). Layer of med.-grained wo. 4cm wide(HA:32)
12.18	12.2		P	5	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke w./ 90% px., ~10% mel.gt. Gt: dk.brn. gt(mel.) grains 5mm wide dispersed w./in dyke. Dyke c/c by < 1 mm wide white veinlets of wo.
12.2	15.2	90.8																
12.22	12.4		W	95	gt	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~2% px., ~1% gt. Px: dispersed w./in wo. matrix. gt: distributed along 2 layers 1-2mm wide(HA:25)
12.41	12.4		P	5	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite layer ~90% px., ~10% gt. Gt: dispersed dk.brn. grains(1x4mm w./in px. matrix). 8x9 mm wide patch of wo.
12.43	12.7		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~5%px., ~10% gt. Px: w./in wo. matrix in diffuse bands 2mm wide and in one 8mm wide px. layer(HA:15). Gt: dk.brn. gt distributed w./in px. layer(described above); mel.gt in wispy layers 1cm wide(HA:48).
																		Lt. brn.gt(gross) dispersed parallel to (HA:48). 1 cm wide layer of coarse white wo.(HA:10)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
12.66	12.8		W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. w./ ~2% gt. Gt: lt.orange(gross.) gt in 1-2mm wide veinlets(HA:35). Wo. c/c by siderite vein <1 mm wide(HA:85)
12.78	12.9		W	65	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White wo.(fine-grained) w./~25% px., ~5% gt. Px: w./in layers (HA:20) 1-4mm wide. Mel.gt: dk.brn. gt(mel.) dispersed parallel to (HA:20) w./in one layer 2mm wide. C/c by rusty carbonate vein(HA:32)
12.88	13		W	95	0	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~3% px. dispersed w./in wo. matrix
12.98	13.1		W	85	gt	0	0	0	cc	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~15% gt. Gt: lt.+ dk.brn. gt dispersed along foliation(HA:50). Wo. c/c by 7 mm wide rusty carbonate vein(HA:85)
13.08	13.2		W	10	gt	px	0	0	0	0	0	0	0	0	0	0	0	White wo.(fine-grained) w./~60% px., and ~20% gt. Px: dispersed w./in wo. matrix. Gt: distributed along foliation(HA:35)
13.15	13.4		W	95	gt	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./~<1% px., ~1% gt. Px: w./in 1-2mm wide wispy layers(HA:17). Gt: wo.and px. layers are c/c by 1mm wide lt.brn. gt vein(HA:59)
13.36	13.7		W	85	gt	0	0	0	0	0	0	0	0	0	0	0	0	White coarse wo.(XLs 1-2.4cm long) w./~15% gt. Gt: dk.brn. gt w./in 3 layers(HA:75, 39) 1-2 cm wide
13.70	14		W	55	gt	0	0	0	cc	0	0	0	0	0	0	0	0	White wo.(fine-grained) w./ ~45% gt. Gt: lt.brn.(andr?) gt(massive) w./ interstitial wo. Wo. + gt c/c by <<1 mm wide calcite veins(HA:45)
13.97	14.2		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green(fine-grained) wo. w./~20% gt. Gt: lt.brn. grains 2-3mm wide scattered parallel to (HA:35). Lt.green color of wo. indicates presence of px.
14.22	14.3		G	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Gtite layer w./~ 15% px. (HA:05). Gt: massive lt-dk.brn. mel. gt containing 2-4mm wide px. layers(HA:05)
14.32	15.3		W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~10% px., ~15% gt. Px: distributed along bands ~9cm wide(light green wo. bands (HA:45). Gt: dispersed 1mm wide dk.brn. grains w./in wo. matrix and w./in 5-10 mm wide (HA:45) gtite layers which are parallel to green wo. bands. One gt layer is discordant (HA:40)(5mm wide)
15.24	18.3	99.6																
15.3	15.5		W	85	gt	0	0	0	0	0	0	0	0	0	0	0	0	White-lt.green fine-grained wo. w./ ~10% gt. Gt: lt.brn(andr?) gt dispersed grains 1mm wide w./in wo. matrix parallel to HA:10

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
15.47	15.5		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. w./ same gt content and texture as above; greener color reflects higher wo. content(~5% px. w./in wo.)
15.53	15.7		G	10	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.brn. massive gтите layer w./ interstitial wo. and ~5% px. w./in the wo. Remnants of a mel.gt + px. layer 1.5 cm wide w./in Lt.brn(andr?) layer(HA:70)
15.66	15.7		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke ~4cm wide w./ ~15% gt, 10% px. Gt: dk.brn. grains concentrated along downhole end of dyke forming a 1cm wide layer
15.71	16.2		W	70	gt	px	0	0	cc	0	0	0	0	si	0	0	0	Lt.green-grey fine-grained wo. w./ ~15% gt, 10% px. Gt: dk.brn. grains 4mm wide dispersed evenly w./in wo. matrix; 3 gt layers 2-4cm wide(HA:10). Px: occurs in interstices in gтите layers.
																		Gt layer c/c by 1mm wide calcite vein which has a 2-3mm wide envelope of orange gross. gt. Wo. +px. + gt is c/c by white 2mm wide wo. veins (HA:35)
16.16	16.3		G	20	gt	0	0	0	0	0	0	0	0	0	0	0	0	Lt.-dk.brn. gтите layer ~8cm long w./ ~20% lt.green wo. in interstices fo gt grains(HA:30)
16.26	16.3		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green fine-grained wo. w./~5% px. and 4% gt. Px: interspersed w./in wo. matrix. Gt: dk.brn. 1mm wide grains dispersed w./in wo. matrix parallel to HA:45
16.33	16.5		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w. ~1%px., 4% gt.Px: interspersed w./ wo. in diffuse bands(1cm wide) parallel to (HA:20); in one layer 5mm wide(HA:14). Gt: w./in 4 dk.brn. veinlets(1-5mm wide)(HA:20)(melanite).
																		Adjacent to these veins are 1-5mm wide cream-colreed veins parallel to(HA:20)(fine-grained gross. gt?)
16.47	16.7		W	25	gt	px	0	0	0	0	0	0	0	0	0	0	0	Gтите layer w./ ~25% lt.green fine-grained wo. Gts: massive, lt + dk. brn. gt w./ minor interstitial wo. + px; wo. in 6cm wide irreg. layer
16.69	17.4		W	75	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Lt.green wo. w./ ~15% gt, ~5%px. Px: interspersed w./in wo. matrix. Gt: lt. + dk. brn. mel.gt dispersed parallel to(HA:35) and in 3 layers 1cm wide parallel to (HA:35). Wo. c/c by<1mm wide dk.grey cc layers(HA:40).Wo. c/c by 4 mm wide woll. vein(HA:35)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
17.39	17.4		W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	Lt. green fine-grained wo. (w./~3% gt) which is interlayered w./ white-lt. grey coarse wo. (5-10mm long XLs)(coarse wo. layers 5cm wide; HA:28). ~2% px. w./in wo. layers
17.43	17.5		W	75	gt	0	0	0	0	0	0	0	0	0	0	0	0	Lt. green wo. w./ ~20% gt. Gt: lt. brn. massive irreg. layer 2cm wide(HA:20) which contains a 5mm wide irreg. core of white wo.
17.48	17.6		W	85	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. green fine-grained wo. interlayered w./ white med.-grained wo. layers 9-12mm wide(HA:12) w./ ~10% mel. gt. Gt: lt. + dk. brn. gt(mel) grains 3mm wide dispersed parallel to wo. layering(HA:12). C/c by 1 mm wide dk. brn carbonate vein(HA:55)
17.61	17.9		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt. green fine-grained wo. w./ ~5% ght, ~1% px. Gt: dk. brn. gts 2-4mm wide dispersed w./in wo. matrix parallel to HA:12. Px: 2 wispy layers w./in wo.
17.91	18		G	10	gt	0	0	0	0	0	0	0	0	0	0	0	0	Gtite layer w./ ~10% white fine-grained wo. w./ 2-6mm wide veins(HA:70) which c/c gt and in interstices of gt grains. Gt: massive lt. brn, gt layer 3cm wide(HA:70) interlayered w./ 3cm wide dk. brn. coarse-grained gt layer.
																		Gt. layer parallel to (HA:70) and containing interstitial wo.
18.02	18.2		W	65	gt	0	0	0	0	0	0	0	0	0	0	0	0	White coarse wo. w./ ~30% gt. Gt: dk. brn. fine-grained gt w./interstitial wo. in irreg. clumps(1x2cm) and in irreg. patches of massive lt. brn. gt c/c by white wo. veins. gt c/c by white woll. veins
18.22	18.3		W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	Lt. green fine-grained wo. ~5% gt. Gt: lt. brn. gt(mel) grains 2-4mm wide dispersed w./in wo. matrix
18.29	21.3	96																
18.28	18.5		W	25	gt	px	0	0	0	0	0	0	0	0	0	0	0	Gtite layer ~15cm wide(HA:45) w./~25% white coarse wo. pods w./in it 2x4 cm wide. Lt. brn. gt layer 6cm wide(HA:65) in contact w./ ~9cm wide dk. brn. layer. Gtite c/c by 2 calcite veins 1mm wide(HA:28)
18.48	18.6		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite w./ ~90% px. ~10% mel. gt. Gt: minor amts. concentrated w./in a 1cm wide envelope which is in contact w./ wo.
18.64	18.7		W	80	gt	0	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~20% mel. gt. Gt: dispersed fine grains w./in wo. matrix(dk. brn. grains - melanite)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
18.69	18.9		P	0	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite dyke: ~90% px., 10% melgt. Gt: dk.brn. mel.gt grains 1-3mm long dispersed w./in px. matrix; pxite c/c by 2 mm wide lt-grey calcite vein(HA:55)
18.85	19		G	20	gt	0	0	0	0	0	0	0	0	0	0	0	0	Gtite layer; ~80% gt, ~20% wo. Gt is massive and wo. occurs as 1x3cm white coarse wo. patches and as dispersed w./in gt matrix
18.98	19.1		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke:~90% px., ~10%mel.gt. Melgt: dk.brn.gt occurs w./in 1cm wide selvage of dyke and in minor amts. w./in pxite
19.08	19.1		W	80	gt	0	0	0	0	0	0	0	0	0	0	0	0	White coarse wo. w./ ~15% gt. Gt: two 2mm wide bands of lt. + dk.brn. gt(HA:66)
19.14	19.2		G	5	gt	0	0	0	0	0	0	0	0	0	0	0	0	Gtite layer; ~95% lt.brn.gt(andr?) ~55 wo. Gt is massive but locally occur in interstices
19.21	19.4		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.grey coarse wo.(XLS9-12mm long).Wo. c/c by pxite dyke 1.5cm wide(HA:40) which contains 1cm wide core of 90% px. +5% mel.gt and rims 2-3mm wide of dk. brn.mel.gt
19.43	20		W	30	gt	0	0	0	0	0	0	0	0	0	0	0	0	Gtite layer; fine-grained lt. and med.brn. gt layer(HA:65); contains ~30% wo. w./in pockets 8-10cm long and 3-8vm wide of white coarse-grained wo.
20.03	20.2		W	80	gt	0	0	0	0	0	0	0	0	0	0	0	0	Lt.green fine-grained wo. w./ ~15% gt. Gt: lt.brn. and v.lt.brn.gt(andr.) grains 2-4mm wide dispersed w./in wo. matrix
20.16	21.2		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green coarse(5-10mm long XLs)grained wo. w./ ~19%px., 1% gt. Px: w./in layers 2-4mm wide(HA:32) and in diffuse green wo. layers 6 cm wide parallel to (HA:32). Gt: minor amts. of 2mm wide gt grains dispersed at 21.20m
21.34	24.4	98																
21.21	21.5		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green corse wo. w./ ~10% gt, ~5% px. Gt: grains 1-4mm wide w./ lt.brn. cores and dk.brn. rims dispersed w./in wo. matrix parallel to HA:30. Px: dispersed w./in lt.green wo. layers (2-4mm wide)(HA:15)
21.52	22.4		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. w./ ~15%px., <1% gt. Px: w./in wispy lays 3-4mm wide(HA:30) and w./in wo. dispersed on a microscopic scale. Gt: 2 veinlets < 1mm wide(HA:30) with px cores and <<1 mm wide mel -grt envelopes

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
22.35	22.4		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green fine-grained wo. w./ ~10% gt and 5% px. Gt: dispersed dk.brn. and lt.brn. mel.grains 4-9mm wide dispersed w./in wo. matrix(HA:40). Px: 2 pxite dykes 2 and 10mm wide (HA:42, 60) which contain px. in interstices of mel.gt
22.42	22.8		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green fine-grained wo. w./ ~5% mel.gt and 2% px. Mel.gt: dk.brn. gt layers 1-1.2cm wide (HA:30, 50) which contain ~90% mel.gt and 10% interstitial px.
22.76	22.8		G	10	gt	0	0	0	0	0	0	0	0	0	0	0	0	Gtite layer 3cm wide(HA:58); massive lt.brn.(andr.) gt containing veinlets 3 mm wide of wide wo.
22.82	23		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green fine-grained wo. w./ 5% gt + 2% px. Gt: 1 layer 1.5cm wide of lt.brn. massive(andr?) gt(HA:52). ~2% px. w./in diffuse green wo. patch(1x3cm)
22.98	23.4		W	75	gt	0	0	0	0	0	0	0	0	0	0	0	0	Lt.green coarse-grained wo.(XLs 5-8mm long) w./~20% lt.brn. gt which occurs as massive irreg. clumps and layers(3cm wide;HA:62) w./in wo. matrix.Wo. c/c by 2cm wide dk.-grey calcite vein(HA:70),which has orange envelope when cutting lt.brn.gt(andr-gross?)
23.38	23.6		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke(~65%px., ~35% gt). Gt: massive clumps 1cm wide throughout px. matrix. Px: v.fine-grained and interstitial. Pxite c/c by < 1 mm wide calcite veins(HA:58)
23.61	23.7		W	50	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White coarse-grained wo. (XLs 5-8mm long) w./ ~20% px. and 20% mel.gt. Px: interstitial btwn wo. grains.Gt:2mm wide grains of dk. brn.gt dispersed evenly w./in wo. Section c/c by 3 mm wide calcite vein with 8 mm wide envelope of px.
23.74	24		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke(70% px. + 30% gt). Gt: dk.brn. gt occurs in layers 1cm wide (HA:45)
23.95	24.4		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt green fine-grained wo. w./ 3 pxite dykes(HA:48) 1-2cm wide containing 1cm wide px.-rich core w./ a 1-2mm wide lt.brn(andr?) rim. ~10% lt.brn. gt occurs w./in wo. as 3-4mm wide clumps aligned parallel to(HA:18)
24.39	27.4	99																
24.43	24.8		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke(95%px., 5% mel.gt). Gt: w./in 1.1cm wide selvage of dyke

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
24.78	25.7		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo.(fine-grained) w./ ~10% mel.gt ~2% px. wo. Gt: 1x4mm clumps of dk.brn. mel.gt dispersed parallel to (HA:18) and 2 massive mel.gt layers 5mm and 1.5 cm (HA:29). Wo. c/c by 1 pxite dyke 4 cm wide w./2.9cm px.core and 6mm mel.gt envelope
25.72	25.9		W	95	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White-lt.green fine-grained wo. w./ ~1% px. Gt: dk.brn. veins 2-3mm wide scattered w./in wo. matrix. Px: microscopic grains dispersed w./in wo. matrix. Wo.c/c by 1 calcite vein 3mm wide(HA:15)
25.92	26		W	65	gt	0	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./~35% gt. Gt: dk.brn. gt veins 5-9mm wide(HA:15). Lt.brn. gt grains (1x2mm) dispersed parallel to(HA:15)
26	26.3		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke w./ ~95% px., ~5% gt. Gt: gt-rich laminations <<1mm wide(HA:20) (gt is black)
26.3	27.1		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. w./ ~15% px., 10% gt. Px: 2-5cm wide px. layer rich zones conatining 1cm wide px. layers(HA:18); px. in 1mm wide wispy layers parallel to (HA:18). Gt: dk.brn. layers 5-10mm wide(HA:40); gt also in 2mm wide layers interlayered w./ px.
27.14	27.8		S	0	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Syenite dyke: ~85% k-spar, ~5% px., ~10% gt; massive k-spar w./3 px. patches(1x4cm) and dk.brn. mel.gt grains <1mm wide dispersed w./in k-spar matrix parallel to (HA:75)
27.44	30.5	95.7																
27.83	27.9		W	85	gt	0	0	0	cc	0	0	0	0	0	0	0	0	White-lt.green fine-grained wo. w./ ~10% dk.brn. melgt which occurs as 6-9mm wide patches aligned parallel to (HA:10). 1 irreg. 5mm wide calcite veinlet(HA:70)
27.92	28		S	0	0	px	0	0	cc	0	fd	0	py	0	0	0	0	Syenite dyke w./ ~90% k-spar, 1% pyrite, ~9% px. C/c by <<1 mm wide veinlets of white calcite in network
28.01	28.2		P	0	gt	px	0	0	cc	qz	0	0	0	0	0	0	0	Dk.green sheared-out zone;(1x3cm) lt.grey qtz. banding surrounded by<1mm wide px. layers interlayered w./ qtz. layers and calcite layers
28.19	28.2		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. w./ ~20% gt, ~3% px. Gt: dk.brn. gt (mel) grains 2-3mm wide dispersed throughout wo. matrix parallel to(HA:46). Px: v.fine grains dispersed w./in wo. matrix
28.23	28.3		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	Sheared out zone; same as described above

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
28.28	28.9		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~15% px., 2% gt. Px: w./in massive px. layers 5-12mm wide(HA:18). Gt: in one 4mm wide med.brn. gt layer(HA:48) and as 2mm wide dk.brn gt grains dispersed parallel to (HA:48)
28.88	29.2		C	20	gt	px	0	0	0	0	0	0	0	0	0	0	0	Calc-silicate layer of ~50% gt, ~30% px. ~20% wo. Gt: med.brn grains 2-10mm wide scattered throughout parallel to(HA:24). Wo: interstitial btwn, gt is wo.-bearing zones. Px: interstitial btwn. gt in px. -bearing zones
29.21	31.8		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. coarse + fine-grained wo. w./ ~5%px., ~5% gt. Px: in faint wispy layers 1cm wide(HA:50). Gt: 2 layers 4 and 6cm wide(HA:28, 609) lt.brn. color(andr.) predominantly but 1 cm wide band in HA:66 layer is dk.brn.(mel.)
																		Wo. is coarse-grained except from 30.30-30.70m where it is fine-grained; (coarse wo., 2cm long XLs)
30.49	33.5	99.3																
31.82	32.9		P	7	gt	px	0	0	0	0	0	0	0	0	0	0	ap	Pxite dyke w./ 90% px., ~7% mel.gt, 3% apatite. Gt: dk.brn gt(mel.) dispersed in 1cm wide clumps and a few grains w./in px. matrix parallel to HA:35. Px. dyke contains pod of lt.green coarse wo. 8cm wide.
32.94	34		W	90	gt	px	0	0	cc	qz	0	0	0	0	0	0	0	White-lt.green coarse-grained wo.(XLs up to 2cm long) w./ ~5% px., ~1% gt. Px: w./in 1-10mm wide px. layers(HA:30). Gt: 3-4mm wide layer(HA:50). Wo. is c/c by 1.2 cm wide qtz vein(HA:80) which has a 2mm wide lt.green carbonate envelope
33.54	36.6	94																
34.01	34.3		W	60	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. w./ ~20% px., ~15% gt. Px: dispersed microscopic grains w./in wo. matrix and in one 1cm wide pxite dyke(HA:44). Gt: 2-7mm wide lt.-dk.brn. gt grains dispersed w./in wo. matrix and in 4cm wide layer(HA:45) at 34.01m
34.31	34.9		P	0	0	px	0	0	0	0	0	bt	py	0	0	0	0	Pxite dyke w./ 80% px., ~20% bt, trace pyrite
34.85	35.2		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.geen coarse-grained wo.(5mm long XLs) w./ 10% px., 10% gt. Px: 1 pxite dyke 1x5? cm wide (HA:20). Gt: two gt dykes(dk.brn. gt-mel.) 1.5 3cm wide, gt w./in wo. matrix as fine grains

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
35.2	35.7		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green fine-grained wo. w./ ~5% px., ~5%gt. Px: w./in 1 pxite dyke 1cm wide(HA:60), w./in px. layer 1cm wide(HA:32). Gt: dk.brn. 3mm wide mel.gt layers(HA:64)
35.7	36.3		W	15	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.brn. gtite layer w./ ~15% wo., ~20% px. Wo. is interstitial throughout layer. Px: occurs in discrete layer 2.8cm wide(HA:80). Gt: predominantly lt.brn.(andr?) and locally dk.brn.(mel.)
36.3	36.7		W	80	gt	0	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. w./ ~20% gt. Gt: <1-2mm wide grains of lt.brn.(andr.) gt dispersed w./in wo. matrix parallel to (HA:30); texture grades from slight alignment to sheared texture going towards down hole.
36.59	39.6	99.7																
36.69	37.6		W	10	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Gtite layer w./ ~40%gt, ~45%px., ~5% k-spar 10% wo. Dk.brn. mel. gt is concentrated in first half of section and has interstitial px. Med.green px. is concentrated in second half of section and contains 3 gtite layers 5-20mm wide(HA:48). Section is c/c by 0.5-1.5cm wide k-spar vein(HA:89). Section contains 10cm wide pod of(wo. + mel.gt)
37.59	37.9		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green-lt.grey coarse wo.(3cm wide XLs) w./ ~10% gt, ~3% px. Gt: in 3 layers 1-1.3 cm wide(HA:30, 75). One gt layer w./ core of white wo. + rim of mel.gt 1mm wide. Px: w./in 1 gt layer in interstices
37.94	39.7		W	40	gt	px	0	0	0	0	0	0	0	0	0	0	0	Calc-silicate layer w./~30%gt, ~30% px., ~40%wo. Gt: <1-1mm wide grains of dk.brn. gt dispersed evenly throughout section. Px: occurs in interstices btwn. gt grains. Wo.: occurs in interstices btwn. gt grains and in ~10 pure wo. pockets(1x3cm wide). From 37.94-38.14 gts are coarse-grained(1.2cm wide grains); minor foliation in layering(HA:40)
39.63	42.7	99.7																
39.73	39.9		W	70	gt	px	0	0	0	0	fd	0	0	0	0	0	0	White coarse-grained wo.(XLs 4-6mm long) w./ 10% gt, 15% px. Gt: 2 layers 1 and 2cm wide(HA:29) of lt.brn(andr?) gt. 1 layer of blk. mel.gt 1cm wide parallel to (HA:29) w./ interstitial wo.Px: 2cm wide layer parallel to (HA:29). Wo c/c by 6mm wide k-spar vein(HA:55) which has wo. growing in it

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
39.93	40.2		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. w./ ~15% gt, 5% px. which is well foliated(HA:25). Gt: 2-3mm wide dk.brn.gt grains dispersed throughout section parallel to (HA:25). Px: interstitial btwn. gt grains and dispersed w./in wo. matrix
40.23	40.8		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green fine-grained wo. w./ 10% gt, ~5% px. Gt: lt.brn. 2-5mm wide grains of gt dispersed throughout section parallel to (HA:30). Px: w./in wo. matrix dispersed on a microscopic scale
40.77	40.9		W	95	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green fine and coarse-grained wo. w./ ~2%gt, 3% px. scattered w./in wo. matrix parallel to (HA:47). Px: microscopic grains w./in matrix
40.87	41		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~10% px., ~5% gt. Px: w./in (1x2cm) patches aligned parallel to(HA:44). Gt: 1-2mm wide dk.brn. grains dispersed parallel to px. patches
41	41.2		P	0	gt	px	0	ep	0	0	0	0	0	0	0	0	0	Dk.green pxite dyke(HA:38) w./ sheared texture defined by px. grains; pxite:(35%k-spar,60%px.,5%epidote), pxite dyke is 6.5cm wide; contains 4cm wide gtite envelope(gt:dk.brn.mel.gt grains surrounded by lt.brn.gt)(andr. after mel?)
41.2	41.4		W	65	gt	0	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~35% gt in 1-3cm wide layers(HA:50) w./ interstitial wo.
41.35	41.8		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. w./ ~10% px., ~5% gt(wo 2-6mm long). Px: 3-15cm wide px. layers w./ interstitial wo.(HA:60). Gt: 2-25mm wide layers of dk.brn. gt(mel.)(HA:50)
41.8	42.4		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green coarse-grained wo.(5-10mm long XLs) w./ ~7% px., ~3% gt. Px: wispy patches(1x5mm) aligned parallel to(HA:55). Gt: in irreg. patches(1x2cm) and as fine grains poorly aligned to (HA:55)
42.38	42.7		W	45	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green finer wo. c/c by 2.5 cm wide pxite dyke(HA:89). Pxite: ~90% px. ~70% mel.gt. Gt: dk.brn. mel. concentrated along 2-5mm wide envelope of dyke
42.68	45.7	98																
42.68	42.8		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke;(70% px., ~30% mel.gt); has 2cm wide selvage of lt.brn.(andr.) gt(HA:30)
42.78	43.2		W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	White-lt.green fine-grained wo. w./ ~5% gt. Gt: 1-3mm wide dk.brn. gt(mel.) grains dispersed w./in wo. matrix poorly aligned to (HA:42)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
43.21	44.1		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	White -lt.green fine-grained wo. w./ ~15% gt, 2%px. Gt: 5 lt.brn.(andr.) massive layers 5-8mm wide(HA:80, 20); gt also as 2mm wide lt.brn. grains dispersed w./in wo. matrix. Px: one 4mm wide layer(HA:40)
44.11	44.3		W	55	gt	px	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ ~35% gt, ~5% px. w./ sheared texture. Gt: w./in layers 1-8m wide(HA:22). One 2mm wide qtz. vein(HA:29). Px: 1 layer 3mm wide parallel to (HA:22)
44.27	44.9		P	0	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Pxite dyke(92% px., 8% mel.gt). C/c by 3 k-spar veins(HA:30) 3-4mm wide. C/c by one 2mm lt-brn gt vein(andr?)(HA:52) which c/c's k-spar vein(andr. after k-spar). C/c by 3 <1 mm white epidote veins(HA:40)
44.93	45.6		S	0	0	px	0	ep	cc	0	fd	0	0	0	0	0	0	Trachytic k-spar dyke w./ ~90% phenocrysts, ~2% px., ~3% ep. Alignment of k-spar XLs(HA:28). K-spar: XLs 1cm long avg. and up to 3cm long. Px. and epidote is interstitial. C/c by 0.5mm wide dk.grey(albite?) veins.
																		These veins have 1mm wide med.grey envelopes(HA:52, 70, 75). C/c by <1mm wide epidote veins(HA:87, 25). C/c by 1mm wide rusty(hematite?) carbonate vein(HA:70)
45.56	45.9		W	95	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green coarse-grained wo. w./ ~3% gt, ~2% px. Px: 2x5mm wide patches of px. w./in wo. matrix poorly aligned parallel to (HA:70). Gt: Two 1mm wide med.brn. gt veins(HA:20) and two 1cm wide massive med.brn. gt layers(HA:29)c/c by lt.brn. gt microveinlets
45.73	48.8	99.7																
45.89	46.5		S	0	gt	0	0	ep	0	0	fd	0	py	0	0	0	0	Lt.grey trachytic syenite dyke(HA:55) w./~85% k-spar, ~5% gt, ~5% epidote. K-spar:XLs 1.5 cm long and up to 3cm long, grains aligned parallel to(HA:40). Gt locally occurs as 1x1cm wide grains.Ep:interstitial btwn. k-spar grains and in <<1mm veinlets(HA:30).
																		Dyke contains 3 layers of dk.green px.-rich syenite(55% k-spar, 44%px., 1%py) 4cm wide(HA:75)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
46.47	46.6		G	5	gt	0	0	0	0	0	0	0	0	0	0	0	0	Gtite layer(~95% gt, ~5% wo.). Gt: med.brn. gt c/c and surrounded by lt.brn.gt; dk.brn. gt occurs in 2mm wide layer which separates px-syenite patch(descr. above) and gtite
46.62	46.8		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green coarse wo.(4mm long XLs) w./ ~10%gt, ~4% px. Gt: w./in layers 3-4mm wide(HA:30). Px: (px. + wo.) layer 5mm wide(HA:32), the gt is lt.brn(andr.) and locally v.lt.brn.(gross?) and dk.brn.(mel.)
46.82	47.1		W	75	gt	0	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. fine-grained w./~25% gt. Gt: lt.brn. in 5-8cm wide massive layers(HA:30)
47.07	47.3		W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo.(fine-grained) w./ ~5% gt. Gt: med.brn.(mel.) gt grains 1mm wide dispersed w./in wo. matrix
47.33	48.6		W	85	gt	px	0	0	0	qz	0	0	0	0	0	0	0	White-lt.green wo. coarse-grained(XLs up to 4cm long; avg.1cm) w./ ~10% px., 5% gt. Px: w./in bands 8mm wide (HA:40) and w./in 7mm wide massive px. layers(HA:60).
																		Gt: w./in three 5mm wide layers of dk.brn. gt w./ interstitial wo.(HA:40) and w./in one 2.8cm wide massive gt layer(med.brn.)(HA:45). C/c by three 1mm wide qtz. veins
48.63	48.8		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green fine-grained wo.w./ ~20% gt, ~5% px. Gt: in irreg. patch ~10cm wide of dk.brn. mel.gt and med.brn. gt(andr?). Px: locally occurs in btwn. gt grains
48.78	51.8	97																
48.82	48.9		G	0	gt	px	0	0	0	qz	0	0	0	0	0	0	0	Lt. brn. gtite layer(~95%gt, ~5%px.). Gt: lt.brn. and massive, gtite is c/c by qtz veins 1-2 mm wide(HA:69,80)
48.92	49.3		S	0	gt	px	0	0	ep	0	fd	0	0	0	0	0	0	Syenite dyke w./ ~90% massive k-spar, 6% white phase(silica undersaturated phase?) ~4% epidote
49.28	50.2		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green coarse-grained wo. (XLs 8mm long) w./~2%gt, ~5%px. Gt: one 6mm wide broken up layer of lt.brn. gt(HA:35). Px: 5mm wide px.-rich layers(HA:50). Wo. c/c by 1 mm wide carbonate vein(lt.grey;HA:70)
50.18	50.3		G	5	gt	0	0	0	0	0	0	0	0	0	0	0	0	Massive gtite layer(HA:50) ~15cm wide; w./ dk.brn. gt and interstitial wo. One layer 1.4cm wide of lt.brn.(andr?) gt(HA:80)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
50.25	50.5		W	80	gt	px	0	ep	0	0	fd	0	0	0	0	0	0	White fine-grained wo. w./ ~10% gt, ~2%px. Gt: dk.brn. gt w./in 5mm wide layers(HA:40) and 2-3 mm wide grains dispersed w./in wo. matrix. Px: interstitial in one gt layer. Wo. is c/c by 4 cm wide syenite dyke(HA:30) w./ ~95% k-spar XLs(6mm long), and ~5% interstitial epidote; alignment of k-spar parallel to (HA:30)
50.53	50.7		S	0	gt	px	0	0	0	0	fd	0	0	0	0	mt	0	Dk. grey massive syenite(~95% k-spar, 1% gt, 1% px, 3% magnetite), c/c by << 1 mm wide epidote vein(HA:80)
50.73	50.9		S	0	0	0	0	0	0	0	fd	0	0	0	0	0	0	Lt.grey syenite w./ 3 mm wide dk.grey veins c/c it (albite?)(HA:55)
50.9	51		S	0	0	0	0	ep	0	0	fd	0	0	0	0	mt	0	Dk.grey trachytic syenite dyke w./ ~90% k-spar, 10% magnetite + trace epidote; 10cm wide. Mt is interstitial btwn. k-spar grains and ep occurs locally in interstices. K-spar alignment(HA:46)
51.03	51.5		S	0	0	px	0	0	0	0	fd	0	0	0	0	0	0	Foliated lt.grey massive syenite w./~5% px. which occurs as <1mm wide grains dispersed parallel to (HA:34), foliation is(HA:34)
51.48	53.7		S	0	0	px	0	0	cc	0	fd	0	0	0	0	0	0	Foliated lt.grey-pink syenite; foliation defined by 2-5mm wide bands of pink k-spar(HA:20), dk.green px. grains stretched out(<<1x2mm) parallel to foliation(HA:20) and by dk.grey feldspar bands 5-6mm wide(HA:20).
																		Section c/c by calcite veins 4mm wide(HA:50). Syenite contains 2 dk.grey layers of syenite(HA:49) 20cm wide at 51.97m and at 53.07m(dk.color may reflect diff. comp. of feld.) Syenite contains 2 dk.grey layers of syenite(5cm wide;HA:12)
51.83	54.9	99																
53.66	54.1		W	85	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Lt.green med.-grained(wo.XLs up to 5mm long), wo. w./ ~10% px.~2%gt. Px:w./in 4-6mm wide px. layers(HA:59), px. probably occurs on microscopoc scale w./in wo.Gt:1 layer 1cm wide dk.brn(HA:17). Wo. is c/c by 1 mm wide dk.grey calcite veins(HA:78)
54.08	54.2		W	65	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Lt.green wo. w./ ~15% gt, ~10%px., ~5% k-spar. Gt: in stringers 6mm wide(HA:35). Px: in 3-4mm wide layers parallel to (HA:35). K-spar:lt.grey 2-8mm wide grains in irreg. patches(2x3cm)
54.24	54.3		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke w./ ~97% px., 3% mel.gt. Gt: dk.brn in 1-2mm wide selvage of dyke

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
54.29	54.4		W	95	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White-lt.pink fine-grained wo. w./ ~2% px. Px: w./in one layer 3mm wide(HA:60). C/c by ~ 10, <1-1 mm wide lt.green calcite veins(HA:86)
54.39	54.9		S	0	0	px	0	ep	0	0	fd	0	0	0	0	mt	0	Med.grey syenite(poorly foliated) w./ ~90% k-spar, ~6% px., ~4% magnetite. Px: dispersed w./in k-spar matrix and w./in layers 2mm wide(HA:37). Trace epidote in irreg. <<1 mm wide veins
54.88	57.9	100																
54.88	55.6		W	79	gt	px	0	0	0	0	fd	0	0	0	0	0	0	White-lt.green fine-grained wo. w./ ~20% px., 1% gt .Px: w./in 5mm wide px. layers(HA:35) and in two 3cm wide px. layers(HA:50) and w./in wo. on a microscopic scale. Gt: lt.brn. gt in layers 1-2mm and in patches(2x3cm)(gt and px. layers are concordant). One gt layer is discordant(HA:02) and contains a 6mm wide core of k-spar and wo. and an envelope of <1-2mm wide.
55.63	55.7		G	10	gt	0	0	0	0	0	0	0	py	0	0	0	0	Black mel.gt which is c/c and surrounded by white fine-grained wo; section contains abundant pyrite
55.73	56.1		P	0	0	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite(90% px., 10% calcite). Px: dk.green. Calcite: occurs in 1mm wide veinlets of cc(HA:80) and interstitially w./in pxite. Pxite contains a 2-4 mm wide lt.green px.-rich(99%px.) selvage where it is in contact w./ gтите layer(described below)
56.11	56.2		G	10	gt	0	0	0	0	0	fd	0	0	0	0	0	0	Dk.brn. gтите layer w., interstitial k-spar and locally interstitial wo.; gтите is c/c by lt.brn.gt veinlets<<1m wide(HA:55)
56.2	56.4		W	20	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. skarn w./ 60% gt, ~30%px., ~20%wo. Gt occurs in 1x3cm massive patches w./ interstitial px. and locally w./ interstitial wo.; calc-silicate? layer is c/c by 2mm wide white wo. vein(HA:67)
56.4	56.7		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. w./ ~10% px., ~5% gt. Px: w./in layers 3-10mm wide med.green(wo. + px.) layers(HA:38). Gt: lt.brn. gt as 2-3mm wide grains dispersed w./in wo.matrix parallel to (HA:25) and as 1.5-2cm wide layers(HA:30)
56.7	56.7		S	0	0	0	0	0	0	qz	fd	0	0	0	0	0	0	Lt.pink syenitic dyke w./ ~70% white-pink feldspars and ~30% lt.grey feldspars. C/c by two 1mm wide layers(HA:46)
56.74	56.8		P	0	0	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite dyke(HA:35) 9cm wide (90% px, 10% calcite). Calcite occurs in interstices of px.

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
56.84	57.3		S	0	gt	0	0	0	cc	0	fd	0	0	0	0	0	0	Lt.grey k-spar w./ poor alignment of k-spar XLs (HA:36). C/c by med.grey k-spar veinlets(HA:48). Syenite contains 2.5 cm wide v. lt. brn. gtite layer(gross?)(HA:30).
																		Syenite c/c by <1mm wide calcite veins which are white in syenite and black in gtite layer(HA:80)
57.26	57.7		W	80	gt	0	0	0	0	0	0	0	0	0	0	0	0	White coarse-grained wo.(XLs 3-6mm long) w./ ~20% gt. Gt: med.brn. mel. gts occur w./in patches(5x20mm) aligned parallel to (HA:20), 10cm wide section where gts are lt.brn.(andr?)
57.66	58.3		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. fine-grained w./ 15% px. 5% gt. Px: w./in 2-4mm wide layers(HA:40). Gt: lt.brn. gt in(3x11m) patches aligned parallel to px. layers(HA:40), dk.brn gt grains <1-1mm dispersed parallel to (HA:40)
58.32	58.8		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	Well foliated lt.green wo.(fine-grained) w./~10% px. and ~5% gt. Px: occurs w./in 2-10mm wide layers(all parallel to HA:26) and w./in med.green(wo + px.) layers 1-2cm wide parallel to (HA:26).
																		Px. occurs in 1 discordant layer 2cm wide(HA:50) which contains ~85% px., 15%gt. Gt: dk.brn.gt grains 2mm wide in layer parallel to (HA:26) and v.lt.brn(gross?) grains(2x6mm) distributed parallel to (HA:26)
58.82	59.3		W	95	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo.(fine-grained -1mm-2mm long XL w./ 1%px. 4% gt. Gt: layers 6mm wide(HA:25) and as grains 2-4mm wide dispersed parallel to HA:25. Px: in lt.green(wo. + px.) bands 1-2cm wide(HA:25)(gts are dk.brn.)
59.27	61		S	0	gt	0	0	0	cc	0	fd	0	py	0	0	mt	0	Dk.grey syenite w./ ~92% k-spar, ~5% magnetite, ~1% gt, 2% pyrite. Gt: trace interstitial lt.-med.brn. gt. Magnetite: occurs as(1x2mm) grains dispersed w./in k-spar matrix.
	EOH																	Syenite c/c by blk <<1 mm wide veinlets containing minor calcite and py.; syenite c/c by <<1 mm wide white calcite veins

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS	
BRIL-96-20																			
0	1.52																		casing
1.52	6.1	72																	
1.52	2.41		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	0	wo px; finely Xline wo w/ finely Xline px diss + in foliation bands; gts are small or upto 2mm and diss in assoc. w/ foliation; locally gts-->gtite+px in foliated irregular bands; locally one zone of px + gtite ~8cm; both drk brn +lt brn gts along foliat.
																			bands + diss. throughout
2.41	3.68	core loss	?	?	gt	px	0	0	0	0	0	0	0	0	0	0	0	0	
3.68	3.98		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	0	wo+ px; cont. from above; much worked by drill
3.98	4.97		X	0	gt	px	0	0	0	0	fd	0	0	0	0	0	0	0	px+gt; massive px XLs-general fine upto 5mm w/ interstitial k-spar; both drk + lt brn gts diss. irregularly; grn gross gt XLs along fracture
4.97	6.1		W	85	gt	px	0	0	0	0	fd	0	0	0	0	0	0	0	wo+px; wo-fine to coarsely Xline w/ grn px- finely diss. or in foliated bands; mostly drk brn gts are diss. in foliated bands or zones; locally becomes gtite for 1 or 2 cm; interstitial k-spar is common-esp. ingtite zones, w/ XLs of wo in k-spar fr. along axis of core shows movement of 2 cm; locally larger gts are ~1cm -and are pale grn/brn in centers, to dk brn in outer edges
6.1	9.15	99																	
6.1	9.15		W	85	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	0	wo+ px-as above; fr. w/ cc; locally, zones of foliated bands of px + gt of 1-4cm; cream-colored zones -assoc. w/ gts-v. finely Xline pale gt(?); k-spar locally common as interstitial min; some cc fr. blk, ~1mm wide
9.15	12.2	99																	
9.15	9.96		W	90	gt	px	0	0	0	0	0	0	py	0	0	0	0	0	wo+px; wo is fine to coarsely Xline w/ minor finely Xline px; gt is diss., locally grouped; fractures are calcareous+ blk-drk grey; orientation of fractures varies; minor diss. py w/ gt

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
9.96	10.02		W	35	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	carbonate+wo; upper 16cm is zone of dk grey cc-fault gouge-shearing? ;cc w/ carbonate pods-includes k-spar euhedral XLS upto 1cm; entire zone A.~47°; in centre ~3cm of wo +gt; also wo +px rotted into blk calcareous zones
10.02	10.52		W	25	gt	px	0	0	cc	0	0	0	0	0	0	0	0	px+wo; finely Xline wo w/ diss. px and zones of massive px w/ gt; includes a thick grey cc in filling at 33cm @55° down sec'n, ~1cm wide, interstitial cc common; gt is both dk brn+pale brn--> brn to beige adj to cc fr. above
10.52	12.2		W	90	gt	px	0	0	cc	0	fd	0	py	0	0	0	0	wo+ px; v. finely Xline-->coarsely Xline wo w/ diss. XLS of py; gts are diss. + grouped locally; fr. w/ cc; locally zones of up to a few cm of massive px w/ brn gts; last 2cm: a cc+k-spar fr. filling ~1cm wide; thin +blk along each edge
12.2	15.24	93																
12.2	13.26		W	90	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	wo; med Xline wo; top 30cm have been leached-ie. are soft +somewhat crumbly; numerous cc fr. s cut the core-many are irregular; one large fr. zone ~7cm wide is v. crumbly + calcareous w/ soft pink min, for 2-3cm either side of fr. gts are diss. or in foliated bands; fr. w/ k-spar ~1mm; rx is crumbly again @50cm for 15cm
13.26	14.06		W	10	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	px;massive finely Xline px w/ diss. gts-lt brn and blk; wo occurs in pods locally up to 20cm; at top of sec'n a fr. zone is 2-3 cm wide w/ k-spar +cc; k-spar is common interstitial material throughout-w/ pods up to several cm; zoned gts locally in px v. finely Xline gt (lt brn) in foliated in px
14.06	14.27	core loss	?	?	gt	px	0	0	0	0	0	0	0	0	0	0	0	
14.27	15.24		P	0	gt	px	0	0	0	qz	0	0	py	0	0	0	0	px- cont from above; no wo; qtz in fr. up to 3cm w/ diss. py; dk-blk gt occurs --> approaching gtite locally in irregular patterns; v. lt brn gtite in foliated pattern; lowest part of sec'n is massive px fr. w/ py
15.24	18.27	87																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
15.24	15.94		X	1	gt	px	0	ep	0	0	0	0	py	si	0	0	0	px-as above; massive w/ blk-->zoning to brn gtite; lt brn gtite in foliated patterns-irregular, w/ diss. py cubes; some ep in fr.s ; v. minor wo-interstitial w/ gts fr. w/ si
15.94	17.89		W	60	gt	px	0	0	cc	0	fd	0	0	si	0	0	0	wo+gt; wo w/ minor grn px diss. + dk brn gts in massed zones w/ inc. interstitial px; gt up to 60% of core locally w/ interstitial wo+px fr. w/ si; hairline fr. s w/ cc +pods-grey; wo is finely Xline --> coarsens in zones of gt-rich pattern + gtite fr. w/
																		k-spar; locally- massive px w/ gt-in zones ~2cm wide; at bottom of sec'n: massive blk gt w/ px- minor interstitial k-spar; last cms broken
17.89	18.29	core loss	?	?	?	?	?	?	?	?	?	?	?	?	?	?	0	0
18.29	21.34	95																
18.29	18.44	core loss	?	?	?	?	?	?	?	?	?	?	?	?	?	?	0	0
18.44	19.39		W	65	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	wo+ px; wo(v. fine to coarse) w/ bands and pods of massive, finely Xline px(up to 90% of core locally); gts are mostly massive--> in gtite; some diss. lt brn 5cm from top a P band w/ gtite (blk);~2% py irregularly cuts wide core (~2-3cm); adj to px banding is carbonate in patches +bands; cc in fr. w/ vugs k-spar in fr. s + interstitial
19.39	20.81		W	90	gt	px	0	0	cc	0	0	0	0	0	0	0	0	wo+px; as above, w/ less px and gtite fr. w/ cc-same v. irregular
20.81	21.34		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	wo+px; as at 18.44m; bands of foliation w/ px inc. down sec'n; gtite is patchy w/ interstitial wo + v. lt brn gtite-in patches and in foliated bands; wo is med coarse; last few cm of sec'n a p bands of 3-4cm wide intrudes the core: massive finely Xline px w/ diss. gtite contact w/ wo is all blk gt
21.34	24.39	99																
21.34	21.78		W	55	gt	px	0	0	0	0	0	0	0	0	0	0	0	wo + px; coarse wo w/ irregular bands of P w/ gt(blk-dk brn) finely diss. and more massive gt along edges + diss. into wo; px XLs upto several mm long; lt brn gts diss. in wo--> altering to pale

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
21.78	22.3		W	90	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	wo+px; massive wo-coarse-up to 3mm, w/ bands of px in irregular foliated pattern; gt is dk brn in thin 2-3mm bands cross-cutting px foliation fr. w/ k-spar 4mm wide; fr. w/ cc
22.3	22.41		W	20	gt	px	0	0	cc	0	0	0	0	0	0	0	0	gtite+wo; gt>90%, wo>10%; massive lt brn gtite w/ interstitial px (lt grn) + wo; irregular cc fr. + stringers v. calcareous
22.41	24.39		W	90	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	wo + px; massive wo-med-coarse(upto 2cm) XLs; gt- blk + brn 2-3mm wide-diss; px XLs diss. + in foliated bands @ 8cm down sec'n unusual min: white fibrous min-flexible + soft; up to 2cm long fr. w/ cc ~1mm interstitial k-spar common + in fr. br. gts alt?->
24.39	27.44	99																olive grn gts % of px + gts (diss) inc. down sec'n
24.39	25.75		W	85	gt	px	0	0	0	0	fd	0	0	0	0	0	0	wo + px; continuos from above, diss. gts in irregular patches + bands; k-spar in fr. @ 40cm down sec'n ~ 20cm of px+gt-wo minor; includes numerous irregular fractures w/ k-spar
25.75	26.17		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	wo + px; as above- w/ only minor gts; wo XLs upto 4mm
26.17	26.89		W	30	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	wo + gt + px; both massive +diss. brn gt + less blk gt; wo + varying amts of px are interstitial or in zones of up to 80% of core; some brn gt alters to grn gt; locally, zone of soft, porous pink cc adj to fr. w/ cc; wo is coarsely Xline; fr. w/ wo;
																		2.5cm wide fr. w/ k-spar w/ assoc. px+gt; interstitial k-spar common
26.89	27.44		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	wo+ px; wo is v. fine to coarse up to 1cm Xline w/ grn px foliated bands; gt is lt brn diss. (--> to pale grn); lower 24cm has an inc. in px and gts are dk brn
27.44	30.49	99																
27.44	30.24		W	85	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	wo + px-as above; wo XLs are coarser up to 1.2cm adj to zones of px and minor gt; foliated bands of brn gts w/ assoc. px layers + coarse wo; sec'n to rare diss. gts fr. w/ k-spar; diss. gts stretched in foliated pattern for ~8cm; individual gts~1mm *3mm fr. w/ cc

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
30.24	30.49		W	30	gt	px	0	0	cc	0	0	0	0	0	0	0	0	gt+px; diss. lt brn gt--> inc. to massive gte down sec'n w/ interstitial px + wo; px + wo XLs are v. fine -->1mm; locally, zones of px + gt inc. cc fr.-->blk
30.49	33.54	99																
30.49	33.54		G	10	gt	px	ti?	ep	cc	0	fd	0	0	0	0	0	0	gt-mainly lt brn, w/ interstitial px= wo; rx has irregular patterns-no consistent foliation; wo occurs as bands and pods w/ + w/o px fr. w/ k-spar + v. fine Xline of px-dk grn along contact, cc in centre; gt is alt. to olive grn fr. w/ cc common +
																		irregular; fr. w/ wo?; at 1.22m gts are zoned 1-2cm in diameter w/ grn alt. (gross gt or ep?) in central areas, centres + outer edges are brn; k-spar + wo are interstitial w/ wedges of ti?
33.54	36.59	99																
33.54	34.06		G	5	gt	px	0	0	0	0	fd	0	0	0	0	0	0	gt-as above; diss. to aggregate gte, lt brn to blk; no foliation; 4.5*8.5cm beige chert w/ k-spar in stretch fractures; zones of pale grn px + wo; also interstitial % px inc. down sec'n; interstitial k-spar
34.06	34.51		X	0	gt	px	0	ep	cc	0	fd	0	py	0	0	0	0	px+gt; massive finely Xline px + blk gt alt. to ep along fractures; interstitial cc in pods + along fractures; interstitial k-spar; diss. py, finely Xline
34.51	34.73		W	60	gt	px	0	0	0	0	0	0	0	0	0	0	0	wo+ px; wo is finely Xline w/ tiny (~1mm) dk blk gts--> grading to massive gte locally px is finely Xline w/ wo
34.73	35.41		W	65	gt	px	0	0	0	0	fd	0	0	0	0	0	0	wo+ px; coarsely Xline wo w/ small lenses + thin bands of px + blk gt; both have fine XLs <1mm; interstitial k-spar; blk gt becomes massive locally; adj to fr. ~1cm of soft, porous calcareous material
35.41	35.89		W	65	gt	px	0	0	0	0	fd	0	0	0	0	0	0	wo + px + gt; med Xline wo w/ XLs upto 1.5cm w/ diss. fine XLs gt-lt brn +blk; irregular foliation pattern; % gt (lt brn) inc. down sec'n; px is finely diss. in wo, and alone as an interstitial min. w/ or not w/ wo; k-spar in fr.
35.89	36.25		W	10	gt	px	0	0	0	0	fd	0	0	0	0	0	0	gt+ px--cont from above
36.25	36.59		W	65	gt	px	0	0	0	0	fd	0	0	si	0	0	0	wo+px+gt; wo XLs up to 2cm; as at 34.41m above fr. w/ wo ; fr. w/ si; fr. w/ k-spar; fr. w/ wo+px infilling

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
36.59	39.63	98																
36.59	36.69		W	65	gt	px	0	0	0	0	0	0	0	0	0	0	0	wo + px+gt
36.69	37.11		X	5	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	gt + px; massive gt--> gtite w/ interstitial px--finely Xline w/ numerous tension fractures w/ cc; px is sig. locally; coarse wo in fractures; locally k-spar (2mm) XLs in wo matrix
37.11	37.4		W	80	gt	px	0	0	cc	0	0	0	0	0	0	0	0	wo +px; coarse Xline wo w/ diss.gt; gt grades down sec'n to gtite w/ interstitial wo; locally px has diss. py up to 1% fr. w/ cc
37.4	38.01		W	15	gt	px	ti?	0	0	0	fd	0	0	0	0	0	0	gt; gt w/ interstitial wo + k-spar; locally, k-spar fracturing movement contact w/ px-rich rx; down sec'n diss. gts become irregular linears; locally rx become 60% px +wo fr. s w/ wo + k-spar + occasional ti?
38.01	38.57		X	5	gt	px	ti	ep	cc	0	fd	0	0	0	0	0	0	px+ gt; massive finely Xline px w/ diss. gt; gts are generally massive groups to few mms; pods of wo, fr. w/ wo+ti XLs fr. w/ blk cc and k-spar--irregular + assoc. w/ foliated pattern in px; ep along fresh fracture surfaces
38.57	39.63		W	85	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	wo; coarse Xline (4cm+); diss. gts-inc, locally; small zones of blk carbonaceous rk--few cm k-spar fr. w/ 3-4mm dk grey cc; top + bottom 18cm of sec'n are zones of inc. px + gts and fracturing w/ k-spar
39.63	42.68	99																
39.63	41.24		W	50	gt	px	0	0	0	0	fd	0	0	0	0	0	0	wo + px; coarse Xline wo (1cm) w/ zones of px rich wo; px-finely Xline; brn gts diss. irregularly + locally grouped --> gtite, or in thin bands; interstitial k-spar common + in wide k-spar; below 82cm core partly is diss. by fracture w/ k-spar + px along
41.24	42.68		X	5	gt	px	0	0	cc	0	0	0	0	0	0	0	0	fr.; massive gtite w/ interstitial px is diss to end of sec'n. This fracture is irregular, subparallel to axis briefly + causes fracturing + vugging upto 1 cm wide + 20cm length
42.68	45.73	99																px + gt; massive med-fine Xline px w/ varying? of gts diss. --> to locally massive cc frs. common. Gts are alters to pale brn near large wo + cc fr. One foliated zone 1.5cm wide w/ wo

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
42.68	45.73		X	0	gt	px	0	ep	cc	0	fd	0	py	0	0	0	0	Ep along some fractures @ 0.46m a 3cm wide syenitic (dk grey) k spar dyke w/ py cubes fr. w/ k-spar + cc + gt. Local bt foliation
45.73	48.78	89																
45.73	45.91		X	2	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Px + Gt; Massive med-->fine Xline px w/ patches of gt. K-spar saturates core in irregular bands + pods of 1-2cm w/ wo XLs in k-spar. Bottom of sec'n fr. w/ dk grey cc w/ wo +px ~1cm wide zone
45.91	46.52		W	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo+ px; V. coarse Xline wo (up to 3cm). Diss., fine XLs of grn px. Gt is lt brn, pale beige or blk in local zones--gtite w/ interstitial wo +/or px. Locally gtite upto 85% of rk.
46.52	46.7		C	0	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Px + t; Calc-Silicate Rx; As at 41.24m; Irregular cc frs.
46.7	47.03	core loss	?	?	?	?	?	?	?	?	?	?	?	?	?	0	0	
47.03	48.78		C	1	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Px + Gt--cont from above. Fr. w/ cc--for several mm. Pods of wo ~1cm. Wo along some fr. surfaces + fr. filling wo + k-spar~0.5cm wide. Lt brn + pale grn. % gt varies from ~10% to 95% w/ px
48.78	51.83	99																
48.78	51.83		C	2	gt	px	0	0	cc	0	fd	0	py	0	0	0	0	Px+Gt Calc-Silicate Rx; Zones of k-spar saturated rock w/ wo in fr +interstitially. Frs. w/ cc; also dk grey calc. w/ diss. py + py along contacts--either side. Local-foliated zones of wo. w/ dk gt ~3cm wide interstitial k-spar. Gts zones
																		(lt. brn in centr/blk edges)
51.83	54.88	99																
51.83	53.69		C	1	gt	px	0	0	cc	0	fd	0	py	0	0	0	0	Px + Gt Calc-Silicate Rx (as above); fr. w/ k-spar XLs, cc cement, py diss. + grn px XLs. Fr. w/ cc. Fr. w/ cc, wo + px XLs. K-spar(dk grey) dyke. Gt: % Px ratio varies widely

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
53.69	54.88		W	60	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Wo+Px; V. coarse wo--up to 2.5cm. Px XLs are diss. in wo--small to 3mm in length. Interstitial k-spar present locally w/ wo XLs. Dark/blk gts, generally 1-2mm in diameter are diss. irregularly through rock. Locally px is in foliated bands + irregular patterns. Fr. or dyke? at top of sec'n: dk k-spar w/ wo XLs, gt XLs~1cm wide. K-spar dyke (syenitic) dk. grey, w/ interstitial wo, ~1cm wide
54.88	57.93	97																
54.88	55.85		W	45	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo+ px--as above; Med-coarse XLs wo. Wo + px largely distinct irregular bands w/ gts diss. + assoc. w/ px edges
55.85	57.58		W	85	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Wo + px; Zones of pale grn px (calc-silicate) w/ wo. XLs interstitial fr. w/ wo XLs+k-spar. Wo is coarsely Xline w/ px XLs in bands or diss. Fr. w/ cc. Local zones of gt w/ interstitial k-spar +wo. Interstitial k-spar common.
57.58	57.93		W	20	gt	px	0	0	?	0	fd	0	0	0	0	0	0	Carbonate + Wo +px; Pale grn-blue carbonate--XLs~1mm. Locally-zones of wo and gt--wo is coarse. At 20cm above bottom of sec'n-a dk. grey k-spar band--> dyke (syenitic) w/ interstitial small px. XLs + zoned contact to carbonate on either side.
57.93	60.98	98																
57.93	58.58		W	45	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Carbonate + wo; Pale blue-grn carbonate w/ zones of coarsely Xline wo. Locally grn px bands occur w/ diss. dk gt + gt banding.
58.58	60.98		M	2	gt	px	0	0	0	0	fd	0	py	0	0	0	0	Carbonate (M); carb. is 'marbled" w/ bands of px XLs, also bands of fine XLs of gt; assoc. w/ these dk bands; diss. py. Occasional patches of wo. in small local patches or along-k-spar dyke. K-spar dyke has lt beige gts diss. as well as along carbonates/ up to 1cm. Wo and few mm px--> then into carbonate
60.98	64.02	99																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
60.98	62.81		W	10	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Carbonate; As above-patches of gite lt brn --upto several cm. Several wo bands--up to 2cm wide w/ px borders along contact w/ carb.--along foliation. At 1.45m down sec'n 14cm of wo w/ minor px bands + gt bands. Irregular cc frs.
62.81	63.63		W	70	gt	px	0	ep	cc	0	fd	0	py	0	0	0	0	Wo + px; Med to coarse wo w/ interstitial px + gt--diss. + in bands (diss. or massive). Numerous cc frs. show repeat of foliation (movement ~1cm). Last 20cm of sec'n is zone of px + k-spar + wo. Diss. py ~1% w/ cubes up to 1mm. Some ep w/ px. Fr. w/ px + carb+py cubes. Wo XLs up to 1.5cm in k-spar + px.
63.63	64.02		M	0	0	0	0	0	cc	0	0	0	0	0	0	0	0	Carbonate(M); Minor px. diss.
64.02	64.3		M	0	0	0	0	0	cc	0	0	0	0	0	0	0	0	Carbonate--as above
64.3	64.48		W	50	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Px +gt--P; Contact w/ carbonate is sharp; wo common along narrow foliated bands + diss. w/ px. Fr. w/ cc 2-3mm wide
64.02	67.07	96																
64.48	65.49		W	80	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Wo+ px; Med--> coarse wo. w/ diss. gt along foliation pattern. Few large(few cm) zones of gite; otherwise gts of 0.8cm to v. fine XLs. Both lt brn and blk gts. Px in local zones of px pods, in foliated bands + diss. Minor interstitial k-spar. Minor carbonate bands at lower end of sec'n
65.49	65.9		P	0	gt	px	0	ep	cc	0	fd	0	py	0	0	0	0	Px+gt Pyroxenite; Massive finely Xline px w/ blk mel gt (~10%). K-spar is interstitial w/ wo and some lt brn gt. Cc fr. contain ep +py--upto 0.5cm. 3cm + of carbonate at contact btwn calc-Silcate + underlying wo section (below)
65.9	66.85		W	85	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Wo + px--as at 64.48 above; Wo XLs up to 1cm; interstitial k-spar common
66.85	66.97	core loss	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
66.97	67.07		P	0	gt	px	0	ep	0	0	fd	0	0	0	0	0	0	Px Pyroxenite; Massive fine px. XLS w/ diss. mel. gts up to 10% K-spar fracs. common w/ ep
67.07	70.12	92																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
67.07	67.31	core loss	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
67.31	70.12		P	0	gt	px	ti	ep	cc	0	fd	0	0	0	0	0	0	Pyroxenite; cont. from above -k-spar frags. w/ ti wedges in px. Fr. w/ cc. K-spar in pods @ 1.8cm down sec'n ~35cm zone of k-spar bands + saturation in p. Ep common along frags. = brn gts diss. (~2mm in diameter). Bottom of sec'n px XLs up to 5mm long
		EOH																

APPENDIX B
XRF ANALYSIS OF BRIL CORE

XRF - Whole Rock Analysis

From : Cominco Lab.

Job no. X96-254

Reported 12-04-1996

To : I.M.E.

Client's I.D. no. : #15R-Wollastonit

Page 1

Field number	SiO2 %	Al2O3 %	MgO %	Na2O %	MnO %	Fe2O3 %	TiO2 %	P2O5 %	CaO %	K2O %	LOI %	Total %	Ba ppm
1 1-1595	47.49	1.60	1.73	0.29	0.11	3.71	0.58	0.19	40.03	0.66	2.98	99.38	96
2 1-1795	48.84	0.97	1.31	0.19	0.12	2.49	0.43	0.05	42.34	0.30	2.94	99.98	26
3 1-1995	49.93	1.20	0.68	0.24	0.09	1.69	0.20	0.04	45.25	0.10	0.33	99.75	2
4 1-2195	50.32	1.47	2.19	0.32	0.11	2.27	0.13	0.04	42.52	0.11	0.42	99.90	2
5 1-2395	49.18	1.33	2.08	0.35	0.11	3.50	0.30	0.06	42.06	0.16	0.69	99.83	2
6 1-2595	47.79	2.76	3.83	0.42	0.17	6.62	0.68	0.15	35.86	0.40	0.44	99.12	25
7 1-2795	49.43	2.19	1.93	0.31	0.13	3.13	0.19	0.02	41.78	0.27	0.52	99.90	2
8 1-2995	46.59	2.38	2.57	0.29	0.19	6.51	0.76	0.29	38.45	0.22	0.87	99.12	19
9 1-3195	43.62	4.92	1.69	0.16	0.18	9.34	0.89	0.10	36.32	0.81	1.54	99.57	111
10 1-3395	45.87	4.42	1.47	0.12	0.14	4.63	0.33	0.03	40.00	0.37	1.93	99.32	38
11 1-3595	48.38	2.48	1.49	0.10	0.14	3.06	0.18	0.03	43.08	0.13	0.86	99.93	3
12 1-3795	47.62	3.92	2.65	0.20	0.12	4.06	0.34	0.20	39.22	0.52	0.79	99.65	87
13 1-3995	49.50	2.08	1.36	0.16	0.09	2.09	0.15	0.02	43.48	0.29	0.73	99.96	2
14 1-4195	48.92	2.89	2.49	0.22	0.15	4.19	0.40	0.16	39.03	0.86	0.41	99.72	104
15 1-4395	49.91	1.20	1.10	0.16	0.11	2.42	0.26	0.01	44.23	0.19	0.37	99.96	2
16 1-4595	50.41	0.79	0.99	0.19	0.13	1.47	0.09	0.01	44.38	0.27	1.15	99.88	36
17 1-4795	46.96	2.27	6.90	0.49	0.39	11.38	0.55	0.41	29.02	0.42	0.85	99.64	53
18 1-4995	49.30	2.81	8.72	0.56	0.46	11.65	0.75	0.42	23.41	0.88	0.32	99.29	174
19 3195 RPT	43.67	4.92	1.68	0.12	0.17	9.35	0.89	0.10	36.27	0.83	1.43	99.45	112
20 STD SY4	49.58	20.59	0.52	7.04	0.09	6.18	0.27	0.13	7.98	1.63	5.57	99.59	349
21 1-5195	44.46	2.03	7.94	0.34	0.35	9.18	0.27	0.35	26.87	0.24	7.73	99.76	101
22 5395No MS	46.27	2.65	7.98	0.27	0.29	9.00	0.40	0.54	28.19	0.28	3.61	99.48	109
23 1-5395	46.62	3.79	6.32	0.33	0.20	9.09	0.89	0.20	31.19	0.41	0.81	99.85	118
24 1-5795	50.00	2.03	4.36	0.20	0.11	3.09	0.20	0.03	38.41	0.25	0.99	99.68	59
25 1-5995	49.00	2.39	3.66	0.30	0.12	4.00	0.40	0.11	38.36	0.46	1.05	99.86	78
26 1-6195	49.43	1.60	1.61	0.19	0.08	2.69	0.26	0.12	43.36	0.18	0.58	100.10	13
27 1-6395	49.24	1.89	1.59	0.20	0.09	2.88	0.30	0.02	42.77	0.22	0.52	99.73	37
28 1-6595	47.35	2.36	2.19	0.18	0.11	5.57	0.65	0.10	40.56	0.10	0.49	99.67	3
29 1-6795	48.84	1.24	1.34	0.22	0.13	3.57	0.43	0.04	42.71	0.06	0.94	99.52	7
30 1-6995	49.50	1.00	1.29	0.22	0.07	2.38	0.16	0.01	44.42	0.08	0.41	99.54	2
31 1-7195	49.39	1.19	3.08	0.25	0.14	4.75	0.37	0.06	39.84	0.11	0.62	99.81	13
32 1-7395	45.82	1.56	2.92	0.29	0.11	5.97	0.58	0.10	39.50	0.11	2.71	99.67	2
33 1-7595	46.67	1.97	2.86	0.30	0.12	5.91	0.79	0.12	39.38	0.11	1.54	99.77	2
34 1-7795	49.30	1.88	1.29	0.20	0.08	2.58	0.22	0.03	43.25	0.14	0.80	99.77	6
35 1-7995	50.10	0.90	1.20	0.19	0.10	2.26	0.20	0.02	44.22	0.11	0.40	99.70	2
36 1-8195	49.01	1.49	2.49	0.18	0.13	4.61	0.46	0.10	40.93	0.15	0.38	99.94	9
37 1-8395	47.24	2.78	3.28	0.20	0.20	7.08	0.70	0.15	37.29	0.34	0.68	99.94	87
38 1-8595	45.33	3.83	4.33	0.20	0.24	7.84	0.75	0.38	34.71	0.39	1.67	99.67	101
39 6795 RPT	48.69	1.16	1.29	0.16	0.14	3.65	0.44	0.03	42.67	0.06	0.92	99.21	4
40 STD SY4	49.69	20.56	0.56	7.02	0.10	6.23	0.27	0.13	7.98	1.62	5.54	99.70	347
41 1-8795	47.00	4.73	3.75	0.49	0.15	5.09	0.41	0.16	36.43	0.20	1.27	99.69	43
42 1-8995	47.26	3.66	1.45	0.25	0.11	4.44	0.41	0.11	41.46	0.06	0.72	99.94	28
43 1-9195	44.84	4.91	3.50	0.32	0.16	6.33	0.51	0.25	36.53	0.21	1.89	99.45	30
44 1-9395	46.84	3.90	1.76	0.20	0.12	3.98	0.32	0.11	39.83	0.25	2.42	99.73	41
45 1-9595	41.54	1.98	2.85	0.16	0.12	3.87	0.30	0.06	36.05	0.63	12.00	99.56	20
46 1-9795	46.09	2.85	3.34	0.16	0.13	6.50	0.72	0.38	37.20	0.23	1.72	99.32	47
47 1-9995	46.89	0.90	1.38	0.16	0.13	2.35	0.20	0.12	43.37	0.16	3.71	99.38	2
48 1-10195	32.83	1.71	1.10	0.24	0.10	3.25	0.30	0.02	44.26	0.13	15.70	99.64	2
49 1-10395	45.86	1.85	1.84	0.14	0.10	2.88	0.22	0.03	38.03	0.24	7.89	99.08	2
50 1-10595	45.09	4.33	2.10	0.16	0.13	5.45	0.51	0.04	38.66	0.29	2.32	99.09	9

XRF - Whole Rock Analysis

From : Cominco Lab.
 To : I.M.E.
 Client's I.D. no. : #15R-Wollastonit

Job no. X96-254

Reported 12-04-1996

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Field number	SiO2 %	Al2O3 %	MgO %	Na2O %	MnO %	Fe2O3 %	TiO2 %	P2O5 %	CaO %	K2O %	LOI %	Total %	Ba ppm
51 1-10795	44.05	6.56	1.76	0.25	0.12	5.56	0.70	0.02	38.33	0.36	2.11	99.83	9
52 1-10995	47.96	2.45	0.98	0.15	0.10	2.94	0.24	0.01	42.75	0.30	1.93	99.81	22
53 1-11175	45.45	3.51	1.80	0.21	0.09	3.42	0.34	0.06	39.47	0.48	5.12	99.95	88
54 1-11395	44.55	4.42	1.07	0.24	0.09	2.15	0.18	0.02	41.78	0.32	4.81	99.64	22
55 1-11595	50.02	1.29	0.99	0.21	0.06	1.10	0.07	0.01	45.07	0.09	0.94	99.85	4
56 1-11795	46.01	5.90	0.91	0.21	0.10	3.25	0.25	0.04	41.20	0.28	1.69	99.84	4
57 1-11995	46.08	5.91	0.69	0.19	0.08	2.35	0.22	0.07	42.53	0.19	1.54	99.86	2
58 1-12195	48.98	2.07	0.99	0.20	0.07	0.99	0.17	0.07	44.84	0.08	1.44	99.90	2
59 10395 RPT	45.84	1.84	1.84	0.18	0.10	2.93	0.23	0.03	38.09	0.24	7.95	99.27	2
60 SAND	99.29	0.54	0.02	0.10	0.01	0.05	0.01	0.01	0.10	0.02	0.08	100.23	2
61 1-12395	49.06	0.99	1.08	0.10	0.07	1.16	0.12	0.03	45.40	0.13	1.48	99.63	2
62 1-12595	47.65	1.93	3.96	0.26	0.13	3.28	0.23	0.20	38.30	0.52	3.35	99.82	82
63 1-12795	49.36	2.36	11.25	0.79	0.16	7.14	0.42	1.58	24.58	0.71	1.28	99.64	234
64 1-12995	49.27	2.56	10.84	0.99	0.16	7.04	0.51	1.77	24.10	0.90	1.47	99.61	361
65 1-13195	47.35	2.43	7.42	0.75	0.17	7.09	1.15	1.01	29.17	0.77	2.08	99.39	226
66 1-13395	46.17	1.77	1.87	0.49	0.14	4.71	1.57	0.49	40.52	0.29	1.76	99.79	46
67 1-13595	49.07	1.39	1.59	0.46	0.15	3.10	0.82	0.61	41.58	0.44	0.66	99.87	42
68 2-0270	48.76	1.67	1.77	0.44	0.09	3.16	0.32	0.08	41.97	0.20	1.49	99.95	2
69 2-0470	46.13	4.17	3.50	0.36	0.12	4.96	0.43	0.19	35.84	0.41	2.88	99.02	67
70 2-0670	47.06	3.72	2.74	0.39	0.11	4.26	0.34	0.10	38.53	0.49	2.16	99.90	68
71 2-0870	49.60	1.79	2.19	0.37	0.09	3.08	0.30	0.07	41.40	0.32	0.60	99.81	81
72 2-1070	45.64	6.72	2.57	0.39	0.10	3.85	0.28	0.21	38.13	0.51	1.21	99.61	19
73 2-1270	47.79	4.67	1.59	0.31	0.07	2.19	0.16	0.05	42.03	0.22	0.65	99.73	2
74 2-1470	44.85	7.67	3.77	0.27	0.11	5.23	0.43	0.39	35.04	0.62	1.21	99.59	35
75 2-1670	48.85	2.18	1.88	0.30	0.11	2.77	0.23	0.09	41.60	0.27	1.12	99.60	5
76 2-1870	48.56	2.56	1.78	0.31	0.15	3.93	0.23	0.07	40.99	0.35	0.89	99.84	38
77 2-2070	45.97	4.14	1.48	0.31	0.15	5.29	0.36	0.04	40.34	0.34	1.35	99.78	15
78 2-2270	49.67	2.00	1.59	0.37	0.16	3.48	0.24	0.04	41.36	0.57	0.47	99.95	75
79 0470 RPT	45.90	4.09	3.47	0.73	0.14	5.00	0.43	0.18	35.68	0.41	2.85	98.88	61
80 100%CaCO3	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.01	56.20	0.01	43.79	100.13	3
81 2-2470	50.34	1.64	0.90	0.31	0.07	1.69	0.12	0.01	43.67	0.50	0.52	99.77	44
82 2-2670	47.82	2.78	1.89	0.34	0.13	4.57	0.35	0.04	40.95	0.24	0.58	99.70	31
83 2-2870	50.59	1.39	1.10	0.35	0.11	1.29	0.07	0.01	44.12	0.36	0.42	99.81	32
84 2-3070	48.05	3.38	1.93	0.42	0.12	3.21	0.24	0.18	41.48	0.33	0.52	99.86	54
85 2-3270	43.39	8.47	4.62	0.25	0.10	5.33	0.75	0.52	34.37	0.41	0.93	99.16	118
86 2-3470	49.58	4.92	1.13	0.52	0.13	3.65	0.34	0.05	35.29	2.56	1.43	99.61	484
87 2-3670	44.13	6.87	3.83	0.36	0.13	7.61	0.81	0.21	33.18	0.80	1.82	99.75	147
88 2-4070	49.19	2.74	1.56	0.48	0.08	1.42	0.14	0.12	41.07	0.74	2.21	99.75	202
89 2-4270	50.69	2.49	0.40	0.32	0.07	0.56	0.03	0.01	43.44	1.09	0.60	98.70	521
90 2-4470	51.50	3.77	0.60	0.38	0.06	0.79	0.05	0.02	39.68	2.18	0.78	99.82	419
91 2-4670	50.29	2.61	0.74	0.39	0.06	0.79	0.05	0.02	42.34	1.08	1.58	99.95	160
92 2-4870	47.05	1.68	0.93	0.43	0.09	1.49	0.07	0.02	40.84	0.58	6.65	99.84	235
93 2-5070	47.96	1.73	2.01	0.25	0.11	2.59	0.18	0.09	40.38	0.35	4.09	99.74	122
94 2-5270	49.58	1.19	0.97	0.41	0.11	1.78	0.14	0.03	44.29	0.25	1.04	99.79	41
95 2-5470	37.23	1.41	2.11	0.63	0.10	2.20	0.19	0.08	40.02	0.51	15.39	99.88	49
96 3-0610	42.97	5.06	2.48	0.49	0.13	6.01	0.56	0.11	37.05	0.46	4.51	99.83	83
97 3-0810	44.98	5.61	1.83	0.28	0.11	5.22	0.52	0.09	39.49	0.24	1.52	99.90	11
98 3-1010	46.30	5.54	1.78	0.36	0.10	3.00	0.25	0.08	41.15	0.15	1.07	99.78	2
99 2-4270 RPT	50.70	2.49	0.41	0.33	0.06	0.58	0.03	0.01	43.50	1.09	0.58	99.79	508
100 3-1210	47.15	4.92	1.49	0.42	0.10	2.88	0.25	0.03	41.41	0.25	0.73	99.64	2

XRF - Whole Rock Analysis

From : Cominco Lab.
 To : I.M.E.
 Client's I.D. no. : #15R-Wollastonit

Job no. X96-254

Reported 12-04-1996

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Field number	SiO2 %	Al2O3 %	MgO %	Na2O %	MnO %	Fe2O3 %	TiO2 %	P2O5 %	CaO %	K2O %	LOI %	Total %	Ba ppm
101 3-1410	47.84	4.15	1.38	0.34	0.07	1.78	0.16	0.03	42.78	0.18	1.12	99.83	2
102 3-1610	45.48	7.81	1.98	0.35	0.09	3.02	0.30	0.03	39.65	0.13	1.13	99.97	2
103 3-1810	44.10	8.72	2.99	0.39	0.10	4.61	0.43	0.22	35.14	0.88	2.00	99.58	28
104 3-2010	47.04	5.51	2.25	0.38	0.10	4.42	0.37	0.12	36.41	1.43	1.60	99.63	85
105 3-2210	47.38	4.44	2.15	0.21	0.10	4.13	0.40	0.04	39.13	0.68	1.13	99.80	41
106 3-2410	45.86	5.14	2.15	0.24	0.10	3.71	0.29	0.04	40.00	0.23	2.08	99.84	2
107 3-2610	49.28	2.08	1.19	0.27	0.10	2.08	0.15	0.02	43.65	0.23	0.84	99.89	6
108 3-2810	49.98	1.79	0.99	0.30	0.09	1.71	0.12	0.01	43.97	0.39	0.52	99.88	21
109 3-3010	48.41	3.22	1.59	0.30	0.14	3.97	0.38	0.04	40.22	0.74	0.76	99.77	143
110 3-3210	47.95	2.78	1.19	0.28	0.11	4.46	0.42	0.05	41.49	0.43	0.73	99.90	74
111 3-3410	48.47	2.47	1.35	0.20	0.11	2.92	0.25	0.03	42.73	0.29	1.09	99.91	2
112 3-3610	46.83	2.83	2.07	0.32	0.14	5.73	0.62	0.16	39.62	0.36	1.20	99.88	31
113 3-3810	50.91	0.55	0.71	0.23	0.09	0.80	0.03	0.01	45.94	0.12	0.57	99.96	2
114 3-4010	47.63	0.75	1.05	0.22	0.12	1.84	0.14	0.01	44.73	0.10	3.39	99.99	2
115 3-4210	46.08	0.76	0.90	0.33	0.10	1.38	0.10	0.01	45.31	0.10	4.79	99.86	2
116 3-4410	46.34	3.68	2.21	0.33	0.14	6.17	0.67	0.27	37.40	0.88	1.85	99.94	301
117 3-4610	47.60	2.82	2.45	0.31	0.13	4.36	0.44	0.23	39.82	0.36	1.43	99.95	59
118 3-2810RPT	49.96	1.79	0.90	0.30	0.09	1.69	0.12	0.03	43.99	0.35	0.48	99.70	13
119 1-10195RPT	32.59	1.69	1.09	0.25	0.10	3.25	0.31	0.02	44.40	0.13	15.69	99.52	2
120 3-4810	44.12	5.74	3.16	0.27	0.13	5.83	0.54	0.37	36.25	0.60	2.79	99.81	89
121 3-5010	49.93	0.99	1.51	0.24	0.10	1.46	0.15	0.05	43.91	0.30	1.32	99.96	6
122 3-5210	47.71	0.57	2.70	0.17	0.08	1.23	0.05	0.03	41.65	0.12	5.34	99.65	2
123 3-5410	48.29	1.63	3.59	0.25	0.13	3.94	0.41	0.12	38.28	0.47	2.41	99.72	101
124 3-5610	50.16	0.57	2.80	0.22	0.07	1.05	0.03	0.02	42.34	0.13	2.41	99.81	2
125 3-5810	47.95	1.60	3.99	0.19	0.10	3.35	0.41	0.05	38.95	0.19	3.04	99.82	7
126 3-6010end	49.11	2.07	5.15	0.18	0.13	4.53	0.43	0.16	36.34	0.23	1.49	99.83	2
127 4-0220	47.45	6.00	2.00	0.19	0.09	2.36	0.15	0.07	40.13	0.40	1.15	100.00	2
128 4-0420	49.63	2.36	0.99	0.16	0.07	1.49	0.12	0.03	44.17	0.16	0.75	99.94	2
129 2-5470RPT	37.24	1.69	2.03	0.51	0.12	2.36	0.20	0.07	40.03	0.51	15.37	100.14	96
130 4-0620	45.27	9.04	1.71	0.23	0.11	4.25	0.34	0.07	36.06	1.22	1.59	99.89	248
131 4-0820	45.52	7.47	4.69	0.26	0.16	6.23	0.45	0.13	33.15	0.61	1.04	99.73	131
132 4-1020	43.99	6.24	2.10	0.29	0.16	6.45	0.46	0.08	37.15	0.58	2.24	99.75	128
133 4-1220	43.23	8.81	1.73	0.20	0.15	6.14	0.47	0.06	36.15	0.82	1.74	99.50	176
134 4-1420	44.56	5.73	1.21	0.23	0.16	5.50	0.46	0.08	38.66	0.79	2.23	99.61	132
135 4-1620	44.22	4.14	2.17	0.09	0.17	7.29	0.90	0.06	37.46	0.61	1.51	98.62	66
136 4-1820	46.60	3.75	3.00	0.17	0.17	6.16	0.68	0.20	38.00	0.46	0.79	99.98	81
137 4-2020	48.49	2.85	1.69	0.23	0.11	2.28	0.16	0.10	42.82	0.16	0.80	99.69	2
138 4-2220	47.37	4.71	2.53	0.18	0.12	3.49	0.22	0.12	40.00	0.24	0.65	99.64	11
139 4-0220RPT	47.46	5.93	1.98	0.21	0.09	2.36	0.15	0.07	40.28	0.40	1.13	100.07	2
140 4-2420	46.80	4.23	1.52	0.30	0.09	2.04	0.19	0.03	42.20	0.22	2.21	99.84	2
141 4-2620	46.20	4.66	2.63	0.25	0.14	5.40	0.43	0.14	38.68	0.21	0.83	99.57	2
142 4-2820	48.29	3.69	1.67	0.17	0.09	2.19	0.19	0.02	42.51	0.14	0.88	99.84	2
143 4-3020	48.57	3.03	2.28	0.34	0.10	2.73	0.22	0.06	41.76	0.08	0.81	99.98	2
144 4-3220	45.77	3.91	1.58	0.24	0.14	6.33	0.78	0.08	40.15	0.07	0.71	99.76	2
145 4-3420	47.68	2.73	3.11	0.24	0.13	4.79	0.51	0.16	39.36	0.17	0.80	99.68	13
146 4-3620	48.39	2.03	1.49	0.17	0.13	3.59	0.36	0.05	42.31	0.19	1.05	99.77	2
147 4-3820	48.71	2.50	2.91	0.19	0.11	3.51	0.24	0.20	40.65	0.10	0.52	99.65	2
148 4-4020	48.91	4.27	1.69	0.26	0.11	2.88	0.23	0.03	39.91	0.79	0.69	99.78	124
149 4-4220	47.41	6.59	3.53	0.54	0.15	6.62	0.70	0.17	29.66	2.09	2.00	99.47	373
150 4-4420	46.60	2.89	2.59	0.22	0.15	5.71	0.76	0.23	38.18	0.62	1.67	99.62	153

XRF - Whole Rock Analysis

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Job no. X96-254

Reported 12-04-1996

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Field number	SiO2 %	Al2O3 %	MgO %	Na2O %	MnO %	Fe2O3 %	TiO2 %	P2O5 %	CaO %	K2O %	LOI %	Total %	Ba ppm
151 4-4620	47.18	2.62	2.61	0.24	0.13	4.33	0.44	0.12	40.11	0.20	1.70	99.68	2
152 4-4820	48.92	1.77	1.95	0.16	0.11	3.10	0.32	0.06	42.24	0.12	1.01	99.76	2
153 4-5020	48.21	2.64	2.10	0.12	0.11	3.94	0.49	0.02	40.79	0.25	0.94	99.62	2
154 4-5220	47.69	2.21	2.07	0.23	0.11	4.57	0.62	0.06	41.37	0.06	0.64	99.63	2
155 4-5420	48.74	2.51	1.94	0.25	0.09	2.22	0.21	0.02	42.53	0.15	1.33	99.99	8
156 4-5620	49.68	1.02	2.08	0.37	0.12	2.78	0.30	0.09	42.54	0.12	0.60	99.71	6
157 4-5820	48.33	1.64	1.47	0.34	0.10	2.31	0.24	0.04	43.28	0.07	2.10	99.93	2
158 4-3820RPT	48.75	2.49	2.95	0.20	0.12	3.48	0.24	0.20	40.59	0.10	0.52	99.64	2
159 4-6020	49.01	2.17	0.79	0.31	0.08	1.37	0.12	0.01	44.97	0.06	1.08	99.97	2
160 4-6220	48.15	2.07	4.04	0.31	0.13	6.25	0.86	0.05	36.95	0.12	0.72	99.65	29
161 4-6420	48.27	1.64	1.83	0.24	0.10	2.11	0.20	0.11	41.67	0.19	3.66	100.03	15
162 4-6620	48.70	1.64	7.72	0.54	0.15	6.02	0.25	0.71	24.12	0.56	8.97	99.38	258
163 19-0200	47.22	3.27	4.03	0.49	0.13	4.19	0.36	0.17	37.36	0.36	2.21	99.80	45
164 19-0400	47.48	2.52	1.73	0.34	0.11	2.14	0.20	0.04	41.93	0.37	2.89	99.75	14
165 19-0600	47.06	3.55	1.65	0.30	0.11	2.56	0.25	0.08	40.91	0.37	2.75	99.59	15
166 19-0800	47.81	3.09	1.19	0.45	0.09	1.93	0.18	0.04	41.54	0.36	3.24	99.92	33
167 19-1000	49.11	1.73	1.94	0.32	0.11	2.34	0.21	0.05	42.35	0.32	1.34	99.83	51
168 19-1200	48.77	2.29	1.48	0.22	0.12	2.66	0.31	0.04	42.12	0.32	1.11	99.44	53
169 19-1400	47.48	3.01	1.97	0.19	0.10	4.40	0.34	0.04	40.55	0.21	1.44	99.73	2
170 19-1600	47.41	2.85	1.33	0.21	0.11	3.99	0.33	0.04	41.45	0.16	1.91	99.79	2
171 19-1800	44.98	6.31	2.51	0.26	0.17	7.01	0.54	0.24	35.33	0.72	1.50	99.57	144
172 19-2000	49.82	1.79	1.03	0.19	0.10	1.93	0.12	0.02	43.74	0.31	0.58	99.64	7
173 19-2200	47.56	3.37	1.93	0.13	0.11	3.04	0.26	0.09	41.09	0.24	1.73	99.55	2
174 19-2400	47.16	2.94	3.32	0.32	0.14	5.51	0.63	0.24	36.64	0.55	1.92	99.37	131
175 19-2600	52.24	7.13	3.05	0.69	0.14	5.13	0.69	0.25	23.78	4.69	1.44	99.23	1528
176 19-2800	48.68	3.51	1.58	0.52	0.10	2.80	0.27	0.08	35.91	1.56	4.55	99.56	442
177 19-0800RPT	47.81	3.10	1.19	0.33	0.08	1.93	0.18	0.04	41.52	0.36	3.21	99.75	29
178 SAND	99.12	0.35	0.01	0.14	0.01	0.05	0.01	0.01	0.14	0.02	0.08	99.94	2
179 19-3000	49.12	1.52	1.62	0.20	0.11	2.33	0.21	0.09	42.07	0.29	2.16	99.72	45
180 19-3200	49.72	2.58	4.12	0.49	0.18	5.49	0.56	0.48	32.50	1.07	2.32	99.51	293
181 19-3400	46.31	5.03	4.57	0.42	0.16	6.10	0.69	0.35	30.50	1.68	3.21	99.02	499
182 19-3600	46.31	5.04	2.48	0.41	0.19	6.47	0.73	0.18	33.41	1.41	2.79	99.42	362
183 19-3800	46.74	4.46	2.66	0.18	0.21	5.58	0.49	0.26	36.75	0.67	1.38	99.39	149
184 19-4000	49.16	3.81	1.81	0.35	0.15	4.14	0.40	0.07	38.39	1.01	0.40	99.69	222
185 19-4200	49.55	2.10	2.00	0.19	0.12	3.17	0.48	0.12	41.27	0.42	0.52	99.95	62
186 19-4400	53.03	9.85	2.55	1.66	0.13	4.40	0.43	0.31	20.90	4.46	1.42	99.15	1841
187 19-4600	50.41	6.16	1.43	0.80	0.13	2.73	0.19	0.06	33.97	1.96	1.79	99.63	777
188 19-4800	50.41	5.56	0.84	0.73	0.10	1.68	0.12	0.02	36.62	1.80	1.85	99.73	317
189 19-5000	54.00	12.76	0.66	2.49	0.11	2.22	0.14	0.06	19.01	5.12	2.57	99.14	1626
190 19-5400	50.88	8.67	4.44	1.36	0.10	3.43	0.30	0.11	22.22	3.51	4.19	99.21	990
191 19-5600	51.38	10.26	2.56	2.05	0.09	3.13	0.25	0.08	24.59	2.69	2.42	99.52	860
192 19-5800	54.45	8.37	1.09	2.17	0.07	1.87	0.19	0.07	25.73	3.56	1.70	99.27	1063
193 20-0160	48.59	3.04	1.98	0.16	0.10	3.14	0.34	0.08	41.47	0.21	0.84	99.95	17
194 20-0360	47.45	2.88	5.76	0.38	0.18	8.04	0.94	0.56	32.27	0.56	0.75	99.77	169
195 20-0560	48.52	4.40	1.26	0.19	0.09	2.19	0.21	0.05	41.33	0.52	0.98	99.74	20
196 20-0760	48.76	2.13	1.14	0.10	0.09	1.91	0.19	0.04	43.42	0.19	1.84	99.81	2
197 19-4400RPT	53.23	9.76	2.48	1.68	0.14	4.30	0.44	0.30	20.86	4.42	1.42	99.03	1825
198 STD SY2	60.04	12.12	2.73	4.35	0.32	6.33	0.13	0.43	7.93	4.48	1.08	99.94	449
199 20-0960	46.97	3.22	1.62	0.32	0.09	2.44	0.24	0.05	40.52	0.21	4.14	99.82	2
200 20-1160	48.41	2.15	1.82	0.13	0.10	1.92	0.17	0.06	42.41	0.20	2.49	99.86	2

XRF - Whole Rock Analysis

From : Cominco Lab.
 To : I.M.E.
 Client's I.D. no. :

Job no. X96-254

Reported 12-04-1996

#15R-Wollastonit

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Field number	SiO2 %	Al2O3 %	MgO %	Na2O %	MnO %	Fe2O3 %	TiO2 %	P2O5 %	CaO %	K2O %	LOI %	Total %	Ba ppm
201 20-1360	45.46	4.92	6.96	0.60	0.17	6.87	0.52	0.38	29.56	0.70	3.28	99.42	54
202 20-1560	45.11	5.76	2.78	0.17	0.12	5.05	0.48	0.12	37.68	0.25	1.94	99.47	2
203 20-1760	46.08	3.10	1.47	0.25	0.11	2.69	0.26	0.06	41.75	0.45	3.39	99.61	7
204 20-1960	48.92	2.18	1.25	0.26	0.10	2.28	0.30	0.08	43.62	0.22	0.77	99.98	2
205 20-2160	49.43	1.78	1.04	0.26	0.09	1.71	0.20	0.03	44.15	0.30	0.87	99.87	2
206 20-2360	48.93	3.25	1.91	0.27	0.07	1.98	0.24	0.03	42.23	0.30	0.50	99.71	2
207 20-2560	48.21	3.75	1.63	0.14	0.08	2.11	0.20	0.02	41.75	0.26	1.22	99.38	2
208 20-2760	50.33	1.64	0.79	0.22	0.07	0.93	0.07	0.01	44.96	0.32	0.47	99.81	2
209 20-2960	44.55	7.29	2.84	0.28	0.09	4.07	0.58	0.18	38.09	0.12	1.53	99.63	2
210 20-3160	42.07	9.07	3.35	0.29	0.12	5.98	0.85	0.31	35.27	0.21	1.73	99.25	2
211 20-3360	47.02	3.95	2.96	0.34	0.13	6.12	0.62	0.14	36.95	0.32	1.21	99.76	28
212 20-3560	47.02	4.15	2.36	0.29	0.08	4.36	0.36	0.08	39.57	0.26	1.22	99.76	5
213 20-3760	46.84	3.94	3.22	0.26	0.11	4.85	0.52	0.17	37.84	0.43	1.62	99.61	39
214 20-3960	46.53	3.42	3.24	0.27	0.08	3.68	0.42	0.09	39.40	0.32	2.33	99.79	2
215 20-4160	45.86	6.50	7.48	0.64	0.13	6.61	0.64	0.43	29.11	0.57	1.67	99.64	62
216 20-4360	47.30	5.26	9.22	0.45	0.15	8.53	0.77	0.57	25.92	0.64	0.69	99.50	221
217 20-2760RPT	50.45	1.67	0.80	0.20	0.07	0.94	0.07	0.01	44.88	0.32	0.49	99.90	2
218 20-4560	45.07	6.63	5.13	0.32	0.11	5.56	0.69	0.28	33.88	0.34	1.52	99.53	61
219 20-5360	48.36	4.41	4.05	0.33	0.11	4.58	0.55	0.06	35.34	1.04	1.04	99.88	267
220 20-5560	46.53	2.96	2.60	0.31	0.07	2.22	0.24	0.02	40.91	0.56	3.48	99.91	92
221 20-6360	32.55	2.35	3.20	0.41	0.08	2.02	0.13	0.01	42.97	0.46	15.74	99.93	74
222 20-6560	48.63	2.22	4.98	0.44	0.12	4.73	0.34	0.34	35.74	0.63	1.55	99.73	222

XRF - Whole Rock Analysis

From : Cominco Lab.

Job no. X96-256

Reported 02-24-1997

To : S. Twins

Client's I.D. no. : #Wallastonie

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Field number	SiO ₂	Al ₂ O ₃	MgO	Na ₂ O	MnO	Fe ₂ O ₃	TiO ₂	P ₂ O ₅	CaO	K ₂ O	LOI	Total	Ba ppm
1 11-369	47.99	0.57	3.45	0.10	0.04	1.34	0.09	0.04	41.79	0.15	4.03	99.59	2
2 11-569	51.05	1.35	2.78	0.30	0.09	3.97	0.26	0.06	38.14	0.79	0.68	99.47	286
3 11-769	51.19	0.62	0.47	0.02	0.04	0.70	0.08	0.01	45.82	0.27	0.40	99.62	2
4 11-969	51.47	1.68	0.79	0.05	0.07	1.58	0.11	0.03	41.58	1.14	1.01	99.52	223
5 11-1169	50.11	1.58	2.47	0.30	0.10	4.44	0.62	0.13	37.18	1.00	1.34	99.28	265
6 11-1369	50.11	0.99	1.49	0.20	0.12	3.19	0.32	0.12	41.83	0.34	0.87	99.58	73
7 11-1569	49.83	0.91	2.51	0.40	0.15	4.16	0.78	0.21	38.84	0.45	0.93	99.17	106
8 11-1769	51.26	1.07	1.59	0.20	0.14	2.14	0.18	0.10	41.45	0.60	0.52	99.26	206
9 11-6085	50.50	3.18	3.06	0.67	0.13	5.78	0.95	0.30	31.11	2.10	1.55	99.36	839
10 11-6685	48.52	0.61	1.70	0.27	0.10	2.39	0.16	0.13	42.12	0.11	3.73	99.84	2
11 11-6885	49.66	0.79	4.03	0.54	0.13	4.52	0.48	0.52	37.32	0.18	0.87	99.04	19
12 11-7085	49.82	1.20	1.27	0.26	0.08	1.71	0.13	0.10	41.50	0.68	2.51	99.17	150
13 11-7285	51.95	2.15	0.62	0.40	0.05	1.25	0.17	0.06	40.70	1.45	0.48	99.29	514
14 11-7485	50.08	1.16	0.82	0.45	0.08	2.75	0.33	0.06	42.45	0.54	0.44	99.16	154
15 11-7685	51.08	0.81	1.33	0.12	0.05	1.26	0.07	0.08	43.75	0.37	0.79	99.71	53
16 11-7885	51.05	0.75	1.09	0.17	0.05	1.36	0.14	0.06	44.39	0.23	0.29	99.58	30
17 11-8085	51.80	3.10	1.08	0.36	0.09	2.24	0.24	0.12	37.95	2.03	0.39	99.40	1227
18 11-8285	50.13	2.06	2.67	0.52	0.11	3.82	0.41	0.21	37.45	0.79	0.65	98.92	302
19 11-8485	51.18	3.49	1.49	0.42	0.13	3.63	0.34	0.20	35.29	2.49	0.60	99.26	1153
20 11-8685	52.55	6.50	1.49	0.49	0.12	4.50	0.45	0.18	27.18	4.73	1.53	99.72	2357
21 11-10685	50.19	1.97	1.38	0.39	0.12	3.53	0.44	0.13	38.48	1.13	1.56	99.34	381
22 11-10885	51.01	2.67	2.28	0.58	0.08	2.40	0.38	0.12	37.93	1.22	0.95	99.64	629
23 11-11785	49.49	4.21	2.46	0.99	0.15	5.98	1.12	0.27	31.54	2.01	0.82	99.04	1804
24 11-11985	49.61	1.14	2.21	0.42	0.09	3.82	0.45	0.10	39.81	0.55	0.98	99.19	246
25 11-12185	50.21	1.92	3.09	0.62	0.14	4.89	0.90	0.17	35.49	1.11	0.57	99.11	759
26 11-12385	50.32	1.44	2.19	0.39	0.08	2.28	0.26	0.08	41.59	0.32	0.74	99.69	88
27 12-200	50.99	1.58	4.75	0.58	0.12	5.54	0.34	0.11	33.46	0.79	1.00	99.27	272
28 12-400	50.06	1.57	6.59	0.58	0.12	8.75	0.61	0.13	28.91	0.75	1.65	99.73	268
29 12-600	50.74	1.29	1.29	0.20	0.09	1.83	0.12	0.04	42.61	0.64	0.90	99.75	267
30 12-800	49.09	1.08	3.15	0.42	0.12	6.41	0.79	0.13	36.47	0.42	1.42	99.50	148
31 12-1000	51.03	3.27	3.87	0.58	0.15	6.14	0.31	0.30	29.10	2.20	2.25	99.21	1306
32 12-1200	49.20	1.34	4.53	0.35	0.13	8.17	0.62	0.21	32.38	0.70	2.19	99.86	176
33 12-1400	48.68	0.84	2.54	0.20	0.13	6.46	0.45	0.15	36.88	0.21	1.05	99.60	8
34 12-1600	50.53	0.59	0.89	0.14	0.10	1.59	0.13	0.10	44.39	0.34	0.92	99.82	64
35 12-1800	50.34	0.63	3.71	0.42	0.12	4.08	0.87	0.30	38.40	0.17	0.51	99.65	17
36 12-2000	50.10	0.76	3.17	0.31	0.11	3.34	0.49	0.25	38.82	0.36	1.47	99.18	45
37 12-2200	50.12	0.52	3.13	0.33	0.10	3.34	0.36	0.23	39.82	0.25	0.95	99.25	2
38 12-2400	50.96	0.64	1.29	0.16	0.09	1.55	0.09	0.08	43.53	0.29	0.67	99.35	9
39 12-2600	50.66	0.73	1.02	0.15	0.04	8.97	0.05	0.06	43.92	0.37	1.38	99.37	51
40 12-2800	49.37	0.52	0.63	0.05	0.04	8.73	0.03	0.03	44.70	0.19	3.20	99.50	2
41 12-3000	51.45	0.50	0.64	0.03	0.06	1.00	0.05	0.03	45.66	0.18	0.30	99.90	2
42 12-3200	51.46	1.00	1.00	0.10	0.07	1.40	0.15	0.07	42.82	0.63	0.42	99.14	133
43 12-3400	49.98	0.68	2.41	0.22	0.10	3.12	0.38	0.15	40.72	0.28	1.81	99.85	59
44 12-3600	51.49	0.80	1.60	0.10	0.10	1.79	0.07	0.12	43.23	0.48	0.40	99.58	79

XRF - Whole Rock Analysis

From : Cominco Lab.

Job no. X96-265

Reported 02-26-1997

To : S.Twins

Client's I.D. no. : #

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Field number	SiO2 %	Al2O3 %	MgO %	Na2O %	MnO %	Fe2O3 %	TiO2 %	P2O5 %	CaO %	K2O %	LOI %	Total %	Ba ppm
1 14-150	57.55	1.26	0.56	0.12	0.04	0.48	0.05	0.06	36.14	0.46	3.12	99.86	16
2 14-350	57.29	1.17	0.79	0.10	0.03	0.26	0.01	0.06	37.99	0.62	1.57	99.90	4
3 14-550	52.60	2.27	1.08	0.20	0.04	0.33	0.02	0.06	39.79	1.33	1.50	99.22	25
4 14-750	54.00	5.64	0.99	1.19	0.05	1.45	0.16	0.11	32.05	2.99	1.09	99.72	277
5 14-950	54.17	3.68	0.54	0.58	0.04	0.58	0.06	0.07	33.23	2.11	4.41	99.50	102
6 14-1150	55.52	1.47	0.47	0.18	0.03	0.42	0.04	0.07	32.53	0.64	7.94	99.21	28
7 14-1350	62.70	0.74	0.60	0.11	0.03	0.31	0.02	0.06	27.05	0.24	7.52	99.36	4
8 14-1550	50.21	2.47	0.81	0.63	0.04	0.90	0.08	0.05	32.84	1.16	10.50	99.70	68
9 14-1950	64.71	1.02	0.56	0.23	0.04	0.48	0.06	0.06	25.14	0.28	6.99	99.47	35
10 14-2100	64.08	1.02	1.02	0.19	0.03	0.36	0.05	0.06	24.63	0.44	7.40	99.26	56
11 14-2350	66.01	1.29	0.55	0.15	0.02	0.34	0.03	0.06	22.23	0.68	8.05	99.42	63
12 14-2550	54.97	1.59	0.54	0.27	0.03	0.40	0.03	0.06	30.62	0.76	10.47	99.74	36
13 14-2750	62.47	0.87	0.87	0.15	0.02	0.34	0.03	0.06	31.60	0.32	2.95	99.58	17
14 14-2950	66.57	0.52	0.89	0.03	0.02	0.30	0.02	0.06	30.13	0.20	0.94	99.69	4
15 14-3150	65.83	0.55	0.49	0.01	0.03	0.23	0.01	0.06	30.04	0.10	2.47	99.90	4
16 14-3350	67.04	8.50	0.70	2.47	0.06	1.37	0.24	0.08	14.24	3.58	1.12	99.40	237
17 14-3550	53.74	5.21	0.52	1.17	0.04	0.84	0.11	0.06	28.48	2.86	1.78	99.82	176
18 14-3750	61.57	9.59	1.25	2.72	0.05	2.26	0.25	0.09	14.30	4.51	2.73	99.32	118
19 14-3950	57.82	5.26	0.86	1.62	0.04	1.19	0.12	0.07	26.38	2.04	4.42	99.63	193
20 14-4150	62.72	1.57	0.60	0.07	0.03	0.31	0.02	0.05	31.44	0.63	1.71	99.14	61
21 14-4350	61.72	0.92	0.87	0.11	0.02	0.25	0.03	0.05	34.24	0.31	1.34	99.86	4
22 14-4550	63.39	1.35	0.76	0.07	0.02	0.32	0.03	0.06	34.50	0.57	1.44	99.51	21
23 14-4750	62.94	1.20	0.99	0.18	0.03	0.29	0.03	0.05	31.93	0.52	1.45	99.62	28
24 14-4950	51.66	1.04	1.98	0.19	0.05	0.73	0.07	0.07	39.20	0.91	2.72	99.52	42
25 14-5150	60.89	1.51	1.67	0.19	0.04	0.47	0.03	0.07	30.11	0.73	3.81	99.62	45
26 14-5350	58.35	0.96	0.78	0.07	0.03	0.27	0.02	0.05	36.34	0.46	2.29	99.63	4
27 14-5550	58.71	0.97	0.88	0.02	0.03	0.28	0.02	0.04	35.19	0.48	3.28	99.29	8
28 14-5750	61.55	1.16	1.38	0.19	0.02	0.37	0.03	0.05	31.65	0.35	2.90	99.66	26
29 14-5950	58.03	9.93	1.27	2.14	0.07	2.24	0.23	0.10	17.82	5.45	2.64	99.82	774
30 14-6350	53.82	5.19	1.81	1.44	0.06	1.36	0.17	0.09	29.67	2.06	4.02	99.71	387
31 14-6550	57.29	2.86	1.84	0.18	0.05	0.58	0.03	0.06	33.82	1.31	1.39	99.42	84
32 14-6750	59.24	12.24	1.36	2.91	0.10	2.18	0.28	0.09	13.21	5.44	2.89	99.94	992
33 14-7150	50.80	5.90	1.08	1.36	0.09	2.10	0.22	0.08	30.85	2.25	5.09	99.61	519
34 14-7350	47.42	3.66	1.52	0.40	0.10	2.33	0.19	0.07	36.73	1.52	5.40	99.35	134
35 14-7550	38.56	2.36	0.97	0.41	0.06	1.41	0.12	0.03	42.04	0.82	12.32	99.13	124
36 14-7950	35.09	7.95	2.14	1.21	0.20	5.17	0.49	0.09	33.13	1.25	13.81	95.62	171
37 14-8150	20.31	3.08	1.04	0.37	0.13	1.96	0.19	0.07	45.11	0.75	26.25	99.36	30
38 14-8350	26.21	4.16	1.89	1.11	0.15	3.18	0.26	0.04	38.72	1.16	22.24	95.13	32
39 14-8550	26.63	3.66	1.81	0.94	0.13	2.66	0.23	0.03	39.97	1.25	21.91	99.22	65
40 14-8750	36.06	3.03	1.44	0.52	0.11	1.94	0.20	0.03	40.88	1.35	14.00	95.56	43
41 14-8950	31.71	3.11	1.64	0.72	0.09	1.73	0.21	0.03	41.05	1.11	18.06	95.46	27
42 14-9150	48.93	1.41	0.56	0.14	0.07	0.68	0.07	0.04	37.68	0.61	9.64	99.83	4
43 14-9350	36.83	2.76	1.47	0.61	0.07	1.77	0.18	0.03	41.37	0.99	13.55	99.63	111
44 14-9550	30.05	2.84	1.56	0.56	0.06	1.98	0.19	0.02	41.91	0.93	19.41	99.51	117
45 14-9750	39.18	3.47	1.41	1.09	0.07	2.00	0.22	0.06	34.16	0.83	16.65	99.15	230
46 14-9950	32.82	2.78	0.95	1.07	0.06	0.94	0.10	0.02	40.20	0.52	19.92	95.38	217
47 14-10150	42.05	2.29	1.37	0.34	0.06	1.38	0.15	0.03	37.45	0.68	14.09	99.89	124
48 14-10350	29.39	1.93	1.16	0.29	0.04	0.93	0.11	0.02	42.90	0.73	22.00	99.49	102
49 14-10550	32.65	2.56	1.46	0.49	0.05	1.31	0.15	0.02	42.01	0.85	17.94	99.51	97
50 14-10750	31.60	1.77	0.93	0.43	0.04	0.86	0.10	0.02	44.65	0.73	19.37	99.51	23

XRF - Whole Rock Analysis

From : Cominco Lab.

Job no. X96-265

Reported 02-26-1997

To : S.Twins

Client's I.D. no. : #

Page 6

Field number	SiO2 %	Al2O3 %	MgO %	Na2O %	MnO %	Fe2O3 %	TiO2 %	P2O5 %	CaO %	K2O %	LOI %	Total %	Ba ppm
251 18-3050	63.79	2.28	0.61	0.29	0.04	0.65	0.07	0.06	26.61	1.07	3.92	99.39	100
252 18-3250	57.25	4.03	1.13	0.73	0.06	1.45	0.19	0.10	31.11	1.91	1.61	99.63	326
253 18-3450	53.17	4.59	0.81	0.89	0.07	1.17	0.12	0.08	35.46	2.09	0.78	99.25	347
254 18-3650	53.60	5.58	1.07	1.09	0.07	1.90	0.25	0.11	31.37	2.81	1.31	99.16	495
255 18-3850	64.69	3.08	1.41	0.44	0.05	1.13	0.14	0.08	25.11	1.43	1.81	99.37	224
256 18-4050	59.40	4.34	2.04	0.38	0.05	1.33	0.19	0.09	23.81	2.60	4.77	99.00	327
257 18-4450	49.20	5.89	2.32	1.23	0.09	3.12	0.34	0.05	29.75	1.76	5.47	99.26	319
258 18-4650	47.95	6.39	5.49	0.69	0.13	3.22	0.29	0.12	25.36	1.76	7.77	99.17	466
259 18-6650	49.96	5.01	1.57	0.10	0.15	2.96	0.25	0.07	34.65	1.37	4.28	99.37	213
260 18-6850	51.03	5.03	1.49	0.73	0.09	2.56	0.25	0.06	33.87	1.85	2.49	99.45	245
261 18-7050	48.90	4.35	1.69	0.39	0.10	2.57	0.26	0.07	36.34	1.32	3.51	99.51	272
262 18-8250	35.29	3.73	1.91	0.60	0.05	2.22	0.24	0.05	39.29	1.07	14.56	99.01	298
263 18-8450	44.40	2.18	1.05	0.09	0.06	1.27	0.12	0.04	44.12	0.25	6.12	99.71	4
264 18-8650	41.22	2.29	1.42	0.27	0.05	1.51	0.15	0.04	42.38	0.42	9.84	99.59	62
265 18-8850	40.47	2.93	2.08	0.88	0.06	1.95	0.19	0.06	37.43	1.03	11.91	99.01	192
266 18-9050	37.82	2.27	1.23	0.51	0.04	1.25	0.13	0.04	41.08	0.72	14.42	99.51	134
267 18-9250	39.78	1.99	1.90	0.18	0.05	1.28	0.12	0.04	43.82	0.22	10.39	99.67	4
268 18-9450	38.25	2.39	1.33	0.18	0.05	1.27	0.11	0.03	43.39	0.57	11.63	99.21	183
269 18-9650	41.06	2.42	1.73	0.50	0.05	1.65	0.17	0.04	37.59	0.74	13.42	99.36	237
270 18-9850	40.07	2.28	1.09	0.18	0.04	1.44	0.12	0.04	40.84	0.80	12.48	99.39	485
271 18-10050	48.56	2.62	1.31	0.19	0.05	1.63	0.14	0.05	37.04	1.04	6.71	99.35	276
272 18-10250	27.25	2.14	2.00	0.23	0.04	1.32	0.12	0.01	42.78	0.80	23.15	99.84	147

APPENDIX C
WOLLASTONITE WEIGHT PERCENT OF BRIL CORE

WOWT%.XLS

SAMPLE	WO%	SAMPLE	WO%	SAMPLE	WO%
1-1595	64.95	1-11595	83.68	3-3210	63.99
1-1795	75.66	1-11795	54.93	3-3410	69.78
1-2195	72.72	1-11995	58.49	3-3610	53.71
1-2395	69.14	1-12195	79.34	3-3810	89.73
1-2595	41.29	1-12395	82.87	3-4010	78.86
1-2795	67.77	1-12595	53.93	3-4210	76.97
1-2995	49.44	1-12795	0.00	3-4410	46.25
1-3195	33.41	1-12995	0.00	3-4610	56.24
1-3395	53.34	1-13195	16.66	3-4810	32.58
1-3595	69.14	1-13395	58.39	3-5010	80.11
1-3795	51.88	1-13595	69.72	3-5210	72.64
1-3995	74.87	2-0270	69.55	3-5410	54.87
1-4195	56.76	2-0470	40.33	3-5610	75.75
1-4395	79.26	2-0670	50.64	3-5810	55.75
1-4595	84.04	2-0870	67.76	3-6010en	44.72
1-4795	10.71	2-1070	40.19	4-0220	52.59
1-4995	0.00	2-1270	61.64	4-0420	77.74
1-5195	7.78	2-1470	24.29	4-0620	32.68
1-5395	15.20	2-1670	68.16	4-0820	17.71
1-5795	54.98	2-1870	63.51	4-1020	35.35
1-5995	53.35	2-2270	68.75	4-1220	27.11
1-6195	73.65	2-2470	80.20	4-1420	44.05
1-6395	71.59	2-2670	60.11	4-1620	40.30
1-6595	56.74	2-2870	81.81	4-1820	43.50
1-6795	72.63	2-3070	61.62	4-2220	51.79
1-6995	79.25	2-3270	14.94	4-2420	62.00
1-7195	60.29	2-3470	52.98	4-2620	44.48
1-7395	52.97	2-3670	18.59	4-2820	65.57
1-7595	52.30	2-4070	70.05	4-3020	63.38
1-7795	74.26	2-4270	80.49	4-3220	50.23
1-7995	80.47	2-4470	71.94	4-3420	52.35
1-8195	62.73	2-4670	76.97	4-3620	68.47
1-8395	43.44	2-4870	73.06	4-3820	59.51
1-8595	28.65	2-5070	67.27	4-4020	59.78
1-8795	38.50	2-5270	80.00	4-4220	22.70
1-8995	59.14	2-5470	47.28	4-4420	49.27
1-9195	33.98	3-0610	36.35	4-4620	56.34
1-9395	56.00	3-0810	44.75	4-4820	68.98
1-9595	48.81	3-1010	53.15	4-5020	61.14
1-9795	42.83	3-1210	57.72	4-5220	61.22
1-9995	74.38	3-1410	65.47	4-5420	68.80
1-10195	43.26	3-1610	42.49	4-5620	72.68
1-10395	62.55	3-1810	25.06	4-5820	73.67
1-10595	46.74	3-2210	51.96	4-6020	78.59
1-10795	38.78	3-2410	50.08	4-6220	45.00
1-10995	71.00	3-2610	75.56	4-6420	71.01
1-11175	56.78	3-2810	78.97	4-6620	16.08
1-11395	58.69	3-3010	60.96	19-0200	45.52

WOWT%.XLS

SAMPLE	WO%	SAMPLE	WO%
19-0400	67.19	20-4360	0.00
19-0600	62.27	20-4560	20.03
19-0800	68.17	20-5360	39.62
19-1000	71.28	20-5560	59.42
19-1200	69.94	20-6360	32.26
19-1400	58.69	20-6560	43.33
19-1600	63.76		
19-1800	30.83		
19-2000	78.23		
19-2200	61.26		
19-2400	45.52		
19-2600	24.69		
19-2800	58.56		
19-3000	73.07		
19-3200	41.20		
19-3400	24.22		
19-3600	35.53		
19-3800	42.74		
19-4000	56.36		
19-4200	66.74		
19-4400	17.25		
19-4600	50.04		
19-4800	59.91		
19-5000	19.66		
19-5400	15.05		
19-5600	21.41		
19-5800	41.34		
20-0160	63.27		
20-0360	24.43		
20-0560	63.85		
20-0760	75.18		
20-0960	63.40		
20-1160	70.74		
20-1360	10.97		
20-1560	38.75		
20-1760	62.55		
20-1960	73.79		
20-2160	78.17		
20-2360	66.79		
20-2560	64.86		
20-2760	83.56		
20-2960	35.13		
20-3160	16.71		
20-3360	42.66		
20-3560	51.71		
20-3760	45.24		
20-3960	51.13		
20-4160	3.67		

APPENDIX D

DRILL LOGS OF BARTNICK AND CLIFF DEPOSITS

Lithology

Symbol	Lithology
P	pyroxenite
S	syenite
V	hydrothermal vein
W	wollastonite skarn (>10% wo content)
X	pyroxene and melanite garnet skarn (<10% wo content)
C	calcsilicate
G	garnetite
T	metasediment (calcareous siltstone and/or marble)

Mineralogy

Symbol	Mineral
wo	wollastonite
gt	garnet
px	pyroxene
ti	titanite
fd	feldspar
bt	biotite
ap	apatite
qz	quartz
cc	calcite
rh	rhodochrosite
ep	epidote
py	pyrite
si	siderite
mt	magnetite

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
BTNK - 96 - 05																		
0	2.13																	casing
2.13	6.1	94																
2.13	4.72		W	90	gt	0	0	0	cc	0	0	0	0	si	0	0	0	Wht. (#28) and lt. grn. (#21) wo.; core broken in 20 places and is crumbly and mod. porous. Wo. not foliated (massive) and contains pods of lt. grey limest. (2.5x2.5 cm). <5% gross. gt (orange) in linears (irreg) Minor faint lt. grn. layering. ~5% calcite + siderite
4.72	4.82		T?	0	0	px	0	0	cc	0	0	0	0	0	0	0	0	Layer of lt. grey limestone (10cm wide); rimmed by ~1mm wide discontinuous lt. green layer of px. +/- wo.
4.82	6.15		W	90	gt	0	0	0	cc	qz	0	0	0	0	0	0	0	White wo., massive as described above (2.13-4.27m). Wo. is v. fine-grained. Contains pods of limestone (lt. grey) 7 cm long. ~5% gross. gts (orange) in irreg. linears. <<1mm wide lt.-dk. grey qtz. veins
6.15	6.25	98	W	70	0	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. grey-green 6 cm wide layer of coarse-grained calcite (grains up to 3mm wide). Contains vein of lt. green wo. containing interstitial calcite. (2 generations of wo.?)
6.25	6.98	98	W	80	gt	0	0	0	cc	0	0	0	0	0	0	0	0	White wo. w./ pod foliation defined by lt. green layers. ~70% orange gross. gt occurring in veinlets and is dispersed throughout, gross. veinlets from 2-8mm wide, veinlets parallel to foliation (HA:65). Grey-green limestone pods (8cm wide)
6.98	7.18	98	W	75	gt	0	0	0	0	0	fd	0	py	0	0	0	0	Same wo. as above c/c by a grey-pink 2.5cm wide vein of k-spar (grains 2-4 mm long) w./ minor pyrite and dispersed lt. brown-dk. brown mel. gt. Both vein and surrounding wo. are c/c by 2-3 mm wide lt. yellow, hard vein which branches out
7.18	7.9	98	W	90	gt	px	0	0	cc	qz	0	0	py	0	0	0	0	Wht.-lt. grn. wo. as described above. Contains 2 irreg. layers of lt. grn. px. <2% gross gt. occurs. Locally wide zone containing complex pattern of gross. and px. layers w./ in wo. 2 cream veins of grey-pink qtz. + wht. cc w./ minor py. <<1mm wide qtz. selvage
7.9	8.65	98	W	90	0	0	0	0	0	0	fd	0	0	0	0	0	0	Wo. as above but exhibiting slightly diff. texture; texture consists of wht. fine-grained wo. irreg. patches intergrown w./ lt. green irreg. patches of wo. Feldspar veinlets <1mm wide (lt. grey) cut wo. at different angles (but predominantly HA:80)
9.15	12.2	100																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
8.65	9.35		W	80	gt	0	0	0	cc	qz	fd	0	0	0	0	0	0	Wo. as described above but containing ~15% gross.gt which occurs in patches 6-7 cm long.Gross has k-spar surr. it.,c/c by qtz.vein.'Cloud'-like patch of px. locally rimmed by mel. or gross .Lt.grey and white vein(k-spar+cc?)w./ 1mm wide rusty selvage,w/py
9.35	12.4		W	90	gt	px	0	0	cc	qz	0	0	0	0	rh	0	0	Whole sec. is consistant wo. which consists of white patches of wo. intergrown/interlayered w./ lt.grn. patches of wo.Lt.green cc veinlets.Gross.gt in linears.Lt.grey limest.Patch of lt.green qtz. c/c by wo. veinlets.Carbonate fractures, layers and veins
12.4	12.7		W	20	0	0	0	0	cc	0	0	0	0	0	0	0	0	Grey. cream and green layered (siliceous sediment) fragment 15-20 cm long in contact w./ limest. (lt.grey);patch of wht. wo. appears w./in limest., both wo. and siliceous sed. c/c by calcite veinlets which stem off of limestone layer.
12.72	14.6		S	0	0	0	ti?	0	0	0	fd	0	py	0	0	0	0	Lt. and dk. grey syenite dyke containing minor diss. py., lt. yellow hard XLs titanite?. Layering of k-spar grains(HA:90). Lt yellow veins(1mm wide) of titanite(?) crosscutting
14.56	14.9		W	20	gt	px	0	0	cc	qz	0	0	0	0	0	0	0	Section dominated by gross. +/- mel(lt.brn. to dk. brn. gt) w./ fragments of limest. and qtz.w./in it(fragments2x1.2cm), trace amts. of lt.grn. px.Minor amts. of wo. w./in gt-rich layer, however a wo-rich zone is present btwn. last section + gt-rich layer
14.86	15.2		W	85	0	px	0	0	0	qz	0	0	0	0	0	0	0	White -lt.green wo.(very pure and fine-grained).Contains patches of lt.green qtz.(3x2cm)(lt.grey in color) which are c/c by wo. vins (white, hard).Trace amts. of px. occurs as small stringers of px.
15.24	18.3	89																
15.2	15.4		W	80	gt	0	0	0	cc	0	0	0	0	0	0	0	0	White wo. w./ 1 cm long patches of green wo. + gt.Gt: ~2% dk.brn. gt.(mel) occurs as a few dispersed grains in wo. matrix. Wo. c/c by 1.5 cm wide green and grey calcite vein
15.4	15.6		W	65	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Same wo. as described above , c/c by irreg. vein 2cm wide w./ lt.green core of calcite and 5mm wide lt. brown-orange(gross?) envelope. Vein contains vugs w./in calcite
15.58	15.7		W	75	0	0	0	0	cc	0	0	0	0	0	0	0	0	White wo. which is interlayered w./ calcite-rich layers 5-7mm wide and lt.green wo. layers 5mm wide;all layers parallel (HA:60); calcite-rich layers are porous and crumbly

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
15.74	16.6		W	65	0	px	0	0	cc	0	0	0	0	0	rh	0	0	Crumbly porous white wo. c/c by irreg. med.green and med.grey calcite vein.Vein is v.porous;it is 6-10mm wide and contains lt.orange envelope conaining lt. orange soft min. which doesn't fizz(rhodochrosite?).Locally lt. orange envelope >4cm wide.Minor px
16.58	16.9		W	90	0	px	0	0	cc	0	0	0	0	0	0	0	0	V. fine-grained wo. pure white w./ minor (<1%) disperserd fine grains of px. Core is highly broken up due to calcite veins <<1mm wide ; wo. however is not at all porous
16.92	17.1		T?	0	0	0	0	0	cc	0	0	0	0	0	0	0	0	Med.-grained (1-2mm long XLs) limestone layer(10 cm wide); equigranular lt.grey color .C/c by a porous calcite vein 3mm wide
17.12	18.8		W	85	0	0	0	0	0	qz?	0	0	0	0	0	0	0	Core is highly broken up however is very competent.V. fine white wo. (same as above) hard(looks like qtz. but isn't). C/c by white wo. veins w./ coarse -grained wo. 1.2mm long XLs; veins are 5-20mm wide
18.29	21.3	80																
18.84	18.9		W	75	gt	0	0	0	cc	0	0	0	0	0	rh	0	0	White wo. w./ ~20% interspersed coarse lt.brown gts.;c/c by 2cm wide porous calcite vein w./ 1 cm wide diffuse orange envelope of soft, orange mineral(rhodochrosite?)
18.94	19.1		W	99	0	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ <1% px. XLs lightly dispersed throughout
19.09	19.6		W	60	gt	px	0	0	cc	0	0	0	0	0	rh	0	0	White wo. w./ interspersed fine-grained px. c/c by lt. brown garnetite layers 1-2cm wide (HA:75); minor cc is 2mm wide envelope around gtite layer,garnetite layer contains ~5% interstitial wo.Crosscutting wo. and gtite is calcite vein;pink carbonate (rh?)
19.63	20.1		W	85	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White wo. w./ ~5% interspersed lt.brown (andr.) gt and ~1% px. as 1mm wide layers (HA:50); wo. is coarse locally (up to 2cm long). Calcite vein 1 mm wide c/c wo.
20.08	20.3		W	80	0	0	0	0	cc	0	0	0	0	0	0	0	0	Highly broken up core(only fragments left); consists of same wo. as described above and has calcite along broken surfaces(previously calcite veins)
20.28	20.7		W	95	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Core broken in 4 places only ; white wo. w./ ~2% px. as diffuse wispy layers(HA:49) and as interspersed grains. One 2mm wide lt. brown andr, gt layer c/c's wo.Wo. is c/c by 2 calcite veins ~1mm wide
20.68	21.4		W	90	gt	0	0	0	cc	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~4% interspersed lt. brown (andr.) gts; core is highly broken up again and broken surfaces contain calcite(once were calcite veins). Lt. brown gt(andr.) is 2mm wide layer w./in wo.

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
21.34	24.4	90																
21.38	22.4		W	90	gt	px	0	0	cc	0	0	0	0	si	0	0	0	White-lt. green wo. w./ ~3% px. as dispersed fine grains + ~3% lt. brown (andr.) gt as dispersed coarse grains 2-7mm wide, and as 1mm wide layers(HA:68). Wo is c/c by 1mm wide calcite/siderite veins; veins are at different orientations(HA:75,30,55)
22.38	22.6		W	80	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Core is highly broken up and consists of same wo.as above containing more gt(~10% of section) and ~1% px.(one linear patch). Wo. is c/c by numerous calcite veins(<1mm wide). Locally wo.grows radially w./ XLs 1 cm long
22.58	22.8		W	95	gt	0	0	0	0	0	0	0	0	0	0	0	0	White-lt. green wo. w./ ~3% lt. brown (andr.) gts as dispersed 2-5mm wide grains; wo. is fine-grained. Core is broken in 2 places
22.78	23.7		W	65	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Lt. green -grey wo. c/c by lt.brn andr. + px. layer. Core broken in only 8 places.Gt + px layer is irreg., 1-2 cm wide and contains 1mm wide px envelope.1cm wide white wo. vein cuts across wo. and may be assoc. w./ gt. + px. 1 calcite vein c/c's gt+px
23.65	24.1		W	70	gt	px	0	0	cc	qz	0	0	0	0	0	0	0	Lt. green wo. w./ ~10% lt. brown(andr.) gt. and ~3 %px.Gt occurs as dispersed 5mm wide grains along a band.Px. is interstitial in gt-wo. matrix.One qtz. vein w./ 9mm wide carbonate envelope and 3mm wide px. envelope inside carbonate envelope
24.09	24.4		W	90	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. green wo. w./ ~4% lt.brown gt(andr.) dispersed throughout. Wo. is c.c by <1mm wide calcite veinlets(6 in all). Minor (2%) orange hard mineral (gross) at end of section
24.39	27.4	90																
24.39	24.8		W	70	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Lt. green wo. w./ ~15% lt.brn(andr.) gt and ~5% interstitial px.; gt and px. are dispersed w./in wo. matrix. ~ten <1mm wide calcite veinlets c/c by wo. Core is broken in 2 places
24.84	25		W	68	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Same wo. as above but core is moderately broken up; broken surfaces contain calcite(previously cc veins)
25.04	25.3		W	65	gt	px	ti?	0	cc	0	0	0	0	0	0	0	0	Same wo. as above which is c/c by pxite. dyke 12 mm wide. Dyke is med.green and contains px. and ~15% calcite, has a 2-4mm wide envelope of lt. brn.(andr.) gt which locally contains dk.brn cores (melanite) and dk. yellow grains of titanite

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
25.34	27		W	80	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Lt. grn. wo. w./~10%lt.brn(andr.) gt interspersed in wo. matrix and ~10% px. as 5-10mm wide layers(HA:50;3 layers in all).Wo. contains bands(1-2mm wide) of pure wht. wo.(HA:85);these bands contain lt.brn.gt as well .Core is moderately broken up w./ cx
26.98	27.4		?	0	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Garnetite-k-spar-diopside layer. Gt: ~80% of gt is lt.brn., ~20% is dk.brn. mel. K-spar and diopside are interstitial and constitute ~30 % of layer. Three calcite veins cut layer(<1mm wide)
27.44	30.5	90																
27.44	27.7		W	50	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. green wo. w./ ~30% gt(lt.brn.cores, dk.brn. fims) dispersed w./in wo. matrix and w./in 6mm wide layers(HA:80). A 2 cm wide irreg. white envelope surrounds gt layer and contains calcite
27.69	27.9		W	80	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. green fine-grained wo. w./ ~5% lt.brn. gt (andr.) dispersed w./in wo. matrix. C/c by <1mm wide calcite veins. C/c by 3mm wide med.green calcite veins which contains andr, gts in them (HA:85)
27.86	28.9		W	80	gt	0	0	0	cc	0	0	0	0	si	0	0	0	Same wo. as above but core is highly broken up ; some broken surfaces contains siderite (rusty carbonate)(HA:65).1% k-spar as k-spar vein(3mm wide) contains ~5%mel gt + ~5%px.3mm wide calcite vein. ~5-10% lt.brn. andr, gt dispersed throughout wo.matrix
28.86	29		W	95	gt	0	0	0	cc	0	0	0	0	si	0	0	0	Same wo. as above but core in one piece; no px., minor gt(5%)
29.02	29.1		?	0	gt	px	0	0	0	0	fd	0	0	0	0	0	0	1.5 cm wide feldspar vein(planar) w./ sharp contacts; contains ~50% k-spar, ~30% px., ~20% mel.gt.(dk. brn. gt)
29.07	29.5		W	85	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Lt. green fine-grained wo. w./ ~5% lt.brn.(andr.) gt dispersed throughout wo. matrix ; gts locally have dk. brn. cores(mel.gt. cores); ~2% px.(diopside) occurs as dispersed fine grains w./in wo. matrix. C/c by 2 calcite veins(HA:55) <1mm wide
29.49	31.2		W	65	gt	px	ti	0	cc	0	0	0	0	0	0	0	0	Lt. grn. fine-grained wo. w./~5%px as fine-grained px XLs interspersed w./in wo. matrix and w./lt.brn. gt(~15%) as clumps of grains w./in wo. matrix.C/c by med.grn. porous vein containing cc and gt and honey yellow titanite.All c/c by cc lt.grey veins
30.49	33.5	80																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
31.24	32.2		W	70	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Fine-grained lt. green wo., crumbly and containing abundant cc veining(core is highly broken up-fragments only). Wo. contains~70% lt.brn. gt as dispersed grains w./in wo.matrix;commonly gt occurs w./ med.gree carbonate in interstices of wo. + gt
32.21	33.7		W	85	gt	px	0	0	0	0	0	0	0	si	0	0	0	Lt.grn. fine-grained wo. c/c by lt.brn.gtite veinlets;core is competent + only broken in 8 places.Gt:lt.brn. locally w./dk.brn. cores(andr.).Gt veinlets are 2 5mm wide,irreg.(HA:75) and contain med.green cx. zones.Minor px.,gt in wo. matrix.C/c by si vein
33.54	36.6	100																
33.67	34.1		W	70	gt	0	ti	0	cc	0	0	0	0	0	0	0	0	Lt. grn. wo.(fine-grained) as described above;contains abundant gtite layering:irreg. stringer 2-6mm wide containing euhedral mel.gt.(dk.brn.) rimmed by lt.brn.gt(andr;HA:70-80).Med.grn. cx layers sub-parallel to gtite layers. Minor amts dk.honey ylw. ti
34.07	35.5		W	80	gt	0	0	0	cc	0	0	0	0	0	0	0	0	White-lt.green wo. (fine-grained) containing 2-10mm wide irreg. layers of lt.brn. gt(HA:65) which contain interstitail wo. and med.green porous carbonate lenses 2-3 mm wide. Wo. is c/c by white calcite veins 3mm wide(cream color;HA:70) which are v.porous
35.49	35.8		W	50	gt	0	0	ep	cc	0	0	0	0	0	0	0	0	Lt. green wo. (fine-grained) c/c by lt.brn. gt(andr.) + med.green carbonate vein 2 cm wide containing minor amounts(~5%) pistachio green soft mineral(epidote?)(HA:80);parallel to the vein are irreg. 5mm wdie lt.brn(andr.) gt veinlets
35.79	35.9		W	65	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. green wo.(as above) c/c by 2-5 mm wide lt.brn. gtite layers(same as above), however, core is highly broken up
35.89	36.2		W	30	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Lt.green-white wo. c/c by lt.brn. gt(andr.) + mnor med.green carbonate(same as described above). Parallel to vein is a marble band(lt.grey) >1cm wide(lt. green w./ a dk.green band(2mm wide))
36.16	36.4		T?	10	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. green and grey marble in contact w./ layer of white wo.:(contact is HA:85). Wo. contains minor amounts of lt. brn. gt(andr.)
36.39	36.6		W	50	gt	0	ti?	ep	cc	0	0	0	0	0	0	0	0	White wo. w./ stringers 1-10mm wide of lt.brn.andr.gt (HA:85); also in stringers minor bands 1mm wide parallel to others of lt.orange(gross?) gt and minor amounts of pistachio green mineral(~5%)(titanite or epidote). Lt.grn. marble layer in contact w./ wo
36.59	39.6	99																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
36.59	36.8		W	85	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. green wo. w./ ~10% lt.brn. andr. gt in porous calcite bearing stringers; core is fractured moderately
36.79	37.1		W	70	gt	px	0	0	cc	qz	0	0	py	0	0	0	0	White wo. layer in between dk. grey pyrite-bearing qtz. layer and med.green marble layer; wo. layer is 3cm wide; qtz. layer contains veinlets of lt.brn. gt(andr.) and minor px; qtz. and marble layers are parallel (HA:65)
37.09	37.5		W	60	gt	0	ti?	ep	cc	0	fd	0	0	0	0	0	0	Lt.brn. gt-rich vein containing k-spar, minor amts. of carbonate + pistachio green min.(epidote?titanite?);this vein c/c wo. which contains ~10% v.lt.brn(gross?)gt dispersed w./in it.Coarse wo. envelope around vein.Marble pods. Section c/c by qtz. vein
37.49	38.1		W	75	gt	px	0	0	cc	qz	0	0	0	0	0	0	0	White-lt.green wo. w./ four 2x3cm pods of lt.grey marble, interspersed lt. brn-orange gt(gross?) along bands(HA:58); parallel to those are 5mm wide lt.green px.-rich layers(HA:58). Wo. is c/c by <1mm wide qtz. vein
38.09	38.3		W	60	gt	px	ti?	0	0	0	0	0	0	0	0	0	0	White-lt.green wo. c/c by 2cm wide lt. and med. grn. px.-rich shear zone.4mm wide subhedral dk.brn. gts w./ shear "wings" which indicate right lateral shear;shear zone contains ~5% yellow-green hard mineral.Wo. surrounding shear has ~20% lt.brn.coarse XLs
38.29	38.6		V?	0	gt	0	ti?	ep	cc	0	0	0	0	0	0	0	0	Porous vein of ~50% lt.brn. gt w./ med. green carbonate(fizzes) and minor amounts of pisachio green mineral (titanite?epidote?). Vein c/c's wo.
38.59	38.8		W	80	gt	px	0	0	cc	qz	0	0	0	0	0	0	0	Lt. green wo. w./ ~3% lt.brn(andr.) gt dispersed in wo. matrix, ~20% px. as dispersed fine grains w./in wo. matrix. Wo. c/c by 1cm wide qtz. vein w./ 1mm wide calcite envelope
38.79	39.4		V?	15	0	0	ti?	ep	cc	0	0	0	0	0	0	0	0	Lt. brn. andr. vein w./ med.green carbonate and minor amounts of pistachio green mineral(titanite or epidote?)(same vein as described above); vein is irreg. and c/c's lt. green wo.
39.39	39.6		W	30	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Lt.grn.wo. w./minor interspersed lt.brn-orange(gross?) gt XLs dispersed w./in wo. matrix.Wo. is c/c by med.grn. carbonate vein(irreg.)>4cm wide which dominates the core;vein contains ~20-30% lt.brn.(andr.)gt in patches.1mm wide calcite veins c/c gt and cx
39.63	42.7	96																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
39.63	40		V?	0	gt	0	0	ep	cc	0	0	0	0	0	0	0	0	Med. green carbonate vein w./o wo. surrounding it; form 39.88 - 39.98m is mostly lt.brn.gt w./ minor amounts med. green carbonate and epidote(?). 3mm wide vuggy calcite vein
39.98	40.6		W	60	gt	0	ti?	ep	cc	0	0	0	py	0	0	0	0	White-lt.green wo. w./ 2-3mm wide lt.brn. stringers of gt; wo. is interlayered w/ med.green marble layers 1-3mm wide(HA:89). Minor epidote? titanite?. Wo. content decreasing towards downhole of section. Trace amounts of pyrite observed w./in marble
40.55	41		T?	0	gt	0	0	ep	cc	0	0	0	0	0	0	0	0	Med. green marble containing minor amounts of pistachio green mineral(epidote?); epidote(?) rims mel. gt grains in marble(epidotized mel. gt?). Marble c/c by vuggy calcite veins 2-3mm wide
40.95	41.3		T?	0	gt	px	0	ep	cc	0	0	0	0	0	0	0	0	Marble(same as above) however containing ~15% pistachio green epidote(1.5x3cm grains); minor amounts of dispersed orange gross. gt
41.3	41.4		T?	0	0	0	0	0	cc	0	0	0	0	0	0	0	0	3 cm wide band of dk.grey-green marble c/c by many <<1mm wide white calcite veins.
41.35	41.8		T?	0	gt	0	0	ep	cc	0	0	0	0	0	0	0	0	Marble(lt.-med.green) w./ interspersed orange gts(gross.); contains layers of gtite (9-40mm wide) of pink gt(gross.). Gtite layers contain ~10% pistachio green epidote(?). Epidote(?) also forms 1cm wide bands parallel to layering
41.75	42		W	40	gt	px	0	ep	cc	0	0	0	0	0	0	0	0	Marble which is c/c and surrounded by fine-grained white wo. w./ minor px. Section is cut by lt.brn. gtite(andr.) layer w./ interstitial med. green carbonate(this layer is porous). Gt layer contains minor (~10% of layer) pistachio green epidote
42	42.7		W	30	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Marble pods 8.5 x 4 cm(lt.grey in color) surrounded by white fine-grained wo.; wo. c/c marble(HA:78). ~1% of section is v. it.brn. gts(euhedral) w./in wo. layers
42.68	45.7	72																
42.68	42.9		W	30	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Core is highly broken up(fragments only). White fine-grained wo. w./ fragments of qtz.(chert) 3x6 cm. Fragments of marble occur w./ small(5-10mm) pods of wo.
42.93	43.3		W	20	gt	px	0	0	cc	0	0	0	0	0	rh	0	0	Marble(lt.green) interlayered w./ white fine-grained wo.(HA:80).Parallel to banding are med. green porous layers of carbonate + pink soft cx (rhodochrosite) bands 5mm wide.Minor amounts of epidote(?)(pistachio green) parallel to HA:80.Gts at down hole end

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
43.3	43.4		P	0	0	px	0	0	0	0	0	0	py	0	0	0	0	Pxite dyke (sharp contact) contains px.(augite) and minor (~4%) amounts of euhedral pyrite
43.35	43.6		P?	0	gt	px	0	0	cc	0	0	0	py	0	rh	0	0	Dk.green chloritized pxite w./ ~5% py and veinlets of lt.green and rusty px(?) <<1mm wide(HA:85).Pxite is c/c by med. green carbonate vein 2cm wide containing ~30% lt.brn.(andr.) gt.Vein contains 1cm wide envelope of pink cx(rhodochrosite)
43.59	43.8		W	20	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. grey marble layers 3cm wide (HA:64) interlayered w./ white fine-grained wo. which contains ~15% lt.brn.(andr.) gt
43.79	44.1		W	30	0	0	0	0	cc	0	0	0	0	0	rh	0	0	White fine-grained wo. w./ lt.grey marble layer 1 cm wide. Wo. + marble c/c by vuggy calcite vein (euhedral calcite) 5mm wide(HA:70). The wo. w./in the core is pink (rhodochrosite alt. envelope around calcite vein?)
44.09	44.2		?	0	gt	0	0	0	0	0	fd	0	0	0	0	0	0	Lt.grey k-spar w./ ~3% mel. gt dispersed w./in matrix;grey-pink calcite vein c/c's k-spar(4mm wide). Calcite XLs grow parrel and at an angle to vein wall, vein has <1mm wide se;vage of mel.gt(?)
44.19	51.8		S	0	0	px	0	0	cc	0	fd	0	0	0	0	mt	0	Melasyenite: ~30% px., 10% hbl(elongate tabular XLs, dk.green, 60/120 cleavage) in k-spar groundmasss. Calcite vein containing acicular calcite(HA:80); parallel metasyenite contains abundant magnetite(pervasive)
	EOH																	

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
BTNK - 96 - 06																		
0	2.13																	casing
2.13	6.1	69																
2.13	2.63		core loss															Core loss(assumed)
2.63	3.98		W	65	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. + marble in foliated relationship(bedding?).Wo. finely Xline-but locally up to 0.5 cm in length w./fine,diss,px.XLs.Locally wo. is porous + crumbly.Marble/carbonaceous rock w./minor wo. - is lt.bluish-grey.Gts? are alt. to buff + in wx pockets.Cc fr.s
3.98	4.48		core loss															Core loss(assumed)
4.48	4.87		W	80	0	0	0	0	cc	0	fd	0	0	0	0	0	0	Wo. + marble. As above - w./ multiple k-spar fr.Pods of altered wo. are crumbly and lt.brn.-green
4.87	4.97		core loss															Core loss(assumed)
4.97	5.33		W	85	0	0	0	0	cc	0	fd	0	0	0	0	0	0	Wo. + marble. As above - at bottom of section, core is v.crumbly and leached? altering. Mainly carbonate/calcite w./k-spar XLs loosely held together by powdery calcite
5.33	5.46		core loss															Core loss(assumed)
5.46	6.1		W	90	0	0	0	0	cc	0	0	0	0	0	0	0	0	Wo. As above - top 32 cm of section cont. as crumbly. XLs of wo. held together by matrix of CaCO3. Zones w./ tiny px. XLs wx. - to vugs
6.1	9.15	87																
6.1	6.57		W	85	0	0	0	0	cc	0	fd	0	0	0	0	0	0	Wo. As above. Porous and crumbly. Foliated zones of px. w./ calcite cement crumbling + XLs of k-spar up to 0.5 cm
6.57	6.77		core loss															Core loss(assumed)
6.77	8.95		W	85	gt	0	0	0	cc	0	fd	0	0	0	0	0	0	Wo. + marble. As above: top 15cm porous, crumbly + vuggy.Down section rock more competent.Sections of marble are irreg. + represent up to 50% of the core locally. Px. v.minor-v.fine,diss XLs.K-spar XLs.Calcite fr.common + irreg. Gts ylw.+orange + wx out
8.95	9.15		core loss															Core loss(assumed)
90.15	12.2	99																
9.15	10.6		W	75	0	px	ti	0	cc	0	fd	0	0	0	rh	0	0	Wo. + marble.As above.Marble can be up to 100% of core locally.Zones of crumbling, loss of cc cement, vugging, assoc. w./k-spar + pxs.At 92 cm down section a 5.5 cm k-spar dyke cuts marble + wo. K-spar has diss. titanite.Soft pink, min along selvages(rh?)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
10.55	11.2		W	75	0	px	0	0	cc	0	fd	0	0	0	0	0	0	Wo. As above. Rock is very crumbly w./ powdered calcite common. Several local sites contain k-spar, + alteration;px. + wo. in centre, then k-spar,+alteration to pink,soft min. adjacent to wo. zones; + are commonly vuggy.Px:minor + v.finely XLine
11.2	12.2		W	25	0	0	ti	0	0	0	fd	0	0	0	rh	0	0	Wo. + k-spar.K-spar dyke(?) is cut by drill hole + is up to 100% of core locally.Wo. is mainly finely XLine except along contact w./k-spar where wo.XLs are coarser +interstitial k-spar. K-spar contains ~5% tiny ti. K-spar contains occ. soft,pink min.(rh?)
12.2	15.2	99																
12.2	13.3		W	50	0	0	0	0	cc	0	fd	0	0	0	0	0	0	Cont. - as above. K-spar dyke cont. w./ wo. + px. Fr. w./ calcite.
13.28	14.4		?	0	0	0	ti	0	cc	0	fd	0	py	0	0	0	0	K-spar. K-spar w./ titanite(1%);occasional wo.XLs and feldspar phenocrysts. Fr. w./ pyrite cubes - hematite. Fr. w./ calcite + vugging.5cm.
14.38	15.2		G	15	gt	px	0	ep	cc	0	fd	0	0	0	rh	0	0	Garnetite + wo. + k-spar.Lt.brn. to buff gite is saturated w./ k-spar. Varying amounts of wo. are interspersed in pods. Locally gt altering to apple green. Significant amount of pink carbonate min. - rh? Frs. w./ cc.Diss.green px., ep locally
15.24	18.3	87																
15.24	17		W	90	gt	px	0	0	cc	0	fd	0	py	0	0	0	0	Wo. + px.Fine to coarse Xline wo. w./diss.px.XLs in foliated pattern.K-spar is interstitial w./ gts and wo. Irreg. cc fr.Rh(?) along contact of fr.Gt altering w./centers - pale ylw-grn. Local pods of k-spar w./ zoned gts(mel. in centre).Diss. py in k-spar
16.97	17.9		W	90	gt	px	0	0	cc	0	fd	0	py	0	0	0	0	As above. Section all broken. K-spar in wo. - as above for top 50 cm. Rock is broken + crumbly down section.
17.89	18.3		core loss															Core loss(assumed)
18.29	21.3	90																
18.29	19		W	45	0	0	0	0	0	0	0	0	0	0	0	0	0	Wo.(as above?)
18.95	19.3		core loss															Core loss(assumed)
19.25	21		W	95	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Wo. As above. Only minor px. XLs. Wo. XLs are v.fine(<0.5mm) to coarse >0.5cm. Rock is v.porous + calcareous.Px + k-spar dyke ~ 1.13m from top of section;gt along tiny fractures. Rh in pod of 12cm wide dyke.Gts diss. in lower 20cm of core(mel w./andr rim)
21.04	21.3		W	95	gt	px	0	0	0	0	fd	0	0	0	0	0	0	?

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
21.34	24.4	90																
21.34	22.5		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. Wo. is fine to coarsely Xline w./ varying amounts of px. - up to 80% of core locally. Gts are zoned - w./ mel, in the centre and distinct gts packed in foliation bands. Lower 25 cm are porous and crumbling.
22.5	22.8		core loss															Core loss(assumed)
22.8	23.7		W	60	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. + gt. As above - except % px. + gt. increases. Rock is porous + vuggy + crumbling. Cement is dissolving. Highly calcareous.
23.74	24.4		W	75	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. + gt. As above - % px. lower. Vugging w./ calcite. Zones of garnetite + minor px. foliated - wx - causing vugs. Rock is crumbly + v.calcareous
24.39	27.4	81																
24.39	25.6		W	85	0	px	0	0	0	0	fd	0	0	0	0	0	0	Wo. + px. As above. Zone of k-spar at 0.12m down section - k-spar; interstitial in irreg. fracture ~8cm wide. Irreg. foliation - core v.porous + crumbly + carbonaceous. Zoned gts, as above, + localized concentrations of px. in foliated stringers, vuggy here
25.57	26.2		core loss															Core loss(assumed)
26.15	27.4		W	95	gt	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. Rock is all broken + crumbling. Mainly finely Xline wo. + diss. px. + gts. White
27.44	30.5	99																
27.44	28.8		W	90	0	px	0	0	0	0	fd	0	0	0	0	0	0	Wo. + px. As above. Rock all broken. At 25 cm down section k-spar fr. and interstitial k-spar for 7cm. Core is crumbly, + porous. Calcareous locally.
28.76	30.5		W	85	gt	px	0	0	cc	0	fd	0	py	0	0	0	0	Wo. As above. 15cm down section - k-spar in fr. - 1.5 cm wide + interstitial in adjacent core. Some carbonate in irreg. patterns in foliation. Rock porous but not crumbly. Wx + vugging occurs at pxs. + gts. Locally px. banding includes ~0.5% py. Fr w./ cc.
30.49	33.5	97																
30.49	31.3		W	85	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. + px. Wo. is generally finely Xline w./ some coarser XLs up to 2-3mm. Rock is foliated w./ layering of pxs. and parallel layers of diss. gts. Gts are lt. brn + lt. olive green. Rock is porous + wx + vuggy along gt + px. foliation. Px up to 20% of rk. Fr. w./ cc

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
31.28	31.7		W	30	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Px. + gt. Px. + gt content increases from above. Px. occurs in concentrated zoned and diss. in wo. Gt is zoned (mel. in center) + grades to massive gt locally. Rh(?) occurs locally along stringers + pods. K-spar along frs. + foliation. Gtite vuggy w./ cc XLs
31.68	32.3		?	0	0	px	0	0	0	0	fd	0	0	0	0	0	0	K-spar + px. Massive k-spar w./ px. All v. finely Xline. Pyrite finely diss. throughout < 1%. Some cubes along fracture planes up to 2mm. alt to hematite. Rock is c/c by numerous irreg. frs. + infilled w./ gt - v. finely Xline. Fr. w./ k-spar
32.32	32.7		G	15	gt	0	0	0	cc	0	fd	0	0	0	rh	0	0	Garnetite. Garnet + interstitial wo. + k-spar. Lt. brown. Locally - pink, soft rhodochrosite(?). Rock is vuggy + porous. Fr. w./ calcite
32.68	33.5		W	30	gt	px	0	0	cc	0	fd	0	0	0	rh	0	0	Px. + wo. Finely Xline px. + k-spar is irreg. intermixed w./ foliated wo. Px. + k-spar % varies, but up to 70% of rock locally. Gts are diss. + follow foliation pattern. K-spar is interstitial + along hairline frs. Locally, zones of gtite. Px. is locally soft
33.54	36.6	93																
33.54	35.7		W	90	gt	px	0	0	0	0	fd	0	0	si	0	0	0	Wo. + px. Upper 9cm are predom. px. + wo. Down section: wo. w./ finely Xline px. + diss. gts. Irreg. hairline frs. contain siderite. Wx along gt layers + px - causing microvugs. Zones of increased gt + px wx. + vuggy. K-spar is clear. Carbonate in small local layers
35.74	36		core loss		gt													Core loss (assumed)
35.95	36.6		W	90	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Wo. + px. - as above - rock all broken + crumbling
36.58	39.6	98																
36.58	39.6		W	90	0	px	0	0	cc	0	fd	0	0	0	0	0	0	Wo. + px. As above at 33.54m; carbonate in pods locally up to a few cm long. Zoned gts along foliated planes. Fr. w./ cc. Rock is porous, wx + pitted. Rock becoming crumbly + powdery down section. At 56 cm from base a 3cm wide px + gt dyke cut by k-spar fr.
39.63	42.7	99																
39.63	42.7		W	90	0	px	0	0	cc	0	fd	0	0	0	0	0	0	Wo. + px. Fr. w./ vugging - cream colored k-spar XLs layered - up to 1.5 cm wide; calcite in fr. Core is porous + less cemented down section; v. calcareous. Brown calcite along multiple hairline fractures.
42.68	45.7	99																
42.68	43		W	80	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Wo. + px. Increasing pxs + gt along foliation plane; calcareous vugging

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
43.02	44.1		W	25	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Garnet + wo. + px. Massive gts - garnetite -along foliation w./ px. + wo. interstitial. K-spar is also present interstitially. Locally pods of soft pink min. Vugging throughout + along fractures. Fr. w./ calcite. One zone of wo. + xp. only, 65cm down section
44.07	44.4		P	0	gt	px	0	ep	0	0	fd	0	0	0	0	0	0	Pyroxenite dyke. Finely Xline pxs. w./ numerous irreg. epidote hairline fractures. K_spar + gts for several cm on either contact sidew./ wo. + px. Dyke at ~20 deg. from horizontal. One 1.5 cm xenolith(?) of k-spar in pyroxenite
44.39	44.6		W	85	0	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + pyroxene. Foliated, fine to coarse Xline wo.(up to 1.5 cm long)
44.59	45.7		X	10	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Garnet + wo. + px. As at 43.02 m. Fr. w./ k-spar; some w./ calcite rhombs + vugs
45.73	48.8	99																
45.73	48.8		W	25	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Garnet + wo. Gt XLs, form <1mm to 1cm, are lt.-dk.brn.(mel. occasionally in centre). Gts are set in matrix. of wo. + px. K-spar is an interstitial mineral. Frs. w./ cc + vugging. Soft, pink min. adj. to fractures. Fr. w./ k-spar 1-5mm wide. Core is vuggy.
48.78	51.8	99																
48.78	51.8		W	20	gt	0	0	0	0	0	fd	0	0	0	0	0	0	Gt. + wo. - as above. Fr. w./ k-spar. Last 0.36m more massive - garnetite
51.83	54.9	99																
51.83	52.2		?	0	0	px	0	ep	cc	0	fd	0	0	0	0	0	0	K-spar dyke + px. Massive microXLine k-spar(green) w./px? Some k-spar phenocrysts - long + tabular - as porphy in matrix(some zoned). Fr.w./ calcite; some w./ extensive vugging + calcite XLs. Epidote, locally replacing?
52.15	54.9		W	85	0	px	0	0	cc	0	fd	0	0	0	0	0	0	Wo. + px. Irreg. foliated rock w./wo. + px. diss. in rock + in foliated stringers. Fr.w./calcite. Rock is fragmental in wo. down section from the k-spar dyke. Gts are zoned. At 0.97m stringers of marble begin to appear(up to 1 cm wide + 15-20 cm long).
54.88	57.9	99																
54.88	55.9		W	85	0	px	0	0	cc	0	fd	0	0	0	0	0	0	Wo. + px. - as above
55.92	57.9		W	40	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Wo. + px. + carbonate. As above - w./ increased volume of carbonate, up to 90% of core locally. Fr. w./ calcite. K-spar occurs as planes in foliation. In k-spar - gts are aligned - has k-spar come into former shear zone?

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
57.93	61	90																
57.93	58.3		W	85	gt	px	0	ep	cc	0	0	0	0	0	0	0	0	Wo. + px. + carbonate - as above. Diss. gts - alt to epidote? Pistachio green
58.29	58.7		W	40	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Wo. + k-spar + gtite. K-spar has saturated a zone ~9cm wide-of px. +wo. Gtite significant locally-up to 10cm long. K-spar has dk. brn-bk gts diss. + lt. green (pyroxene?) min. Foliated carbonate + px. w./ adj. soft, pink min, Dk. red in fractures-hematite?
58.72	60.4		P	1	gt	px	0	ep	0	0	fd	0	py	0	0	mt	0	Px. + k-spar. Px. w./ interstitial k-spar -up to 40% w./ phenocrysts up to 1 cm. Epidote is common-replacement of gts? Frs. w./k-spar. Bk. magnetite in pods up to 5 cm long. Small xenoliths of pxite ~2cm. Pyrite in cubes. Wo alt. to pink XL. Gtite in fr.
60.42	60.7		core loss															Core loss(assumed)
60.72	61		W	40	0	px	0	ep	0	0	fd	0	0	0	0	0	0	Wo. + px. + carbonate. As at 58.29 above, w./o gtite. K-spar has infiltrated rock. Significant epidote alteration evident
60.98	64	98																
60.98	61.7		?	15	gt	px	0	0	cc	0	fd	0	py	0	0	0	0	Px. + k-spar + carbonate. Irreg. foliated px. +, k-spar + wo., and carbonate. Gts are finely diss. w./ wo. - v. finely Xline. Px. dyke at 50deg. ~0.5 cm wide. Zone of aqua carbonate w/. large pyrite framboids up to 4-5mm. Wo +gt w./o k-spar crumbling+ vuggy
61.71	64		W	85	0	px	0	0	cc	0	fd	0	py	0	0	0	0	Wo. + px. Wo. is finely Xline + crumbling; soft locally. Px are finely diss. in wo. Rock is porous, except in local zones of k-spar saturation. Fr. w./ calcite. Zones of px.-rich rock in foliation pattern. Pxite has Fe-stain - pyrite finely diss. - hematite.
64.02	67.1	95																
64.02	66.4		W	75	gt	px	0	0	cc	qz	0	0	py	0	0	0	0	Wo. + px. Fine to coarsely Xline wo. + px. Rock is very calcareous. At 18cm a pxite dyke. Pxite contains diss. pyrite + hematite + qtz. stringers of beige cryptoXline. Fr. w./ calcite. Carbonate stringers + pods cont. in core. Rock porous + locally crumbly
66.36	66.5		core loss															Core loss(assumed)
66.51	67.1		W	90	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. + px. Rock is v. white, porous + crumbly. Wo. is v. fine - powdery w., tiny px. XLs diss. Gt ~1-2mm. Rock is calcareous
67.07	70.1	90																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
67.07	68.3		W	65	gt	px	0	0	cc	0	fd	0	py	0	0	0	0	Wo. + px. Finely Xline wo. w./ fine diss. px. aligned parallel to foliation pattern. Gts are generally diss. along px-wo. boundaries. Layer of px.-beige chert? w./ diss. py is part of foliation. Blue carbonate lenses 40cm down section. Fr.w./cc .Fr.w./k-spar
68.32	69.7		?	10	gt	px	0	ep	0	0	fd	0	0	0	0	0	0	Carbonate + wo. + px. As above but amt. of cx. increases to >50%, up to 100% locally. Zones of k-spar in fr. (irreg.) w., .XLs; vugging+pitting common near gt+px. At 1.1m down section-zone of epidote alt. of px. band in foliation. Px. + marble mixing near bottom
69.72	70		core loss															Core loss(assumed)
70.02	70.1		P	0	0	px	0	0	0	0	0	0	0	0	0	0	0	Pyroxenite - rubble
70.12	73.2	59																
70.12	71		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pyroxenite. V. finely Xline pyroxene w./ some diss. gt. Rock is v. broken - multiple fractures w./ hematite stain
71.03	71.3		W	20	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Pyroxenite + wo. Cutting through pod of foliated wo. (up to half of core is pyroxenite). Contact is saturated w./ k-spar
71.34	71.9		S	0	0	px	0	0	0	0	fd	0	0	0	0	0	0	Melasyenite: Groundmass is k-spar ~ +/- 50% w./ finely Xline pyroxenes w./ porphyritic texture - w./ px. phenocrysts - up to 0.8 cm long
71.92	73.2		core loss															Core loss(assumed)
73.17	85.4	no reco very estimate	S	0	0	px	0	0	0	0	fd	0	0	si	0	0	0	Melasyenite: as above. Core is very broken, significant loss. Gouging - fr. surfaces w./ siderite
	EOH																	

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
BTNK - 96 - 07																		
0	1.52																	casing
1.52	1.66		S	0	0	px	0	0	0	0	fd	0	py	0	0	mt	0	Melasyenite, contains px, abundant magnetite and hbl. and py. w./in k-spar groundmass
1.66	1.96		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	Core is broken up highly;lt.green wo. w./ 2mm wide lt.green px.layers w./in wo.;wo. is fine-grained and locally wo. get up to 8mm long. ~2% med.brn. gt grains 7mm wide are dispersed w./in wo. matrix and contain a 2mm wide lt.brn(gross?) rim
1.96	2.44		W	70	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Lt.green wo. w./ 1-6mm wide px. layers. One 2 cm wide lt.grey marble layer w./in wo. ~7% of section is lt.brn.(andr.)gt dispersed w./in and around a 4mm wide marble layer(HA:70 -parallel to 2cm wide layer)
2.44	2.77		W	50	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Wo. + marble + chert. Lt.grey marble layer(2cm wide;HA:60), pods of chert(10x3cm) surrounded by white wo.;minor px. dispersed w./in wo.
2.77	3.37		W	25	0	0	0	0	cc	0	0	0	0	0	0	0	0	Marble(lt.green) w./ 7-30mm wide white layers of wo.(fine-grained)(HA:65). Minor amounts (~5%) fine-grained px. dispersed w./in wo.
3.37	6.1		W	80	gt	px	0	0	cc	qz	0	0	0	0	0	0	0	Lt.grn.-wht. wo.,v.fine-grained c/c by 5 cc veins(3-18mm wide).~2% of section is lt.-dk.brn gt(mel) pods(9x3.5mm) dispersed w./in wo. matrix and as irreg. layer(HA:10).Lt. grn. qtz. layer grades into a lt.orange gross-bearing(?)layer.~5% section wispy px.
6.09	9.15	98																
6.1	6.4		W	70	0	px	0	0	0	qz	0	0	0	0	0	0	0	Lt. green wo. w./2.4 cm wide cherty(lt.grey,hard) layer(chert has<<1mm wide white veinlets of wo. c/c'ing it;minor amounts (~3%) of px. in 1-3mm wide layers
6.4	7.3		W	80	gt	px	0	0	0	qz	0	0	0	0	0	0	0	Lt.grn. wo.(fine-grained) containing ~1% px as fine grains scattered throughout.W./in wo/ are chert patches 2-4cm wide.Irreg. layer containing qtz,acicular wo.Wo. c/c by whiter, coarser wo. vein.w./envelope of lt.grn px.(HA:70).~1% andr gt grains.
7.3	7.42		?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Qtz layer(HA:05); lt.grey color; qtz is c/c by <1mm wide wo. veinlets. Qtz also c/c by irreg.(secondary?) qtz(?) vein 9mm wide(HA:85)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
7.42	9.15		W	85	0	px	0	0	0	qz	0	0	0	0	0	0	0	White wo. (fine-grained) w./ locally 0.5cm wide patches of px. and lightly distributed px. w./in wo. matrix. 1 chert patch(4x2cm) c/c by numerous wo. veinlets <<1mm wide. 1 patch(3x4cm) lt.green hard wo. Wo is c/c by <<1mm wide qtz. stringers
9.15	12.2	100																
9.15	9.35		W	90	0	0	ti?	0	cc	0	0	0	0	0	0	0	0	Patchy white wo. w./in lt. green wo.; trace amounts of calcite. Locally patches(1x0.5cm) of lt. yellow hard mineral(titanite?)
9.35	9.68		?	0	gt	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt.grey and cream-rusty qtz. layer. Contains ~3% blk mel gt scattered throughout qtz. ~10% of layer is creamy-lt.brn. gt(gross?) as dispersed grains w./in qtz. matrix and as veins <1-2mm wide which c/c qtz(HA:32). 1 5mm wide qtz + cc vein c/c qtz
9.68	9.94		W	50	gt	px	0	ep	cc	qz	0	0	0	0	0	0	0	White wo. c/c by v.lt.brn. gite layer(>4cm wide) containing ~3% lt.grn-ylw soft material(epidotization of gt?), minor amt. of cc in interstices also present; euhedral lt.brn(andr.) gt XLs in wo. matrix. Minor amts. px. in wo. matrix. 3x2cm lt.grey qtz pod
9.94	10		W	50	0	px	0	0	0	0	0	0	0	0	rh	0	0	Lt.green wo. w./ ~2% px. interspersed w./in wo. matrix. Wo. is c/c by dk.grey carbonate vein 2cm wide w./ a 5mm wide envelope of pink, soft material(rhodochrosite)
10.04	10.3		W	75	0	px	0	0	cc	0	0	0	0	0	rh	0	0	Lt.green wo. w./ interspersed ~2% px. XLs w./in wo. matrix. Contains minor rhodochrosite +/- cc in layer 3mm wide(HA:80). 1.5cm wide cc vein(lt.grey. lt.green and cream colored) w./ 1-2mm wide rhodochrosite envelope. 1mm wide dk.-med.grey calcite
10.29	10.8		?	0	gt	0	0	ep	0	qz	0	0	py	0	0	0	0	Qtz. layer(lt.grey) containing trace py, minor v.lt. brn.gt(andr) in veinlets(<1mm wide(HA:28); minor interspersed green-yellow epidote(?)
10.79	11.1		W	85	0	px	0	0	cc	0	0	0	0	0	0	0	0	White fine-grained wo. w./ patches of marble and green wo. Wo. contains ~3% locally dispersed px. XLs w./in wo. matrix
11.09	12.4		?	0	0	0	0	ep	cc	0	fd	0	py	0	0	0	0	Rusty k-spar layer containing abundant rusty veins; k-spar contains euhedral py. Fracture surfaces contain pistachio green mud(gouged epidote?). Rusty veins contain, locally, carbonate cores that are <1-3mm wide
12.2	15.2	95																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
12.4	12.7		T	0	gt	0	0	0	cc	qz	0	0	0	0	0	0	0	V.lt.pink-cream qtz. layer; contains blk. mel .gt in stringers 1-4mm wide w./ irreg. orient. Minor 6mm wide dk.brn. mel. gt grains rimmed by dk.yellow 1mm rim(gross?). Layer is c/c by 1mm wide med. grey qtz. veinlets.Qtz layer contains abundant cc(~15%)
12.71	13.2		W	70	0	px	0	0	cc	0	0	0	0	0	rh	0	0	Lt. green wo. w./ interspersed px. grains(~2%). 4mm wide marble layer in wo.(marble - lt.green).Lt brn. marble layer 6mm wide.Marble + wo. c/c by 2 cc veins 4 and 9mm wide. Veins are vuggy and contain euhedral cc XLs and have 1cm wide envelope of rh
13.2	13.5		T?	0	0	0	0	ep	cc	0	fd	0	0	0	0	0	0	Lt. grey marble layer c/c by: 3 calcite veins 1-2mm wide w./ 2-10mm wide envelopes of pistachio green epidote. Marble is in contact w./ lt. grey/rusty k-spar vein 3 cm wide
13.5	15.4		W	75	0	0	0	0	cc	0	0	0	0	0	rh	0	0	White fine-grained wo.C/c by 5-8mm wide white cc vein, vuggy and containing euhedral cc XLs, w./diffuse envelope of pink carbonate(rh). Irreg. porous patches and layers throughout section containing crumbly wo.+cc.Green + grey cc c/c wo.
15.24	18.3	91																
15.4	15.6		W	60	gt	0	0	0	cc	0	0	0	0	0	0	0	0	White wo. interlayered w./ lt.green marble. Marble layer(HA:70) 2-3 cm wide minor amounts (~5%) lt. brn. (andr.) gts 5mm wide in wo. matrix. Wo. c/c by 3mm wide calcite vein
15.63	16		?	0	0	0	0	ep	cc	0	0	0	0	0	rh	0	0	Core is highly fractured and consists of marble(lt. grey) containing white patches of marble(4cm wide). Stringers of honey yellow soft mineral(epidote + calcite)(2-4mm wide). Minor amts. of rhodochrosite(pink cx)
16	16.9		W	85	gt	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. green wo. containing ~2% lt.brn(andr.) gt in wo. matrix. Wo c/c by 2 lt. grey calcite veins 1mm wide. Two 4-15mm wide lt. grey qtz. layers in wo., qtz.layers are c/c by wo/ veinlets <<1mm wide. Lt.brown and green porous calcite layer
16.88	17		?	0	0	0	0	0	0	0	0	0	0	0	rh	0	0	Core is highly broken up; consists of lt.brn-grey marble w./ minor amts. of pink carbonate(rhodochrosite)
17.03	17.2		T?	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Core is in one piece and consists of same marble described above

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
17.15	17.4		W	55	0	px	0	0	0	0	0	0	0	0	rh	0	0	White-lt. gren wo. w./ <1% px. dispersed along bands w./in wo. matrix(HA:45). Wo. contains layer >2cm wide of marble(same as descr.above);marble contains minor rusty orange patches(1x1cm). Wo. adjacent to marble contains minor rh.
17.35	18.7		W	85	0	0	0	0	cc	0	0	0	0	0	rh	0	0	Wht.-lt.grn. wo. c/c by 1mm wide cc veins(HA:78) w./ 0-2mm wide irreg. diffuse envelopes of pink cx(rh.). Wo. c/c by 7-10mm wide coarse wo. veins w./1mm wide envelopes of lt.grn. carbonate. Interstitial cc in veins.2 chert layers c/c by <<1mm wo. veinlets
18.29	21.3	95																
18.74	19		V?	5	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Wht. wo.(fine-grained) c/c by lt.brn.gtite vein~7cm wide;vein contains med.green cx. in intersticies btwn.lt.brn.gt grains + locally c/c's gt grains.Dk.brn.mel.gts occur w./in 1cm of vein wall and are surr. by lt.brn(andr)gt.Gtite vein has 3mm cc selvage
19	19.6		W	90	0	px	0	0	cc	0	0	0	0	0	0	0	0	White-lt.green wo. c/c by 2-3mm wide white fracture filling of calcite(+/- wo.)(2 veins in all). Trace amounts of px. w./in wo. matrix
19.63	19.9		?	0	gt	px	ti	0	0	0	fd	0	0	0	0	0	0	15 cm wide gt-px vein(same nature as descr. above); massive lt.-med.brn gt(andr+/-ti) w./ interstitial med.green carbonate(vein is porous). Vein grades (towards downhole of section) into px.-rich material which is cored by an irreg. k-spar veinlet(HA:30)
19.85	20.2		W	85	0	px	0	0	cc	0	0	0	0	0	0	0	0	White wo. (fine-grained) c/c by med.green calcite vein ~1cm wide. Wo. contains ~20% px. w./in layer ~6mm wide
20.17	20.3		W	50	0	0	0	0	0	0	0	0	0	0	0	0	0	White wo.(fine-grained) w./ layer of lt.grey equigranular marble. Wo. is coarse-grained adjacent to marble and is c/c by 1.1 cm wide wo. vein(lt.yellow-rusty colored)
20.25	20.9		T?	10	0	0	0	0	0	0	0	0	0	0	0	0	0	Lt.green marble(equigranular) layer w./ pods(4x10cm) of white, medium-grained(6mm long XLs of wo.) wo.
20.91	21.4		W	95	0	px	0	0	0	0	0	0	0	0	0	0	0	White, fine-grained wo. w./ ~5% px. as lightly distributed fine grains of diopside w./in wo. matrix;core is highly fractured from 21.25m - 21.34m
21.34	24.4	85																
21.41	22.1		?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Pale green silicified zone containing marble layers(3mm wide),rusty yellow hard bands(fine-grained silica?), porous patches(1x0.5cm);all layers are subparallel(HA30). Vuggs occur w./in section which are filled w./ round clumps of soft fine-grained wo.

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
22.09	22.2		W	85	0	0	0	0	0	0	fd	0	0	0	0	0	0	Lt. green wo. w./ k-spar vein 6-10mm wide , vein has envelope 2cm wide where wo. is greener than host wall rock; 7mm wide rusty carbonate c/c's k-spar vein parallel to (HA:25)
22.18	22.7		W	80	0	0	0	0	0	qz	0	0	0	0	0	0	0	White wo.(fine-grained) interlayered w./ 4 marble layers(1-2mc wide); 1 chert layer 18mm wide(HA:40)
22.68	22.8		T?	5	gt	0	0	0	0	0	0	0	0	0	0	0	0	Marble(lt.green) w./ ~10% gt(mel. gt rimmed by andr, gt). Minor wo. on either side of marble.
22.81	22.9		W	80	0	0	0	0	cc	0	0	0	0	0	0	0	0	Lt.green wo. c/c by 1cm wide vein(white-lt.grey) of calcite
22.93	23		T?	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Lt.grey -green equigranular marble layer(7cm wide)
23	24.4		W	95	0	px	0	0	0	0	0	0	0	0	0	0	0	White wo.(fine-med.-grained);contains 1x1cm wide chert pods. Wo c/c by 1 2cm wide white vein of coarse acicular wo. Minor(~3%) px. w./in matrix
24.39	27.4	90																
24.39	26.3		W	95	0	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo.;core is highly brokeen up(fragments only), wo.is v.pure. Wo. has ~1%px. dispersed w./in wo. matrix; wo. is crumbly and powdery but doesn't fizz(coarser than more competent wo.) - suggests wo. is c/c by white veins of coarse wo.
26.26	26.4		T?	5	0	0	0	0	0	0	0	0	0	0	0	0	0	Lt.green-grey equigranular marble layer in contact w./ wo.; core in one piece
26.41	26.9		W	95	0	0	0	0	0	0	0	0	0	0	0	0	0	Core is highly broken up; white wo. is crumbly and powdery(but no calcite;ie. doesn't fizz)
26.94	27.9		P	0	0	px	0	0	0	0	0	0	0	0	0	mt	0	Dk.green-yellow brown altered pxite dyke(silicified?) containing minor amts. of poorly magnetic material(pyrrhotite); pxite c/c by <1mm wide, irreg. oriented rusty carbonate veins
27.44	30.5	80																
27.88	30.5		W	85	0	px	0	0	0	0	0	0	0	0	0	0	0	White wo.(fine-grained)crumbly locally and c/c by secondary wo. veins which have white coarse acicular wo., veins are 4-10mm wide and are oriented HA:70. ~2% of core is lt.grey-green bands of marble 0.5-1cm wide. Trace amts. of px. w./in wo. matrix
30.49	33.5	85																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
30.49	33.5		W	90	0	0	0	0	cc	0	0	0	0	0	0	0	0	White fine-grained wo. c/c by ten 5-10mm wide veins of coarse acicular wo. (veins have consistent orientation in unbroken core), veins porous. WO. c/c by three 1-2m wide lt. grey cc veins. Wo. contains 4 marble layers of equigranular cc XLs, also as pods
33.54	36.6	85																
33.54	35.1		W	90	0	px	0	0	cc	0	fd	0	0	0	0	0	0	White-lt. green wo. containing ~3% dispersed px. grains w./in wo. matrix. Wo. c/c by white crumbly carbonate vein 3mm wide. Wo. c/c by pink-orange k-spar vein 1-3mm wide; vein has grains of wo. inside it up to 7mm long
35.14	35.2		P	0	0	px	0	ep	0	0	0	0	0	0	0	0	0	5 cm wide pxite dyke (dk. green) c/c by <1-1mm wide branching veinlets of pistachio green veins of epidote(?) (HA:08)
35.19	36.6		W	90	0	px	0	0	0	0	fd	0	0	0	0	0	0	White-lt. green wo. (fine and med.-grained XLs) w./ ~2% px. dispersed throughout wo. matrix and in 2mm wide layers (HA:58). Wo. is c/c by <1-1mm wide k-spar veins. Wo. is c/c by 1cm wide secondary vein of white coarse wo.
36.59	39.6	95																
36.59	36.7		T?	5	0	0	0	0	0	0	0	0	0	0	0	0	0	Lt. grey-green marble layer w./ 1cm wide wo. band in it; wo band (HA:28)
36.74	37.5		W	95	0	px	0	0	0	0	fd	0	0	0	0	0	0	White-lt. green wo. (fine-grained) w./ ~2% px. dispersed w./in wo. matrix. Wo. c/c by secondary wo. vein. 4.5cm wide containing white coarse acicular wo. In core of wo. vein is interstitial k-spar in between wo. grains. 1 chert pod (2x5cm) c/c by wo.
37.48	37.6		W	95	0	0	0	0	0	0	0	0	0	0	0	0	0	Crumbly wo. zone of lt. green wo. XLs which are 5-6mm long and are aligned perpendicular to vein wall; this zone probably represents a wo. vein
37.63	37.8		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	White-lt. green wo. (fine-grained) c/c by coarse wo. (~9mm long) vein 2.3 cm wide w./ 2mm wide px.-rich envelope. ~5% of section is bright lime green diopside(?) grains w./in wo. matrix
37.83	38		W	60	0	0	0	0	0	0	0	0	0	0	0	0	0	Wo. (white, fine-grained) w./ lt. grey chert layer 7cm wide (HA:55) which is c/c by <<1m wide veinlets of wo. (network of veinlets)
38.03	38.3		W	90	0	px	0	0	cc	0	0	0	0	0	0	0	0	Lt. green-white fine-grained wo. w./ ~5% lime green px. (diopside) grains dispersed w./in wo. matrix. C/c by one 8mm wide calcite vein

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
38.33	38.5		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo.(fine-grained) w./ px.-rich lt.green calc-silicate layer;calc-silicate layer contains minor v.lt.brn. gt (gross?). Calc-silicate px. layer is c/c by wo. (white fine grained). Adj. to calc-silicate is a chert layer(lt.grey) ~5cm wide
38.45	39.3		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	Same wo. as above except contains 2 cm wide bands of porous carbonate-bearing wo.(v.lt.green in color)(HA:70). Wo. c/c by 7mm wide secondary wo. veins. ~5% of section is finely distributed px. grains in wo. matrix.
39.26	39.3		W	70	0	px	0	0	0	0	0	0	0	0	0	0	0	Chert layer in between wo. and pxite dyke(described above); chert c/c by network of wo. veins
39.31	39.6		P	0	0	px	0	0	0	0	0	bt	0	0	0	0	0	Dk. green pxite dyke; dyke is foliated and core breaks into disks. Foliation defined by the alignment of abundant bt. Dyke is calcified in interstices of pxite.
39.63	42.7	99																
39.64	39.7		?	10	0	px	0	0	0	0	0	0	0	0	0	0	0	Lt.grey chert layer in contact w./ pxite and wo.; chert layer is ~7cm wide and is c/c by wo. veinlets(<<1mm wide) and(wo. + px.) veinlets(lt.green in color)
39.74	40.1		W	60	0	0	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo(fine-grained) interlayered w./1 lt.grey-green equigranular marble layer(2cm wide)(HA:86);contains envelope 2-10mm wide of rusty, porous, carbonate-bearing coarse wo. Cherty layer 1-1.5cm wide, c/c and surr. by white wo.
40.14	44.6		W	80	gt	px	0	0	0	qz	0	0	0	0	0	0	0	White-lt.green wo.(fine-grained) interlayered w./ chert layers.Chert layers(1-1.5cm wide;HA:75-80) occur in wo. at frequency of once every 20-30 cm;chert c/c by network of wo. veinlets <<1-4mm wide.~1% of section is lt.brn. gt. Also dispersed px.
42.68	45.7	99																
44.59	45.4		S	0	gt	px	0	ep	0	0	fd	0	0	0	0	0	0	Syenite dyke containing ~75% k-spar, ~10% px., ~10% melgt, ~5% epidote. Locally k-spar is white(naturalite + musc?); syenite is c/c by <1mm wide lt.brn. veinlets of(andr?) gt in irreg. orientations
45.75	48.8	90																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
45.43	46.4		W	85	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Lt.green - white wo. (fine-grained) w./ ~5% px. grains scattered w./in wo. matrix. One k-spar vein(HA:68) 8mm wide containing minor px. and +/-gt(?). Wo. cut by 1mm wide dk.green cc vein.Foliation in wo. (HA:70) defined by aligned px. XLs
46.38	46.6		P	0	gt	px	0	ep	0	0	fd	0	0	0	0	0	0	Pxite dyke 7cm wide; contains ~40% px. w./ ~59% px. and 1% epidote(altered feldspar?). Dyke is dk.green and is c/c by 1-3mm wide veins of lt-dk.brn. melgts;these veins only c/c pxite and not the wo. surr. pxite dyke.Dyke has selvage of feld.-rich material
46.56	47.2		W	95	gt	px	0	0	0	0	fd	0	0	0	0	0	0	White-lt.green wo.(fine-grained) w./ ~1%px. dispersed w./in wo. matrix.Wo. c/c by secondary wo. veins 4-5mm wide containing white coarse acicular wo.(0.5x1cm) pod of k-spar + px. + melgt in wo. matrix
47.16	47.5		W	40	gt	px	0	0	0	0	fd	0	0	0	0	0	0	White wo.(fine-grained) w./ chert layer 3cm wide which is c/c by <<1mm wide wo. veins. Contact betwn. chert layers and wo. contains round patches 4-40mm wide of melanite gt(bk. gt); cores of patches are k-spar w./ minor px.
48.78	51.8	90																
47.46	51.4		W	85	0	px	0	0	0	0	fd	0	0	0	0	0	0	White fine-grained wo. w./ ~2% interspersed px. w./in wo. matrix. Two lt.grey cherty layers(2cm wide) c/c by <<1mm wide veinlets of wo.;1.5 cm away from cherty layer is dk.green layer parallel to it; green layer is 0-1cm wide and contains k-spar + px.
51.43	51.5		W	70	gt	px	0	ep	0	0	fd	0	0	0	0	0	0	White fine-grained wo. c/c by k-spar vein containing ~50% k-spar, 30% px., and 20% lt.brn.(andr?) gt; px. and gt is interstitial. Vein 1.1 cm wide and HA:60; vein also conatins(locally) patches of epidote and cream colored patches(fine-grained gross?)
51.5	52		W	80	0	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green fine-grained wo;contains ~3% px. dispersed w./in wo. matrix. One chert layer(4mm wide)(HA:80). Wo. is c/c by a network of <<1mm wide wo. veins
51.83	54.9	99																
51.97	52.7		P	0	gt	px	0	ep	0	0	fd	0	0	0	0	0	0	Pxite dyke; contains ~5% k-spar, ~30% px., and ~15% melgt, 5% epidote(epidote alteration after feldspar); gross. gt veinlets 1mm wide c/c pxite in irreg. orientations

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
52.67	54.3		W	85	0	px	0	0	cc	0	0	0	0	si	0	0	0	White fine-grained wo. contains ~3%px. interspersed w./in wo. matrix. Three 5-6mm wide lt. grey chert layers(HA:76). 2 marble layers 1cm wide(HA:65) w./in wo.; locally wo. surr. limestone is coarse + porous(cc dissolution?). Wo. is c/c by 4 si veins(<1mm wide)
54.88	57.9	95																
54.33	55.2		W	60	gt	px	0	0	0	qz	0	0	0	0	0	0	0	Wht. fine-grained wo. which surrounds + c/c's 2 chert layers(HA:65). 1 marble layer 1cm wide; surr. marble layer is coarse-grained lt. grn. wo. w./~10% px. interspersed w./in wo. matrix[interp:cont. btwn. px-rich wo. + fine wo. represents proto-qtz/lime cont]
55.23	55.6		W	85	0	0	0	0	0	0	0	0	0	si	0	0	0	White fine-grained wo. interlayered w./ lt. green wo. which is locally porous and coarse-grained. 1 chert layer(1.5x6cm) c/c by wo. veins <<1mm wide. 1 marble patch(0.5x2cm). Wo. c/c by 3 siderite veins <1mm wide
55.55	59.3		P	0	gt	px	0	0	cc	0	fd	0	0	0	0	mt	0	Pxite:55.55-56.92; syenite ~55% k-spar, 30%px., 15%melgt.56.92-57.24; rusty syenite(pyrite?). 57.24-58.24; syenite becoming less rusty downhole, contains epidotized feldspars + pink feldspars, c/c by carbonate veins. 58.24-59.54; metasyenite, 5%mt + pyrrhotite
57.93	61	98																
59.29	59.6		T?	10	0	0	0	0	0	0	0	0	0	0	0	0	0	Layer of marble(lt. grey, equigranular)~16cm thick; marble is c/c by creamy colored, fine-grained wo. 5-6mm wide(HA:65)
59.59	62		S?	0	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Dk. green syenite: ~58% k-spar, ~30%px., ~5% lt. grey zoned feldspar fragments and rounded lt. grey phenocrysts(undersaturated phases?), ~2% mt. Syenite c/c by rusty calcite veins <1mm wide(HA:41); c/c by <1mm wide lt. brn. gt veins(HA:30)
60.98	64	97																
61.96	62.3		W	85	gt	px	0	0	0	0	0	0	0	0	0	0	0	White wo. w./ ~5% px. dispersed w./in wo. matrix along foliation(HA:55) and ~70% med.-dk. brn. gts (mel. cores rimmed by andr./gross?) in two 5mm wide layers of subhedral gts(HA:65)
62.26	62.5		T?	0	0	0	0	0	cc	0	0	0	0	0	0	0	0	Layer of porous lt. green calcite(HA:55)
62.46	64		S	0	gt	px	0	0	cc	0	fd	bt	0	0	0	mt	0	Dk. grey-green syenite: ~55% k-spar, ~30% px., ~8%bt(in bt-rich layers; HA:30), 5% feldspar phenocrysts(up to 1.5 cm long XLs), ~2% mt diss. C/c by gt + px. veins 1 mm wide(HA:60). C/c by ~six 1mm wide white calcite veins(HA:75)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
64.02	67.1	96																
64.02	64.2		W	20	0	px	0	0	0	0	0	0	0	0	rh	0	0	Marble layer(lt.green-grey, equigranular) 5-6 cm wide containing 1-1.5cm wide layer of fine-grained lt.pink wo.(wo. contains minor px., pink color may be from trace amounts of rh.)
64.17	64.4		W	20	0	0	0	0	cc	0	0	0	0	0	0	0	0	Cherty layer ~4cm wide(HA:60); chert layer grades into white-pink fine-grained wo. Porous purple green calcite layer 1.2cm wide;contact btwn. marble and chert and wo. is complex
64.37	64.8		W	50	0	px	0	0	cc	0	0	0	0	0	0	0	0	Two cherty layers c/c and surrounded by wo.; wo. contains ~10% px. dispersed w./in wo. matrix; c/c by lt.green calcite vein 1-2mm wide
64.81	65		T?		0	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green equigranular marble; in contact w./ white fine-grained wo. on up hole side and are w./ pxite on down hole side; at contact btwn. marble and pxite contains 1cm wide pink fine-grained wo.(HA:52)
64.96	65		P	0	gt	px	0	ep	0	0	fd	0	0	0	0	0	0	Pxite dyke; ~45% k-spar, 30% px., 20% gt(lt.brn. gt), 5% epidote dyke >8cm wide
65.02	65.2		W	45	0	px	0	0	0	0	0	0	0	0	0	0	0	Marble layer 2 cm wide(HA:76); parallel to that is a chert layer ~2cm wide (HA:74)(which is c/c by <1mm wide wo. veins); separating and surrounding these layers is lt.pink-yellow fine-grained porous wo. Wo contains ~4% px. dispersed w./in wo. matrix
65.18	65.5		W	45	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Lt.pink fine-grained wo. c/c by pxite dyke(HA:76).Wo. contains patch of porous lt. grey limest. layer(2x3cm) and an irreg. layer of px. 3mm wide(HA:50).Pxite:~45%k-spar(groundmass),~5%phenocrysts of feldspar,~40%px,~10%gt. Pxite c/c by cc veinlets(HA:51)
65.53	70		S	5	gt	px	0	ep	cc	0	fd	0	0	0	0	mt	0	Melasyenite. 65.13-66.18:pxite w./white-lt.grey fd., px and mt grains;c/c by gt veinlets.66.18-67.28:metasyenite w./ limest. pod + ep patches + wo. + gt veins.67.28-67.58:syenite. 67.58-68.38:metasyenite. 68.73-70.01:metasyenite;c/c by lt.-dk.brn gt veins
67.07	70.1	96																
70.01	70.1		?	0	0	px	0	0	o	0	0	0	0	0	rh	0	0	Contact zone between metasyenite and carbonate(described below); consists of porous, crumbly lt.green limestone w./ irreg. layers of px.(5mm wide); also contains lt. pink patches(2x5cm) of rhodochrosite
70.12	73.2	96																
70.12	70.7		W	60	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. green porous layer containing ~60% wo. w./ interstitial calcite; (porosity from dissolved cc?); c/c by qtz. vein 5mm wide(HA:05)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
70.72	72.2		T?	2	0	0	0	0	cc	0	0	0	0	0	0	0	0	White equigranular med.-grained marble; c/c by network of <1-1mm wide veins of calcite; minor veins of wo. (~3mm wide) also present
72.15	72.3		W	50	0	0	0	0	0	0	0	0	0	0	0	0	0	Lt.green marble layer 3cm wide (HA:36); in btwn. marble layers is white and lt.green wo. band
72.28	72.4		W	84	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Porous lt.green wo. layer containing ~15% calcite and 1%lt.brn.gt(gross?)
72.43	73.3		W	25	0	0	0	0	0	0	0	0	0	0	0	0	0	Porous purple,green and cream colored layer consisting of purple(porous) reacted marble w./ wispy med. green layers 5-7mm wide(HA:70).Marble is interlayered w./ 1-5cm wide layers of wo.(white-cream;w./ ~2% px.)(HA:70).1 pod unreacted limest. w./in marble
73.17	76.2	99																
73.33	73.9		W	65	0	px	0	0	0	0	0	0	0	0	0	0	0	White wo. surrounding a lt.green equigranular limestone layer(>5cm wide;HA:70).Wo is white fine-grained and contains ~2% px. dispersed w./in wo. matrix.Wo. adj. to limest. contains layers of px. parallel to limest.(HA:70) 1mm wide and coarse(XLs 1cm long)
73.88	74		T?	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Lt. grey -green limestone w./o wo.
73.95	74.4		W	60	0	px	0	0	0	0	0	0	0	0	0	0	0	Lt.grey limestone in contact w./ coarse-grained px.-bearing wo.
74.4	75.3		W	85	0	0	0	0	cc	0	0	0	0	0	0	0	0	Porous, lt.green wo. containing ~25% calcite; wo. XLs are themselves lt. green
75.25	76.2		W	45	0	0	0	0	cc	0	0	0	0	0	0	0	0	Melasyenite dyke which contains pod of wo. ~9cm wide(pod conatins lt.pink fine-grained wo. on outside of pod(in contact w./ metasyenite) and lt.green coarse-grained wo. on inside of pod); Dyke also contains 10cm wide lt.green porous wo. pods w./ minor cc
76.22	79.3	99																
76.22	76.4		W	70	0	0	0	0	cc	0	0	0	0	0	0	0	0	White wo. c/c by purple and green porous calcite veins; irreg. cc veins are 5-35mm wide and contain a purple cc selvage 5mm wide w./ core of vein being green. Dissolution of cc has created a 3.5 cm wide cavity in rock
76.37	76.7		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	White wo.(fine-grained) containing ~5% px.as patches and layers 4-12mm wide, ~2% lt.brn. gt in px. patch

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
76.67	76.8		W	45	0	0	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. c/c by dk.green melasyenite dyke 2.5 cm wide (HA:82); dyke has ~3cm wide envelope of lt.green wo.
76.79	77.6		W	90	gt	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. c/c by >2cm wide white coarse vein(HA:85) w./ a 2mm wide px.-rich selvage. On fracture surfaces of wo. are black snowflake-shaped XLs(manganese oxide?). Wo. c/c by 1 px. minor lt.brn. gt(andr.) dyke 7mm wide(HA:70)
77.62	77.9		W	45	0	0	0	0	0	0	0	0	0	0	0	0	0	Lt.grey-green limestone layer(HA55) w./ layers of white fine-grained wo.(HA:75)
77.92	78.1		W	80	gt	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. containing a 14mm wide layer of ~60% lt.brn.gt(andr.) and interstitial px.(HA:75)
78.1	78.4		W	20	0	px	0	0	0	0	0	0	0	0	0	0	0	Pods of lt.grey equigranular unreacted limestone ~10cm long surrounded and c/c by white med.-grained wo. which contains ~5% px.
78.43	78.7		W	50	0	0	0	0	cc	0	fd	0	0	0	0	0	0	White porous and crumbly wo.(fine-med.-grained) interlayered w./ 2cm wide k-spar vein w./ 3-7mm wide dk. green calcite envelope(HA:85)
78.71	78.9		W	65	0	0	0	0	cc	0	0	0	0	0	0	0	0	10 cm wide pod of equigranular lt. green marble; layer of pink med.-grained wo.(2cm wide)(HA:70) which is surrounded by med.green layers of calcite 1-2cm(HA:70), v.porous
79.27	82.3	98																
78.89	82.3		?	10?	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Med.green porous yet hard rock containing ~20% calcite, 70% diopside(green color) and ~10% feldspar; cc veinlets c/c layer at HA:05 and are dissolved onto 1cm wide lt.-dk. grey k-spar vein(HA:62). Locally coarse v.lt.brn.gt grains + wo. pockets(3x10mm)
82.32	85.4	95																
82.32	82.6		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke; contains zoned or retrogressed round minerals(gts?); XLs 2mm wide have black core, lt.grey rim and black outer rim
82.62	83.4		W	20	0	px	0	0	cc	0	0	0	0	0	0	0	0	Lt.green hard rock composed of ~6%px.(diopside) w./ ~20% interstitial calcite and pods of pink carbonate(rhodochrosite); ~20% wo.(calc-silicate)
83.42	85.9		W	40	0	0	0	0	cc	0	0	0	0	0	0	0	0	Calc-silicate w./ pods of wo. 5-7cm wide c/c by calcite vein 2mm wide(HA:54). Linear patches of med.green and purple calcite(porous;0.5x4cm)
85.36	88.4	100																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
85.85	86.5		W	20	gt	px	0	0	cc	0	0	0	0	0	rh	0	0	Med.green carbonate-rich rock composed of px.; c/c by diffuse irreg. veins of wo.; contains ~5% lt.brn. gts which are cored by dk.brn. gt(melanite). Minor irreg. patches of porous green calcite layers ~10cm wide(HA:75). Pods of pink rhodochrosite(1x1cm)
86.45	86.9		W	45	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Lt.grn. diopside-rich calc-silicate w./ layers+pods of wo.Wo. layers(HA:75) are 2-4cm wide.~2% lt.brn.gt(andr.) w./in cc layers.Vuggs 1x0.5cm wide filled w./ euhedral cc XLs.Wo. c/c by 2mm wide cc veins(HA:48). Med.grn.-purp.cc layers 1-3 cm wide(HA:50)
86.91	87.1		T?	0	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Layer of ~80% calcite, ~20% lt.brn. gt; layer contains vug(2x3cm) w./ euhedral calcite XLs. 2cm wide px. layer (HA:68) on downhole side calcite layer
87.11	87.7		W	80	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Lt.green wo.(fine-grained) containing ~5% px.dispersed w./in wo. matrix. Wo. c/c by 1cm wide calcite vein(HA:75). Layer 1.5 cm wide of white wo. which contains ~5% finely dispersed mel. gt
87.74	88		T?	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Marble layer(HA:78) , equigranular lt.green; adjacent to marble layer is 1.5cm wide layer containing px. and minor lt.brn. gt(gross.)
87.99	88.3		W	85	gt	px	0	0	cc	0	0	0	0	0	0	0	0	White wo. w./ ~10% px. dispersed w./in wo. matrix(HA:73) c/c by dark grey calcite vein <1mm wide (HA:72). Patch of (2x7cm) px. and minor mel.gt
88.41	91.5	98																
88.33	89		W	75	gt	px	0	0	cc	0	0	0	0	0	rh	0	0	White wo. interlayered w./ 3mm wide med.green layers of calcite(layers porous)(HA:76). Patches of med.green and purple marble occur in wo.(5x8cm). Porous wo. layers (HA:05) containing ~10% mel.gt,~3% px. (1.5x2.5cm) patch of rhodochrosite in wo.
88.96	89.6		W	45	gt	px	ti	0	0	0	0	0	0	0	0	0	0	Lt.green pxite consisting of diopside(?); c/c by wo. vein 1.6cm wide which contains a 3mm wide envelope of purple and med.green carbonate. Minor amts. of titanite in envelope of wo. vein. 1% of section is lt.brn-orange gross.gt(12x12mm)
89.62	90.1		T?	0	0	0	0	0	cc	0	0	0	0	0	rh	0	0	Lt.green marble, containing irreg. linear porous zones:(dissolved calcite). Pink soft mineral(rhodochrosite) in pod(2.5x4cm) w./in diopside calc-silicate
90.12	90.3		T?	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Layer of equigranular lt. green unreacted limestone

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
90.34	90.82		C	5	0	px	0	ep	cc	0	0	0	0	0	0	0	0	Lt. pale green porous calc-silicate layer consisting of diopside,(+/- wo?) and interstitial calcite. Wo. ~5%(wo. suspect grains). Contains veins of coarse (5mm tabular) XLs of v.lt.green hard, mineral(tremolite?.diopside? which have wo. suspect grains)
90.82	91.29		C	5	gt	px	0	0	cc	0	0	0	0	0	rh	0	0	Lt.green calc-silicate rock(diopside?tremolite?) interlayered w./ med.green + purple porous limestone layers 2-3.5cm wide(HA:80). W./in limest. are pods of rh. + 5mm wide gt(mel.) grains. Lt.brn glite layers(HA:60). C/c by vuggy cc veins(HA:63)
91.29	91.46		C	10?	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Lt.green calc-silicate(~70% diopside, ~30% calcite); contains ~5% bk. mel. gts dispersed w./in calc-silicate. Wo. suspect grains(acicular, green, hard) ~10%
91.46	94.52	85																
91.46	91.7		?	20?	0	0	0	0	cc	0	0	0	0	0	0	0	0	Two parallel layers of lt. grey-green equigranular limestone(unreacted)(HA:70)(layers 5.5cm and 2.5cm wide). Layers surrounded by sheared layers of wo.(?) w. interstitial calcite
91.7	91.95		W?	40?	0	0	0	0	cc	0	0	0	0	0	0	0	0	Lt.green porous layer containg ~40% green acicular mineral(wo. or trem.) and ~60% calcite
91.95	92.65		W?	50?	0	0	0	0	cc	0	fd	0	0	0	0	0	0	V.lt.green less-porous layer containing ~50% wo.(green) , ~20% calcite, ~30% feldspar. Layering defined by 3mm wide calcite-rich med.green layers(HA:72). C/c by 6mm wide calcite veins(HA:72)
92.65	94.17		T?	0	0	0	0	0	cc	0	0	0	0	0	0	0	0	Lt.green layer locally porous and containing abundant calcite; layers 1.6 cm wide containing rhombs of white soft XL that doesn't fizz(dolomite?)(~30% of section). One lt.grey equigranular layer of unreacted limestone(7cm wide;HA:55)
94.51	97.56	95																
94.17	94.64		?	0	0	0	0	0	cc	0	0	0	0	0	0	0	0	Core is highly broken up and consists of porous and crumbly lt.green carbonate locally containing purple colored calcite
94.64	94.84		T?	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Core is highly broken up and crumbly(one zone is sandy);highly porous med. green carbonate containing white hard(non-porous) bands 1-2cm wide of dolomite?(effervesces when scratched)
97.56	100.61	90																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
94.84	100.61		C	5	0	px	0	0	cc	0	0	0	0	0	rh	0	0	Whole section is semi-porous lt.green calc-silicate rock consisting of ~70% diopside and ~30% calcite: cc occurs in highly porous, med.green linear patches 5-20mm wide(HA:65). C/c by qtz. veins w./ purp. cx envelope.Pod of pink rh.~5% wo. suspect grains
100.61	103.66	95																
101.11	101.36		W	55	gt	0	0	0	0	0	0	0	0	0	0	0	0	White-lt.pink fine-grained wo. which contains ~15% lt.brn gts(andr.) and black "snowflake" shaped on frac. surface(manganese oxide?). Wo contains 3.5cm wide layers of marble(HA:52)
101.36	101.96		T?	10	0	0	0	0	0	0	0	0	0	0	0	0	0	Lt.grey-green marble(equigranular) containing two layers of white-pink fine-grained wo. 1.3cm wide(HA:70)
101.96	102.03		P	0	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite dyke 6cm wide(HA:32) containing ~80% px. and 20% black mel.gt; interstitial calcite w./in dyke
102.03	103.76		C	0	gt	px	0	0	cc	0	0	0	0	0	rh	0	0	Lt.green calc-silicate containing ~30% calcite, ~60% diopside, ~8% rhodochrosite, 2% lt. brn . mel.gt; core is crumbly, semi-porous. Pods of rhodochrosite(2x5cm pods)
103.66	106.71	96																
103.76	104.54		P	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pxite dyke(dk.green); ~80% px. ~20% mel.gt. Mel.gt occurs w./in pure mel.gt veinlets(<1-2mm wide)(HA:60, 75)
104.54	104.94		W	60	0	px	0	0	cc	0	0	0	0	0	rh	0	0	White fine-grained wo. cotaining ~5% black "snowflake" shaped XLs on frac. surfaces(manganese oxide?). Wo. interlayered w./ lt. green calc-silicate(~90% diopside + 5% calcite + 5% rhodochrosite)
104.94	105.04		T?	10	gt	0	0	0	0	0	0	0	0	0	0	0	0	Med. green porous carbonate-rich zone w./ ~15%(of section) lt.brn. andr.gts in clumps 2cm wide. Contains wo. layer mentioned above
105.04	105.71		W	45	0	px	0	0	cc	0	0	0	0	0	0	0	0	White-lt.green fine-grained wo.(w./black snowflakes-manganese oxide?). Interlayered w./ diopside calc-silicate(porous layer)(90% diopside + 10% calcite). Diopside calc-silicate loaclly contains w./in it purple carbonate layers(1-2cm wide) and irregular
105.71	105.91		W	25	0	0	0	0	0	0	0	0	0	0	rh	0	0	Purple carbonate layer containing band of rhodochrosite 1-2 cm wide(HA:70). Contains 1.8 cm wide white band of wo.(HA:28)
105.91	106.31		W	20	0	0	0	0	0	0	0	0	0	0	0	0	0	Lt. green diopside-calc-silicate layer(34cm wide)(HA:50). Calc-silicate c/c by seven 2cm wide white fine-grained wo. veins(HA:80). One pod of purple carbonate(1x1.5 cm)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
106.31	106.51		?	0	0	0	0	0	cc	0	0	0	0	0	rh	0	0	Layer of purple carbonate containing diffuse patches(3x5cm) of pink rhodochrosite and green calcite(purple and green calcite may reflect Fe(purp.) + Mg(grn.) contents). C/c by <1-2m wide white calcite veinlets(HA:85)
106.71	109.76	99																
106.51	108.66		C	10	0	px	0	0	cc	0	fd	0	0	0	rh	0	0	Lt.green calc-silicate(~90%diopside,10%med.green calcite); calc-silicate contains pores from dissolved cc. C/c by lt.brn.<1-2mm wide andr.gt veins(HA:69, 80); these veins contain minor k-spar and cc and often c/c each other. Patches of rh and cx layer
108.66	109.51		W	70	0	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. layer c/c and surrounded by lt.green diopside calc-silicate
109.76	112.8	91																
109.51	110.21		C	15	0	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green calc-silicate(diopside) w./ linear patches of white-pink fine-grained wo.(layers 1-2cm wide)(HA:50). Wo. layers have 1-3mm wide envelope of purple carbonate
110.21	110.91		W	90	0	px	0	0	cc	0	0	0	0	0	0	0	0	White wo.(fine-grained) containing porous layers 1-4cm wide of px.(HA:65). Wo. c/c by 4-5 mm wide calcite vein(HA:40); wo. contains ~1% lt.brn. to black snowflake shaped XLs on frac. surfaces(manganese oxide?)
110.91	111.46		W	80	0	px	0	0	0	0	0	0	0	0	0	0	0	Sheared lt.green diopside calc-silicate layer in contact w./pxite below.Foliation of calc-silicate defined by lt.green wo.-rich layers interlayered w./diop.-rich layers. Foliation increases towards dyke(HA:18 increases to HA:53). Porous cx layer(HA:55)
111.46	112.96		P	0	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite dyke(foliated);foliation defined by 1mm wide layers of blk.mel gt(massive, not euhedral XLs); Pxite:~70% px., 30% mel.gt. Pxite c/c by microveinlets of calcite parallel to (HA:53). Also c/c by discordant calcite veinlets 2-3mm wide (HA:76)
112.8	115.85	85																
112.96	114.75		P	0	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Same pxite dyke as describe above, except gradually get lighter colored due to higher amounts of calcite veining; cc vein(HA:53) up to 2cm wide

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
114.75	116.18		P	0	gt	px	0	ep	cc	0	0	0	0	0	0	0	0	Same pxite dyke as descr. above except is darker green and lacks abundant cc veining and instead is c/c by network of epidote veins; epidote veins(HA:76). Ep.~7% of pxite. No longer foliated.Near beginning of calcified pxite are stringers of lt-med.brn gt
115.85	118.9	90																
116.18	117.75		P	0	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Calcified pxite dyke containing ~80% px., ~15% mel.gt. ~5%gross/andr, gt. Contains abundant calcite veins 1-5mm wide(HA:55)
117.75	118.13		P	0	0	px	0	0	cc	0	0	0	0	0	0	0	0	Pxite grades into marble; ie. px.veins c/c and surround marble patches and layers. Core is highly broken up and contains FeOx staining on fracture surfaces(HA:58)
118.13	118.43		T?	2	0	0	0	0	cc	0	0	0	py	0	0	0	0	Marble layers 0.5-2cm wide (lr.grey) c/c by lt.green wo. layers(HA:35) marble and wo.is c/c by iron stained veins <1mm wide / rusting result of py oxidation
118.9	121.95	99																
118.43	120.62		T?	10	gt	0	0	0	0	0	0	0	py	0	0	0	0	Lt. grey marble containing ~5% disseminated pyrite and~10% mel.gt; contains layers of white fine-grained wo.(HA:65) 2-20mm wide
120.62	121.95		W	60	gt	0	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. layers interlayered w./ lt.grey marble layers 2-100mm wide (HA:36); minor amounts of lt.brn.andr. gt dispersed parallel to layering marble, wo. layering frequent at 120.62 and becomes dominantly wo. at 121.95m
121.95	122.2		T?	0	0	0	0	0	cc	0	0	0	py	0	0	0	0	Med. green marble w./ lt.grey marble layes 3-5mm wide(HA:60), contains rusted out pyrite
	EOH																	

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
CLIFF - 96 - 08																		
0	1.52																	Casing
1.52	79.5		P	0	0	px	ti	0	0	0	fd	0	0	0	0	0	0	Pxite.Predom. px XLs which are massive v. fine Xline or in foliated patterns as larger XL aggregates.~30% interstitial k-spar XLs. Zones of syenitic(k-spar) intrusion?represent site of large px. and also ti XLs.w./ syenite as matrix.Pegmatic phase.
79.47	87		P	0	0	px	0	0	0	0	0	0	0	0	0	0	0	Pxite cont. w./ intermittent zones of wo. coarsely Xline in irreg. pockets + stringers. Wo. is diss. w./pxite + grades to pure XLs w./ minor px. towards center of zones. Max. wo. zone is 5cm. Only ~4 zones
87.03	131		P	0	0	px	ti	0	0	0	fd	0	0	0	0	0	0	As above at 1.52m
131.1	137		S	0	gt	0	0	0	0	0	fd	bt	0	0	0	0	0	Melasyenite - equigranular k-spar + melanite, augite and minor biotite
	EOH																	

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
CLIFF - 96 -09																		
0	.05m																	Casing
3.05	183		P	0	gt	px	ti	ep	0	0	fd	bt	0	0	0	0	ap	Med.-dk. green pxite w./ 1-5cm wide bands of bt w./ minor interstitial px.(bt-schist)
																		C/c by 5-10cm wide to 1m wide dk.grey k-spar veins w./ ~20% euhedral to massive clumps of green px.(augite), ~5% lt. grey interstitial material(silica undersaturated phase?), 1-2% euhedral lt.yellow titanite; and ~5% blk. bt
																		Locally k-spar veins are c/c by <1-1mm wiide lt.brn. gt (andr?) and locally epidote occurs w./in k-spar.
																		Pxite c/c by massive white med.-grained apatite veins 1-10cm wide(HA:30)(2% of core).
																		At 27.34 - 30.49m lt.green pxite w./ bt-schist bands which have altered to muscovite and greasy soft talc
																		Two massive dk.brn. gtite bands 3-5cm wide at 89.02 m
																		At 158.54m start having soft med.blue-green veins <1-3mm wide(HA:15)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
CLIFF - 96 - 10																		
0	3.05																	Casing
3.05	15.8		P	0	gt	px	ti	0	0	0	fd	0	0	0	0	0	0	Med.-dk.green pxite. w./ bands containing blk. bt. C/c by k-spar veins. Also ti and px.
15.76	16		W?	95	gt	px	0	0	0	0	0	0	0	0	0	0	0	Coarse white wo. w./ ~2% px. and 3% med.brown gt
16.04	18		P	0	gt	px	ti	0	0	0	fd	0	0	0	0	0	0	Med.-dk.green pxite.
17.99	18.2		W?	88	gt	px	0	0	0	0	0	0	0	0	0	0	0	Coarse white-lt.green wo. w./ ~10% diss. px., ~2% dk.brn.gt
18.19	18.8		P	0	gt	px	ti	0	0	0	fd	0	0	0	0	0	0	Med.-dk.green pxite
18.81	20.3		W?	15	0	px	ti	0	0	0	0	0	0	0	0	0	0	White coarse-grained wo. w./ 5%px(diss.) ; wo. occurs w./in the interstices of patches of px. and euhedral grains of px. and wo. also occurs in 1-2mm wide wo. veinlets(HA:30); 5-6 mm long titanite XLs occur w./ this wo.
20.26	20.4		P	0	gt	px	ti	0	0	0	fd	0	0	0	0	0	0	Med.-dk.green pxite.
20.36	20.7		W?	60	0	px	0	0	0	0	0	0	0	0	0	0	0	Well foliated med.green layer of finely intermixed px. and wo. ~60% wo., ~40% px; foliation(HA:60)
20.66	20.8		P	0	gt	px	ti	0	0	0	fd	0	0	0	0	0	0	Med.-dk.green pxite.
20.79	21.3		W?	50	0	px	0	0	0	0	0	0	0	0	0	0	0	White med.-grained wo. intermixed w./ ~30% px. and contains pxite dykelets cutting through it(dykelets HA:72)
21.34	24.1		W?	75	gt	px	0	0	0	0	0	0	0	0	0	0	0	Very well foliated (HA:89) white fine-grained wo. w./ ~25% px. finely diss. through it. Wo. c/c by 2-4 mm wide mel.gt(dk.brn.)-rich pxite dykelets(HA:65)
24.06	31.3		W?	0	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Med.-dk.green pxite
31.34	31.5		?	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Lt.green marble w./ ~10% px.
31.54	54.2		P	0	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Med.-dk.green pxite
54.18	54.9		W?	83	gt	px	0	0	0	0	0	0	0	0	0	0	0	Moderately well foliated white fine-grained wo. w./~15% px., ~2% gt. Gt. dk.brn. mel.gt w./in 6mm wide vein(HA:70). Px: dk.green px. w./in layers 1-9mm wide(HA:50)
	EOH																	

FROM	TO	REC	Rock Type	wo
CLIFF - 96 - 11			Missing	

FROM	TO	Mineral/Rock										Ass. min.			Comments
		W	G	C	X	S	B	T	Sz	Cz	C.A.	p	m	a	
CLIFF - 96 - 12															
2	3	65	0	0	20	0	0	0	0	0	0	15	0	0	50% recovery
3	4	75	0	0	5	0	0	0	0	0	0	20	0	0	50% recovery
4	5	40	0	0	50	0	0	0	0	0	0	0	0	0	
5	6	0	0	0	100	0	0	0	0	0	0	0	0	0	
6	7	20	0	0	60	0	0	0	0	0	0	0	0	0	Diss. pyrite trace - 2%
7	8	tr	0	0	400	0	0	0	0	0	0	0	0	0	Heavy core loss
8	9	15	0	0	80	0	0	0	0	0	0	5	0	0	Heavy core loss
9	10	75	0	0	0	0	0	0	0	0	0	10	0	0	Trem. skarn
10	11	80	0	20	0	0	0	0	0	0	0	p	0	0	
11	12	65	0	0	0	0	0	0	0	0	0	0	0	0	
12	13	70	0	0	0	0	0	0	0	0	0	20	0	0	Leached, vuggy zone; sphene present
13	14	50	0	0	40	0	0	0	0	0	0	5	2	0	ig.px.;gt appears
14	15	70	0	0	20	0	0	0	0	0	75	10	1	0	Px.dyke;cc veinlet
15	16	50	0	0	5	0	0	0	0	0	0	0	0	0	K-spar - small dyke. ti, traces pyrite
16	17	60	0	0	5	0	0	0	0	0	0	0	m	a	Pyrite, titanite
17	18	30	0	0	55	0	0	0	0	0	0	10	0	0	Some core loss, trace py.
18	19	70	0	0	25	0	0	0	0	0	10	0	0	tr	[?] dykelets; trace py, hem.
19	20	70	0	0	25	0	0	0	0	0	0	0	m	5	
20	21	90	0	0	0	0	0	0	0	0	65	0	m	a	Px. selvages, occ. cc.
21	22	95	0	0	17	0	0	0	0	0	0	0	m	0	Occ. fel. deformed?
22	23	70	0	0	20	0	0	0	0	0	0	0	tr	0	Px. stringers
23	24	50	0	0	40	0	0	0	0	0	0	0	0	0	
24	25	65	0	0	35	0	0	0	0	0	0	0	0	0	Occ. vugs
25	26	65	0	0	35	0	0	0	0	0	0	0	m	a	
26	27	65	0	0	35	0	0	0	0	0	0	0	0	0	
27	28	60	0	0	35	0	0	0	0	0	0	0	m	a	
28	29	85	0	0	15	0	0	0	0	0	0	0	m	a	
29	30	90	0	0	tr	0	0	0	0	0	0	0	0	0	
30	31	90	0	0	0	0	0	0	0	0	0	0	0	0	
31	32	95	0	0	0	0	0	0	0	0	0	0	0	0	
32	33	90	0	0	0	0	0	0	0	0	0	0	0	0	
33	34	90	0	0	0	0	0	0	0	cz	0	0	0	0	
34	35	85	0	0	0	0	0	0	0	0	0	p	0	0	More px. appears
35	36	85	0	0	0	0	0	0	0	0	0	0	0	0	Becomes darker in color
36	37	90	0	0	0	0	0	0	0	0	0	0	0	0	
37	38	75	0	0	15	0	0	0	0	0	0	0	0	0	
38	39	70	0	0	0	0	0	0	0	0	0	p	m	0	Sphene
39	40	75	0	0	0	0	0	0	0	0	0	0	0	0	Px.appears
40	41	90	0	0	0	0	0	0	0	0	0	0	0	0	
41	42	95	0	0	0	0	0	0	0	0	7	0	0	0	
42	43	50	0	0	0	0	0	0	0	0	72	p	m	a	Entering px. zone

W=wollastonite; G=garnetite; C=calcisilicate; X=pyroxene; S=syenite; B=marble; T=chert; Sz=shear zone; Cz=iron oxidation; C.A.=core angle; p=pyroxene; m=melanite; a=andradite

FROM	TO	Mineral/Rock										Ass. min.			Comments	
		W	G	C	X	S	B	T	Sz	Cz	C.A.	p	m	a		
43	44	0	0	0	x	0	0	0	0	0	0	0	0	0	0	
44	45	0	0	0	x	0	0	0	0	0	0	0	0	0	0	Calcite in px?
45	46	0	0	0	x	0	0	0	0	0	0	0	0	0	0	
46	47	0	0	0	x	0	0	0	0	0	0	0	0	0	0	
47	48	0	0	0	x	0	0	0	0	0	0	0	0	0	0	
48	49	0	0	0	x	0	0	0	0	0	0	0	0	0	0	
49	50	0	0	0	x	0	0	0	0	0	0	0	0	0	0	
50	51	0	0	0	x	0	0	0	0	0	0	0	0	0	0	
	EOH															

W=wollastonite; G=garnetite; C=calcsilicate; X=pyroxene; S=syenite; B=marble; T=chert; Sz=shear zone; Cz=iron oxidation; C.A.=core angle; p=pyroxene; m=melanite; a=andradite

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
BTNK - 96 - 13																		
0	1.52																	casing
1.52	2.58	83																
1.52	2.58		W	30	0	px	0	0	cc	qz	0	0	0	si	0	0	0	Carbonate + chert + wo. Cx is pale green-translucent XLs >1mm, massive. Chert is cryptoXLine + pale green in zones through carbonate at 70deg. Fr.w./cc +/- or si. Commonly - v.finely Xline wo. w./ diss. tiny px. Rare wo. pods, coarsely XLine
2.58	2.76		P	0	gt	px	0	0	cc	qz	0	0	0	si	0	0	0	Pyroxene dyke. Silicified w./fr. filled w./ brn.gt - hairline + irreg; esp. adjacent to contacts w./ carb. + chert.
2.76	3.05	99																
2.76	3.05		core loss		0	0	0	0	0	0	0	0	0	0	0	0	0	Core loss(probably misplaced tag)
3.05	3.2		P	0	0	px	0	0	0	0	0	0	0	0	0	0	0	Silicified pyroxene dyke - as above.
3.2	6.1		W	35	0	px	0	0	cc	qz	0	0	py	0	0	0	0	Chert + wo. -as above. Px. dykes intersected in whole or part at 0.27(2cm), 0.5m(15cm-partial in core);1.04m(6cm).Occasional carb. band 1-3cm wide.Dykes have diss. py.Fr. w./cc. At 2.61m ~6cm of coarse-grained wo. w./ v.minor wo, coarsely Xline
6.1	9.15		W	40	0	px	0	0	cc	0	0	0	py	0	0	0	0	Chert + wo(finely Xline). As above. Intersected narrow zones of wo. - v.coarse>2cm long, w./ minor tiny px. XLs. Fr. w./ cc. Rare silicified banding of pxs. + pyrite - was in foliation.Foliation varies downsection.Last 5 cm core crumbly + soft pink min.
9.15	12.2	92																
9.15	9.39		core loss		0	0	0	0	0	0	0	0	0	0	0	0	0	Core loss(assumed)
9.39	12.1		W	80	0	px	0	0	cc	qz	0	0	py	0	0	0	0	Wo. +carbonate. V.finely Xline wo. w./tiny px. XLs alternating w./ minor carbonate bands.Dyke of px. + silica + py at 0.37m.Fr.w./cc.Some chert at 0.80m~6cm.Locally bands + stringers of coarser wo. + px.Irreg. fracturing + vugging w./cc at 1.97m for ~8cm
12.13	12.2		P	0	0	px	0	0	0	0	0	0	0	0	0	0	0	Pyroxenite dyke. Finely Xline pyroxenes w./ diss. pyrite~1%, hairline fractures w./ gt(?) - lt.brn.
12.2	15.2	99																
12.2	12.3		P	0	gt	0	0	ep	cc	0	0	0	py	0	0	0	0	Pyroxenite dyke cont. Includes numerous fractures w./ epidote; diss. pyrite up to 3mm long. Lower contact has calcite + gt layers(v.fine) + coarse wo.
12.34	13.3		W	80	0	0	0	0	cc	0	0	0	0	0	0	0	0	Wo. + carbonate. As above at 9.39m. Fr. w./ calcite

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
13.32	13.8		?	0	gt	px	0	0	0	0	fd	0	py	0	0	0	0	K-spar + Pyroxene dyke. 75% k-spar - massive w./ px. XLs. Diss. pyrite; several irreg. fractures 1-3mm wide. Lt. brown along hairline fractures(gt?)
13.77	15		W	90	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. + carbonate. As above at 9.39m. Occasional zone of narrow px. banding, w./ fine lt. brn. veins - gt? Some px. bands have interstitial wo. Numerous irreg. calcite fractures - up to 4mm
14.97	15.2		P	3	gt	px	0	0	0	0	0	0	0	0	0	0	0	Pyroxenite dyke. Rock appears highly siliceous. Bands of a mm+ and hairline fractures are common - w./ lt. brn. gte. Xenoliths are common - of? alt. to gte; wo.
15.18	15.2		W	95	0	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + px. Med. Xline wo. w./ tiny px. XLs.
15.24	18.3	94																
15.24	18.3		W	40	0	px	0	0	cc	qz	0	0	py	0	0	0	0	Wo. + chert + carbonate. Fine-coarse Xline wo. w./ fine, diss. px. XLs. Foliated, banded, translucent to opaque layers of wo. Occasional carbonate bands - up to a few cm(6+). Some chert banding - up to 7-8cm. Fr. w./ cc. Rare zones of px. w./ diss. py
18.29	21.3	99																
18.29	19.5		W	40	0	0	0	0	0	qz	fd	0	0	0	0	0	0	Wo. + chert + carbonate. As above. Chert w./ wo. growing in fractures. In last 1cm - a ~0.5-1cm k-spar dyke? w./ wo. growing into k-spar
19.5	19.5		?	2	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	K-spar. K-spar - dk. grey XLs w./ hairline fr. - pale brn, gt +/- calcite; px. XLs common and significant locally
19.53	21.3		W	60	0	0	0	0	0	qz	0	0	py	0	0	0	0	Wo. + chert. As above at 15.24. No significant carbonate banding. Zones of chert up to 16 cm. (At 1.21cm k-spar + diss. py. Also cream colored-micro-Xline mineral(chert?) in k-spar band). Wo. is finely Xline to v. coarse - up to 2cm long
21.34	24.4	23																
21.34	22		W	55	0	0	0	0	0	qz	0	0	0	0	0	0	0	Wo. + chert + carbonate - as above. Volume of carbonate increases
22.04	24.4		core loss															Core loss - cave(drillers)
	EOH																	

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
BTNK - 96 - 14																		
0	1.52																	casing
1.52	3.05	70																
1.52	2.59		W	90	0	px	0	0	0	0	fd	0	0	0	0	0	0	Wo. + pyrox. Med. to finely (<2mm) Xline Woll. w./ tiny Xls of green pyrox. Locally - bands and pods of carbonate. Pyox. % inc. in foliation . No grnts. K - spar in pods/band w./inc. pyrox.
2.59	3.05		core loss															Core loss(assumed)
3.05	6.1	99																
3.05	6.1		W	95	0	px	0	0	cc	0	0	0	0	0	0	0	0	Wo. + pyrox. as above. Wol. Xls up to 1.5 cm long; carbonate locally - continues; fr.w./ calcite
6.1	9.15	99																
6.1	8.59		W	90	0	px	0	0	cc	0	fd	0	0	0	0	0	0	Wo. + pyrox. - as above at 1.52. K-spar in irregular foliated bands w./ px.;also in pods locally. Fr/ w./calcite. Local zones of coarse Woll. up to 1 cm., otherwise v. fine. K-spar bands + saturation inc. last 20 cm. Interstitial Wo. between k-spar Xls
8.59	8.72		S	0	0	px	0	0	cc	0	fd	0	0	0	0	0	0	K-spar(syenitic). Dk. grey w./ pyrox.Xls diss. + black + white hairline fr. - irregular - w./ calcite
8.72	9.15		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + pyrox. - as above at 6.10m. above
9.15	12.2	99																
9.15	9.55		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + pyrox. - as above at 6.10m. above
9.55	9.74		?	0	0	px	0	0	cc	0	fd	0	0	0	0	0	0	K-spar + pyrox. dyke. Dk grey k-spar dyke w./ diss. green pyrox.. Lt. brown garnet is v.finely Xline - diss. + along hairline fracs. Xenoliths of same in k-spar.Frs. w./calcite. Both contacts w./ pyrox.
9.74	9.82		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	Wo. + pyrox. - as above at 6.10m. above
9.82	9.98		P	0	0	px	0	0	0	0	0	0	py	0	0	0	0	Pyroxenite dyke. Finely Xline dk green pyroxenes . Both contacts sharp; diss. pyrite ~ 1%
9.98	11		W	65	0	px	0	0	cc	0	fd	0	0	0	0	0	0	Wo. + px. + k-spar. Wo. is med. to coarse Xline w./ diss.(~5%) pyrox. Xls <1mm. Px. Xls also in irregular foliated bands. K-spar is common as interstitial Xls. Irregular black calcite frs. common. Core up to 30% k-spar (interstitial) locally

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
11.03	12.2		W	45	gt	px	0	0	cc	qz	fd	0	py	0	0	0	0	Wo. + px. + chert. Bands of wo., px., chert. Irregular fr. w./blk. cc - parallel to core axis or at high angles. Fr.w./ qtz(white). Section includes large zones of k-spar + px. contains finely diss. py. ;+lt.br. micro-fracture(gt?)Ch~35% Px~20% Wo~45%
12.2	15.2	91																
12.2	12.6		W	40	0	px	0	0	0	qz	0	0	0	0	0	0	0	Wo. + chert - cont. from above w./ less px.
12.57	12.7		core loss															Core loss(assumed)
12.71	12.9		W	60	0	0	0	0	0	qz	0	0	0	0	0	0	0	Wo. + chert - cont. from above
12.86	13		?	0	0	px	0	0	0	qz	0	0	0	0	0	0	0	K-spar + pyrox. dyke. -as at 9.55m above
13	14		W	50	0	px	0	0	0	qz	0	0	0	0	0	0	0	Wo. + ch. + cx. irreg. foliated ch., wo. + cx. w./ px. diss. finely throughout wo. Cx occurs as lt. blue bands + pods. Ch. occurs as regularly foliated banded units. Ch.~35% Cx.~10% Px~5%
14.04	14.2		core loss															Core loss(assumed)
14.17	15.2		W	45	0	px	0	0	cc	qz	0	0	0	0	0	0	0	Wo. + chert + carbonate - as above at 13.00m. At top of section - pale beige soft min(wx./leached gt?) contains vugs and cc. Ch~40%:Cx~10%:Px~5%
15.24	18.3	46																
15.24	15.8		W	65	gt	px	0	0	cc	qz	0	0	0	0	0	0	0	Wo. + Carbonate + chert - as above at 13.00m except cherts not regularly banded. Pale beige soft min w./vugs + calcite. Locally rock is crumbly + leached - porous. Ch~10%;Cx~15%;Px~5%, 5% gt. etc.
15.78	16.3		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	Woll. Nonfoliated, massive med.-fine grained Xline wo. w./ diss. fine green px. XLs. Rock is locally porous(leached of cement) and soft.
16.27	16.5		?	0	0	px	0	0	0	0	fd	0	0	0	0	0	0	K-spar + px. dyke -as at 9.55m above
16.54	16.7		W	30	0	px	0	0	0	qz	0	0	0	0	0	0	0	Wo. + chert - few cm.of wo. as at 15.78m; and wo. + chert, grey-beige w./px. banding
16.7	18.3		core loss															Core loss(driller's marker)
18.29	21.3	60																
18.29	18.6		core loss															Core loss(assumed)
18.6	18.7		W	30	0	0	0	0	0	qz	0	0	0	0	0	0	0	Wo. + chert - as above at 16.54m
18.71	19.3		core loss															Core loss(driller's marker)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
19.32	21		W	50	0	px	0	0	0	qz	0	0	0	si	0	0	0	Wo. + chert + carbonate - as at 15.24m. Fracturing + dissolution along irregular planes w./ siderite + stockwork w./vugging common. Core v. broken, locally. Ch.~20%;Carbonate ~20%;Px.~5%;vugging + stockwork + siderite~5%
21.04	21.3		core loss															Core loss(assumed)
21.34	24.4	94																
21.34	22.5		W	50	0	px	0	0	0	qz	fd	0	py	0	0	0	0	Wo. + ch.- as at 15.24m. Foliation banding complicated by cross-cutting fractures + micro fractures. At 1.6m from top of section a k-spar intrusion including px. outer banding - Contains 2% or more pyrite alt. to hematite. Ch~35%; cx~7%; px.~5%.
22.51	22.7		core loss															Core loss(assumed)
22.69	24.4		W	50	0	px	0	0	0	qz	fd	0	0	si	0	0	0	Wo. + chert + carbonate - as at 15.24m + 21.34m. Also, some fracturing + vugging along frs. parallel to core axis. Chert~20%;carbonate~20%;px.~5%;misc.(dk. grey k-spar bands, vugging + siderite) ~5%
24.39	27.4	97																
24.39	27.4		W	45	gt	px	0	0	cc	qz	fd	0	0	si	0	0	0	Wo. + ch. +k-spar.SiO2 banding .At 0.72m down section a 20 cm k-spar intrusion occurs w./ blk. cc fractures, xenoliths of wo. + microfractures w./lt.br.gt? Cc or siderite on fr.surfaces.Cx.~10%;k-spar~10%;px.~5%;ch~5%.Soft pink calcareous min. locally
27.44	30.5	97																
27.44	30.5		W	55	gt	px	0	0	0	qz	fd	0	0	0	0	0	0	Wo. + chert -cont. form above. Chert ~ 30%;Carbonate ~8%;px~5%. Zones(bands or pods) of k-spar w./ beige hard min.-cryptocrystalline-ch. or gt? - few cm. each. Locally wo. may be banded+ coarse Xls - up to 2 cm long. Fr.w./ wo. locally
30.49	33.5	99																
30.49	33.5		W	65	0	px	0	0	0	qz	0	0	0	0	0	0	0	Wo. + chert- cont. from above. Chert ~ 20%;Carbonate ~2-3%;px.~5%. Fr.w./wo. are significant. Some px. banding. Wo. is diss. along planes in chert + along microfractures . Locally wo. becomes v. coarse- up to 2 cm.
33.54	36.6	97																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	sl	rh	mt	ap	COMMENTS
33.54	34.7		W	50	0	px	0	0	0	qz	fd	0	0	0	0	0	0	Wo. + Chert - cont. as above. Chert~40%;carbonate~0%;px~5%;k-spar(syenitic)~3-5%. Several k-spar dykelets at ~30 degree angle w./lt.beige min.(chert or garnetite) - each <1cm. At 18cm. above section bottom:k-spar dyke is intersected - at high angle
34.66	34.9		W	20	0	px	0	0	0	qz	fd	0	0	0	0	0	0	K-spar dyke + wo. + chert + cx. This section contains~half k-spar(syenitic) from dyke + the other half along core axis - continues from above.Cx~5%;px.~2-3%;k-spar dyke~60%;chert~5-10%. K-spars light to dk.gy. - translucent w./diss.px.XLs.Lt.br gt XLs.
34.92	36		S	1	0	0	0	0	cc	qz	fd	0	0	0	0	0	0	K-spar dyke(syenitic). Dyke material is described above. Several ~2cm. wide white qtz. veins cut the core at near 0 degrees. One has significant Fe stain. Some darker k-spar XLs diss. Fr. w.calcite rhombs, 0.5cm.wide. Later k-spar fr. show vugging.
35.98	36.3		W	80	0	0	0	0	0	qz	fd	0	0	0	0	0	0	Wo. med.-coarse Xline wo. in irregular foliation pattern .Px. XLs are v.fine + diss. throughout wo. Chert in disrupted bands ~5%; few k-spar xenoliths up to 3cm.x 2cm.(as in dykes)
36.29	36.6		S	1	0	0	0	0	0	0	fd	0	py	0	0	0	0	K-spar dyke(syenitic) - as at 34.66 + 34.92 m above. Xenoliths up to 0.5cm. w./ wo.diss. pyrite <1%
36.59	39.6	99																
36.59	37		W	20	0	0	0	0	0	0	fd	0	0	0	0	0	0	K-spar dyke (syenitic) - dyke cont. from above. Contact w/ intruded wo. is at 13cm. at 85 degrees. At bottom of core ~ 50% of core is wo., etc.
36.97	37.9		W	65	0	px	0	0	0	qz	fd	0	0	0	0	0	0	Wo. + chert. Weakly foliated Wo. - finely Xline to v.coarse XLs locally - in bands . Px.is finely Xline - diss. in wo. + in thin foliated bands. Chert is in bands + in total is ~20%. Bands of beige chert contain garnetite + k-spar.
37.92	39.3		S	0	0	0	0	0	0	0	fd	0	py	0	0	0	0	K-spar dyke(syenite dyke) - as above at 34.66 m + 34.92m. Diss. pyrite ~1%. K-spar dykes ~1cm. wide; white at 0, 50 ,20 degrees. fr. + vugging.
39.28	39.6		W	55	0	0	0	0	0	qz	fd	0	0	0	0	0	0	Woll. + chert. Irregularly foliated med. to fine XL. Woll. w./ fine XLs of px. diss.+ in thin foliated beds. K-spar saturates upper half of section . Lower 9 cm. have chert w./diss. wo. Chert ~ 20%
39.63	40.7		W	65	0	px	0	0	0	qz	fd	0	0	0	0	0	0	Wo.+ chert. Wo. is fine to coarsely Xline w./ fine geen px. XLs diss. through wo. and locally occuring as bands in wo. - btwn. coarse and finely Xline wo. Chert occurs as iregular bands cross-cutting wo.Cream coloured min.Minor syenitic k-spar.

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
40.74	41.3		S	10	gt	0	0	0	0	0	fd	0	py	0	0	0	0	K-spar dyke(syentic). Contact w./ wo. at 70 deg. As above at 34.66m. Diss. pyrite<1%.Fr. w./ gt. up to 1-2mm;0.5cm.along contacts either side of dyke. Wo. in wedges, either end. K-spar phenocrysts up to 1.5 cm.
41.34	42.7		W	65	0	0	0	0	cc	qz	fd	0	0	si	0	0	0	Wo. + chert - as above at 39.63m. Fr. w./ siderite.Chert~30%.Several k-spar dykelets ~0.5cm. wide - k-spar Xls w./ interstitial wo. Fr. w./ calcite - black
42.68	45.7	96																
42.68	45.7		W	70	gt	px	0	0	0	qz	fd	0	py	0	0	0	0	Wo. + chert. - as above at 39.63m. Chert ~ 10-15 %. Minor carbonate locally.K-spar pods + dykelets .16cm wide translucent chert intrusion occurs. In center is a ~2cm wide K-spar dyke(syentic) w./ diss. px. + pyrite. Pale beige min.(gt?)w./ k-spar
45.73	48.8	99																
45.73	48.8		W	70	gt	px	0	0	0	qz	0	0	0	0	0	0	0	Wo. + chert. - as above at 39.63m. Chert~ 20%;Px~5%;Carbonate is minor <1%. Pxs. locally diss. in wo. and along minor foiated stringers w./pale beige min(finely Xline gt or ch?). Interstitial k-spar is common locally -w./ Xls ~ 1-2 mm + interstitial wo.

FROM	TO	Mineral/Rock										Ass. min.			Comments	
		W	G	C	X	S	B	T	Sz	Cz	C.A.	p	m	a		
BTNK - 96 - 14																
48	49	75	0	0	0	s	0	0	0	0	0	0	p	0	a	
49	50	85	0	10	0	0	0	0	0	0	0	0	p	0	a	Leached, vuggy zone, cc veins
50	51	50	0	10	0	0	0	b	t	0	0	0	p	0	a	
51	52	40	0	0	0	0	0	0	t	0	0	0	p	0	0	
52	53	70	0	0	0	0	0	0	t	0	0	0	p	0	10	Fine-grained wo.
53	54	80	0	0	0	0	0	0	t	0	0	0	p	0	a	
54	55	85	0	0	0	0	0	0	t	0	0	0	p	0	a	
55	56	65	0	0	0	0	0	0	t	0	0	0	tr	0	0	
56	57	35	0	0	0	0	0	0	t	0	0	0	0	0	0	Creamy vein, gross.
57	58	50	0	0	0	0	0	0	t	0	0	0	tr	0	0	
58	59	40	0	0	0	s	b	0	0	0	0	0	0	m	a	Mel. gt 50%
59	60	0	0	0	0	s	b	0	0	0	0	0	0	0	0	Hematite pores
60	61	0	0	0	0	s	0	0	0	0	0	0	0	0	0	
61	62	0	0	0	0	s	0	0	0	0	0	0	0	0	0	Hematite/ white min.
62	63	35	0	c	0	0	0	0	0	0	0	0	0	0	0	
63	64	75	0	c	0	0	0	0	t	0	0	0	p	0	0	
64	65	85	0	0	0	0	0	0	t	0	0	0	p	0	a	Leached
65	66	80	0	c	0	s	0	0	t	0	0	0	p	0	0	5% gross. gt
66	67	25	0	20	0	s	0	0	0	0	0	0	0	m	a	Gross, rh.
67	68	0	0	0	0	s	0	0	0	0	0	0	0	m	a	Py. + px. +/- hematite in syenite
68	69	0	0	0	0	s	0	0	0	0	0	0	0	0	0	Hematite
69	70	0	0	0	0	s	0	0	0	0	0	0	0	m	0	
70	71	0	0	0	0	0	0	0	0	0	cz	0	0	0	0	Highly broken?, trace hem.
71	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Hematite, calcite
72	73	10	0	0	0	90	0	0	0	0	0	0	0	m	a	Epidote/syenite
73	74	75	0	0	0	0	b	0	0	0	0	0	p	0	a	
74	75	75	0	0	0	0	20	0	0	0	0	0	p	m	a	
75	76	50	0	c	0	0	b	0	0	0	0	0	0	0	0	Andr.
76	77	70	0	0	0	0	b	t	0	0	0	0	0	m	a	30
77	78	50	0	2	0	0	b	0	0	0	0	0	p	0	0	Trace py.
78	79	10	0	0	x	0	0	0	0	0	0	0	0	m	a	Trace py.
79	80	0	0	0	x	0	0	0	0	0	0	0	p	0	a	35% loss, epidote, hematite
80	81	0	0	c	0	0	b	0	0	0	cz	0	0	0	a	20% gt?
81	82	tr	0	c	0	0	tr	0	0	0	0	0	p	m	a	35, epidote, rhodochrosite
82	83	10	0	0	0	0	b	0	0	0	0	40	p	m	a	Minor rhodoch.
83	84	5	0	c	0	0	b	0	0	0	0	0	p	0	0	Grey marble, rhodoch.
84	85	5	0	5	25	0	10	0	0	0	0	0	0	0	a	Py. sheared
85	86	15	0	5	0	0	b	0	0	0	0	0	0	0	0	
86	87	20	0	0	0	0	b	0	0	0	0	0	0	0	0	40, marbles are green
87	88	15	0	0	0	0	b	0	0	0	0	0	0	0	0	
88	89	25	0	0	0	0	b	0	0	0	0	0	0	0	0	

W=wollastonite; G=garnette; C=calcisilicate; X=pyroxene; S=syenite; B=marble; T=chert; Sz=shear zone; Cz=iron oxidation; C.A.=core angle; p=pyroxene; m=melanite; a=andradite

FROM	TO	Mineral/Rock										Ass. min.			Comments		
		W	G	C	X	S	B	T	Sz	Cz	C.A.	p	m	a			
89	90	45	0	0	0	0	b	0	0	0	0	0	0	0	0	0	Traces epidote
90	91	40	0	0	0	0	b	0	0	0	0	0	0	0	0	0	
91	92	10	0	10	0	0	b	0	0	0	0	0	0	0	0	a	
92	93	20	0	60	0	0	b	0	0	0	0	0	0	0	0	0	Pyrite
93	94	5	0	80	0	0	b	0	0	0	0	0	p	0	0	0	
94	95	45	0	2	0	0	b	0	0	0	0	0	p	0	0	a	
95	96	35	0	0	0	0	b	0	0	0	0	0	p	0	0	a	Core broken
96	97	50?	0	0	0	0	s	b	0	0	0	0	p	0	0	a	Trace pyrite
97	98	25	0	0	0	0	b	0	0	0	60	0	p	0	0	a	Trace
98	99	50	0	0	0	0	s	b	0	0	0	0	p	0	0	0	Grossular veins
99	100	25	0	0	0	0	b	0	0	0	0	0	tr	0	0	a	Trace pyrite
100	101	30	0	0	0	0	b	0	0	0	0	0	tr	0	0	0	Wo. pods, gross.
101	102	20	0	25	5	0	b	0	0	0	0	0	0	0	0	0	Px. dyke
102	103	35	0	0	0	0	b	0	0	0	0	0	0	0	0	a	Wo.dyke?
103	104	30	0	c	0	0	b	t	0	0	0	0	0	0	0	a	Gross. garnet
104	105	40	0	0	0	0	b	t	0	0	0	0	0	0	0	0	
105	106	15	0	0	0	0	b	0	0	0	0	0	p	0	0	a	Wo. veinlets
106	107	20	0	0	0	0	b	0	0	0	0	0	0	0	0	a	Grossular, trace pyrite
107	108	35	0	c	0	0	b	0	0	0	0	0	0	0	0	a	Epidote
108	109	35	0	c	0	0	b	0	0	0	0	0	0	0	0	0	Cream color grossular
109	110	25	0	c	0	0	b	0	0	0	0	0	p	0	0	a	
110	111	35	0	0	0	0	b	t	0	0	0	0	p	0	0	0	Pods of wo.
111	112	45	0	0	0	0	b	0	0	0	0	0	p	0	0	a	
112	113	65	0	0	0	0	s	b	0	0	0	0	p	0	0	a	Some gross.
113	114	45	0	0	0	0	b	0	0	0	0	0	p	0	0	0	Grossular
114	115	15	0	0	x	0	b	t	0	0	60	0	0	0	0	a	Chert + marble
115	116	10	0	0	0	0	b	t	0	0	0	0	p	0	0	a	Some gross.
116	117	10	0	0	0	0	b	t	0	0	0	0	0	0	0	0	Some gross.
117	118	10	0	0	0	30	b	t	0	0	0	0	p	0	0	0	
118	119	10	0	0	0	60	b	0	0	0	0	0	0	0	0	0	Melasyenite
119	120	12	0	0	0	0	b	0	0	0	0	0	0	0	0	a	Melasyenite, rhodoch.
	EOH																

W=wollastonite; G=garnetite; C=calcisilicate; X=pyroxene; S=syenite; B=marble; T=chert; Sz=shear zone; Cz=iron oxidation; C.A.=core angle; p=pyroxene; m=melanite; a=andradite

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
BTNK - 96 -15																		
0	1.52																	casing
1.52	3.05	74																
1.52	3.15		?	10	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Ch. layer c/c by netwk. of white<1mm wide veinlets of wo.Veins dominantly oriented(HA:35). Lt. green-grey marble pod w./in chert but surr. by envelope of wo. Right lat.displacement of qtz layer. Dk.grey 4mm wide cc vein(HA:24) c/c by rusty cc vein(HA:58)
6.05	6.1	91																
3.15	4.19		W	45	0	0	0	0	cc	0	0	0	0	0	0	0	0	Section contains chert and marble layers 6-100mm wide that are surrounded and crossed by subparallel wo. layers(HA:44). Rock is c/c by rusty carbonate veins <1mm wide(HA:49) which are mostly parallel to layering.
4.19	4.94		?	5	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey-green marble layer containing fine laminations(white)(defined by primary silica content) <1mm - 1mm wide(HA:44). Contains ~ 20 linear pods of wo.(5-12mm wide and 1-6cm long)(HA:64)
4.94	5.23		?	10	0	0	0	0	cc	0	0	0	0	0	0	0	0	Chert layer containing one 5mm wide marble layer(HA:55). Chert c/c by white<1mm-1mm wide veinlets of wo. parallel to HA:55. Section c/c by rusty carbonate veins(HA:50)
5.23	5.36		P	0	0	px	0	0	0	0	fd	0	0	0	0	0	0	Pyroxenite dyke (~40%k-spar;60%px) contains layers of white wo. w./in it;layers 1-4 cm. wide of wo.(HA10)
5.36	5.44		?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Chert layer ~7 cm wide w./ wo microveinlets
5.44	5.97		W	80		px	0	0	0	qz	0	0	0	0	0	0	0	Lt.green wo. containing fragments of unreacted cher tand contains~5% scattered fine grains of px in wo. matrix.Dk.brn-grn px+chert layer(HA:75)offset right lateral.Wo. c/c by 2 dk.grey cx.veins(2mm wide) with cx. envelope.Wo c/c by 8 rusty cx veins(HA:38)
5.97	6.6		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. containing ~10% px as fine grains distributed w./in wo. marix and as px. rich bands(HA:15). Wo. c/c by 2 rusty carbonate veins <1mm-1mm wide(HA:48)
6.1	9.15	97																
6.6	6.9		W	30	0	0	0	0	0	0	fd	0	0	0	0	0	0	Section w./ lt.-drk.grey k-spar vein (26cm wide)(HA:15). K-spar is c/c by veinlets and microveinlets of lt.green wo.
6.9	7.5		V	2	0	0	0	0	0	qz	0	0	0	0	0	0	0	V.light green chert layer : contains trace wo. veins <<1mm wide. 1 rusty carbonate vein 1m wide(HA:58)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS	
7.5	7.84		W	75	0	0	0	0	cc	qz	0	0	0	0	0	0	0	White wo.(fine-grained) w./pods of chert (1<2cm) and segmented layers 5-mm wide(HA:80). Wo c/c by <1mm wide rusty carbonatc veins(HA:10).Wo contains a 2cm wide marble layer (HA:67)	
7.84	8.14		W	45	0	0	0	0	cc	0	fd	0	0	0	0	0	0	Section contains k-spar (lt.grey-dk.grey) w/. interstitial wo. K-spar + wo. c/c by calcite veins(5-12mm wide)(HA:67)	
8.14	8.29		W	80	0	0	0	0	0	qz	0	0	0	0	0	0	0	Chert layers 6-8mm wide c/c and surrounded by white fine-grained wo.;these layers interlayered w./ med.-grained(5mm long Xls)lt. green wo.	
8.29	8.47		W	95	0	px	0	0	0	0	0	0	0	0	0	0	0	Lt.green wo. containing ~10%px. dispersed w./in bands in wo.(HA:45). Pod(5x6cm) of light red wo.(Fe-content?)	
8.47	8.73		W	60	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Lt.green med.grained wo.(w./ ~ 10% px. dispersed w./in wo. matrix); wo. c/c by 5 cm wide metasyenite dyke(~40% k-spar, 50% px. 10% gross gt);veins are offset and occur repeatedly w./in core, white fine-grained	
8.73	8.85		?	0	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Syenite dyke(yellow-green)(~40%k-spar, 50% px., 10%lt.brown gross.)	
8.85	10.9		W	85	0	0	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ <1% px. dispersed w./in matrix. Wo contains 3 >2 cm wide chert layers(HA:65) and (2x6mm) pods of chert w./in wo.	
9.15	12.2	100																	
10.87	11.1		W	98	0	0	0	0	0	0	0	0	0	0	0	0	0	Light red(Fe-content?) wo.(med.-grained);massive wo.	
																			White-lt.grey med.-coarse wo.w./~1% px. dispersed w./in wo. matrix.2 ch. layers(HA:80)1.5 cm wide.1 marble layer 1 cm wide(HA:05).1 layer contains coarse wo.(~8mm long XLs) which grow w./in ch.matrix, layer is >1cm wide(HA:80).Wo c/c by 1 mm wide cc vein.
11.1	14		W	95	0	px	0	0	cc	qz	0	0	0	0	0	0	0		
12.2	15.2	99																	
14.04	14.3		S	0	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Pale green syenite(~60% k-spar, 25% px, 15% lt. orange gross)(no magnetite). C/c by four 3-5 mm wide wo. veins(HA:07)	
14.29	14.4		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green fine-grained w./ ~10% dispersed px. w./in wo.	
14.39	14.6		W	20	0	0	0	0	0	qz	0	0	0	0	0	0	0	Chert layer c/c by extensive network of wo. veins <<1mm wide(veins HA:55, 42)	
14.63	14.7		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	White wo. (fine-grained w./~70% px. w./in wo. matrix)	
14.69	14.8		S	0	0	px	0	0	0	0	fd	0	py	0	0	0	0	Syenite dyke(8cm wide) in contact w./ wo. (HA:30 one edge; HA:37 other edge)(edges converge); syenite ~80% k-spar, 20% px., w./ trace pyrite	
14.79	15		W	50	0	0	0	0	cc	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ fragments of chert (1x2cm);c/c by 1.3 cm wide calcite vein(HA:50);c/c by rusty carbonate vein(c/c's calcite vein)(HA:80)	

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
14.96	15.2		W	65	0	px	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. w./~10 % px. w./ layer of chert 4 cm wide(HA85). Chert is c/c by network of wo. veins
15.24	18.3	99																
15.24	16.1		W	95	0	px	0	0	cc	0	0	0	0	0	0	0	0	White-lt.green wo.(fine and med. grained) w./ ~3% px. as bands 1-2mm wide(HA:68) Wo. at 18.79 is med.grained(XLs 4mm long). C/c by one 1 mm wide calcite vein(HA:36)
16.05	16.5		?	10	0	px	0	0	0	qz	0	0	0	0	0	0	0	Chert layer moderately c/c by <<1 mm wide wo. veins;w./ ~2% px. w./in wo. veins(locally veins 5mm wide)
16.5	17.1		W	90	0	px	0	0	0	0	fd	0	0	0	0	0	0	Lt. grey med-grained(6mm XLs) wo. w./ ~10 % px. w./in irregular layers 3-4mm wide(HA:64); c/c by 2 med-grey 4mm wide k-spar veins(HA:35)
17.05	17.3		W	95	0	px	0	0	0	0	0	0	0	0	0	0	0	White-light green fine grained wo. massive w./ no visible px. grains
17.27	17.6		V	15	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert layer containing wo. veins ,1mm wide(HA:41) veins swell up locally to 3cm wide(almost looks like a dyke)
17.63	18.4		W	65	0	px	0	0	0	qz	0	0	0	0	0	0	0	Wht.med.grained wo.(5mm long XLs) interlayered w./4 cm wide chert layers.3 chert layers(HA:49) are subparallel and contain ~10cm thick wo. layers in betwn them;chert is c/c by white fine-grained px.-free wo. Wo. layers contain ~10% px. dispersed w./in wo.
18.24	21.3	100																
18.42	18.6		W	55	gt	px	0	0	0	qz	0	0	0	0	0	0	0	White med. grained wo. w./~2% px. w./in wo. matrix.Layer of chert .5cm wide offset causing same qtz layer observed twice.(HA:65).Chert layer contains px-rich bands(6mm)(parallel to HA:65)and lt. orange gross gt bands(5 mm) at same angle.
18.64	18.9		P	0	gt	px	0	0	0	0	0	0	py	0	0	0	0	Pyroxenite dyke;(~79%px., 15% blk mel gt, 1% red-pink gross gt, ~5% pyrite. Gross. occurs in 3mm wide bands w./in pxite(HA:35).Mel gt in <1mm wide veinlets(HA55)
18.9	19.9		W	75	0	px	0	0	cc	0	0	0	0	0	0	0	0	White fine-grained wo. w./ 10% px. interspersed w./in wo. matrix. 3 med.green px.-rich patches (2.5x6cm long) w./in wo. 1 patch of extra white wo. 3 calcite veins 1-1.5cm wide(HA:60) w./1mm wide px.-rich core
19.9	20.4		W	70	0	px	0	0	cc	qz	0	0	0	0	0	0	0	White med-grained wo. w./ ~5% px. dispersed w./in matrix. 3 chert + px. layers 3mm wide (HA:50). Wo c/c y 2 calcite veins(4-6mm wide)(HA:80)
20.4	21		T	5	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey chert layer (HA:75) w./ 2 layers of white wo.(5mm wide;HA:64). Chert c/c by network of <<1mm wide calcite veinlets and one 1mm wide white calcite vein(HA:48)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
21	21.5		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	White-lt.green wo.(fine-grained)w./ ~5% px.as diffuse layer(2mm wide;HA:75) and 1 patch(0.5 x 0.5 cm). 1 layer of med. grained wo. ~4cm wide(HA:65)
21.34	24.4	98																
21.51	21.6		?	0	0	0	0	0	0	qz	0	0	0	0	0	0	0	Chert layer(5cm wide;HA:70)
21.57	21.9		W	90	0	px	0	0	0	0	fd	0	0	0	0	0	0	White-lt.green med. grained wo.(7mm long Xls) ./ ~10%px. as 2mm wide envelopes(irregularly shaped)surrounding clusters of coarse wo.;c/c/ by k-spar vein 2mm wide(HA:40)
21.87	21.9		?	1	0	0	0	0	0	qz	0	0	0	0	0	0	0	Chert layer(1.5cm wide;HA:40);chert contains microfractures of wo.
21.9	22.1		W	90	0	0	0	0	0	qz	0	0	0	0	0	0	0	Same wo. as described above
22.11	22.2		S	0	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Syenite layer (1-2.5 cm wide;HA:55) conatining ~80% k-spar, 15% gross and ~5% px.
22.16	22.3		W	80	0	px	0	0	cc	qz	0	0	0	0	0	0	0	White wo. w./ ~5% px. dispersed w./in it; contains chert layer 1.5 cm wide (HA:70) that is c/c by wo. veinlets <<1mm wide. C/c by 2 dk. grey calcite veins <1mm wide(HA35)
22.33	22.5		S	0	0	px	0	0	cc	qz	0	0	0	0	0	0	0	Syenite dyke(same type as described above) ~ 20 cm wide(HA:50)
22.53	22.8		?	5	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt.green-grey chert layer (HA:70) w./ wo. layers 5-10mm wide(HA50); chert c/c by network of calcite veins <<1mm wide
22.78	23.2		W	70	0	px	0	0	cc	0	0	0	0	0	0	0	0	White and lt.green wo. ~15% px. as 2mm wide envelopes around clumps of coarse wo.; one 5 cm wide patch of lt.red wo.(Fe-content?). Wo. c/c by one 9mm wide calcite vein (lt.green fine grained ;HA:65)
23.22	23.4		S	0	gt	px	0	0	0	0	fd	0	py	0	0	0	0	Syenite dyke;(~70% k-spar, ~20% px.,~10% gross and trace amounts of pyrite). Syenite c/c by <1mm wide veins of v.lt.brn. gt(andr?);these veins are terminated by the contact of dyke w./ wo.(l.e. syenite and (andr?) veins that cut them are pre-wo.)
23.42	23.6		W	80	gt	px	0	0	0	qz	fd	0	0	0	0	0	0	Wht. wo.w./ 1% px. w./in wo. that is w./in 5mm of contact w./ syenite dyke(described above).4 chert layers(1 2mm+3 1cm wide) all parallel to HA:60;wo. contains layers parallel to HA:60 defined by colors: white, green and lt.red(Fe-content fluctuations?)
23.58	24.4		W	90	0	0	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. containing layers(HA:76) 4 cm wide of white, lt. green wo.;c/c by <1mm wide rusty carbonate veinlets(HA:65)
24.39	27.4	91																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
24.39	24.8		W	85	0	0	0	0	cc	0	0	0	0	si	0	0	0	White fine-grained wo. w./ 4mm wide lt.green calcite vein(HA:84). Wo. c/c by siderite veins < 1mm wide(HA:80)
24.83	25.3		?	3	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Chert layers(HA:55) c/c by same calcite vein described above. Chert c/c by network of wo. veinlets <<1mm wide
25.33	25.6		W	95	0	0	0	0	0	0	0	0	0	0	0	0	0	White-lt.grey med.grained wo.(3mm long XLs); layers of fine-grained wo.(white;1.5 cm wide;HA:65) are surrounded by dk. grey coarse wo.(1 cm long XLs) which has parallel acicular XLs perpendicular to white fine-grained wo.
25.59	25.8		?	0	0	px	0	0	0	qz	0	0	0	0	0	0	0	Chert layer ~ 8 cm wide (HA:70); chert conatins ~2% px. w./in lt.green layers parallel to HA:75
25.82	26.2		W	80	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt.grey ch.layer(2 cm wide;HA:80) in contact w./ white fine-grained wo. layer; wht. wo. layer is in contact w./ coarse lt. green wo. w./ Xls >1cm long and all perpendicular to white wo.layer.INTERP:contact represents proto-contact betwn. marb. and chert.
26.15	26.5		?	10	0	px	0	0	0	qz	0	0	0	0	0	0	0	Chert layer w./1.3 cm wide (wo. + 15% px. vein)(HA:68)
26.45	26.7		?	10	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Wht. wo.(fine-grained) layer 2 cm wide in between chert layer and coarse wo. layer.Ch. layer(1cm wide;HA:86); coarse wo. layer 8mm wide(HA:86) and contains a 2mm wide envelope of light purple wo.(also coarse-grained). Wo c/c by 5-8mm wide cc vein(HA:80)
26.66	27.3		W	85	0	px	0	0	cc	0	0	0	0	0	0	0	0	White fine and med.-grained wo. w./ ~15% px. dispersed w./in wo. matrix; contains layer of chert 1 cm wide which is c/c by wo. vein<<1mm wide.Wo. c/c by 0.5 - 2cm wide calcite vein(irregular;HA:67)
27.29	27.4		W	75	0	px	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. w./~5% px.dispersed w./in wo. matrix. Wo. c/c by 3 cm wide chert layer (HA:45)
27.44	30.5	100																
27.44	27.7		W	80	0	0	0	0	0	qz	0	0	0	0	0	0	0	White, lt.red, lt.green , med.grained wo.; different colored layers(7mm wide;HA:40); 1 chert layer 1 cm wide(HA:80)
27.66	27.9		W	65	0	px	0	0	0	qz	0	0	0	0	0	0	0	White wo. w./ ~ 10 % px. dispersed w./in wo. matrix;contains fragments of chert(0.5x1cm), aligned in wo.(HA:64)
27.86	28.2		?	2	0	px	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert layer c/c by <1mm wide veinlets of wo.(HA:52). Chert c/c by px. vein 2mm wide(HA:44)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
28.17	28.9		W	95	0	0	0	0	0	qz	0	0	0	0	0	0	0	Coarse-grained wo., white-lt.gren(wo. Xls ~1cm long avg., up to 2 cm long and all parallel) w./ 3% px. interspersed w./in wo. matrix. Contains one 1.5cm-6cm wide irregular layer of chert; chert is c/c by <<1mm wide wo. veinlets; chert layer HA:44
28.91	29		?	1	0	0	0	0	0	qz	0	0	0	0	0	0	0	Chert layer(3.5 cm wide;HA:45); minor <<1mm wide wo. veinlets
28.97	29.5		W	70	0	0	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. interlayered w./ 3 chert bands 1-1.5cm wide(HA:62 and HA:20)
29.47	29.8		W	50	0	0	0	0	cc	qz	0	0	0	0	0	0	0	White-lt.green wo. w./ >5cm wide chert layer(HA:80); chert c/c by <<1,, wide wo. veins in irregular orientations. Wo. + chert c/c by <1mm wide lt.-dk. grey calcite layer
29.82	32.1		?	5	0	px	0	0	cc	qz	fd	0	py	0	0	0	0	Lt.gry ch layer(HA:75) with minor wht.cc veins(<<1mm wide).~3% of section is wo.w./in <<1mm wide veins (HA:70) and in one layer of(wo+px)1 cm wide(HA:80).Qtz c/c by syenite dykelets contain.lt.grey core surr. by dk. grey min.(feldspars).Pyr in dyke(HA:50)
30.49	33.5	100																
32.13	32.7		W	85	0	px	0	0	0	0	0	0	0	0	0	0	0	Med.-coarse grained white-lt.green wo. w./~5% px. w./in px. layers(HA:50) 3mm wide; locally wo.c/c by <1mm wide lt. orange gross. veinlets(HA:15);cherty layer ~1cm wide (HA:35) which is surrounded by 1cm wide layers white px.-free wo.
32.73	32.9		?	10	0	0	0	0	0	qz	0	0	0	0	0	0	0	Chert layer ~9cm wide (HA:60) c/c by network of <1-2mm wide white wo. veins
32.86	33.2		W	60	0	0	0	0	0	qz	0	0	0	0	0	0	0	White med-grained wo. w./ 2 chert layers 2- 3cm wide(HA:50) which are c/c by white wo. veinlets <1-3mm wide(HA:42)
33.21	33.4		W	40	0	0	0	ep	cc	qz	0	0	0	0	0	0	0	Core is more fractured: 5 breaks in w./in 15cm; fragmented chert surrounded and c/c by white wo.; section contains ~10% cc and ~10% epidote
33.39	33.6		?	2	0	0	0	0	cc	0	0	0	0	0	0	0	0	Light grey chert w./ calcite lamination<1mm wide(could be veins) and w., calcite w./in microveinlet networks; calcite laminations(HA:46). Three 2 cm long wo. patches
33.54	36.6	99																
33.6	34.2		W	60	0	0	0	0	0	qz	0	0	0	0	0	0	0	Fine white - lt. green wo. w./ 4 chert layers (5 cm wide;HA:50)
34.23	34.3		W	40	0	0	0	0	0	qz	0	0	0	0	0	0	0	Chert layer(10 cm wide;HA:57) w./in wo.(fine, white wo.)
34.33	34.5		W	70	0	0	0	0	0	qz	0	0	0	0	0	0	0	White, fine-grained wo. w./ 2x3cm fragments of chert

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
34.45	34.9		?	1	0	0	0	0	0	qz	0	0	0	0	0	0	0	Chert layer(lt.grey) w./ <<1mm wide fractures (HA:52) of wo.
34.85	35.1		?	10	0	0	0	0	0	qz	0	0	0	0	0	0	0	Chert layer(dk.grey) w./ 1cm wide white fine-grained wo. layer(HA:50); chert is c/c by microveinlets of wo.
35.07	35.7		W	85	0	0	0	0	cc	qz	0	0	0	0	rh	0	0	Fine-grained white wo. w./ 1 chert patch ~5x7 cm wide. 1 calcite vein 5mm wide(HA:69) w./ diffuse 2cm wide lt. pink envelope of rhodochrosite
35.65	36.4		S	0	gt	px	0	0	0	0	fd	0	py	0	0	0	0	Syenite dyke w./ ~90% k-spar, ~5% px, ~5% gt and trace pyrite. Alignment of feldspar is HA:29. Px:interstitial w./ lt. green mineral. Gt:lt. brown (andr) veinlets <<1mm wide(HA:50). Rusty zone form 36.18m - 36.38m
36.38	36.5		W	70	0	px	0	0	0	qz	0	0	0	0	0	0	0	Lt.green fine-grained wo. w./ 2 chert layers 1.5 cm wide(HA:30) and 3.0 cm wide (HA:20) wo. contains ~5% px. dispersed w./in matrix
36.59	39.6	100																
36.45	37.4		S	0	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Syenite dyke(HA:11) (same as dyke described above). Alignment o XLs: HA:21. C/c by HA:46 4mm wide lt. brown gt veinlets
37.38	37.5		S	10	0	px	0	0	0	0	fd	0	0	0	rh	0	0	K-spar envelope of syenite dyke w./ ~90% k-spar, ~10% px., and containing layer of pink fine-grained wo.(pink=rhodochrosite ?) 1 cm wide(HA:20)
37.5	38.1		W	85	0	px	0	0	0	0	fd	0	0	0	0	0	0	White, fine-grained wo. w./ ~5% px. interspersed w./in wo. matrix. 1 v. fine grained layr 1 cm wide (HA:45). 1 syenite dyke 4cm wide (HA:05) w./~90% k-spar, 10%px.;px. is concentrated in 2mm wide selvage
38.07	39.3		W	99	0	0	0	0	0	0	0	0	0	0	0	0	0	White - lt.grey wo. layer w./ <1mm iwde white veinlets of wo.(?)(HA:39, 59). 2 layers 5 cm wide (HA:68) of white fine-grained wo.
39.63	42.7	95																
39.28	40.3		W	85	0	px	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained w. layer(HA:74) w./ ~<1 % px, dispersed w./in matrix. 1 chert layer (HA:52) 1 cm wide. Chert fragments in wo.(2x6mm)
40.33	40.6		W	75	0	px	0	0	0	qz	0	0	0	0	0	0	0	White, fine-grained wo. w./ ~5% px. dispersed w./in wo. matrix; contains lt.grey chert fragments 1x3 cm that are c/c by wo. veinlets <<1mm wide, and chert layer 1cm wide(HA:45)
40.58	42.8		W	95	0	px	0	0	cc	qz?	0	0	0	0	0	0	0	White fine-grained wo. w./ ~1% marble in one layer 2-4 mm wide(HA:40). Wo. w./ ~1% px. dispersed w./l wo. matrix. broken up layers and fragments of lt. grey v. fine grained wo.(proto-chert??)
42.58	45.7	99																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
42.78	43.3		W	99	0	0	0	0	0	0	0	0	0	0	0	0	0	Extremely fine-grained wo., lt.grey color, c/c by microveinlets of white wo. <<1mm wide(HA:58)
43.3	44		W	95	0	px	0	0	cc	0	0	0	0	0	0	0	0	White-lt.green fine and med.-grained wo. w./ ~1% px. dispersed w./in wo. matrix. C/c by 14 subparallel med. grey calcite veins <<1mm wide(HA:79)
43.97	44.6		S	5	gt	px	0	ep	0	0	fd	0	py	0	0	0	0	Lt.grn.syenite dyke w./ ~80% k-spar, 10% px, 7% gt, 3% ep. and trace amounts of py. K-spar is massive and contains px. in interstices. Gt is lt.brown and occurs in a network of veinlets <<1mm wide.(HA:55) is predominant orientation of veinlets. Cream wo. layer.
44.55	44.7		W	70	0	px	0	0	0	0	fd	0	0	0	0	0	0	White to lt.green wo.(fine-grained) layer w./l syenite dyke; wo. layer is 11cm wide; HA:40); wo. w./ ~5% px. dispersed w./in wo. matrix parallel to HA:65
44.72	45		S	5	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Syenite dyke w./ ~90% k-spar, 10% px., 10%gt. G as lt.brown microveinlets (<<1mm wide) c/c's white fine-grained wo. w./ ~1% px. dispersed w./in wo. matrix
44.96	45.7		W	80	gt	px	0	0	cc	qz	fd	0	0	0	0	0	0	Lt.grn. wo. w./ ~15% px. and 2% gt + k-spar, 2% chert. Px:w./in irreg. layers(HA:80) 5-8mm wide k-spar + gt w./in dyke(concordant; HA:77). C/c by 3 1-2mm wide dk.grey calcite veins(HA:64). Chert layer(5mm wide; HA:75). Cream color layer 7mm wide(fine gross?)
45.73	48.8	98																
45.73	45.9		W	99	0	0	0	0	0	0	0	0	0	0	0	0	0	Lt. grey v.fine-grained wo.c/c by white wo.(?) veinlets << 1mm wide. Layer of med.-grained white wo. present(HA:80)
45.9	46.3		W	90	0	px	0	0	0	qz	0	0	0	0	0	0	0	White med.-grained wo. w./ ~5% px., 5% chert Px: w./in 3 cm wide patches and in irregular diffuse layers. Chert layer 2 cm wide (HA:88) c/c by white fine-grained wo.
46.32	46.8		W	99	0	px	0	0	0	0	0	0	0	0	0	0	0	Lt.grey v. fine-grained wo. c/c by ~5 <1mm wide white wo. veins., white patch 3 cm wide of fine-grained wo. of ~1% px. dispersed w./in wo. matrix
46.83	47		W	80	0	px	0	0	cc	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~5% px. dispersed w./l wo. matrix. 1 layer of amrble 1 cm wide HA:87(lt.green)
47.03	47.6		?	10	gt	0	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. patch (3x13cm) surrounded by lt.grey chert which is c/c by lt.brown gt veins(<<1mm wide). 1 cm wide lt. grey qtz. vein(HA:89)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
47.63	48		S	0	gt	px	0	0	cc	qz	fd	0	py	0	0	0	0	Syenite dyke >2c wide (HA:81) w./ ~85% k-spar, 5% px., 5% gt, ~5% py. Gt: lt. brown(andr?) gt. Dyke c/c chert(lt.grey). Dyke and chert c/c by 1mm wide lt. green calcite veins(HA:43)
47.97	48.6		?	0	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey chert layer c/c by 2mm wide white calcite veins(HA:76) and (HA:05)
48.78	51.8	100																
48.59	49.1		?	5	0	px	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey-green-med.green chert layer c/c by network of white wo. veins <<1mm wide w./ prominent orientation(HA:61)(med.green color may reflect disseminated px. in qtz.) 2 calcite veins(HA:45) med. grey color
49.12	49.3		W	70	0	px	0	0	cc	qz	0	0	0	0	0	0	0	Lt.grey chert layer 2 cm wide(HA:80) w./ layer of white fine-grained wo. w/~10% px.dispersed w./in wo. matrix, parallel to chert layer(HA:80). 1 med.grey calcite vein(HA:32) <<1mm wide
49.27	49.7		W	85	0	px	0	0	0	0	fd	0	0	0	0	0	0	White-lt.green wo.(med.-grained) e/ ~3% px. dispersed w./in wo. matrix. C/c by 2.6 cm wide med. grey k-spar vein (HA:10) which has one 3-4 mm wide veinlet stemming from it
49.74	49.9		?	10	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt.-med. green chert layer(11cm wide;HA:38) c/c by network of <1mm wide wo. veinlets and by one 1 mm wide white wo. vein(HA:38)
49.86	50		W	90	0	px	0	0	0	qz	fd	0	0	0	0	0	0	White med.grained wo. w./ ~7% px. dispersed w./in matrix. One 2-3 mm wide lt.brown gross. vein locally cored by k-spar(HA:54). 1 chert layer 1.5 cm wide(lt.grey-green)(HA:60) c/c by ntwork of wo. veinlets <1mm wide
50.03	50.4		?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Med.grey-green cher layer(HA:65). First 15cm are c/c by network of wo. veins
50.39	51.3		S	0	gt	px	0	0	0	qz	fd	0	py	0	0	0	0	Rusty grey syenite w./~90%k-spar,5%px,1%py,4%fuzzy wht.-cream mins(2-3mm wide)(silica undersaturated phases?).C/c by <1mm wide lt.brn.gt(andr?)veins(HA:80).Contains ~10 cm wide envelope of wht.-lt.grn.fine-grained wo.w./~5-10% px.Dyke intrudes btwn. 2 ch
51.26	51.5		?	0	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt.grey chert w./ bands of 5-8mm wide lt.grey chert(HA:40)
51.46	51.6		W	40	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt.grey chert w./ ~40% wo. in 1-10mm wide veins parallel to each other(HA:29)
51.83	54.9	98																
51.64	52.2		T?	0	0	0	0	0	cc	0	0	0	0	0	0	0	0	Grey-green marble w./ 2mm wide lt. gree layers(HA:79)
52.22	52.4		W	50	0	0	0	0	cc	0	0	0	0	0	0	0	0	White fine-grained wo. w./ layer of light green marble 2 cm wide (HA:68)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
52.4	53.3		T?	0	0	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. grey marble w./ lt. green layers 2-4mm wide (HA:60). C/c by rusty carbonate veins~1mm wide(HA:89)
53.28	53.4		W	40	0	0	0	0	cc	0	0	0	0	0	0	0	0	White med.-grained (2-3mm long Xls) wo. w./ layer of lt. grey marble (HA:70) w./ lt. green layers (HA:70)
53.39	53.6		T?	0	0	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. grey marble w./ 2-4mm wide layers of lt. green marble(HA:75). 1 rusty carbonate vein 1 cm wide wide(HA:60)
53.62	54.7		?	15	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey-green chert layer w./ lt. pale green calcite veinlets <1-10mm wide in network pattern. 1 marble layer 5 cm wide at 54.48 m(HA:42). Chert c/c by <1mm wide white wo. veins(in network pattern). One 3cm wide px.-rich layer(HA:65)
54.88	57.9	73																
54.73	55.4		W	40	0	px	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey chert interlayered w./ lt. grey -blue marble(HA:75) .Separating the two layers is 5-40 mm wide white fine-grained wo. layers w./ ~5% px. 2x4 cm wide px.-rich patches w./in wo.
55.38	57		core loss															~ 1.2m loss of core(fault?)
57	58		W	60	0	0	0	0	cc	qz	0	0	0	0	0	0	0	White fine-grained wo. interlayered w./ marble and chert layers 6-11mm wide(HA:70). One marble layer and 3 chert layers are surrounded and c/c by wo.
57.93	61	98																
57.98	58.3		W	20	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. pale green chert layer 8 cm wide (HA:60) w./ 5 cm wide lt. grey marble layer (HA:60). Surrounding marble layer is 1-2 cm wide white fine-grained wo. layer
58.26	58.7		?	0	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey chert layer c/c by network of calcite veins <<1mm wide subparallel to (HA:60)
58.66	58.8		W	55	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey chert interlayered w./ 2-8mm wide lt. green marble layers which are surrounded by white fine-grained wo.
58.82	59.3		W	20	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey chert w./ 2 layers of wo. 1.5cm wide(HA:70); chert is c/c by network of wo. veins <<1mm wide . 1 layer of lt. grey marble 2-3cm wide(HA:80). Chert + marble are separated by wo. layer ~0.5cm wide. Section c/c by(HA:44;HA:60) rusty carbonate veins
59.28	60		?	15	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert(cloudy, i.e. non-transluscent) c/c by one 2mm wide white wo. veins(HA:35). 1 zone 10cm wide at 60.08m containing white fine-grained wo. layers 1-2cm wide(HA:50)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
60.03	60.3		W	20	gt	px	0	0	0	0	0	0	0	0	0	0	0	Med. green diopside calc-silicate w./ ~80% diopside, 15% gt, ~5%wo. Gt:3-5mm wide dk.brn. grt(mel) XLs dispersed evenly throughout wo. matrix; lt.brn gt occurs as <<1mm wide veinlets(HA:57). Wo:w./in 5-10mm veins(HA:57)
60.97	64	99																
60.28	63.1		W	25	0	px	0	0	0	0	0	0	0	0	0	0	0	Lt. green diopside calc-silicate(same as described above). C/c by two 2-10mm wide lt. yellow carbonate vein(HA:35). Contains lt. pink carbonate layer 1.5 cm wide(HA:60)
63.12	63.5		S	0	gt	px	0	0	0	0	fd	0	py	0	0	0	0	Syenite dyke w./~90% k-spar, ~8% gt, ~2% px + trace pyrite. K-spar is massive; gt:lt.brn gt(andr-mel) which occurs in <1mm wide veinlets(HA:68).Px:lt. green interstitial px.
63.48	63.8		W	80	gt	px	0	0	0	0	fd	0	0	0	0	0	0	White - lt. green med.grained wo. w./ ~15% gt ~5% px.Gt:w./in four 5-40 mm wide garnetite layers(HA:45) w./ med. brown gt(mel) w./ minor interstitial k-spar. Px:one 1-2mm wide px.-rich layer(HA:68) and px. interspersed w./in wo. matrix
63.81	64.5		S	0	gt	px	0	0	cc	0	0	0	py	0	0	0	0	Syenite dyke w./ ~10% px., 10% gt, <1% pyrite. Px: lt.-med.green interstitial grains of px.Gt:lt.-med. brown gt w./in 1-4mm wide veins(HA:59). C/c by <<1mm wide calcite veins(HA:63)
64.02	67.1	63																
64.45	64.9		W	70	0	px	0	0	cc	qz	fd	0	0	0	0	0	0	Lt. green marble layer 1-2cm wide in contact w./ syenite(HA:80). Marble in contact w./ 7cm wide white fine-grained(wo. + 10% px) layer; wo. contains fragments of med. green chert 5x20mm w./in it.
64.85	65.8		S	0	gt	px	0	0	cc	0	fd	0	0	0	0	0	0	Syenite dyke ~90% k-spar, ~5%px., ~5%gt. Px: lt-med. green interstitial px.(fine-grained). Gt:lt.brown veinlets of gt(mel) <<1mm wide(HA:65). Contains 1.5 cm wide veinlets of lt. grey marble(HA:80)
65.82	67.1		?	10	0	px	0	0	0	qz	0	0	0	0	0	0	0	Lt. green chert c/c by network of 4mm wide white wo. veins. Contains 2 layers ~ 8 and 10 cm wide of white fine-grained wo. w./ ~5% px.(layers HA:60)
	EOH																	

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
BTNK - 96 -16																		
0	1.52																	Casing
1.52	3.05	59																
1.52	1.65		W	20	0	px	0	0	0	qz	0	0	0	0	0	0	0	Lt. green-grey chert layers 1.5-2.5cm wide(HA:42) surrounded by 1-1.3 cm wide white wo. layers w./ ~ 5% px. grains dispersed w./in wo. matrix. Chert is c/c by << 1mm wide white wo. veinlets
1.65	1.89		W	85	0	px	0	0	0	qz	0	0	0	0	0	0	0	Layer of white fine-grained wo. w./ ~5% px. dispersed w./in wo, matrix.
1.89	1.99		V?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Layer of chert (described above)
1.99	3.05		X?	15	gt	px	0	ep	0	qz	0	0	0	0	0	0	0	Med. green chert 10cm wide w./ three <1mm wide wo. veins(HA:89)
3.05	6.1	70																Core moderately broken up. Lt. grey - lt. gren chert interlayered w./ 1-10mm wide white wo. layers(HA:68). 3 dykes 8mm, 10mm, 30mm wide(HA:68) of ~80% dk.grn. px., ~20% v. lt.grn. gt(gross?) locally w./ minor amounts of pistachio grn. epidote.
3.05	3.4		W	70	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. green - lt. grey chert layers 1-5cm wide(HA:51) interlayered w./ 1-30mm wide white wo. layers parallel to (HA:51)
3.4	3.56		W	80	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. green-grey chert w./ layers of wo.(as described above) with higher wo. content than above . Chert is c/c by network of <<1mm wide wo. veins
3.56	3.84		W	20	0	0	0	0	cc	0	0	0	0	0	0	0	0	Med. green-grey chert w./ network of 1-5mm wide wo. veins predominantly parallel to (HA:48). C/c by one 1mm wide calcite vein(HA:16)
3.84	3.95		W	99	0	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~1% px. dispersed w./in wo. atix;(wo. layer HA:05)
3.95	4.25		W	25	0	px	0	0	0	qz	0	0	0	0	0	0	0	Med. green chert layer c/c by four 4mm wide white wo. veins predominantly parallel to (HA:55). ~5% of section is med. green px. interspersed unevenly w./in qtz.
4.25	4.47		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~10% px. interspersed w./in wo matrix and aligned parallel to (HA:50). One 5mm wide px.-rich layer (HA:39)
4.47	4.55		W	95	0	px	0	0	0	0	0	0	0	0	0	0	0	White-lt. green fine-grained wo. layer in between chert; layer ~10cm wide(HA:50); wo. contains ~5% px. dispersed w./in wo. matrix
4.55	4.75		?	5	0	0	0	0	0	qz	0	0	py	0	0	0	0	Lt. green chert layer w./ minor amounts of <1mm wide white wo. veining; chert is c/c by 6mm wide syenitic dykelet(HA:39). W./ ~ 1-2% pyrite causing FeOx staining of dyke and chert surrounding it.

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
4.75	4.88		W	95	gt	px	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ ~5% px. dispersed w./in wo. matrix; contact between chert(described above) and wo. has 2cm wide foliated layer of ~80% wo., ~10% gt(dk.brn.), ~5% py., ~5% chert(HA:2)
4.88	4.95		?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert layer 6cm wide (HA:05) w./ minor amounts of <<1mm wide wo. microveinlets
4.95	5.04		?		0	0	0	0	0	qz	0	0	0	si	0	0	0	Lt. grey chert layer ~10cm wide (HA:50) w./ lush amounts of veining of << 1mm wide wo. veinlets and 2 irregular 1 cm wide wo. veinlets(HA:55). Section c/c by siderite vein(4mm wide;HA:70)
5.04	5.18		W	70	0	px	0	0	0	qz	0	0	0	0	0	0	0	Med. green chert w./ 6 cm wide and 2cm wide layer of white fine-grained wo. w/ 1% px.(layers HA:35)
5.18	5.44		?	15	0	0	0	0	0	qz	0	0	0	0	0	0	0	Med. green chert layer w./ one 1 cm wide white fine-grained wo. layer (HA:39). Chert is c/c by microveinlets and 1-2mm wide white wo. veinlets(HA:25)
5.44	5.6		?	1	0	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~4% px. dispersed w./in wo. matrix(wo. in layer HA:06)
5.6	5.78		W	85	0	0	0	0	0	qz	0	0	0	0	0	0	0	Med. gree chert layer w./ minor microveins of white wo.
6.1	9.15	93																
5.78	8.65		W	85	0	px	0	ep	0	0	0	0	0	0	0	0	0	Wht. fine-grained wo. w./~10%px. dispersed w./in wo. matrix parallel to HA:27. C/c by 1 grn. pxite. dyke 3.5cm wide which contains 8x15mm frags. of wht. fine-grained wo. w./~10% acicular px. and frags. of pistachio grn. ep.1 layer 3cm wide(90%px.10%wo.HA:45)
8.65	8.99		W	90	0	px	0	0	0	qz	0	0	0	0	0	0	0	Fine-grained white-lt. green wo. w./ ~10% px. dispersed w./in wo. matrix. Contains 2 chert layers(HA:66) 5 cm wide and 2.8 cm wide
8.99	9.04		?	0	0	px	0	0	0	qz	0	0	py	0	0	0	0	3 cm wide med. purple -med. red and lt. green layer(HA: of chert w./ ~10% pyrite)
9.04	9.21		W	85	0	px	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ ~10% px. w./in wo. matrix ;wo surrounds and c/c's 2cm wide lt. grey chert layer(HA:73)
9.15	12.2	98																
9.21	9.32		W	65	0	0	0	0	cc	qz	0	0	0	0	0	0	0	White fine-grained wo. interlayered w./ teo lt. grey - blue marble alyers(1.5 and 4 cm wide) and three lt. green-grey chert layers(1.5, 4,5 cm wide). Lays are all subparallel(HA:39) and are surrounded by wo.
9.32	9.46		V?	3	gt	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey -green chert layer c/c by minor amounts of <<1mm wide wo. vein
9.46	9.56		W	99	0	px	0	0	0	0	0	0	0	0	0	0	0	White med.-grained wo. w./ <1% px.

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
9.56	9.85		W	20	0	px	0	0	0	qz	0	0	0	0	0	0	0	Section intersects hinge of a folded chert layer ~5-13cm wide(lt, grey) surrounded by white fine-grained wo. w./ ~1-2% px; up hole limb(HA:19) and down hole limb (HA:10 - in opposite direction from HA:19)
9.85	10.2		W	99	0	px	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. w./ <1% px; locally a v. light purple color and from 10.17 - 10.22 wo. is coarse-grained(6-7mm long XLs)
10.22	10.4		V?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. green-grey chert layer c/c by 1-4mm wide white wo. veins(HA:70)
10.35	10.6		W	30	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey chert layer (>5cm wide) and two lt. blue-grey marble layers(4 and 7 cm) are subparallel(HA:50) and surrounded by 1-4 cm wide layers of white fine-grained wo.
10.6	11.1		?	5	0	px	0	0	0	qz	fd	0	py	0	0	0	0	Lt. grey chert layer containing two med. green syenite dykelets(1 and 2.5 cm wide)(HA:48) which contain ~85% k-spar, ~10% px., ~5% py.
11.07	11.1		W	50	0	0	0	0	cc	qz	0	0	0	si	0	0	0	White med.-grained wo. layer 2 cm wide (HA:45) which is l between chert layer(described above) and a 2 cm wide lt. grey-blue layer parallel to HA:45. C/c by 2mm wide lt. orange siderite vein(HA:55)
11.13	11.2		W	99	0	px	0	0	0	0	0	0	0	0	0	0	0	6 cm wide white med.-grained wo. layer w./ ~1% px.
11.21	11.3		?	1	0	0	0	0	0	qz	0	0	0	0	0	0	0	Med. grey chert layer 5 cm wide(HA:32)
11.28	11.3		W	99	0	0	0	0	0	qz	0	0	0	0	0	0	0	7mm wide white fine -grained wo. layer(HA:29)(subparallel to above chert layer)
11.29	11.4		W	20	0	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. grey-blue layer(HA:32) w./ vein of wo. (white fine0grained) 1.1 cm wide(HA:40)
11.39	11.4		W	80	0	0	0	0	0	0	0	0	0	0	0	0	0	White fine-grained wo. layer 1.1 cm wide (HA:40)
11.4	11.6		?	0	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. - med. grey-green chert layer ~12cm wide (HA:50) c/c by 1-2mm wide white wo. veinlets(HA:65)
11.56	11.8		W	80	0	0	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. which contains fragmented layers 5-12 mm wide of lt. grey chert(4 layers in all)(HA:49)
11.77	12		W	20	0	0	0	0	cc	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ two layers of marble 1-2 cm wide and one chert layer 3 cm wide(HA:40)
12.2	15.2	99																
11.95	12.7		W	60	0	0	0	0	0	qz	0	0	0	0	0	0	0	White fine grained wo. w./ 5 fragmented lt. grey chert layers 2-7 cm wide (HA:30)
12.66	12.7		V?	10	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey-green chert w./ minor amounts of white wo. in microfractures
12.72	12.8		S	0	0	px	0	0	0	0	fd	0	py	0	0	0	0	3 cm wide lt. grey syenite dyke w./ ~90% k-spar, ~5% px., ~5% pyrite disseminated(HA:48)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
12.76	12.8		?	10	0	0	0	0	0	qz	0	0	0	0	0	0	0	2 cm wide lt. grey chert layer(HA:18) surrounded by 8 mm and 15mm wide layers of white fine-grained wo.
12.81	12.9		T?	10	0	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. grey-blue marble layer (HA:45) w./ wisps of wo.(5x30mm) parallel to (HA:45)
12.88	13		?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert layer 7 cm wide (HA:45) w./ minor amounts of w. microfractures ; layersurrounded by 1-8mm wide white wo. layers parallel to HA:45
12.96	13.1		W	30	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. green marble layer 8 cm wide interlayered w./ 2 cm wide chert layer w./ white fine-grained wo. in between layers, layers parallel to (HA:22)
13.11	13.4		?	5	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Med. grey chert layer w./ white wo. layer 3.5cm wide(HA:60). Section c/c by 2mm calcite veins
13.44	13.6		W	75	0	0	0	0	cc	qz	0	0	0	0	0	0	0	White fine-grained wo. interlayered w./ 3 to 25mm wide marble layers(HA:30)
13.58	13.8		?	10	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. - med. grey chert layer(HA:29) c/c by 2 mm wide dk. grey calcite vein (HA:75) contains pod of wo. 1.5 x 4 cm
13.82	13.9		W	20	0	px	0	0	cc	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ 5% px.(disseminated) interlayered w./ one chert layer 1.5 cm wide(lt. grey) and one marble layer 2.5 cm wide; layers are subparallel(HA:30)
13.92	14.5		?	10	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey chert interlayered w./ 5-10mm wide lt. blue-grey marble layers (all are subparallel to HA:42) which have 5-8 mm wide envelopes of white fine-grained wo.
14.52	14.8		W	20	gt	0	0	0	cc	qz	fd	0	py	0	0	0	0	Lt. grey chert layer (HA:46);contains a 2-3cm wide white fine-grained wo. layer(irregularly shaped) and locally cored by one <4cm patch of marble.5mm wide cream-lt.purple k-spar vein w./ fine-grained gt(gross?)and ~10% py;contains ~5mm envelope of px
14.78	14.8		W	60	0	0	0	0	cc	0	0	0	0	0	0	0	0	White fine-grained wo. layer 2 cm wide cored by 1 cm wide lt. green marble (HA:50)
14.81	15.1		W	45	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert w./ high amounts of wo. veins and layers which c/c and surround it ; wo. layers are 5-10mm wide(HA:35) and wo. veinlets are <1-1mm wide(HA:35)
15.13	15.3		?	0	gt	px	0	ep	0	0	fd	0	0	0	0	0	0	Pistachio green layer, aphanitic(v.fine-grained)c/c by <1mm wide lt. brown gt(gross?) veins(HA:12). 0.5 - 1.5 cm wide lt.-dk. brown gtite envelope(an epidotized pxite dyke)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
15.24	18.3	93																
15.3	15.6		W	35	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert layer c/c by white fine-grained wo. veins 1-15mm wide(HA:68); high amount of veining
15.59	16.5		?	15	0	px	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert c/c by white fine-grained wo. veins <1-1mm wide(HA:40) and contains two 2.5 cm wide white fine-grained wo. layers w./ ~5%px.(HA:52). C/c by three reusty carbonate veins(HA:30)
16.52	16.6		?	10	0	px	0	0	cc	qz	0	0	0	0	0	0	0	Same rock as above except core is highly broken up; minor calcite veining
16.62	16.8		W	75	0	0	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ minor amounts of fragmented 0.5 - 1 cm wide lt. grey chert layers(HA:48)
16.82	16.9		?	10	0	0	0	0	0	qz	0	0	0	0	0	0	0	Med. - dk. grey chert layers w./ minor 2-3mm wide lt. grey wo. veins(HA:60)
16.92	16.9		W	90	0	px	0	0	0	0	0	0	0	0	0	0	0	2.5 cm wide white layer of fine-grained wo. w./ ~10% px.(HA:49)
16.93	17		W	40	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey - cream chert layer w./ layer of wo. 2-3 cm wide(HA:55)
17.01	17.1		W	50	0	px	0	0	cc	0	0	0	0	0	0	0	0	1-2cm wide lt. grey -gren marble layer surrounded by two 1.5 cm layers of white fine-grained wo. w./ ~3% px. w./in wo. matrix
17.07	18.4		?	15	0	px	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert w./ two 1-2 cm wide white wo. layers(HA:40) and one 4cm wide white wo. (fine-grained) layer w./ 5% px.(disseminated)(HA:29)
18.29	21.3	99																
18.35	18.5		S	0	0	0	0	0	0	0	fd	0	py	0	0	0	0	Med. grey-purple syenite dyke w./ ~95% k-spar w./ abundant(~5%) disseminated pyrite
18.45	18.7		V?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert layer w./ minor <1mm wide white wo. veins(HA:32)
18.69	19.1		W	20	gt	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey- green chert layer w./ high amounts of white wo. veins <1mm - 02mm wide(HA:42). Contains three white fine-grained wo. layers(2,3,7 cm wide) subparallel (HA:56). One 4mm wide lt. brown gt layer(HA:50)
19.1	19.4		W	20	gt	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert layer moderately veined by 1-3mm wide white wo. veins(HA:45). 5mm wide lt. brown (andr?) gt. vein(HA:65)
19.4	19.5		W	85	0	0	0	0	cc	0	0	0	0	0	0	0	0	White fine-grained wo. layer 8cm wide (HA:39) w./ 0.5 - 1cm wide marble layers in the core of wo. layer(HA:39)
19.48	19.8		?	10	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. gey chert w./ dk. grey chert bands(5mm wide)(HA:40) c/c by minor amounts of <1-3mm wide wo. veins(HA:48, 38)
19.78	19.8		W	99	0	px	0	0	0	0	0	0	0	0	0	0	0	4 cm wide white fine grained wo. w./ 1% disseminated px.(HA:40)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
19.83	20.1		W	20	0	0	0	0	cc	qz	0	0	0	0	0	0	0	2 chert layers (4 and 2 cm wide) interlayered w./ 2 lt. grey marble layers 2 cm wide; chert and marble layers subparallel to (HA:40). Separating chert and marble layers are 2-25mm wide white fine-grained wo. layers
20.11	20.2		V?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert layer w/ minor <1mm wide wo. veins(HA:38)
20.2	20.5		W	40	gt	px	0	0	0	qz	fd	0	py	0	0	0	0	Lt.-med. grey chert layer w./1-3mm wide wht. wo. veins(HA:10). C/c by lt. grey-purple syenite dyke 1-3mm wide (~70% k-spar, 5% px., 20% fine-grained lt. brn gt); syenite contains envelope (~2cm wide) containing ~60% wo., ~40% fragments of cht. <1-1mm cx vein(HA:80)
20.53	20.8		?	10	0	0	0	0	0	qz	fd	0	0	0	0	0	0	Lt.-med. grey chert moderately c/c by 4mm wide wo. veins(HA:66). 1.5 cm wide lt. green-purple syenite dyke(HA:80)
20.75	21.6		?	15	0	px	0	0	cc	qz	0	0	0	0	0	0	0	Med. green-grey chert c/c by minor amounts of 1-3 mm wide wo. veins(HA:20). Contains two 1cm wide layers of white wo. w./ ~5% disseminated px. (HA:70). C/c by two dk. grey calcite veins (1mm wide; HA:82)
21.34	24.4	99																
21.64	21.9		W	30	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. green chert w./ high amounts of 1-2mm wide white wo. veins and two white fine-grained wo. layers 1-4 cm wide(HA:40,60). C/c by two dk. grey calcite veins(HA:70)
21.94	22.1		P	0	0	px	0	0	0	0	0	0	0	0	0	0	0	Med. green pxite w./ ~10% gt (lt. brown andr?) <1 mm wide veinlets(HA:30)
22.08	22.1		?	15	0	0	0	0	0	qz	0	0	0	0	0	0	0	Med. grey chert w./ moderate amounts of white fine-grained wo. <1-3mm wide(HA:38)
22.14	22.3				gt	px	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ ~5% disseminated px. interlayered w./ three 1.2 cm wide lt. green chert layers(HA:38). 3mm wide lt. brown gt (andr?) layer(HA:37)
22.27	22.6		W	50	gt	px	0	0	0	qz	fd	0	0	0	0	0	0	White fine-grained wo. w./ ~1-3% px. interlayered w/ 7 fragmented chert layers 1-2cm wide(HA:62). Rounded patches (1x2cm) of px. + k-spar w./ veins (<<1mm wide) of lt. brown gt.
22.58	22.6		T?	2	0	0	0	0	cc	0	0	0	0	0	0	0	0	4 cm wide lt. blue-grey marble(HA:42) w./ 2-6m wide envelope of white fine-grained wo.
22.63	22.7		V?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert layer c/c by minor amounts of <1-1mm wide wo. veins(HA:74)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
22.71	23		?	0	0	0	0	0	cc	0	0	0	0	0	0	0	0	Lt. grey marble layer(HA:62) w./ blk. patches 2x4 cm of Fe-bearing marble(?)
22.98	23.1		?	10	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey chert layers(3 in all) 1.5-4cm wide c/c and surrounded by 5-10mm wide white fine-grained wo. layers(HA:56). One marble layer 1.5 cm wide subparallel to (HA:56)
23.1	23.2		?	5	0	0	0	0	0	qz	fd	0	0	0	0	0	0	Same(chert + wo.) as above c/c by 1-3 cm wide lt. purple syenite dyke(HA:65)
23.2	23.4		W	70	0	0	0	0	cc	qz	0	0	0	0	0	0	0	1.5 cm wide fragmented chert layer(lt.green-grey) interlayered w./ 1.4cm wide lt.gree marble layers;2 layers are separated by 5-6 mm wide white wo. layers and are surrounded and c/c by white fine-grained wo;(layers subparallel to HA:60)
23.37	23.5		?	2	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey-green chert layer moderately c/c by <1 -1mm wide white wo. veins(HA:55) c/c by one 4 mm wide med. grey calcite vein
23.48	23.6		W	50	0	0	0	0	cc	qz	0	0	0	0	0	0	0	White fine-grained wo. layer 1.3 cm wide(HA:52) in between chert layer (described above) and marble layer 1.2 cm wide(HA:52)
23.55	23.8		?	10	0	px	0	0	0	qz	0	0	0	si	0	0	0	Lt. grey-green chert w./ minor amounts of wo. veins <1-1mm wide(HA:45). One pxite dyke (HA:60) 6mm wide. One 1 cm wide wo. layer (HA:69) w./ ~5% diss. px.. C/c by three <1-1mm wide siderite veins(HA:70)
23.8	24.6		W	60	0	px	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey -lt. green chert layers 1,1 - 2.2 cm wide (HA:50) interlayered w./ 6-40mm wide white fine-grained wo. w./ 0-2% diss. px.
24.39	27.4	89																
24.55	24.7		?	3	0	px	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey -green chert layer w./ ~10% px.(diss.) w./ mnor amounts of white <1-1mm wide wo. veins
24.72	24.8		W	60	0	0	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ 1-2mm wide parallel layers of lt. grey chert(sheared texture) (HA:44)
24.81	24.9				0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert w./ mnor amounts <1-1mm wide wo. veinlets(HA:34)
24.93	25		W	90	0	0	0	0	cc	qz	0	0	0	0	0	0	0	9 cm wide white fine grained wo. layer w./ 3x10mm fragments of lt. grey limestone and chert
25.01	25.4			10	gt	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert w./ moderate amounts <1-5mm wide white wo. veins(HA:54). One 1mm wide lt. brown gt. layer(HA:54)
25.4	25.6		W	45	0	0	0	0	0	qz	0	0	0	0	0	0	0	Fragmented layers of lt. grey chert 1.5x3cm surrounded by and c/c by white wo. layres(6-8mm wide;HA:50) and veins(<1-2mm wide;HA:20)

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
25.59	25.9		W	30	0	0	0	0	cc	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ fragmenyed chert layers 1-2cm wide and six lt.blue-grey marble layers 1-6cm wide;chert and marble alyers separated by 1-9mm wide wo. layers and chert is c/c by wo. microfractures; layers all subparallel to(HA:50)
25.86	27.5		?	10	0	0	0	0	cc	qz	0	0	0	si	0	0	0	Lt. grey chert w./ ~5% wo. microvenilets(<1mm wide) and four 1-2cm wide white layers of fine-grained wo.(HA:39). C/c by siderite veins(HA:37, 70,75) <1mm wide. C/c by 2mm wide calcite(HA:58) veins
27.51	27.6		W	99	0	0	0	0	0	0	0	0	0	0	0	0	0	Med.-grained white wo. layer 4cm wide(HA:50)
27.44	30.5	99																
27.59	28.2		W	25	0	0	0	0	0	qz	0	0	0	si	0	0	0	Lt. grey chert w./ ~20% white wo. veins <1-3mm wide and two 6mm wide white wo. layers(HA:55). C/c by one siderite vein 3-4mm wide(HA:88)
28.18	28.4		P	0	0	px	0	0	0	0	fd	0	py	si	0	0	0	Pxite dyke(HA:50) w./ ~85% px., 10% k-spar, ~5% pyrite. C/c by siderite veins(HA:46)
28.36	28.5		?	5	0	0	0	0	cc	qz	0	0	0	0	0	0	0	Lt. grey chert layer w./ ~5% wo. veins <1mm wide c/c by one 2mm wide calcite vein(HA:85)
28.53	28.6		W	90	0	px	0	0	cc	0	0	0	0	si	0	0	0	White fine-grained wo. w./ ~10% px.(diss.) c/c by 4mm wide calcite vein w./ 2-3 mm wide siderite envelope.
28.62	28.7		?	5	0	px	0	0	cc	qz	0	0	0	si	0	0	0	Lt. green chert layer (HA:16) w./ ~5% wo. microveinlets ~10%px.(diss.). C/c by same calcite and siderite as above
28.72	29		W	85	0	0	0	0	cc	qz	0	0	0	si	0	0	0	White med.-grained wo. w./ two chert(lt.grey) layers 1.5 cm wide(HA:10). C/c by same calcite and siderite as above
28.96	29.6		W	35	gt	px	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert layers 8-1cm wide. Surrounded by white wo.)fine-grained) 1-4cm layers(HA:25); chert layers c/c by white wo. microveinlets(<1mm wide) predominantly parallel to HA:35. One ~80% lt. brown gt, ~20% px. layer 1-5mm wide
29.6	30.1		W	85	0	px	0	0	cc	qz	0	0	0	0	0	0	0	White fine-grained wo. w./one 2.5cm wide lt. blue-grey marble layer(HA:30) and tow lt. grey and lt. green chert layers 2 and 4 cm wide(HA:30); wo. contains 1-2% px.(diss.)
30.05	30.5		?	15	0	0	0	0	0	qz	0	0	0	si	0	0	0	Lt. grey chert w./ five 2-3cm wide irregular whiet fine 0-grained wo. layers(HA:35); chert is c/c by wo. microveinlets. C/c by(HA:80) siderite vein 1mm wide
30.49	33.5	95																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
30.49	30.8		W	70	0	px	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ ~10% diss. px. Contains 3 fragmented chert layers 6-20mm wide(HA:48). One pxite dyke 3mm wide(HA:32). One patch (4x7cm) of coarse wo.(6mm long Xls) w./ ~15% px. disseminated w./in wo. matrix(HA:48)
30.77	30.9		X	10	gt	px	0	0	0	0	0	0	0	0	0	0	0	11 cm wide calc-silicate layer of ~80%px., ~10%wo., ~10% gt. Gt: lt. brown(gross?0 gt w./in <1-10mm iwde veinlets(HA:64) and locally dk.brn. mel. gt. dispersed w./in wo + px. matrix
30.92	31.1		W	85	0	px	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ fragmented lt.grey chert layers ~1mm wide(HA:50). One pxite dykelet 1-2mm wide(HA:45). Locally wo. contains ~5% diss. px.
31.11	31.2		?	15	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert layer 9HA:42) w./ ~15% wo. in veinlets <1-2mm wide in diff. orientations
31.2	31.4		W	90	0	px	0	0	cc	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~5% px.(diss.) c/c by 6 mm wide white, calcite vein. 4cm wide zone where wo. is coarse-grained(~1-2cm long Xls)
31.39	31.6		?	5	0	px	0	0	0	qz	0	0	0	0	0	0	0	Lt.grey and lt. green chert layer w./ ~5% px(diss.); c/c by <1-2mm wide wo. veinlets
31.57	31.9		W	80	0	0	0	0	0	qz	0	0	0	0	0	0	0	White- lt.green wo.(med.-grained) interlayered w./ 3 lt. grey chert layers ~1.5cm wide (HA:70)
31.86	32		V?	5	0	0	0	0	0	0	0	0	0	0	0	0	0	Lt. grey chert layer w/ ~10% wo. in veinlets <1-1mm wide. C/c by 1mm wide rusty carbonate vein(HA:75)
31.99	32.1		W	75	0	0	0	0	0	0	0	0	0	si	0	0	0	White fine-grained wo.;core is highly broken up. Broken surfaces are siderite vein surfaces(HA:79)
32.12	32.3		V?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert c/c by minor amounts of wo. veinlets <1-4 mm wide(HA:45)
32.29	32.4				0	0	0	0	0	qz	0	0	0	0	0	0	0	Pure lt. grey chert layer 4 cm wide(HA:31)
32.36	33.1				0	px	0	0	cc	qz	0	0	0	0	0	0	0	White fine-grained wo., 1% px. disseminated w./in wo. matrix;contains three 4 cm wide lt. grey chert layers; two chert layrs are c/c by <1-5mm wide wo. veinlets(HA:38)
33.06	34.1		X	10	gt	px	0	0	cc	0	0	0	0	0	0	0	0	Calc-silicate layer w./~50%gt, 40%px,10% wo.Gt:1-2mm wide euhedral grains w./lt.brn.cores + dk.brn. rims;gt in lt. brn. massive clumps 1.5x2cm wide.Px + wo. are interstitial btwn. gt grains.Px. occurs in massive green layers c/c by lt. + dk. calcite veins
33.54	36.6	93																

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
34.09	34.3		W	95	0	px	0	0	cc	0	0	0	0	0	0	0	0	White fine-grained wo. w./ ~2% diss. px c/c by dk.grey calcite vein(HA:70) 1mm wide
34.25	34.6		?	1	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert w./ minor amounts of <1mm wide wo. veins
34.55	35.2		V?	15	0	0	0	0	0	qz	fd	0	py	si	0	0	0	Lt. grey ch c/c by 5 wht. wo. veins 1-3cm wide(HA:50); ch. is c/c by <1-1mm wide white wo. veins(irreg. orientations).C/c by 2 syenite dykes(dk.grey-purple) w./ ~95%fine-grained k-spar ~5%pyrite(diss.). One wo. vein has core coarse wo. + envelope fine wo
35.23	35.4		W	25	gt	px	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert w./ ~25% wo. in network of veinlets <1-5mm wide ; and ~10% px. w./in patches (1x1cm) and in veinlets 1mm wide(HA:40). Locally, minor lt. brown gt in linear patch(1x2cm)
35.4	35.6		W	90	0	0	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ one 7mm wide lt.blue-grey marble layer(HA:24) and ~5% fragments of chert (~1x~1cm)
35.55	36.2		W	90	gt	px	0	0	0	qz	0	0	0	0	0	0	0	White-lt. green wo.(fine-grained) w./ ~10% px. diss.w./in wo. matrix parallel to (HA:40) w./ one 6m wid chert layer(HA:48). Trace amunts of lt.brown (andr.) gt dispersed w./in wo. matrix parallel to HA:40
36.2	36.3		W	99	0	0	0	0	0	0	0	0	0	0	0	0	0	White coarse wo. layer(6cm wide)(HA:28)
36.3	36.6		?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert moderately c/c by <1-3mmm wide white wo. veins
36.59	39.6	78																
36.59	36.9		W	65	0	0	0	0	0	qz	0	0	0	0	0	0	0	White-lt.green fine-grained wo. w./ two white coarse wo. layers 5-13mm wide(HA:48). One 1. cm wide lt. grey chert layer c/c by wo. microveinlets.
36.93	37.4		?	10	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. green-grey chert layer c/c by network of wo. veins(white) <1mm wide predominantly parallel to (HA:48). One wo. layer (white fine-grained wo.) 6 cm wide
37.43	37.8		W	30	gt	px	0	0	0	qz	fd	0	0	0	0	0	0	Lt. green-grey chert layer w./ three 7cm wide white fine-grained wo.(HA:52) layers. 3 7-25mm wide pxite dykes(HA:20) locally cored by k-spar and overgrown w./ 1-2mm long wo. XLs.One 1cm wide lt.br, gt layer(HA:58);1 irreg. patch lt. green calcite(1x4cm)
37.84	37.9		V?	5	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey-green chert layer w./ ~5% wo. in microveinlets
37.89	38		W	85	0	0	0	0	0	qz	0	0	0	0	0	0	0	White fine-grained wo. w./ fragments v.lt. grey chert
38.01	38.4		V?	10	0	0	0	0	0	qz	0	0	0	0	0	0	0	Lt. grey chert w./ ~ 10% wo. in white fine-grained wo. veins <1mm wide predominantly parallel to HA:40. One layer of coarse wo.(white) 4-5 mm wide (HA:40)
38.39	38.5		W	99	0	px	0	0	0	0	0	0	0	0	0	0	0	White coarse wo. layer(1-2 cm long XLs) ~1% px. diss.

Sheet1

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
38.45	38.6		V?	10	0	0	0	0	0	0	0	0	0	0	0	0	0	Lt. grey layer w./ ~10% wo. in white, <1mm wide veinlets predominantly parallel to HA:57
38.6	38.7		W	99	0	0	0	0	cc	0	0	0	0	0	0	0	0	Coarse wo. (XLs 1.3 cm long) white c/c by one 1mm wide lt. grey calcite veinlet(HA:05)
38.71	39.6		V?	10	0	0	0	0	0	qz	0	0	0	0	0	0	0	Core is highly broken up; lt. green-grey chert w./ ~10% white wo. veins <1mm wide
	EOH																	

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
BTNK - 96 - 17																		
0	4.57																	casing
4.57	6.1	42																
4.57	6.3		?	0	0	px	0	0	cc	0	0	0	0	0	0	0	0	Dk. green, clay altered oxide; core is in one piece but crumbles once it is picked up; contains abundant diss. calcite c/c by 3 rusty carbonate veins 2-5mm wide(HA:11)
6.1	9.15	66																
6.3	7.08		P?	0	0	px	0	0	0	0	0	0	0	0	0	0	0	Dk. green pxite w./ 5-6mm wide lt. green layers (different px. composition?)(HA:30). Contains one 8mm wide med. green limestone layer(HA:30)
7.08	7.21		C?	0?	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt. brown gt-bearing selvage of pxite described above w./ ~70%px., 20%gt., 10% marble. Gt: massive layer 3 cm wide (HA:50) and as 2-5mm wide lt. brown gt. grains in bands(3-10mm wide;HA:05)
7.21	7.25		C	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Lt. green calc-silicate w./ ~80% px.(diopside) and 20% gt. Gt is 2x3 mm grains dispersed w./in wo. matrix
7.25	7.27		?	0?	gt	0	0	0	0	0	0	0	0	0	0	0	0	White clay w./ minor carbonate(fault gauge?)(HA:20) and w./ ~10% lt. brown "spots" resembling andr. gt. grains
7.27	7.47		W	70	gt	px	0	0	0	0	0	0	0	0	0	0	0	White med.-grained wo.(Xls 3mm long) w./ ~20% gt, 2% px. Gt:2mm wide dk. brn. gt. grains(melanite) dirpersed w./in bands parallel to(HA:02).Px:green color of wo. suggests dispersed fine grains of px. Contains 2-3mm wide marble layers
7.47	7.65		W	30	0	0	0	0	0	0	0	0	0	0	0	0	0	Core is hightly broken up and consists of lithic fragments w./in a white clay matrix and also consisits of broken fragments of white fine-grained wo.
7.65	8.95		core loss															Core loss
8.95	9.15		C	0	gt	px	0	0	0	0	0	0	0	0	0	0	0	Med. green calc-silicate w./ ~90% px.(diopside), ~10% gt. Gt: lt. brn. gt(gross?) layers 1-1.5cm wide(HA:20). Px:massive
9.15	12.2	99																
9.15	9.45		W	50	gt	0	0	0	0	qz?	0	0	0	0	0	0	0	White fine-grained wo. w./ ~10% gt. Gt: <1-2m wide dk. brown gt. grains dispersed. parallel to HA:07. Interlayered w./ ~seven 2-5mm wide med. green marble layers parallel to HA:07. 5 cm wide lt. gren -cream cherty layer(HA:07)

Sheet1

FROM	TO	REC	Rock Type	wo	gt	px	ti	ep	cc	qz	fd	bt	py	si	rh	mt	ap	COMMENTS
9.45	9.78		C	0	gt	px	0	0	0	0	fd	0	0	0	0	0	0	Med. green calc-silicate layer ~80% px., 20% gt. Gt: dk. brown cores, lt. brn. rims, 2-6mm wide grains dispersed w./in px. matrix. C/c by one k-spar vein(HA:50) 1 cm wide
9.78	10.6		W	20	gt	0	0	0	cc	0	0	0	0	0	0	0	0	Med. green marble w./ 1-2mm wide layers of white fine-grained wo.(HA:15); (these layers very abundant); ~2% dk. brown gt. w./in wo. and w./in calcite matrix.

FROM	TO	Mineral/Rock										Ass. min.			Comments	
		W	G	C	X	S	B	T	Sz	Cz	C.A.	p	m	a		
BTNK - 96 - 17																
7	8	0	0	0	100	0	0	0	0	0	0	0	0	0	0	15' casing
8	9	0	0	0	100	0	0	0	0	0	0	0	0	0	0	
9	10	0	0	0	100	0	0	0	0	0	0	0	0	0	0	
10	11	40	0	0	0	0	0	0	0	0	0	0	p	m	a	Loss 50%
11	12	20	0	50	0	0	0	0	0	0	cz	0	0	m	a	40% some clay, kaolin.
12	13	10	0	60	0	0	b	0	0	0	0	0	0	m	a	40%, minor wo. layers, marble
13	14	30	0	0	0	0	0	t	0	0	0	0	tr	0	a	Chert c/c by wo. vein
14	15	80	0	0	10	10	0	0	0	0	0	0	p	0	0	Gross. veinlet
15	16	10	0	0	90	0	0	0	0	0	0	0	0	0	0	2% py. in xenolith. K-spar
16	17	20	0	0	70	0	0	t	0	0	0	0	0	0	0	Melasyenite
17	18	15	0	0	0	0	0	t	0	0	0	0	0	0	0	Syenite/k-spar dyke, heavy chert
18	19	10	0	0	0	0	0	t	0	0	0	0	p	0	0	Wo.?
19	20	15	0	0	0	0	0	t	0	0	0	0	p	0	0	
20	21	20	0	0	0	0	b	60	0	0	0	0	0	0	0	Marble bands
21	22	30	0	0	0	0	0	t	0	0	0	0	0	0	0	Vuggy calcite
22	23	15	0	0	0	0	20	t	0	0	0	0	0	0	0	Bands wo.
23	24	15	0	0	0	0	b	t	0	0	0	0	p	0	0	Grossular appears
24	25	60	0	0	0	0	0	t	0	0	0	0	0	0	0	
25	26	25	0	0	40	0	0	3	0	0	0	0	p	m	0	Trace px.
26	27	25	0	0	10	0	0	35	0	0	0	0	0	0	0	
27	28	20	0	0	0	0	b	30	0	0	0	0	0	0	0	
28	29	60	0	0	0	0	0	20	0	0	0	0	0	0	0	
29	30	45	0	0	0	0	b	t	0	0	0	0	p	0	a	Some gross.
30	31	40	0	0	0	0	10	0	0	0	0	0	0	m	0	
31	32	15	0	0	0	0	0	0	0	0	0	0	0	0	0	
32	33	15	0	0	0	0	0	0	0	0	0	0	0	0	0	K-spar vein. Px. c/c by epidote
33	34	20	80	0	0	0	0	0	0	0	0	0	0	0	a	Interstitial, wo.
34	35	45	0	0	0	0	b	t	0	0	60	0	0	0	0	
35	36	40	0	0	0	0	0	0	0	0	0	0	0	0	0	
36	37	35	0	0	0	0	b	t	0	0	0	0	p	0	0	Blocky, broken core
37	38	50	0	0	0	0	0	0	0	0	0	0	p	0	a	
38	39	70	0	0	0	0	0	0	0	0	0	0	0	0	0	
39	40	85	0	0	0	0	0	0	0	0	0	0	p	0	0	Some diopside
40	41	40	0	0	0	10	0	0	0	0	0	0	0	0	0	Melasyenite
41	42	0	0	0	0	95	0	0	0	0	0	0	0	0	0	Melasyenite, trace epidote, hem?
42	43	60	0	0	0	20	0	0	0	0	0	0	p	m	a	
43	44	35	0	10	0	0	0	0	0	0	0	0	p	0	0	K-spar dyke
44	45	0	0	0	0	s	0	0	0	0	0	0	0	0	0	Calc-silicate reaction rim
45	46	0	0	0	0	s	0	0	0	0	0	0	0	0	0	All melasyenite
46	47	40	0	15	0	10	0	0	0	0	0	0	0	0	0	Diopside, calc-silicate zone
47	48	40	0	0	0	0	0	0	0	0	0	0	0	0	0	

W=wollastonite; G=garnetite; C=calcsilicate; X=pyroxene; S=syenite; B=marble; T=chert; Sz=shear zone; Cz=iron oxidation; C.A.=core angle; p=pyroxene; m=melanite; a=andradite

FROM	TO	Mineral/Rock										Ass. min.			Comments	
		W	G	C	X	S	B	T	Sz	Cz	C.A.	p	m	a		
48	49	30	0	0	0	65	0	0	0	0	0	0	0	0	0	Syenite dyke
49	50	10	0	0	0	90	0	0	0	0	0	0	0	0	0	Some sec. calcite
50	51	70	0	0	0	0	10	10	0	0	0	p	0	0		
51	52	60	0	0	0	10	20	tr	0	0	0	0	0	0	0	10 cm syenite dyke
52	53	85	0	0	0	0	0	t	0	0	0	p	0	0		
53	54	70	0	0	0	0	0	30	0	0	0	p	0	0		
54	55	45	0	0	0	0	0	20	0	0	0	0	0	0	0	
55	56	90	0	0	0	0	0	5	0	0	0	0	m	0		
56	57	70	0	0	0	0	0	0	0	0	0	p	0	a		
57	58	80	0	20	0	0	0	0	0	0	0	0	0	0	0	Diopside,cc?
58	59	85	0	0	0	0	0	t	0	0	0	p	0	0		
59	60	15	0	c	0	0	0	0	0	0	0	0	0	0	0	V.lt.green calc-silicate
60	61	35	0	0	0	60	0	0	0	0	0	p	0	0	0	Melasyenite
61	62	45	0	0	0	50	0	0	0	0	0	p	0	a		
62	63	90	0	0	0	0	0	0	0	0	0	p	0	a		
63	64	30	0	0	0	70	0	0	0	0	0	p	0	a		Melasyenite
64	65	65	0	0	0	0	b	t	0	0	0	0	0	a		
65	66	85	0	0	x	0	0	0	0	0	0	p	m	0	0	Porous carbonate zone
66	67	5	0	c	0	60	0	0	0	0	0	p	m	0		
67	68	10	0	0	x	0	0	0	0	0	0	p	m	a		Porous carbonate zone;epidote;crumbly pink wo.
68	69	65	0	0	x	0	0	0	0	0	0	p	m	a		Epidote
69	70	75	0	0	0	0	0	0	0	0	0	p	0	a		
70	71	70	0	0	0	0	0	0	0	0	0	p	0	a		
71	72	75	0	0	0	0	0	0	0	0	0	5	0	0		Gt. 10%,Px 5%
72	73	70	0	0	0	0	0	0	0	0	0	p	0	a		
73	74	70	0	0	0	0	0	0	0	0	0	p	0	a		Broken section - partial
74	75	50	0	0	10	0	0	0	0	0	0	p	0	a		Pyrite - diss., epidote veins
75	76	50	0	0	30	0	0	0	0	0	0	p	0	a		
76	77	0	0	0	100	0	0	0	0	0	0	0	0	0	0	Grossular?, epidote, pyrite, Fe-oxide
77	78	0	50	0	50	0	0	0	0	0	0	0	0	0	0	Epidote in both fractures
78	79	0	0	0	x	0	0	0	0	0	0	p	0	a		Epidote along fr.
79	80	20	0	c	x	0	0	0	0	0	0	p	0	a		Epidote
80	81	0	0	60	x	0	b	0	0	0	0	p	0	a		Calcareous schist
81	82	0	0	0	0	0	100	0	0	0	0	0	0	0	0	Pyrite - in stringers
82	83	0	0	0	0	0	100	0	0	0	0	0	m	0		
83	84	0	0	0	x	0	100	0	0	0	0	0	0	0	0	Pyroxenite dyke/ diss. pyrite
84	85	0	0	0	0	0	100	0	0	0	0	0	0	0	0	
85	86	0	0	0	0	0	100	0	0	0	0	0	0	0	0	Fe stain
86	87	0	0	0	0	0	100	0	0	0	0	0	0	0	0	Fr. - dk.grey;minor pyrite
87	88	0	0	0	0	0	100	0	0	0	0	0	0	0	0	Minor pyrite
88	89	0	0	0	0	0	100	0	0	0	0	p	0	0	0	Minor gross.gt, minor pyrite
89	90	0	0	0	0	0	100	0	0	0	0	0	0	0	0	

W=wollastonite; G=garnetite; C=calcsilicate; X=pyroxene; S=syenite; B=marble; T=chert; Sz=shear zone; Cz=iron oxidation; C.A.=core angle; p=pyroxene; m=melanite; a=andradite

FROM	TO	Mineral/Rock										Ass. min.			Comments		
		W	G	C	X	S	B	T	Sz	Cz	C.A.	p	m	a			
90	91	0	0	0	20	0	100	0	0	0	0	0	0	0	0	0	Hematite - all marble is lt.grey
91	92	0	0	0	0	0	80	0	0	0	0	0	0	0	0	0	
92	93	0	0	0	0	0	100	0	0	0	0	p	0	0	0	0	Pyrite - diss.
93	94	0	0	0	0	0	100	0	sz	0	0	0	0	0	0	0	
94	95	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
95	96	0	0	0	0	0	100	0	0	0	0	p	0	0	0	0	Marble - almost white
96	97	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	Marble - almost white
97	98	0	0	0	0	0	100	0	sz	0	0	p	0	0	0	0	Greasy green shear zone - talc?
98	99	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	Marble - lt.grey
99	100	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
100	101	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
101	102	0	0	0	0	0	100	0	0	0	0	0	m	0	0	0	
102	103	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
103	104	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	Marble - med.grey layers in white
104	105	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
105	106	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	Fe-stain
106	107	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
107	108	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
108	109	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	
	EOH																

W=wollastonite; G=garnetite; C=calcsilicate; X=pyroxene; S=syenite; B=marble; T=chert; Sz=shear zone; Cz=iron oxidation; C.A.=core angle; p=pyroxene; m=melanite; a=andradite

FROM	TO	Mineral/Rock										Ass. min.			Comments
		W	G	C	X	S	B	T	Sz	Cz	C.A.	p	m	a	
BTNK -96 - 18															
3.57	4.57	15	0	c	0	0	0	0	0	0	80	p	m	0	
4.57	6.57	30	0	c	0	0	0	t	0	0	0	p	0	0	
6.57	7.57	15	0	c	0	0	0	0	0	0	75	0	0	0	Rhodoch.
7.57	8.57	40	0	c	0	0	0	t	0	0	0	p	m	0	
8.57	9.57	25	0	c	0	0	0	20	0	0	0	p	m	0	Diopside?
9.57	10.57	55	0	5	0	0	0	tr	0	0	0	0	m	0	
10.57	11.57	45	0	c	0	0	0	0	0	0	0	0	0	0	
11.57	12.57	85	0	c	0	0	0	t	0	0	0	p	0	0	Bands wo.
12.57	13.57	80	0	c	0	0	0	0	0	0	0	0	0	0	
13.57	14.57	75	0	15	0	0	0	tr	0	0	0	p	0	0	
14.57	15.57	60	0	0	0	0	0	tr	0	0	0	p	m	0	
15.57	16.57	40	0	c	0	0	0	0	0	0	0	0	0	0	Bands wo.
16.57	17.57	75	0	c	0	0	0	0	0	0	0	p	0	0	
17.57	18.57	60	0	c	0	0	0	tr	0	0	0	p	0	0	
18.57	19.57	55	0	0	0	0	0	0	0	0	45	0	m	0	
19.57	20.57	30	0	0	0	0	0	0	0	0	0	p	0	0	
20.57	21.57	40	10	c	0	0	0	0	0	0	0	p	m	a	
21.57	22.57	55	20	c	0	0	0	0	0	0	0	p	0	a	
22.57	23.57	85	0	0	0	0	0	0	0	0	0	p	m	0	
23.57	24.57	80	0	0	0	0	0	0	0	0	0	0	0	0	
24.57	25.57	95	0	0	0	0	0	0	0	0	0	0	0	0	
25.57	26.57	90	0	0	0	0	0	0	0	0	0	p	0	0	
26.57	27.57	65	20	0	0	0	0	0	0	0	0	0	0	0	
27.57	28.57	70	0	10	0	0	b	0	0	0	0	0	0	0	
28.57	29.57	65	0	10	0	0	0	0	0	0	0	p	0	0	
29.57	30.57	60	0	20	0	0	0	0	0	0	50	p	0	0	Bands
30.57	31.57	50	g	c	0	0	0	0	0	0	15	p	0	a	
31.57	32.57	0	g	0	0	0	0	0	0	0	0	p	0	a	
32.57	33.57	20	10	c	0	0	0	t	0	0	50	p	0	a	
33.57	34.57	35	0	40	0	0	0	t	0	0	0	p	m	a	
34.57	35.57	25	0	0	0	0	0	0	0	0	60	p	0	a	
35.57	36.57	45	10	30	0	0	0	0	0	0	0	p	m	a	
36.57	37.57	35	0	0	0	0	0	0	0	0	0	p	0	0	
37.57	38.57	40	0	40	0	0	0	10	0	0	0	0	0	0	
38.57	39.57	75	0	0	0	0	0	0	0	0	0	p	0	0	
39.57	40.57	70	0	0	0	0	0	0	0	0	0	p	0	a	Cs layer
40.57	41.57	50	0	c	0	0	0	0	0	0	0	p	0	0	
41.57	42.57	85	0	15	0	0	0	0	0	0	0	p	0	0	
42.57	43.57	45	0	c	0	0	0	t	0	0	0	p	0	0	
43.57	44.57	75	0	c	0	0	0	0	0	0	0	p	0	0	
44.57	45.57	10	15	c	0	0	0	0	0	0	0	0	0	0	

W=wollastonite; G=garnetite; C=calcisilicate; X=pyroxene; S=syenite; B=marble; T=chert; Sz=shear zone; Cz=iron oxidation; C.A.=core angle; p=pyroxene; m=melanite; a=andradite

FROM	TO	Mineral/Rock										Ass. min.			Comments
		W	G	C	X	S	B	T	Sz	Cz	C.A.	p	m	a	
45.57	46.57	0	0	0	0	50	50	0	0	0	75	p	0	a	
46.57	47.57	0	g	0	0	0	0	0	0	0	70	0	m	0	
47.57	48.57	90	0	0	0	0	0	0	0	0	0	0	0	0	
48.57	49.57	10	g	0	0	0	0	0	0	0	0	p	0	a	
49.57	50.57	10	g	c	0	0	0	0	0	0	0	p	0	0	
50.57	51.57	5	g	0	0	0	0	0	0	0	0	p	0	a	
51.57	52.57	5	g	0	0	0	0	0	0	0	0	0	0	0	
52.57	53.57	tr	g	0	0	0	0	0	0	0	0	0	0	0	
53.57	54.57	tr	g	0	0	0	0	0	0	0	0	0	0	0	
54.57	55.57	tr	g	c	0	0	0	0	0	0	0	p	0	a	
55.57	56.57	10	g	0	0	0	0	0	0	0	0	0	0	0	
56.57	57.57	tr	0	c	x	0	0	0	0	0	0	0	0	0	Gross.
57.57	58.57	0	g	0	0	0	0	0	0	0	0	p	0	0	
58.57	59.57	0	g	0	0	0	0	0	0	0	0	0	0	0	
59.57	60.57	0	g	0	0	0	0	0	0	0	0	0	0	0	
60.57	61.57	0	g	c	0	0	0	0	0	0	0	p	0	0	
61.57	62.57	0	g	c	0	0	0	0	0	0	0	0	0	0	
62.57	63.57	0	0	c	0	0	0	0	0	0	0	0	0	0	
63.57	64.57	0	0	c	0	0	0	0	0	0	0	0	0	0	
64.57	65.57	0	0	c	0	0	0	0	0	0	0	0	0	0	Gross?
65.57	66.57	0	0	c	0	0	0	0	0	0	0	0	0	0	
66.57	67.57	0	g	0	0	0	0	0	0	0	0	0	0	0	
67.57	68.57	0	g	0	0	0	0	0	0	0	0	0	0	0	
68.57	69.57	5	g	0	0	0	0	0	0	0	0	0	0	0	
69.57	70.57	80	0	0	0	0	0	0	0	0	70	0	0	a	
70.57	71.57	75	0	10	0	0	0	0	0	0	0	0	0	a	
71.57	72.57	40	0	0	25	0	5	0	0	0	0	0	0	0	Brown gross?
72.57	73.57	35	g	c	0	0	0	0	0	0	0	0	0	0	
73.57	74.57	70	0	c	0	0	0	0	0	0	0	0	0	30	
74.57	75.57	10	0	c	0	0	0	0	0	0	0	0	0	0	Epidote
75.57	76.57	5	0	c	0	0	0	0	0	0	0	0	0	0	
76.57	77.57	40	0	c	0	0	b	t	0	0	0	0	0	0	
77.57	78.57	65	0	c	0	0	b	t	0	0	0	0	0	0	Bands wo.
78.57	79.57	50	0	15	0	0	b	t	0	0	0	0	0	0	
79.57	80.57	40	0	c	0	0	b	0	0	0	0	0	0	0	Gross.
80.57	81.57	20	0	0	0	0	0	0	0	0	70?	0	0	0	Wo. bands
81.57	82.57	20	0	c	0	0	0	0	0	0	0	0	0	0	
82.57	83.57	10	0	c	0	0	b	t	0	0	0	0	0	a	
83.57	84.57	20	0	0	0	0	b	t	0	0	0	0	0	a	Gross.
84.57	85.57	35	0	0	0	0	b	t	0	0	0	0	0	0	Sporadic gt.
85.57	86.57	30	0	c	0	0	0	0	0	0	0	0	0	0	
86.57	87.57	20	0	c	0	0	0	t	0	0	0	0	0	0	

W=wollastonite; G=garnetite; C=calcisilicate; X=pyroxene; S=syenite; B=marble; T=chert; Sz=shear zone; Cz=iron oxidation; C.A.=core angle; p=pyroxene; m=melanite; a=andradite

FROM	TO	Mineral/Rock										Ass. min.			Comments		
		W	G	C	X	S	B	T	Sz	Cz	C.A.	p	m	a			
87.57	88.57	30	0	0	0	0	0	t	0	0	0	0	0	0	0	0	Wo. band
88.57	89.57	36	0	c	0	0	b	t	0	0	0	0	0	0	0	0	
89.57	90.57	25	0	0	0	0	b	t	0	0	0	0	0	0	0	0	
90.57	91.57	60	0	0	0	0	b	t	0	0	0	0	0	0	0	0	
91.57	92.57	75	0	0	0	0	b	t	0	0	0	0	0	0	0	0	
92.57	93.57	75	0	c	0	0	b	t	0	0	60	0	0	0	0	a	
93.57	94.57	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
94.57	95.57	46	0	0	0	0	0	0	0	0	25	0	0	0	0	0	
95.57	96.57	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
96.57	97.57	15	0	0	0	0	b	t	0	0	0	0	0	0	0	0	Diopside
97.57	98.57	45	0	0	0	0	b	t	0	0	0	0	0	0	0	0	
98.57	99.57	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Stringers wo?
99.57	100.57	?	0	0	0	0	b	t	0	0	0	0	0	0	0	0	
100.57	101.57	30	0	c	0	0	b	0	0	0	0	0	0	0	0	0	
101.57	102.57	70	0	c	0	0	0	0	0	0	0	0	0	0	0	0	
102.57	103.57	40	0	0	0	0	b	0	0	0	40	0	0	0	0	0	Broken core
103.57	104.57	5	0	0	0	0	b	0	0	0	0	0	0	0	0	0	Broken core
104.57	105.57	5	0	0	0	0	b	0	0	0	0	0	0	0	0	0	
105.57	106.57	0	0	0	0	0	b	0	0	0	0	0	0	0	0	0	
106.57	107.57	0	0	0	0	0	b	0	0	0	0	0	0	0	0	0	
107.57	108.57	0	0	0	0	0	b	0	0	0	0	0	0	0	0	0	Px. +/- melanite.
108.57	109.57	0	0	0	0	0	b	0	0	0	0	0	0	0	0	0	
109.57	110.57	0	0	0	0	0	b	0	0	0	0	0	0	0	0	0	
	EOH																

W=wollastonite; G=garnetite; C=calcisilicate; X=pyroxene; S=syenite; B=marble; T=chert; Sz=shear zone; Cz=iron oxidation; C.A.=core angle; p=pyroxene; m=melanite; a=andradite

ISK1 CONTROL TRAVERSE

Table with 3 columns: From, To, Distance. Includes points TH7 to TH10 and TH11 to TH14.

ISK1 RADIAL TIES

Table with 3 columns: From, To, Distance. Includes points TH7 to TH17 and TH18 to TH21.

ISK2 CONTROL TRAVERSE

Table with 3 columns: From, To, Distance. Includes points TH46 to TH53 and TH54 to TH57.

ISK2 RADIAL TIES

Table with 3 columns: From, To, Distance. Includes points TH46 to TH58 and TH59 to TH62.

ISK3 CONTROL TRAVERSE

Table with 3 columns: From, To, Distance. Includes points TH17 to TH24 and TH25 to TH32.

ISK3 RADIAL TIES

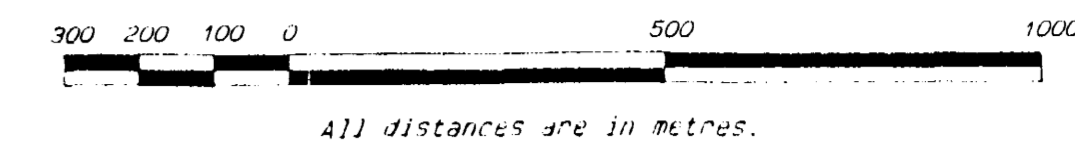
Table with 3 columns: From, To, Distance. Includes points TH17 to TH28 and TH29 to TH35.

SURVEY PLAN OF DISTRICT LOTS 7188, 7189, 7190, 7191, 7192 & 7193 BEING ISK 1, ISK 3, ISK 2, ISK 4, GRIZZLY & TERR 97 MINERAL CLAIMS CASSIAR DISTRICT, LIARD MINING DIVISION

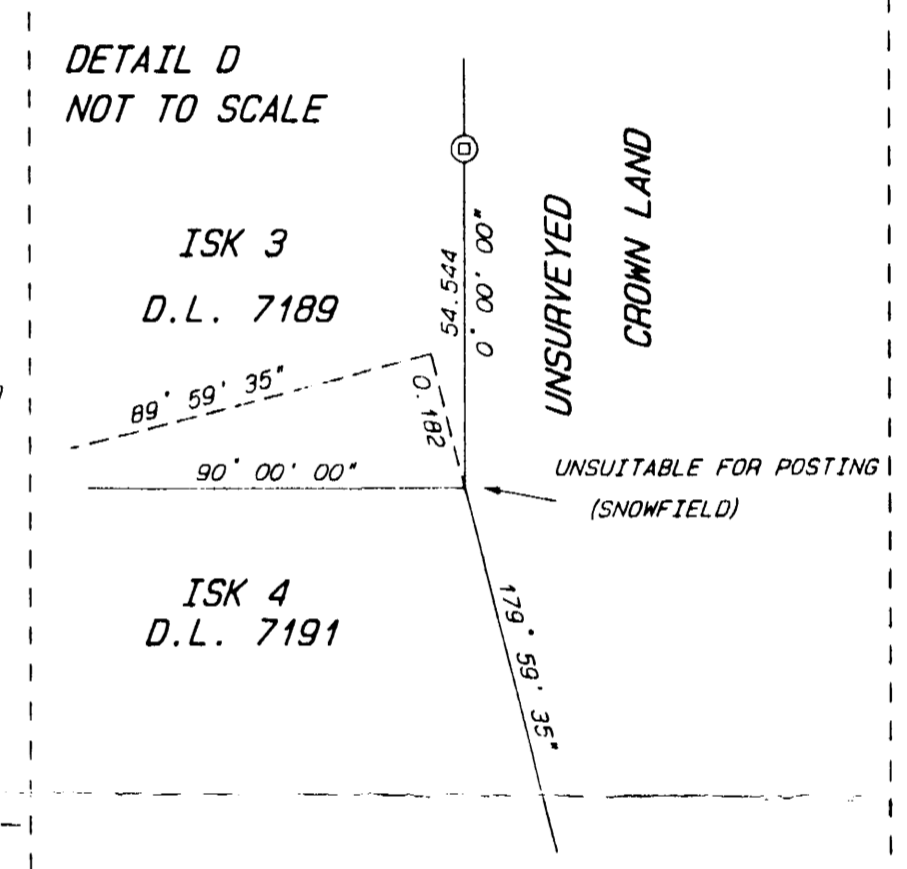
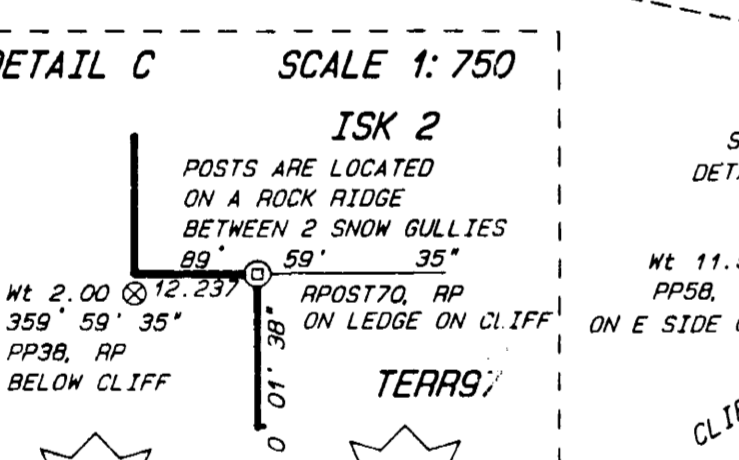
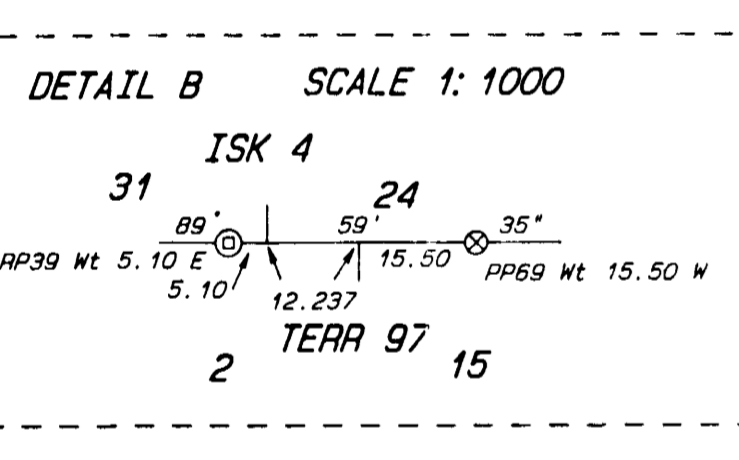
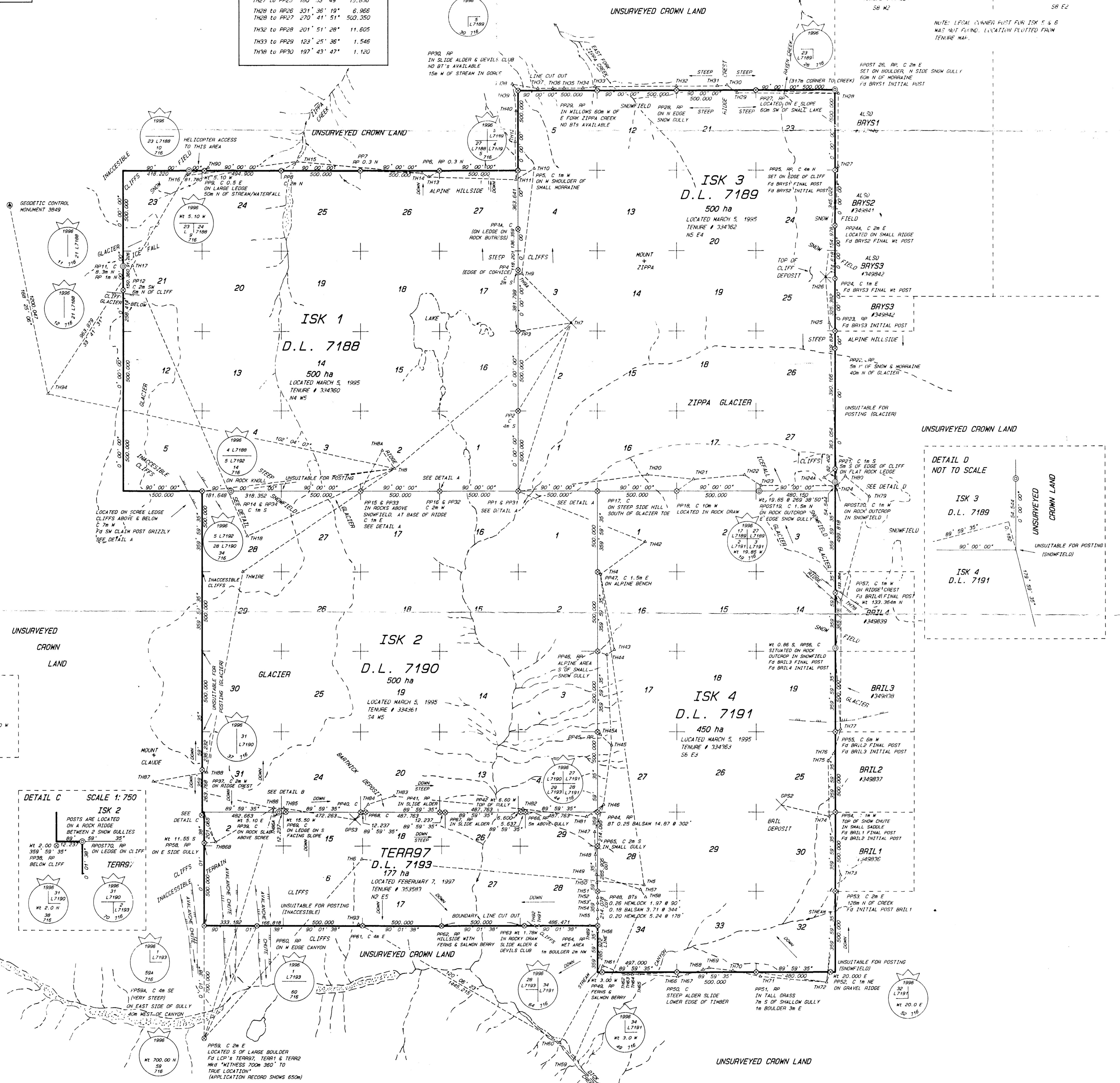
B.C.G.S. 104 B.064

THIS PLAN LIES WITHIN THE KIAMAT STIKINE REGIONAL DISTRICT

SCALE: 1:10,000



ALL DISTANCES ARE IN METRES.



ISK4 CONTROL TRAVERSE table with 3 columns: From, To, Distance. Includes points TH4 to TH12 and TH13 to TH16.

ISK4 RADIAL TIES

Table with 3 columns: From, To, Distance. Includes points TH4 to TH8 and TH9 to TH12.

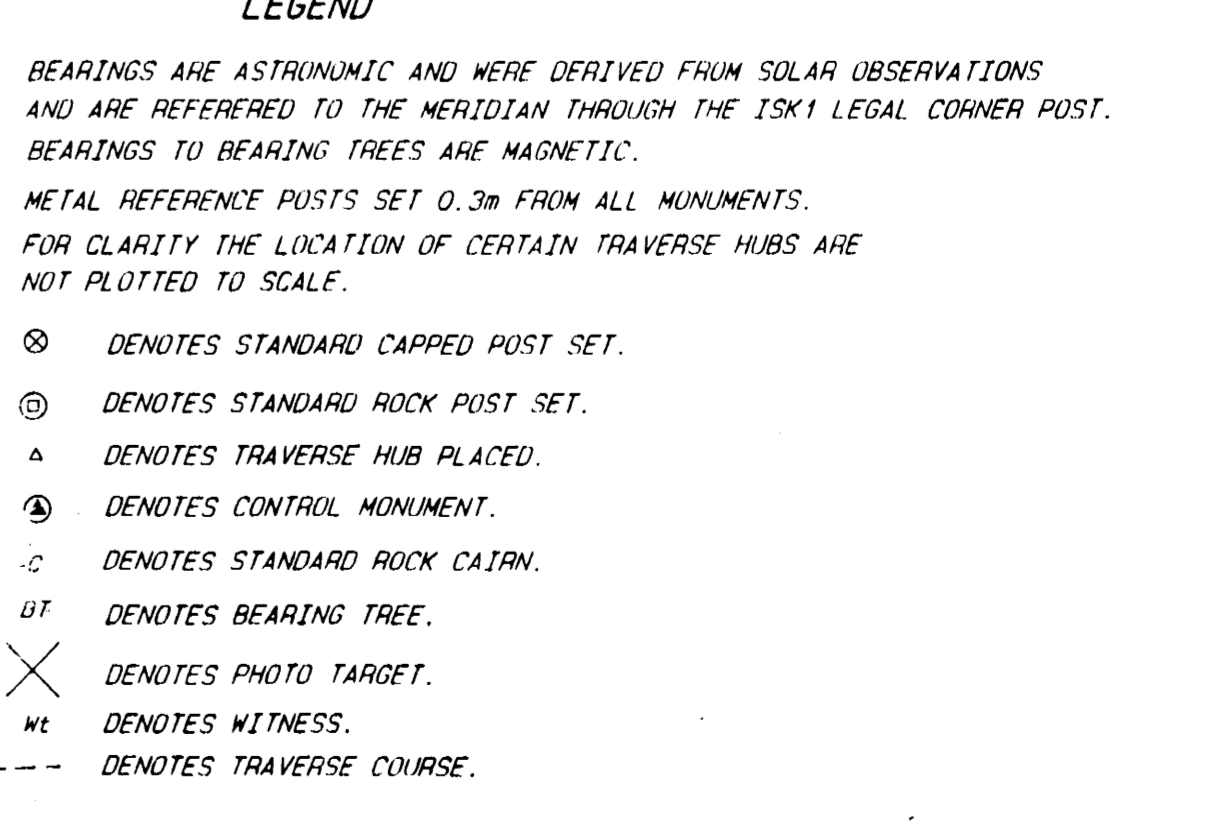
GRIZZLY RADIAL TIES table with 3 columns: From, To, Distance. Includes points PP1 to PP4 and TH to TH4.

TERR 97 CONTROL TRAVERSES table with 3 columns: From, To, Distance. Includes points TH4 to TH8 and TH9 to TH12.

TERR 97 RADIAL TIES

Table with 3 columns: From, To, Distance. Includes points TH4 to TH8 and TH9 to TH12.

UTM NAD83 COORDINATES PHOTO TARGET CONTROL POINTS table with 4 columns: NAME, DESCRIPTION, NORTHING, EASTING, ELEVATION.



BEARINGS ARE ASTROMETRIC AND WERE DERIVED FROM SOLAR OBSERVATIONS AND ARE REFERRED TO THE MERIDIAN THROUGH THE ISK1 LEGAL CONTROL POST...

I, IAN M. LLOYD, A BRITISH COLUMBIA LAND SURVEYOR, OF THE CITY OF PENICHTON, IN BRITISH COLUMBIA, CERTIFY THAT I WAS PRESENT AT AND PERSONALLY SUPERINTENDED THE SURVEY REPRESENTED BY THIS PLAN...

GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORT

PRELIMINARY

24,931