

Drilling Report on the
Gaza 1 and Jericho 1, 2, 3 and 5 Mineral Claims
(Record Numbers 159, 492, 161, 45 and 47).
Highland Valley, Kamloops Mining Division,
Latitude 50° 26'N; Longitude 120° 55'W; NTS 92I/7W

Owned By

Gaza Mines Ltd. and New Jericho Development Corporation

Work Paid For By

Highmont Operating Corporation

A. J. Reed, P. Eng.
January 10, 1980

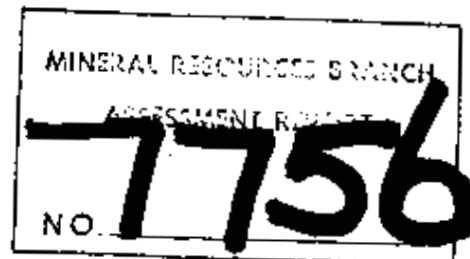


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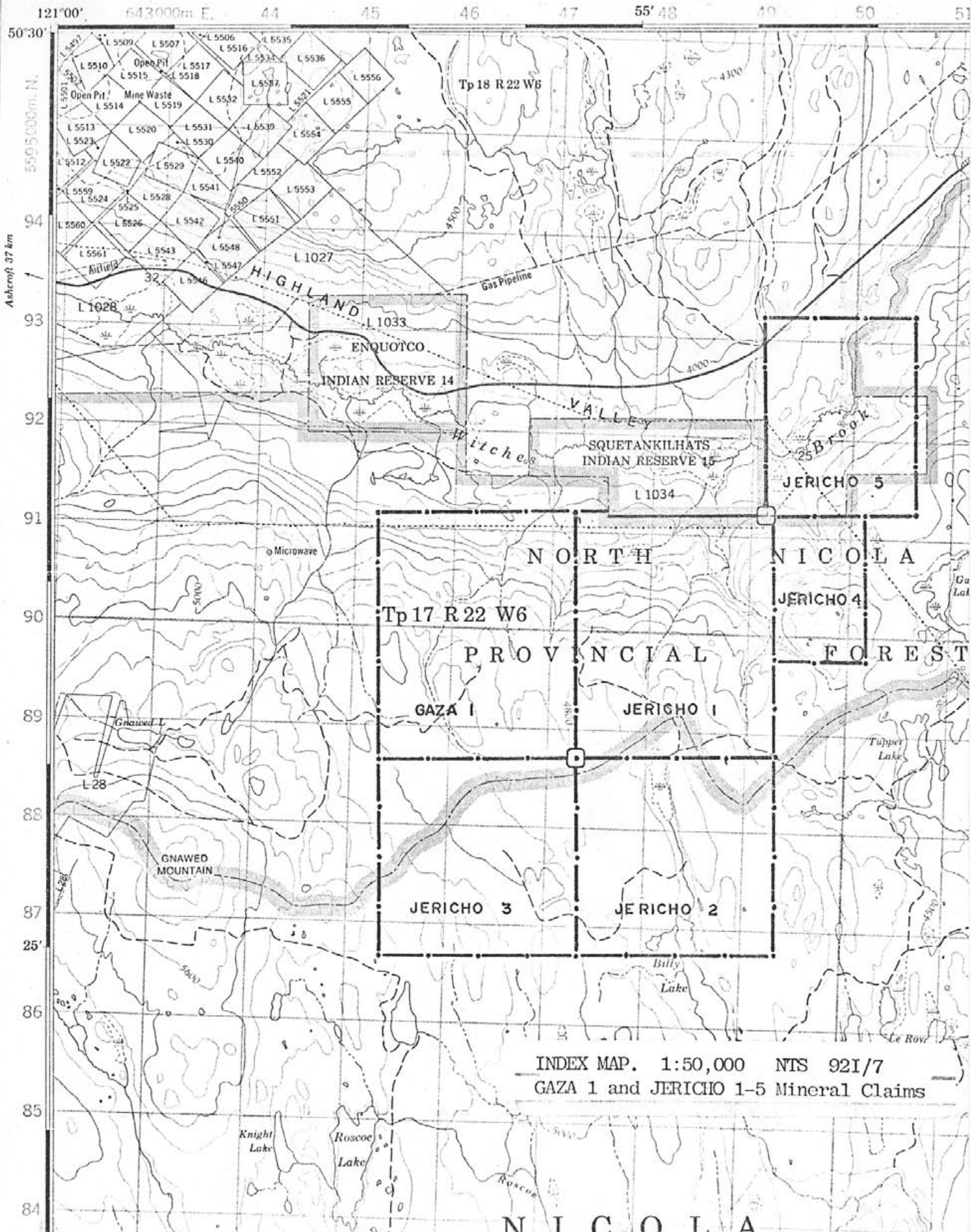
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	-In Pocket
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	-In Pocket

Introduction

The Gaza and Jericho mineral claims are located in the eastern part of the Highland Valley at elevations from 1150 to 1585 metres above sea level. Access to the claims is by the Ashcroft to Logan Lake paved highway which crosses the northwest corner of the Jericho 5 mineral claim approximately 7 Km west of Logan Lake (see index map). The Gaza 1 mineral claim was located by A. J. Reed, agent for Gaza Mines Ltd. on December 12th, 1975. The Jericho 1 mineral claim was located by A. J. Reed, agent for New Jericho Development Corporation on September 8th, 1976. The Jericho 2 mineral claim was located by A. J. Reed, agent for New Jericho Development Corporation on December 12th, 1975. The Jericho 3 and 5 mineral claims were located by A. J. Reed, agent for New Jericho Development Corporation on June 5th, 1975. A small bornite-chalcopyrite orebody on the Jericho 1 mineral claim has been explored by percussion drilling, diamond drilling and by two adits indicating reserves of approximately 75,000 tonnes at an average grade of 1.17% copper. During the period July 1st, 1979 to December 7th, 1979, Highmont Operating Corporation paid for the following exploration and development work to be done:

- 1) Legal survey by McElhanney Engineering and Surveying Ltd. of the Jericho 1 to 3, Gaza 1, Don Fr., Mickey Fr., Stevie Fr., and Colin Fr. mineral claims.
- 2) 122 metres of NQ diamond drilling and 13 metres of rotary percussion drilling on the Gaza 1 mineral claim.
- 3) 382 metres of NQ diamond drilling and 149 metres of rotary percussion drilling on the Jericho 1 to 3 mineral claims.
- 4) 134 metres of 20 cm diameter rotary drilling and 174 metres of 60 cm diameter churn drilling on the Jericho 5 mineral claim.



INDEX MAP. 1:50,000 NTS 92I/7
 GAZA 1 and JERICHIO 1-5 Mineral Claims

N I C O L A

Diamond Drilling

The diamond drill program was designed to test an area on the Jericho 1 mineral claim where a small intersection of copper-molybdenum mineralization was obtained in 1971 in diamond drill hole J-71-5, and also to explore for possible mineralization on the Jericho 2 and the Gaza 1 mineral claims beneath the proposed site of the Highmont tailing dam. Three holes were drilled on the Jericho 1 mineral claim (see Figure 1) and one of these holes (J-79-11) intersected a quartz-bornite-chalcocite-molybdenite stringer zone from 120.40 to 124.97 metres with an average grade of 1.76% copper (estimated true thickness 3.50 metres). The holes drilled on the Jericho 2 and Gaza 1 claims did not intersect any significant mineralization. The core from these five diamond drill holes is stored at the Highmont minesite. The logs of these diamond drill holes are presented in Appendix A, and the assays are shown in Appendix B.

Rotary Percussion Drilling

162 metres of 20 cm diameter vertical holes were drilled on the Gaza 1 and Jericho 1, 2 and 3 mineral claims to test the thickness of overburden and the character of the bedrock along the perimeter of the proposed Highmont tailing pond. No significant mineralization was found by this program. The logs of these holes (numbered 2001 - 2012) are given in Appendix C.

Rotary and Churn Drilling

One 20 cm diameter rotary hole and two 60 cm churn drill holes were drilled on the Jericho 5 mineral claim to investigate overburden and groundwater conditions at the eastern end of the Highland Valley (see Figure 2). The thick accumulation of glacial and fluvio-glacial deposits together with the heavy water flows encountered make the possibility of economical open pit mining extremely remote. This area is likely to prove a valuable source of groundwater. The logs of these holes are given in Appendix D.

Statement of Core Logger's Qualifications

I, Louis Tsang, of the City of Kamloops, British Columbia, do hereby certify that:

1. I am a member of the Geological Association of Canada.
2. I am a graduate of the University of British Columbia with a B. Sc. degree (1972) in geology and geophysics.
3. I have practiced my profession since 1972 while employed by Bacon & Crowhurst Consulting Engineering Ltd. (one summer season), and by Zapata-Granby Corporation, Granisle Division (seven years).
4. Presently, I am employed by Highmont Operating Corporation Ltd., Post Office Box 610, Logan Lake, B.C.
5. I have examined and logged all the core from diamond drill hole #J-79-10 through to #J-79-15 at the Highmont Site.



Louis H. C. Tsang
Mine Geologist of
Highmont Operating Corporation

Statement of Costs

1. WAGES FOR HIGHMONT EMPLOYEES:

- (a) Tsang, Louis H. C.
Apt. 210
Laurel Manor
1680 Tranquille Road
Kamloops, B.C. V2B 3L4
Mine Geologist: \$100.00/day (Sept. 17 - Dec. 7)
10 days - total cost: \$1,000.00
- (b) Porter, Merlin
Post Office Box 144
Savonna, B.C. VOK 2J0
Drilling Supervisor: \$70.00/day (Sept. 10 - Oct. 7)
10 days - total cost: \$700.00
- (c) Sibbald, Scott
Post Office Box 951
Fraser Lake, B.C.
Helper for Core Splitting: \$58.00/day (Sept. 17 - Oct. 31)
6 days - total cost: \$348.00
- (d) Hill, Steve
General Delivery
Logan Lake, B.C. VOK 1W0
Helper for Core Splitting: \$58.00/day (Nov. 2 - Dec. 7)
6 days - total cost: \$348.00

2. FOOD AND ACCOMMODATION FOR HELPER, CONNORS' FOREMAN AND DRILLERS:

Sibbald, Scott: \$14.00/day (Sept. 17 - Oct. 31)
8 days - total cost: \$112.00

Porter, Merlin: \$14.00/day (Sept. 10 - Dec. 7)
10 days - total cost: \$140.00

CONNORS' DRILLERS

Olson, Stan: \$14.00/day (Oct. 1 - Nov. 30) - 57 days
Griffiths, Don: \$14.00/day (Oct. 22 - Nov. 15) - 25 days
Laplante, Bob: \$14.00/day (Oct. 1 - Oct. 15) - 12 days
Varema, Steve: \$14.00/day (Oct. 7 - Oct. 8) - 2 days
Clarke, M.: \$14.00/day (Nov. 7) - 1 day
Connors' Drillers: 97 days - total cost: \$1,358.00

Cont'd

Statement of Costs - cont'd

3. TRANSPORTATION:

Tsang, Louis: Daily travelling to and from Kamloops and
Highmont property: \$12.00/day for 10 days.

Total cost: \$120.00

Geologist's truck used within the property: \$12.00/day

10 days - total cost: \$120.00

Drilling Supervisor's truck used: \$12.00/day

10 days - total cost: \$120.00

4. SURVEYING COST FOR DRILL HOLES:

(a) Nickerson, Gordon
48 Edward Street
Kamloops, B.C. V2B 4G1
Chief Surveyor: \$8.95/hr.
18 hours - total cost:

\$161.10

(b) Kirkpatrick, Greg
2911 Bank Road
Kamloops, B.C. V2B 6Y6
Surveyor: \$8.42/hr.
34.5 hours - total cost:

\$290.49

(c) White, Walter
1085 Fraser Street
Kamloops, B.C. V2C 3H8
Surveyor's Helper: \$7.80/hr.
34.5 hours - total cost:

\$269.10

5. ANALYSIS COST

Afton Laboratory: 160 of 10-foot core samples @ \$8.51/sample

Total Cost: \$1,361.60

6. DRILL SITE PREPARATION

By the Cat Unit of Pooley Construction Co. Ltd. at a total cost -

\$2,630.81

Cont'd

Statement of Costs - cont'd

7. DIAMOND DRILLING CONTRACT COSTS:

Connors Drilling
205 - 1201 West Pender
Vancouver, B.C.
502.92 metres of NQWL diamond drilling - total cost: \$32,894.04

8. ROTARY PERCUSSION DRILLING CONTRACT COSTS:

(a) A & H Drillers Ltd.
1681 Salton Road
P.O. Box 38
Abbotsford, B.C.
162 metres of drilling - total cost: \$10,650.00

(b) Klohn Leonoff Consultants
10180 Shellbridge Way
Richmond, B.C.
Logging and supervision of drilling program \$ 1,200.00

Total Cost: \$11,850.00

9. ROTARY & CHURN DRILLING CONTRACT COSTS:

(a) A. C. Drillers
K.R. 1
Keremcos, B.C.
174 m of 60 cm diameter churn drill hole-total cost: \$77,149.00

(b) Norwest Water Well Drilling Ltd.
23191 Fraser Highway
Langley, B.C.
134 m of 20 cm diameter rotary
drill hole - total cost: \$31,484.00

(c) Brown, Erdman & Associates Ltd.
1401 Bewicke Avenue
North Vancouver, B.C.
Logging and supervision of drilling program \$ 8,000.00

Total Cost: \$96,633.00

10. Preparation of Report - total cost: \$ 1,100.00

Apportionment of Cost

1. TO JERICHO 1 AND 3:

(a)	336/504 of DDH costs (item 7)	\$21,930
(b)	336/504 of DDH direct costs (items 1, 2, 3, 5)	3,820
(c)	1/3 of surveying and site preparation costs (items 4,6)	1,117
(d)	30/162 of rotary percussion drilling cost (item 8)	2,195
(e)	1/4 cost of report preparation	<u>225</u>
	Total Cost:	<u>\$29,287</u>

2. TO JERICHO 2:

(a)	46/504 of DDH costs (item 7)	\$ 3,002
(b)	46/504 of DDH direct costs (items 1, 2, 3, 5)	523
(c)	1/3 of surveying and site preparation costs (items 4,6)	1,117
(d)	119/162 of rotary percussion drilling costs (item 8)	8,705
(e)	1/4 cost of report preparation	<u>225</u>
	Total Cost:	<u>\$13,572</u>

3. TO JERICHO 5:

(a)	Rotary and churn drilling costs (item 9)	\$96,633
(b)	1/4 cost of report preparation	<u>225</u>
	Total Cost:	<u>\$96,858</u>

4. TO GAZA 1:

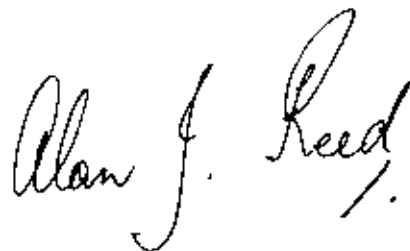
(a)	122/504 of DDH costs (item 7)	\$ 7,963
(b)	122/504 of DDH direct costs (items 1, 2, 3, 5)	1,387
(c)	1/3 of surveying and site preparation costs (item 4,6)	1,117
(d)	13/162 of rotary percussion drilling costs (item 8)	951
(e)	1/4 cost of report preparation	<u>225</u>
	Total Cost:	<u>\$11,643</u>

1-100 151 360.00
Log... 45 600.00
300... 196, 960.00

Author's Certificate

I, Alan James Reed of Kamloops, British Columbia, do hereby certify that:

1. I am a Geologist employed by Afton Mines Ltd. of 1199 West Hastings Street, Vancouver, B.C.
2. I am a Professional Engineer registered in the Province of British Columbia and the Province of Ontario.
3. I am a graduate of the University of Leeds with a B.Sc. (Hons. 1963) in Geology.
4. I have practised my profession since 1963 while employed with the Geological Survey of Jamaica, Siscoe Metals of Ontario Ltd., Highmont Mining Corporation Ltd., and Afton Mines Ltd.
5. This report describes work performed on the Gaza 1, Jericho 1, 2, 3, and 5 mineral claims under my supervision during the period July 1st, 1979 to December 7, 1979.

A handwritten signature in cursive script that reads "Alan J. Reed". The signature is written in dark ink and is positioned in the lower right quadrant of the page.

A. J. Reed, P. Eng.
January 10th, 1980

APPENDIX A: DIAMOND DRILL HOLE LOGS

BOREHOLE LOG

DIAMOND DRILL HOLE # J-79-10

HIGHMONT SURVEY GRID

NORTH: 79911.91 AZIMUTH: 42-49-06

EAST: 129,231.36 INCLINATION: -43°

COLLAR ELEVATION: 4774.74 LENGTH: 152.40 meters

NO. OF PAGES OF LOG: 10

LOGGED BY: LOUIS H. C. TSANG

FROM: SEPT. 25, 1979
DATE

TO: OCT. 16, 1979
DATE

SIGNATURE

Louis Tsang.

DEPTH in meters	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epidoite	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Zirconite	Pyrite	Sphalerite	ALTERATION	LITHOLOGY	
1	NO CORE																
2																	
3	#1	93						L			L				10 Ft	CHATAWAY G. O. (Granodiorite) light cream-green; medium grained with well separated, coarse distribution anchored to subhedral mafic grains. A marked poikilitic texture of hornblende 4% mafic hornblende > biotite. Hornblende >> orthoclase - Quartz occurs	
4		70						L			L						
5									L			L					
6															20 Ft		as interstitial masses. Mafic minerals have distinct outlines. Biotite grains are commonly bent. Opaque minerals are intimately associated with mafic minerals.
7	#1		minor Bo with mafic					L			L						
8		76						L			L						
9				H ₂ O ₂ in cleavage		M										30 Ft.	SCHIST -Hematite stain in cleavage planes.
10	#2	90						L			L						
11																	
12									L			L			40 Ft		
13		89						L	L		L					} Network of Quartz stringers	
14								L	L		L						
15															50 Ft		

HOLE NO. # J-79-10

HIGHMONT OPERATING CORPORATION

Borehole Log

DEPTH IN METERS	BOX NO.	% COKE ASSAY	MINERALIZATION	Epidote	Hematite	Ferrosulfide	Quartz	Biotite	Calcite	Muscovite	Chlorite	Zeolites	Pyrophyllite	Serpentine	ALTERATION	LITHOLOGY
16	97															SCHIST
17																
18	#3 81														60 Ft.	
19																
20	72														70 Ft.	
21																
22	#4 41														80 Ft.	
23																
24	58														90 Ft.	
25																
26	#5 58		← minor Bo in fracture	M			L	L							Chlorite-epidote-quartz stringers	CHATAWAY(?) G.O.
27				M			L	L								
28	58			M			L	L							90 Ft.	
29					M			L	L							
30	#5			L				L	L						100 Ft.	CHATAWAY G.O.

Scale 1cm = 1 meter

I Intense
M Medium

LOGGED BY *Louis Targ*

DEPTH IN FEET	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epidote	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Talclite	Pyrophyllite	Serpentine	ALTERATION	LITHOLOGY	
31	#5	83		L				L	LL								
32				L				L	LL								
33				L				L	LL								
34	100			L				L	LL						110 Ft.		
35				L				M	M	M					} Pinkish laumontite (?) & calcite coating in fractures. Minor Gypsum (?) also found in fracture	CHATAWAY G.D.	
36				L				M	M	M							
37	#6	100		L				M	M	M							
38				L				M	M	M							
39				L				M	M	M							
40	#7	100		ML				L	MMM						130 Ft.	CHATAWAY G.D. horblende dominant	
41				ML				L	MMM						} Pinkish laumontite (?) spread over the core		
42				ML				L	MMM								
43	100		ML				L	MMM						140 Ft.			
44			ML				L	MMM									
45		#8														CHATAWAY G.D.	
																150 Ft.	

Scale 1cm = 1 meter

I Intense
M Medium

100000 or Louis Tsang

Borehole Log

DEPTH in feet	BOX NO.	% CO ₂ ANALYSIS	MINERALIZATION	Epidoite	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Oligoclase	Chlorite	Talctite	FRASITE	SAPROPHITE	ALTERATION	LITHOLOGY		
46	#8	99							M	M	M	M				} Pinkish laumontite (?) stringers 160 Ft.	CHATAWAY G. D. - Pink color		
47									M	M	M	M							
48										M	M	M	M						
49	#9	93							M	M	M	M				} Quartz & calcite stringers. Fractures coated with calcite. 170 Ft.	CHATAWAY G. D.		
50									M	M	M	M							
51								L		M		L	L						
52	#9	100							M	M	M	M				} Network of calcite stringers. 180 Ft.	} Shear zone with serpentined striation.		
53									M	M	M	M							
54										M	M	M	M						
55	#10	93							M	M	M	M				} highly fractured core 190 Ft.	CHATAWAY G. D.		
56									M	M	M	M							
57										L	M	M	M						
58								I	M	I	I								
59									L	L	L	L							
60									L	L	L	L							
61									L	L	L	L							

Scale 1cm = 1 meter

I Intense
M Medium
L Light

LOGGED BY Louis Tsang

HOLE NO. #J-79-10

HIGHMONT OPERATING CORPORATION

Borehole Log

DEPTH feet	BOX NO.	% CALC EXPOSURE	MINERALIZATION	Epidote	Hamatite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Pyrophyllite	Saundersite	ALTERATION	LITHOLOGY	
62	#11	88				I	I		I	M					CHATAWAY G.D. - so far Chataway Granodiorite exhibits a uniform, homogeneous composition + texture.	
63							M	M	M	M				} Qtz-calcite stringers // core 210ft.		
64								L	L	L	L					
65	#12	97							L	L					} CHATAWAY G.D. 220ft.	
66										M	M					
67											I	I	M			
68	#13	93							M	M					} CHATAWAY G.D. 230ft.	
69										L	L					
70											M	M	L	M		
71	#13	97							M	M	L	M			} CHATAWAY G.D. 240ft.	
72										M	M	L	M			
73											M	M	L	M		
74	#13	98							M	M	L	M			} CHATAWAY G.D. 250ft.	
75										M	M	L	M			
75											M	M	L	M		

Scale 1cm = 1 meter

I Intense
M Medium
L Light

LOGGED BY Louis Tsang

Borehole Log

DEPTH in meters	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epitote	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Gypsum	Chlorite	Talcite	Pyrite	Sphalerite	ALTERATION	LITHOLOGY		
77	#13						M	M		LM						Qtz-calcite veinlets	← a porphyritic dyke @ 45°		
78		84																	
79				MM				M	MM	M						} calcite coating on fractures	CHATAWAY G.O.		
80	#14			MM				M	MM	M									
81		83		MM				M	MM	M									
82				MM				M	MM	M						} 270 Ft.			
83				MM				M	MM	M									
84		94		MM				M	MM	M						} 280 Ft.			
85				MM				M	MM	M									
86	#15			MM				M	MM	M									
87		85		MM				M	MM	M						} calcite vugs	CHATAWAY G.O.		
88				MM				M	MM	M									
89				M				M	IM							} fractures coated with calcite, gypsum, epidot + chlorite.	} Shear zone		
90	#16	99		M				M	MM										
91				M				M	MM							} 300 Ft.	} Disseminated euhedral biotite		

Scale 1cm = 1 meter

I Intense
M Medium
L Light

LOGGED BY Kenneth King

Borehole Log

DEPTH IN FEET	BOX NO.	% CALC ASSAY	MINERALIZATION	MINERALIZATION											ALTERATION	LITHOLOGY		
				Epitaxial	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Pyrite	Pyrrhotite	Sphalerite				
92	#16	70		M	M				M		MM		M			305 Ft.	Shattered zone	
93																		
94																		
95	#17	78		M	M				M		MM		M			310 Ft.	CHATAWAY G.O.	
96																		
97																		calcite veinlets
98	#17	98													320 Ft.	some striation in fractures shear zone (?)		
99																		
100																		Breccia
101	#18	94													330 Ft.	CHATAWAY G.O.		
102																		Shear zone
103																		Fault zone
104	#19	77													340 Ft.	Hornfels(?) - greenish color, medium grain. Pelopars have dark green tint. Matrix mainly calcite. Quartz > 10%. No visible foliation or lineation.		
105																		
106																		Breccia

Scale 1cm = 1 meter

I Intense
M Medium

Norm Jones

Borehole Log

DEPTH IN FEET	COR NO.	% CALC REACTIVITY	MINERALIZATION	MINERALIZATION											ALTERATION	LITHOLOGY	
				Epidote	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Zeolites	PROPHANE	SAPPHIRE			
107																	BRECCIA
108	86																
109	#19																
110																360 Ft.	Chloritized altered rock.
111	72																
112																	WITCHES BROOK G.O. Shattered zone
113																Chloritized rock 370 Ft.	WITCHES BROOK G.O. Medium grain; medium to dark grey in color. Equal amount of Biotite & hornblende. No fine inclusions grains with some uneven disseminated coarser grained porphyritic hornblende
114	62																
115	#20																
116																380 Ft.	
117	79																Highly fractured core.
118																	WITCHES BROOK G.O. - coarse grain - biotite slightly more than - hornblende
119																390 Ft.	WITCHES BROOK G.O. - medium grain - medium to dark color - biotite & hornblende of equal amount.
120	#21	96															} calcite coating in fractures
121																	

Scale 1cm = 1 meter

I Intense
M Medium

10000 by Louis Young

HOLE NO. # J-79-10

Borehole Log

DEPTH IN METERS	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epidote	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Clay-minerals	Chlorite	Talcs	FRYANITE	SEDOGONITE	ALTERATION	LITHOLOGY
122	#21	98							L	LM						} few crystallized calcite veinlets	WITCHES BROOK G.O. - feldspars have greenish tint
123									L	LM							
124																	
125	#22	98							L	LL						} Epidote stringers	410 FT.
126									L	LL							
127										L	LL						
128	#23	88		M					L	M						} Epidote stringers	420 FT.
129									L	LM							
130						M				L	LM						
131	#24	94		M				M	MM	M						} Calcite coating in fractures.	430 FT.
132									M	MM	M						
133						M				L	LL						
134	#24	97		M				M	LL							} calcite stringers Alteration found along calcite stringers	440 FT.
135									M	LL							
136						M				M	LM						
137																	

Scale 1cm = 1 meter

L Intense
M Medium
I L.M

LOGGED BY Louis Tsang

HOLE NO. # J-79-10HIGHMONT OPERATING CORPORATIONPAGE 10 OF 10

Borehole Log

DEPTH in meters	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epidote	Hematite	Tremolite	Quartz	Biotite	Calcite	Malcolite	Chrysotile	Siderite	Zeolites	PROPHILITE	SAPROPHITE	ALTERATION	LITHOLOGY		
138	#24	96		L					L		LL					} Alteration found locally along calcite stringers only			
139				L					L		LL								
140																			
141	97			M					M		MM					} Calcite-epidot stringers @ 70°-90° 460 Ft.	CHATAWAY G.D. - fine-grained.		
142				L					L		L								
143				L						L		L							
144	#25	93		L					L		L					} Alteration found locally along calcite veinlets 470 Ft.			
145				L					L		L								
146				L						L		L							
147	89			L					L		L					} Alteration found locally along few calcite veinlets. 490'	← Shear zone		
148				L					L		L								
149				L						L		L							
150	#26	93		L					L		L								
151				L					L		L								
152				L						L		L							

Scale 1cm = 1 meter

I Intense
M Medium
L LightLOGGED BY Louis Tsang

BORING LOG

DIAMOND DRILL HOLE # J-79-11

HIGHMONT SURVEY GRID

NORTH: 79,651.97 AZIMUTH: 46-35-44

EAST: 129,521.04 INCLINATION: -44°

COLLAR ELEVATION: 4735.43 LENGTH: 152.40 meters

NO. OF PAGES OF LOG: 10

LOGGED BY: LOUIS H. C. TSANG

FROM: OCT. 10, 1979
DATE

TO: NOV. 13, 1979
DATE

Louis Tsang

SIGNATURE

HIGHMONT OPERATING CORPORATION

HOLE NO. J-79-11

PAGE 1 OF 10

Borehole Log

DEPTH in FEET	BOX NO.	% GASE RECOVERY	MINERALIZATION	Epidote	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Clay minerals	Chlorite	Zeolites	Prehnite	Saponite	ALTERATION	LITHOLOGY
1																	FLOATS
2			Malachite on the surface of floats														
3																10 Ft	
4																	
5																	
6	#1															20 Ft	
7																	
8		75															
9																30 Ft	FAULT ZONE - Shattered rock chips together with gangy material - slickensides with on rock fragments
10																	
11		51															
12																40 Ft	
13																	
14		49															
15	#2															50 Ft	FAULT ZONE - highly altered greenish rock with slickensides in fractures

Scale 1cm = 1 meter

I Intense
M Medium
L Light

LOGGED BY Louis Young

DEPTH in feet	BOX NO.	% CAGE ASSEMBLY	MINERALIZATION	MINERALIZATION										ALTERATION	LITHOLOGY	
				Epitote	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Zirconite	Pyrite			Sphalerite
16	#2	79														CHATAWAY G.O. - feldspars have orange tint probably due to oxidation. - mafic: hornblende dominant; coarse grain.
17			L					L							laumontite (?) stringers & coatings in fractures } 60 Ft.	
18																
19	#3	92														CHATAWAY G.O.
20															minor qty in epidot-chlorite of vein } 70 Ft.	
21																
22	#3	96														80 Ft.
23																
24																
25	#4	91														90 Ft.
26																
27																
28	#4	93														WITCHES BROOK G.O. indistinct mafic outlines. fine grain.
29															Pinkish laumontite (?) } fine grained in fractures. few qtz-epidot-chlorite vein + veinlets } 100 Ft.	
30			L													

Scale 1cm = 1 meter

L Intense
M Medium
I Light

LOGGED BY *Louis Tracy*

DEPTH IN FEET	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epidote	Hornblende	Transectite	Quartz	Biotite	Calcite	Muscovite	Clay mineral	Chlorite	Pyrite	Pyrophanite	Sphalerite	ALTERATION	LITHOLOGY
31	#4																WITCHES BROOK G.D.
32		93							L	LM							
33	#5								L	LM							
34																110 Ft	CHATAWAY G.D.
35		95							L	MMM						Pinkish laumontite(?) stringers	← a fine grained G.D. dyke with chilled margins
36									L	MMM							
37																120 Ft	CHATAWAY G.D.
38		99							L	LLM						Pinkish laumontite(?) stringers @ 40° to 65°	
39	#6								L	LLM							
40																130 Ft.	
41		100							L	LLM							
42									L	LLM							WITCHES BROOK G.D.
43																140 Ft.	Biotite dominant fine grained.
44	#7	95							L	LLM						Pinkish laumontite(?) stringers	CHATAWAY G.D.
45									L	LLM							

Scale 1cm = 1 meter

I Intense
M Medium
L Light

150 Ft.

LOGGED BY Louis Tsang

DEPTH in feet	BOX NO.	% CORE RECOVERY	MINERALIZATION	ALTERATION										LITHOLOGY		
				Epidote	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Zeolites	PROPLITE		SAPROPHITE	
46	#7	97							L		LLM				Pinkish laumontite (?) stringers	CHATAWAY G.D.
47																
48	#8	93							L		LLM				Pinkish laumontite (?) stringers	160 Ft.
49																
50	#8	93							L		LL				Pinkish laumontite (?) stringers	170 Ft.
51																
52	#9	96							L		LLL				CHATAWAY G.D.	
53																
54	#9	83							L		LLL				Shear zone	
55																
56	#9	83							L		MLM				Pinkish laumontite (?) stringers	180 Ft.
57																
58	#10	100							L		MLM				CHATAWAY G.D.	
59																
60	#10	100							L		LLL				Pinkish laumontite (?) stringers	190 Ft.
61																
									L		LLM				Pinkish laumontite (?) stringers	200 Ft.

Scale 1cm = 1 meter

I Intense
M Medium
L Light

LOGGED BY Kerri Young

Borehole Log

DEPTH in meters	BOX NO.	% COG ALCOHOL	MINERALIZATION	Epidote	Hematite	Tennantite	Quartz	Biotite	Calcite	Malachite	Cyanide	Chlorite	Zeolites	FRYFITE	SANDSTONE	ALTERATION	LITHOLOGY
-62	#10	100							L		LLM					Pinkish laumontite (?) stringers	
-63									L		LLL						
-64																210 Ft.	CHATAWAY G.O.
-65		88							L		LLL						
-66	#11								L		LLL						
-67																220 Ft.	
-68		94		L					M		MMM					Pinkish laumontite (?) with calcite & chlorite stringers	
-69									L		LLM						CHATAWAY G.O.
-70																230 Ft.	medium grained cluster of poikilitic hercynite
-71	#12	91							L		LLM					Pinkish laumontite (?) stringers	rock fabric with pinkish tint
-72									L		LLM						
-73																	
-74									L		LLM					240 Ft.	
-75	#13	78							M		LLM					Pinkish laumontite (?) & calcite stringers	CHATAWAY G.O.
-76									M		LLM						
																250 Ft.	

Scale 1cm = 1 meter

I Intense
M Medium
L Light

LOGGED BY Louis Young

Borehole Log

DEPTH in meters	BOX No.	% CASE RECOVERY	MINERALIZATION	ALTERATION										LITHOLOGY	
				Epidote	Hornblende	Tremolite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Zeolites	Pyrophyllite		SAPSURITE
77	#13	100		L					L	L	L	M			Pinkish laumontite(?) & calcite stringers.
78			← minor Bo with mafic	L					L	L	L	L			
79			L					L	L	L	L				
80	#14	88							L	L	L	M		260 Ft. ← fine grain G.D. dyke.	
81								L	L	L	M		Fractures coated with pinkish laumontite(?) 270 Ft.		
82								L	L	L	M				
83	#14	86							L	L	L	M			
84										L	L	L	M		
85	#15	70		M					M	M	M	M	I	280 Ft. Pinkish laumontite(?) stringers	
86				M					M	M	M	M	M		
87				M						M	M	M	M		I
88				M						M	M	M	M		I
89	#15	70		M					M	M	M	M	I	290 Ft.	
90				M					M	M	M	M	I		
91	#16			M					M	M	M	M	I	300 Ft.	

Scale 1cm = 1 meter

I Intense
M Medium
L Light

LOGGED BY Louis Stang.

DEPTH in feet	LOG NO.	% CALC ECONOMY	MINERALIZATION	Epidoite	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Phlogopite	Chlorite	Pyrite	PROLIFE	SARCOLE	ALTERATION	LITHOLOGY
92	#16	85		L	L				L							Pinkish laumontite(?) stringers	CHATAWAY G.D. fine-grained
93								M	MMM	M							
94					L	L				M	MMM	M					calcite stringers (width ranging 1mm- 3mm)	310 Ft.
95	#17	99		L	L				L	M	LM	L				Pinkish laumontite(?) stringers	CHATAWAY VARIETY G.D. fine-grained
96									L	M	LM	L					
97					L	L				L	M	LM	L				
98	#18	93							L	LL						Pinkish laumontite(?) stringers	CHATAWAY G.D. Medium-grained
99									L	LL							
100										L	LL	M					
101	#18	83							L	LM						WITCHES BROOK G.D.	CHATAWAY G.D. Medium to coarse grain
102									L	LM							
103										L	LM						
104									L	LM							
105									L	LM							
106									L	LM							

Scale 1cm = 1 meter

I Intense
M Medium

LOGGED BY Kevin Stone

Borehole Log

DEPTH IN METERS	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epidote	Hornblende	Tremolite	Quartz	Biotite	Calcite	Muscovite	Clay mineral	Chalcopyrite	Pyrrolite	Pyrrhotite	Sphalerite	ALTERATION	LITHOLOGY
107	#18	.....							L	LM							
108	90	.....															CHATAWAY G. D.
109		.....															coarse-grained
110	#19	.....														360 Ft.	
111	78	.....														} Kaolinized fractures	
112																
113	84	.....														370 Ft.	
114		.....															CHATAWAY G. D.
115	91	.....															coarse-grained
116		#20														380 Ft.
117	91	.....														
118																
119	84	.....														390 Ft.	
120		#21														
121	92	.....															CHATAWAY G. D. - hornblende dominant

Scale 1cm = 1 meter

L Siliceous
M Medium

100000 av Louisiane

HIGHMONT OPERATING CORPORATION

WELL NO. J-79-11

Borehole Log

DEPTH IN FEET	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epidoite	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Clay mineral	Chlorite	Talchite	PROPHYLITE	SAPROPHYLITE	ALTERATION	LITHOLOGY
122	#21	100	Moss with qtz veinlets & qtz-epidot chlorite stringer						L	LL							Q.D.
123						L											
124		90	3 Bo & cpy (6cm thick)				L			L	LL						410 Ft.
125	#22								L	LL							CHATAWAY G.O. medium to coarse grained
126		96							L	LL							
127		98							L	LL							420 Ft.
128									L	LL							CHATAWAY G.O. fine-grained
129	#23								L	LL							
130		97							L	LL							CHATAWAY G.O.
131										L	LL						430 Ft.
132	#23								L	LL							
133		96							L	LL							
134										L	LL						
135	#24								L	LL							
136		96							L	LL							440 Ft.
137									L	LL							CHATAWAY G.O. medium-grained

Scale 1cm = 1 meter

I Intense
M Medium

LOGGED BY Louis Kang

HIGHMONT OPERATING CORPORATION

HOLE NO. J-79-11

PAGE 10 OF 10

Borehole Log

DEPTH in meters	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epidote	Hornblende	Tremolite	Quartz	Biotite	Calcite	Muscovite	Gypsum	Chlorite	Zeolites	FRANKITE	SEPIOLITE	ALTERATION	LITHOLOGY		
138	#24	98							L	L							CHATAWAY medium-grained		
139																	CHATAWAY G.O. - fine grained		
140										L	L							CHATAWAY medium-grained	
141	93								L	L							460FL		
142																		CHATAWAY G.O.	
143										L	L							fine-grained variety	
144	#25	94							M	L							470FL		
145																		} calcite coating in fractures	
146										M	L		M						
147	98								M	L		M						480FL	
148																			} pinkish laumontite (?) stringers pinkish laumontite & calcite coatings in fractures
149										M	L		M						
150	#26	79							L	L	M							490'	
151																			
152										M	L	M							

Scale 1cm = 1 meter

I Intense
M Medium
L Low

LOGGED BY Louis Kang

BOREHOLE LOG

DIAMOND DRILL HOLE # J-79-12

HIGHMONT SURVEY GRID

NORTH: 79575.16 AZIMUTH: -

EAST: 128985.53 INCLINATION: vertical

COLLAR ELEVATION: 4796.6 LENGTH: 30.48 meters

NO. OF PAGES OF LOG: 2

LOGGED BY: LOUIS H. C. TSANG

FROM: NOV. 26, 1979
DATE

TO: NOV 27, 1979
DATE

SIGNATURE

Louis Tsang

HOLE NO. J-79-12

Borehole Log

DEPTH in meters	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epidoite	Ilmenite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Diopside	Chlorite	Amphibole	Pyrophyllite	Serpentine	ALTERATION	LITHOLOGY
1	NO CORE																
2																	
3																	
4	#1	72		L				M								10 Ft calcite coating in fractures	CHATAWAY VARIETY G.O. - fine grained.
5				L				M								Two set of calcite veinlets. One dips 10°-0° & other has 20 Ft dip 4° 70°-90°	- orange to rusty tint of feldspars
6	#1	96		L				M									
7					L				M								
8	#2	84		L					L							30 Ft. calcite coatings in fractures @ 80°-90°	
9					L					L							
10	#2	78		LL				M								Two sets of calcite stringers ① @ 20°-40° 40 Ft ② @ 50°-60°	
11					LL				M								
12	#3			LL				M									
13					LL				M								
14				LL				M									
15																50 Ft	

Scale 1cm = 1 meter

I Intense
M Medium
L L

LOGGED BY Louis Young

HIGHMOUNT OPERATING CORPORATION

HOLE NO. J-79-12

Borehole Log

PAGE 2 OF 2

DEPTH in meters	BOX NO.	% CONCENTRATION RECOVERY	MINERALIZATION	Epitote	Amphibole	Tremolite	Quartz	Biotite	Calcite	Muscovite	Clayminerals	Chlorite	Talctite	SPORILLING	SPORILLING	ALTERATION	LITHOLOGY
16	#3	85						M		LM						Calcite coatings in fracture @ 70°-90° pinkish laminae in fracture @ 40°-50°	CHATAWAY VARIETY G. O. - fine grained
17								M		LM							
18	#4	84						M		LM						60 Ft.	- mafic mainly hornblende
19								M		LM							
20																	
21	#4	99		L				L		LM						70 Ft.	CHATAWAY - cream green color - feldspars have moderate brown tint
22									L		LM						
23										L		LM					
24										L		LM					
25	#5	73		L				L		LM					80 Ft.	Fractures' general dip @ 40°-50°	
26											M						
27										L		M					
28	#5	81						L		LL					90 Ft.	dominant euhedral black surgary biotite disseminated in rock mass.	
29							M				LI						
30	#6			M		M		M		LI						100 Ft.	HOPKINSON (?) contact @ 80°-90° - dark green color - very fine grain.
				M		M		M		LM							

Scale 1cm = 1 meter

I Intense
M Medium

LOGGED BY Ronnie Perry

BOREHOLE LOG

DIAMOND DRILL HOLE # J-79-13

HIGHMONT SURVEY GRID

NORTH: 73,462.97 AZIMUTH: ---

EAST: 130,777.73 INCLINATION: Vertical

COLLAR ELEVATION: 4785.45 LENGTH: 45.72 meters

NO. OF PAGES OF LOG: 3

LOGGED BY: LOUIS H. C. TSANG

FROM: NOV. 27, 1979 TO: _____
DATE DATE

SIGNATURE

Louis Tsang

Borehole Log

DEPTH in meters	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epidote	Hornblende	Transectite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Talc	Pyrophyllite	Glaucophane	ALTERATION	LITHOLOGY
1	NO CORE															
2																
3																
4	#1	72							L		L				10 Ft calcite in coating in fractures (1mm thick) Fractures dip 90°-75°	CHATAWAY VARIETY - GRANODIORITE (G.D.)
5									L		L				Chlorite found associated with hornblende	COLOR: light grey GRAIN: MEDIUM TO FINE MAFIC: well separated; evenly distributed; euhedral
6	#1	93													20 Ft	to subeuhedral; no distinct outline; marked mikilitic texture of hornblende - hornblende > biotite
7										L		L				
8									L		L					- Black euhedral biotite phenocryst observed occasional (less than 1%)
9	#2	92													30 Ft. same as above	CHATAWAY GRANODIORITE has greenish tint.
10										L		L				
11									L		L					
12									L		L					
13	#1	81					L		M		M	L			40 Ft Kaoilized. Calcite stringers at 80°-90°	
14										I		L				
15															50 Ft	

Scale 1cm = 1 meter

I Intense
M Medium
L Low

LOGGED BY Kevin Stang

HIGHMONT OPERATING CORPORATION

HOLE NO. J-79-13

Borehole Log

DEPTH in meters	BOX NO.	% CORE RECOVERY	MINERALIZATION	ALTERATION											LITHOLOGY					
				Epidoite	Hematite	Ferrosilite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Chlorite	Talcsites	FRANKIE		FRANKIE				
16	#3	65							L		L						Same as #2 box			
17																		Except section from 17.4m - 18.3m. Chloritization		
18											M		M	I					60 Ft.	CHATAWAY G.O. C: light cream green (due to alteration)
19	#4	71							M		M	M								
20																				
21											M		M	M						
22	#4	43							L		M	L					70 Ft. Calcite coatings in fractures ranging 60°-80°	CHATAWAY G.O. Greenish tint		
23																				
24											L		M	L					80 Ft.	
25	#4	64									M		M	L						
26																				
27											L		M		M	L	L		90 Ft.	
28	#5	76										L		M		L	L		CHATAWAY G.O.	
29																				
30														L		I		L	In addition, pink hematite(?) associated with calcite stringers (1mm thick) at 60°-80°	100 Ft.

Scale 1cm = 1 meter

I Intense
M Medium
L LIT

LOGGED BY Louis [Signature]

DEPTH In METERS	BOX NO.	% CORE RECOVERY	MINERALIZATION	ALTERATION										LITHOLOGY			
				Epidote	Hornblende	Tremolite	Quartz	Biotite	Calcite	Muscovite	Glaucophane	Chlorite	Talcs		ANPHIBOLE	OPALINE	
-31	#5	55							I	LL							CHATAWAY G. D. c: light cream green
-32																	
-33										I	LL						
-34	#6	37							I	LL						110 Ft	
-35																	
-36										M	LLL						
-37	#7	51							I	LLM						120 Ft Qty-calcite stringer at 60° - Chlorite + Hematite + Bornite (?)	CHATAWAY G. D. light cream green hornblende >> biotite.
-38																	
-39										I	ILM						
-40	#8	67							I	IMI						130 Ft. laumontite pink + (?) calcite stringers at 60°	
-41																	
-42										I	MM						
-43	#9	58							I	MM						140 Ft. pink laumontite(?) - calcite stringers + fractures	CHATAWAY G. D. light cream green + pink
-44																	
-45										I	MM						

Scale 1cm = 1 meter

I Intense
M Medium
L Light

150 Ft.

LOGGED BY [Signature]

BOREHOLE LOG

DIAMOND DRILL HOLE # J-79-14

HIGHMONT SURVEY GRID

NORTH: 78,119.06 AZIMUTH: —

EAST: 124,899.73 INCLINATION: vertical

COLLAR ELEVATION: 4830 approx LENGTH: 121.92 meters

NO. OF PAGES OF LOG: 8

LOGGED BY: LOUIS H. C. TSANG

FROM: NOV. 28, 1979
DATE

TO: NOV. 29, 1979
DATE

SIGNATURE

Louis Tsang.

Borehole Log

DEPTH feet	BOX NO.	% CORE RECOVERY	MINERALIZATION	ALTERATION										LITHOLOGY			
				Epidofo	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Tariffes	Pyrophyllite		Saousinite		
1	NO CORE	/													CHATAWAY G.D. color: mottled light green GRAIN: COARSE MAFIC: WELL SEPARATED		
2															scintly disseminated subhedral to subeuhedral marked poikilitic texture of hornblende		
3																10 Ft	hornblende > biotite, with distinct outlines.
4																	
5	#1	57															
6					L										20 Ft		
7																	
8	#1	66													Hematite stain caused by the oxidation of the rock.		
9															30 Ft.		
10	#2	83															
11															40 Ft	CHATAWAY G.D. some inclusion of probably hybrid phase (fine grain rock with 30% mafic minerals)	
12																	
13	#2	79															
14																50 Ft	Calcite stringers have dip 45 ranging 50°-70°
15				LL						M	LL						

Scale 1cm = 1 meter

I Intense
M Medium
L Light

LOGGED BY J. Davis

HIGHMONT OPERATING CORPORATION

HOLE NO. J-79-14f

Borehole Log

DEPTH in feet	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epidote	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Clay mineral	Chlorite	Zeolites	FRASITE	SODIUMSILICATE	ALTERATION	LITHOLOGY
16	#2																CHATAWAY G.D. same as Box 1
17		82		L								L					
18	#3			M								L					
19				L								L					60 Ft.
20		67		L								M					
21												M					
22									I					I			70 Ft. Intense altered rock Greyish green color, highly fractured
23	#4	92							I	I				I			
24									L								Calcite coatings on fractures (40°-80°)
25																	80 Ft. CHATAWAY G.D. Medium grain.
26		85		M			L					L					Epidote-chlorite-gtz veinlets over the section
27												M					chlorite-serp-calcite fracture 80°-90°
28	#5																90 Ft. CHATAWAY G.D. coarse grain
29		98										L					calcite-pink laumontite(?) coatings 70°-80°
30												M					Uneven distribution of euhedral biotite.

Scale 1cm = 1 meter

I Intense
M Medium
L Low

LOGGED BY *Xue Wang*

HIGHMONT OPERATING CORPORATION

HOLE NO. J-79-14

Borehole Log

PAGE 3 OF 8

DEPTH in FEET	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epidote	Hornblende	Tremolite	Quartz	Biotite	Calcite	Muscovite	Chlorine	Zeolites	FUSING	DAPSONINE	ALTERATION	LITHOLOGY
31	#5	94							L	M	M				pinkish feldspar, Orthoclase → aplitic at 20°	
32																
33																CHATAWAY G. D. Continued from last section. Mottled pink to grey feldspars.
34	#6	95							L	L	L				Calcite coatings in fractures @ 20°-40° 110 Ft.	→ slyke, medium grain G. D.
35																
36									L	L	L					
37									M	M	M				pink laumontite (?) & calcite stringers @ 50°-70° 120 Ft.	
38	93								I	M	M				→ pink laumontite coating in fracture @ 60°	CHATAWAY G. D.
39																
40	#7	91							L	L					→ pink laumontite (?) in fracture @ 70° 130 Ft.	
41																
42									M	L	M				pink laumontite (?) in fractures @ 80°-90° Calcite coating in fractures || to the core	
43									M	L	M					
44	#8	70														CHATAWAY G. D. 42m-45m. rock mass lightly fractured.
45																Calcite coating in fractures @ 50°-60° 140 Ft.
									M	L	M					150 Ft.

Scale 1cm = 1 meter

I Intense
M Medium

LOGGED BY *[Signature]*

HIGHMONT OPERATING CORPORATION

WELL NO. J-79-14

Borehole Log

DEPTH in feet	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epidote	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Gypsum	Calcite	Pyrite	PROPHYLITE	SAPROPHITE	ALTERATION	LITHOLOGY
46	#8	83		L					L	LL						Calcite stringers @ 70°-80°	
47																	
48	#9	92							L	LL						calcite coating in fractures for 160 Ft.	CHATAWAY G.D. Continued from last section
49																	the core in this box.	a narrow dyke G.D. 50% mafic.
50	#10	71							L	LL							
51																	
52	#11	69							L	LL						170 Ft.	
53																	
54									L	LL						calcite coatings in fractures @ 60°	CHATAWAY G.D.
55																180 Ft.	
56									L	LL							
57									L	LL						Calcite coatings in fracture @ 70°	
58																190 Ft.	
59									L	LM							
60									M	ML							CHATAWAY G.D.
61				L					M	LL						Hematite stain (?) in fracture 200 Ft.	

Scale 1cm = 1 meter

I Intense
M Medium
L Light

LOGGED BY Louis Wang

Borehole Log

DEPTH in METERS	BOX NO.	% CaCO ₃ RECOVERY	MINERALIZATION	Epidote	Hornblende	Tremolite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Ta-phite	PROSPERITE	SANDSTONE	ALTERATION	LITHOLOGY	
62	#11	100		M					L	LL							
63				M					L	LL					← Pink Laumontite (?) strings @ 70°		
64	#12	97		L					L	LL					210 Ft.		
65									L								CHATAWAY G.D.
66										L	LL						
67	#13	98							L	LL							
68									M	LM					Calcite coatings in fractures	220 Ft.	
69									L	LL							
70	#14	100							L	LM							
71									L	LL						230 Ft.	CHATAWAY G.D.
72					LM					L	LL					← Ete - Epidot - chlorite - serp. veinlets (1.5 cm thick) at 70°	
73	#13	93							L	LL							
74					M				L	LL					Calcite coatings in fractures.	240 Ft.	
75										L	LL						
75	#14			L					L	LL				← Epidot - chlorite - serp - g's veinlet @ 70°	250 Ft.	CHATAWAY G.D.	

Scale 1cm = 1 meter

I Intense
M Medium
L Light

LOGGED BY Lewis Jones

Borehole Log

DEPTH in meters	BOX NO.	% CONCENTRATION	MINERALIZATION	Epitate	Hematite	Tremolite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Pyrite	PROPRITE	SARONITE	ALTERATION	LITHOLOGY	
77	#14	99							L		LL					← 9/2 pink apite vein (3cm thick) @ 10°	
78									L		LL	L			calcite - pink laumontite veins @ 70°	CHATAWAY G.D. ← minor green tint on felpars	
79																	260 Ft.
80	#14	98							M		M	LM					
81									L		LL	LL					
82										L		LL	LL			Calcite coatings in fractures @ 60° - 70°	270 Ft.	CHATAWAY G.D.
83	#15	94							L		LL						
84																← Apites (pink) @ > 10°	
85										L		LM				← Serp - calcite coating in fractures @ 50°	280 Ft.
86	#15	91							L		LL						
87																← Serp - Hemalite - calcite coating in fractures @ 45°	} medium grain, probably a narrow dyke (?) CHATAWAY G.D.
88										L		LL	LL			← Strongly chloritized narrow section with calcite coating in fracture @ 90°	
89	#16	94							L		LL						
90										L		LL	M				} pink laumontite (?) in fractures
91										L		LL	LL				

Scale 1cm = 1 meter

I Intense
M Medium
L Light

LOGGED BY *[Signature]*

HIGHMONT OPERATING CORPORATION

LE NO. J-79-14

Borehole Log

DEPTH IN FEET	BOX NO.	% CORE RECOVERY	MINERALIZATION	Epilote	Monazite	Tranmite	Quartz	Biotite	Calcite	Muscovite	Chrysotile	Chlorite	Talites	PROLINE	SAPONINE	ALTERATION	LITHOLOGY	
-92	#16								L		LL							
-93		93														← calcitized narrow section	CHATAWAY G. D.	
-94											LL					← 305 Ft.	← fine grain Q. D. narrow dyke	
-95	#17										LL					← inclusion (2cm φ)	← intense altered. feldspar have greenish tint.	
-96		96														← fresh qtz-serp-chlorite stringers	← fine grain Q. D. dyke (40% mafic)	
-97								L		LL							← fine-grain Q. D. dyke. Minor calcite coating in fractures	
-98									L		LL					← 320 Ft.	← CHATAWAY G. D.	
-99		93									LL					← Epidot-qtz-chlorite stringers @ 60°		
-100								L			LL						← a narrow dyke (6% mafic) fine grain	
-101	#18																← 330 Ft.	
-102		93						L		LL								
-103									M		LL						← calcite & pink laumontite coating in fractures 80°-90°	
-104																	← 340 Ft.	CHATAWAY G. D.
-105	#19	100						L		LLL							← calcite & pink laumontite (?) coating in fractures @ 60°	
-106								L		LLL							← inclusion (4cm φ)	
								L		MMM							← calcite coating in fracture @ 40°. Propylitization	

L Intense
M Moderate

in narrow zone of calcite
in fractures

LOGGED BY:

[Signature]

HIGHMONT OPERATING CORPORATION

WELL NO. J-79-14

Borehole Log

DEPTH in FEET	BOX NO.	% CORE RECOVERY	MINERALIZATION	ALTERATION										LITHOLOGY
				Epidote	Hematite	Tronolite	Quartz	Biotite	Calcite	Muscovite	Chlorite	Chlorite	Pyrite		Sphalerite
107	#19	88							M		MMM	} Intensely altered.	CHATAWAY G.D	
108								I		MLM				
109				L					L		LL			
110	#20	100							L		LL	} 360 Ft.	} Feldspars have greenish tint.	
111								L		LL				
112									M		ML			
113	88								L		ML	} 370 Ft.	} medium grain	
114								L		LL				
115									L		LL			
116	#21	98							L		LL	} 380 Ft.	} Epidot-chlorite stringer with quartz @ 50'	
117								L		LL				
118									L		LL			
119	48								L		LL	} 390 Ft.	} chlorite-calcite stringer @ 70'	
120								L		LL				
121												End of the hole		

Scale 1cm = 1 meter

I Intense
M Medium

LOGGED BY Louis Tsang

APPENDIX B: DIAMOND DRILL HOLE ASSAYS

HOLE #J-79-10

NORTH 79911.91
 EAST 129231.36
 ELEVATION 4774.74

AZM. 42-49-06
 DIP -43 degrees

<u>FOOTAGE:</u>	<u>METERS:</u>	<u>CU %</u>	<u>MO %</u>
7-10	2.13-3.05	0.021	0.011
10-20	3.05-6.10	0.043	0.001
20-30	6.10-9.14	0.198	0.004
30-40	9.14-12.19	0.104	0.001
40-50	12.19-15.24	0.057	0.001
50-60	15.24-18.29	0.055	0.002
60-70	18.29-21.34	0.029	0.001
70-80	21.34-24.38	0.090	0.002
80-90	24.38-27.43	0.206	0.002
90-100	27.43-30.48	0.038	0.001
100-110	30.48-33.53	0.018	0.001
110-120	33.53-36.58	0.082	0.002
120-130	36.58-39.62	0.039	0.003
130-140	39.62-42.67	0.036	0.001
140-150	42.67-45.72	0.032	0.001
150-160	45.72-48.77	0.041	0.002
160-170	48.77-51.82	0.024	0.001
170-180	51.82-54.86	0.013	0.001
180-190	54.86-57.91	0.027	0.002
190-200	57.91-60.96	0.042	0.004
200-210	60.96-64.01	0.018	0.001
210-220	64.01-67.06	0.036	0.004
220-230	67.06-70.10	0.028	0.001
230-240	70.10-73.15	0.031	0.002
240-250	73.15-76.20	0.042	0.002
250-260	76.20-79.25	0.041	0.001
260-270	79.25-82.30	0.026	0.002
270-280	82.30-85.34	0.018	0.001
280-290	85.34-88.39	0.025	0.003
290-300	88.39-91.44	0.055	0.001
300-310	91.44-94.49	0.030	0.001
310-320	94.49-97.54	0.055	0.005
320-330	97.54-100.58	0.001	0.001
330-340	100.58-103.63	0.041	0.001
340-350	103.63-106.68	0.062	0.001
350-360	106.68-109.73	0.120	0.002
360-370	109.73-112.78	0.102	0.001
370-380	112.78-115.82	0.262	0.001
380-390	115.82-118.87	0.013	0.001
390-400	118.87-121.92	0.008	0.001
400-410	121.92-124.97	0.009	0.001
410-420	124.97-128.02	0.016	0.001
420-430	128.02-131.06	0.014	0.001
430-440	131.06-134.11	0.028	0.001
440-450	134.11-137.16	0.013	0.001

HOLE #J-79-10

NORTH 79911.91
EAST 129231.36
ELEVATION 4774.74

AZM 42-49-06
DIP -43 degrees

<u>FOOTAGE:</u>	<u>METERS:</u>	<u>CU %</u>	<u>MO %</u>
450-460	137.16-140.21	0.011	0.001
460-470	140.21-143.26	0.070	0.001
470-480	143.26-146.30	0.019	0.001
480-490	146.30-149.35	0.038	0.002
490-500	149.35-152.40	0.012	0.001

HOLE #J-79-11

NORTH 79651.97

EAST 129521.04

ELEVATION 4735.43

AZM. 46-35-44

DIP -44 degrees

<u>FOOTAGE:</u>	<u>METERS:</u>	<u>CU %</u>	<u>MO %</u>
20-30	6.10-9.14	0.079	0.003
30-40	9.14-12.19	0.088	0.001
40-50	12.19-15.24	0.046	0.001
50-60	15.24-18.29	0.014	0.007
60-70	18.29-21.34	0.044	0.001
70-80	21.34-24.38	0.056	0.001
80-90	24.38-27.43	0.009	0.001
90-100	27.43-30.48	0.017	0.001
100-110	30.48-33.53	0.011	0.001
110-120	33.53-36.58	0.008	0.001
120-130	36.58-39.62	0.009	0.001
130-140	39.62-42.67	0.008	0.001
140-150	42.67-45.72	0.014	0.003
150-160	45.72-48.77	0.006	0.001
160-170	48.77-51.82	0.007	0.002
170-180	51.82-54.86	0.038	0.002
180-190	54.86-57.91	0.010	0.002
190-200	57.91-60.96	0.025	0.002
200-210	60.96-64.01	0.018	0.001
210-220	64.01-67.06	0.017	0.001
220-230	67.06-70.10	0.050	0.001
230-240	70.10-73.15	0.020	0.001
240-250	73.15-76.20	0.014	0.003
250-260	76.20-79.25	0.017	0.001
260-270	79.25-82.30	0.023	0.001
270-280	82.30-85.34	0.018	0.001
280-290	85.34-88.39	0.024	0.001
290-300	88.39-91.44	0.019	0.001
300-310	91.44-94.49	0.016	0.001
310-320	94.49-97.54	0.018	0.001
320-330	97.54-100.58	0.027	0.001
330-340	100.58-103.63	0.013	0.001
340-350	103.63-106.68	0.021	0.001
350-360	106.68-109.73	0.094	0.001
360-370	109.73-112.78	0.011	0.001
370-380	112.78-115.82	0.012	0.001
380-390	115.82-118.87	0.014	0.001
390-395	118.87-120.40	0.117	0.001
395-400	120.40-121.92	3.18	trace
400-405	121.92-123.44	1.30	0.025
405-410	123.44-124.97	0.790	trace
410-415	124.97-126.49	0.033	trace
415-420	126.49-128.02	0.058	trace
420-430	128.02-131.06	0.034	0.001
430-440	131.06-134.11	0.019	0.001
440-450	134.11-137.16	0.026	0.002
450-460	137.16-140.21	0.023	0.001

HIGHMONT OPERATING CORPORATION

Page 2

HOLE #J-79-11

NORTH 79651.97
EAST 129521.04
ELEVATION 4735.43

AZM. 46-35-44
DIP -44 degrees

<u>FOOTAGE:</u>	<u>METERS:</u>	<u>CU %</u>	<u>MO %</u>
460-470	140.21-143.26	0.034	0.001
470-480	143.26-146.30	0.035	0.001
480-490	146.30-149.35	0.030	0.001
490-500	149.35-152.40	0.035	0.001

HIGHMONT OPERATING CORPORATION

WELL #J79-12
NORTH 79575.16
EAST 128985.53
ELEVATION 4796.6

AZM --
DIP VERTICAL

<u>FOOTAGE:</u>	<u>METERS:</u>	<u>CU %</u>	<u>MO %</u>
12-20	3.66-6.10	0.010	0.002
20-30	6.10-9.14	0.008	0.004
30-40	9.14-12.19	0.010	0.001
40-50	12.19-15.24	0.016	0.002
50-60	15.24-18.29	0.023	0.002
60-70	18.29-21.34	0.021	0.001
70-80	21.34-24.38	0.007	0.001
80-90	24.38-27.43	0.034	0.001
90-101	27.43-30.78	0.006	0.002

RICHMONT OPERATING CORPORATION

HOLE #J-79-13

NORTH 73462.97

EAST 130777.73

ELEVATION 4785.45

AZM. --

DIP VERTICAL

<u>FOOTAGE:</u>	<u>METERS:</u>	<u>CU %</u>	<u>MO %</u>
11-20	3.35-6.10	0.010	0.001
20-30	6.10-0.14	0.010	0.001
30-40	9.14-12.19	0.010	0.001
40-50	12.19-15.24	0.012	0.000
50-60	15.24-18.29	0.033	0.001
60-70	18.29-21.34	0.023	0.001
70-80	21.34-24.38	0.015	0.002
80-90	24.38-27.43	0.014	0.001
90-100	27.43-30.48	0.018	0.001
100-110	30.48-33.53	0.006	0.002
110-120	33.53-36.58	0.004	0.003
120-130	36.58-39.62	0.027	0.002
130-140	39.62-42.67	0.018	0.000
140-150	42.67-45.72	0.019	0.002

HIGHMONT OPERATING CORPORATION

HOLE #J-79-14

NORTH 78119.60

EAST 124899.73

ELEVATION 4830 approx.

AZM. --

DIP: VERTICAL

<u>FOOTAGE:</u>	<u>METERS:</u>	<u>CU %</u>	<u>MO %</u>
13-20	3.96-6.10	0.010	0.002
20-30	6.10-9.14	0.007	0.002
30-40	9.14-12.19	0.008	0.002
40-50	12.19-15.24	0.010	0.002
50-60	15.24-18.29	0.003	0.002
60-70	18.29-21.34	0.006	0.001
70-80	21.34-24.38	0.012	0.001
80-90	24.38-27.43	0.013	0.002
90-100	27.43-30.48	0.008	0.002
100-110	30.48-33.53	0.008	0.001
110-120	33.53-36.58	0.008	0.002
120-130	36.58-39.62	0.015	0.006
130-140	39.62-42.67	0.030	0.002
140-150	42.67-45.72	0.006	0.006
150-160	45.72-48.77	0.003	0.002
160-170	48.77-51.82	0.002	0.002
170-180	51.82-54.86	0.002	0.002
180-190	54.86-57.91	0.007	0.001
190-200	57.91-60.96	0.004	0.002
200-210	60.96-64.01	0.009	0.001
210-220	64.01-67.06	0.009	0.001
220-230	67.06-70.10	0.006	0.001
230-240	70.10-73.15	0.006	0.001
240-250	73.15-76.20	0.009	0.002
250-260	76.20-79.25	0.006	0.002
260-270	79.25-82.30	0.012	0.001
270-280	82.30-85.34	0.014	0.001
280-290	85.34-88.39	0.012	0.001
290-300	88.39-91.44	0.010	0.001
300-310	91.44-94.49	0.012	0.001
310-320	94.49-97.54	0.013	0.001
320-330	97.54-100.58	0.013	0.001
330-340	100.58-103.63	0.069	0.001
340-350	103.63-106.68	0.008	0.001
350-360	106.68-109.73	0.013	0.001
360-370	109.73-112.78	0.012	0.001
370-380	112.78-115.82	0.009	0.001
380-390	115.82-118.87	0.043	0.001
390-395	118.87-120.40	0.017	0.002

APPENDIX C: ROTARY DRILL HOLE LOGS

TEST HOLE LOG 1

VERTICAL SCALE		DATE DRILLED	REMARKS;
SAMPLE DATA		DRILL TYPE AIR ROTARY	
WEIGHT HANMER		ELEVATION GROUND	
WEIGHT DROP		CO ORD LOCATION N 78769.3 E 129324.1	
NO. OF BLOW NO.		DESCRIPTION OF MATERIAL	
10'	4'	<u>FILL</u> - site preparation.	
	10'	<u>SAND & GRAVEL</u> - silty Brown, dry.	
20'	19'	<u>SILT / SAND / GRAVEL</u> - grey wet (TILL LIKE - GLACIAL DRIFT)	
	27'	<u>SILT / SAND / GRAVEL</u> - occ. cobbles & boulders, grey. Dry to moist. (GLACIAL TILL)	21.3' 22.3' 23.0' — 24.6 (standpipe) 27.2' 27.7'
30'		<u>BEDROCK</u> - weathered, granitic.	34.1' 35.0' — 36.0' (pneumatic #1248) 33.5' (standpipe)
40'		END OF TEST HOLE @ 40'	



KLEINFELDER & ASSOCIATES, INC.
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JOB No. VA 1526

PROJECT HIGHMONT MINE

LOCATION TAILINGS POND

HOLE No. 2001

DATE Nov 1979 PLATE

TEST HOLE LOG

VERTICAL SCALE 5' 10' 15' 20'	DATE DRILLED 17/11/79 DRILL TYPE AIR ROTARY ELEVATION GROUND CO ORD LOCATION N7705 E130178	REISSONETER DETAILS	REMARKS:
SAMPLE DATA WEIGHT HAMMER WEIGHT DROP DEPTH ELEV.		DESCRIPTION OF MATERIAL	
SYMBOL		REMARKS:	
4' 6'		SILT - cobbles & boulders, dry to moist, brown 4.2' 5.1'	
6'		SILT/SAND/GRAVEL - occ. cobbles wet, grey (TILL LIKE - GLACIAL DRIFT) 8' (standpipe) 10.2' 11.5'	
4'-5' weathered		BEDROCK - granitic (Top 4'-5' weathered) 16' (standpipe)	
END OF TEST HOLE @ 20.4'			



TEST HOLE LOG 3

VERTICAL SCALE		DATE DRILLED	21/11/79	REMARKS:
SAMPLE DATA		DRILL TYPE	AIR ROTARY	
WEIGHT HAMMER	TURNS	ELEVATION GROUND		
WEIGHT DROP		COORD. LOCATION	75736 N 130651 E	
DEPTH O.B. ELEV.	NO.	DESCRIPTION OF MATERIAL		
		<u>SILT</u> - cobbles & boulders		
10'		6' <u>SILT/SAND/GRAVEL</u> occ. cobbles & boulders, brown, Moist, becoming wetter with depth. (GLACIAL TILL)		
20'				
30'				
40'				
50'				
60'				
70'				
80'		75' <u>BEDROCK</u> - weathered brown		
		76-0'		(pneumatic #1856)
		77-7'		79-4'
		78-6'		



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JOB No. VA 1526

PROJECT HIGHMONT MINE

LOCATION TAILINGS POND

HOLE No. 2003

DATE Nov. 1979 PLATE

TEST HOLE LOG 3

VERTICAL SCALE		DATE DRILLED 21/11/79		PERFORETER DETAILS	REMARKS;
SAMPLE DATA		DRILL TYPE AIR ROTARY			
WEIGHT HAMMER		ELEVATION GROUND			
WEIGHT DROP		COORD. LOCATION			
DEPTH	COR.	BLOWS	NO.	SYMBOL	DESCRIPTION OF MATERIAL
ELEV.	TR.	30 CM.			
90'					<u>BEDROCK</u> - weathered, brown.
100'					
110'					END OF TEST HOLE @ 102'



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JOB No. **VA 1526**
 PROJECT **HIGHMONT MINE**
 LOCATION **TAILINGS POND**
 HOLE No. **2003**
 DATE **NOV 1979** PLATE

TEST HOLE LOG

VERTICAL SCALE		DATE DRILLED 22/11/79		PEIZOMETER DETAILS	REMARKS:
SAMPLE DATA		DRILL TYPE AIR ROTARY			
WEIGHT HAMMER	SYMBOL	ELEVATION GROUND			
WEIGHT DROP		CO GND. LOCATION 74779 N 131139 E			
DEPTH ELEV. NO.		DESCRIPTION OF MATERIAL			
0' 10' 20' 30' 40' 50' 60' 70' 80'		2.5' SILT - occ. cobbles & boulders, light brown dry <u>SILT / SAND / GRAVEL:</u> Brown Dry becoming moister with depth Large number of cobbles & boulders (GLACIAL TILL)			
		34' <u>SILT / SAND / GRAVEL:</u> Grey Moist to wet occ. cobbles & boulders (GLACIAL TILL)			
		WATER LEVEL (79.7') (23/11/79)			



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JOB No. **VA 1526**
 PROJECT **HIGHMONT MINE**
 LOCATION **TAILINGS POND**
 HOLE No. **2004**
 DATE **NOV. 1979** PLATE **1 of 2**

TEST HOLE LOG

VERTICAL SCALE <hr/> SAMPLE DATA <hr/> WEIGHT HAMMER <hr/> WEIGHT DROP <hr/> DEPTH ELEV. 0.0 BLISS NO. FEET FEET GAUGE	DATE DRILLED 22/11/79 <hr/> DRILL TYPE <hr/> ELEVATION GROUND <hr/> CO. DHO. LOCATION <hr/> DESCRIPTION OF MATERIAL	PEIZOMETER DETAILS	REMARKS:
90' 100'	SYMBOL <div style="border: 1px solid black; padding: 5px; width: 40px; height: 40px; margin: 5px 0;"> 4.1 </div> 91' <p style="text-align: center;"><u>BEDROCK</u> - pinkish granodiorite hard dry</p>		
	END OF TEST HOLE @ 95'		



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JOB No. VA 1526
 PROJECT HIGHMONT MINE
 LOCATION TAILINGS POND
 HOLE No. 2004
 DATE NOV 1979 PLATE 2 of 2

TEST HOLE LOG 5

VERTICAL SCALE		DATE DRILLED 26/11/79		METER DETAILS	REMARKS;
SAMPLE DATA		DRILL TYPE AIR ROTARY			
WEIGHT HAMMER		ELEVATION GROUND			
WEIGHT DROP		CO ORD. LOCATION 73032 N 130703 E			
DEPTH ELEV.	O.D. I.D.	BLADE NO.	DESCRIPTION OF MATERIAL		
5'			1'	PEAT - occ. cobbles, black, fibrous organics	
			4'	SAND & GRAVEL - some silt grey (TILL LIKE - GLACIAL DRIFT)	
10'				BEDROCK - granitic grey	
15'				10.6'	
				11.9'	
20'				14.1' (standpipe)	
				16.4'	
				17.9'	
				19.0' (pneumatic #1860)	
25'				END OF TEST HOLE @ 22.5'	



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JOB No. VA 1526

PROJECT HIGHMONT MINE

LOCATION TAILINGS POND

HOLE No. 2005

DATE Nov. 1979 PLATE

TEST HOLE LOG 6

VERTICAL SCALE	DATE DRILLED 27/11/79	PEIZOMETER DETAILS	REMARKS;		
SAMPLE DATA	DRILL TYPE AIR ROTARY				
WEIGHT HAMMER	ELEVATION GROUND				
WEIGHT DROP	COORD. LOCATION 73978N 130 573 E				
DEPTH ELEV.	LOG LB.	BLINDS SPEC.	NO.	SYMBOL	DESCRIPTION OF MATERIAL
5'				[Symbol: Horizontal lines]	<u>FILL</u> - site preparation
				[Symbol: Wavy lines]	3' <u>PEAT</u> - occ. cobbles & boulders black, fibrous organics
10'				[Symbol: Dotted pattern]	6' <u>SILT/SAND/GRAVEL</u> - occ. cobbles & boulders. Moist to wet, becoming wetter with depth Brown (GLACIAL TILL)
15'				[Symbol: Dotted pattern]	
20'				[Symbol: Dotted pattern]	
25'				[Symbol: Dotted pattern]	
30'				[Symbol: Hatched pattern]	28' <u>BEDROCK</u> - granitic grey
35'				[Symbol: Hatched pattern]	
40'				[Symbol: Hatched pattern]	END OF TEST HOLE @ 38'



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JOB No. VA 1526

PROJECT HIGHMONT MINE



LOCATION TAILINGS POND

HOLE No. 2006

DATE Nov. 1979 PLATE

TEST HOLE LOG 7

VERTICAL SCALE	DATE DRILLED 27-28 / 11/79	PEIZOMETER DETAILS	REMARKS:
SAMPLE DATA	DRILL TYPE AIR ROTARY		
WEIGHT HAMMER	ELEVATION GROUND		
WEIGHT OPOP	DO CHD. LOCATION		

DEPTH ELEV.	TO TO	ELEV. SOFT	NO.	SYMBOL	DESCRIPTION OF MATERIAL	PEIZOMETER DETAILS	REMARKS
					BEDROCK - same as 75'		80.2' 83.7' 86.5' (pneumatic #1240)
90'					END OF TEST HOLE @ 88.5'		



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JOB No. VA 1526
 PROJECT HIGHMONT MINE
 LOCATION TAILINGS POND
 HOLE No. 2007
 DATE Nov. 1979 PLATE

TEST HOLE LOG

VERTICAL SCALE

SAMPLE DATA

WEIGHT RECOVER

WEIGHT DROP

DEPTH	D.D.	BLOCKS	NO.
ELEV.	15'	30'	

DATE DILLED 27/11/79

DRIILL TYPE AIR ROTARY

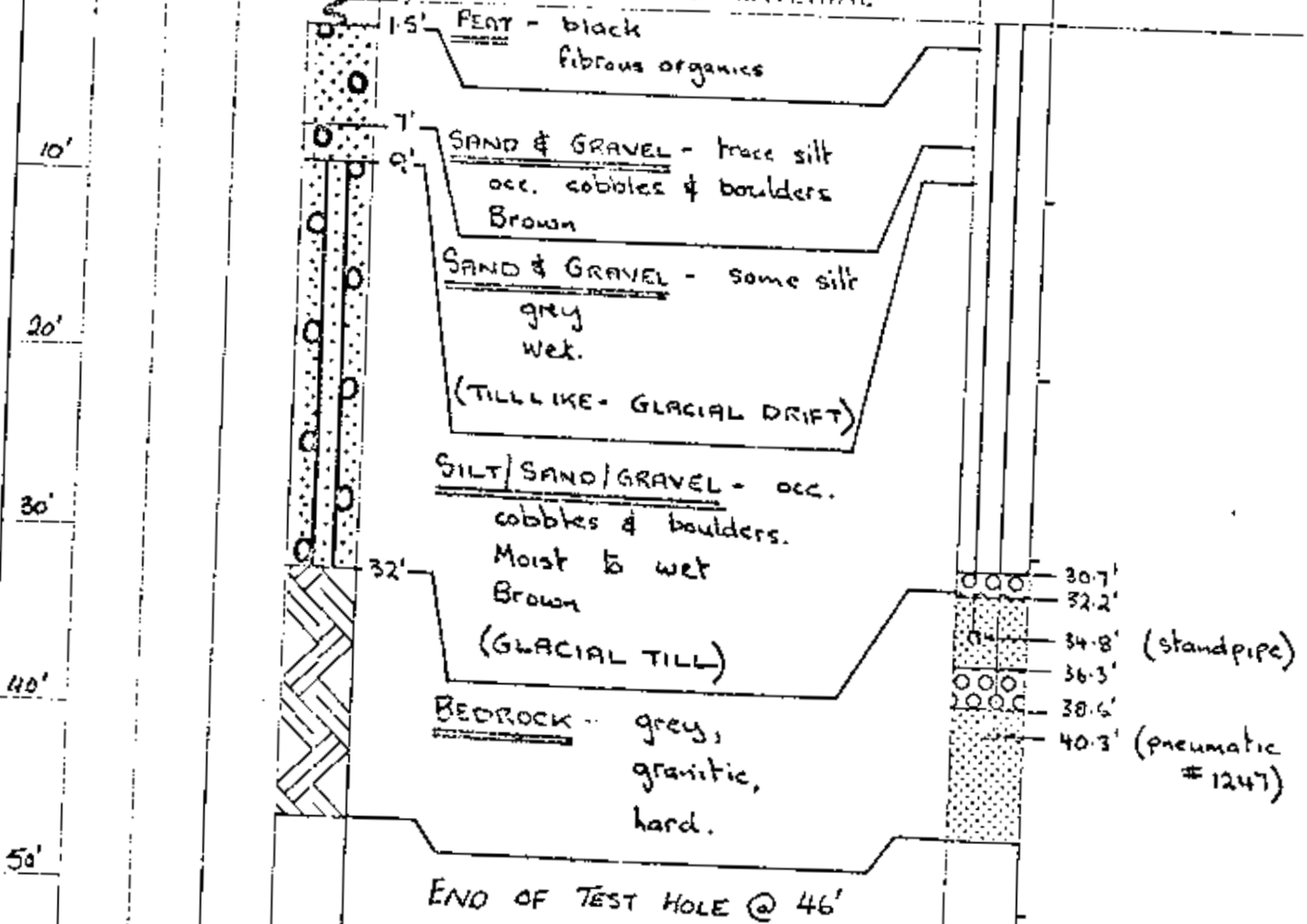
ELEVATION GROUND

GRID LOCATION 73690N 127856E

DESCRIPTION OF MATERIAL

PIEZOMETER
DETAILS

REMARKS;



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JOB No. VA 1526
PROJECT HIGHMONT MINE
LOCATION TAILINGS POND
HOLE No. 2008
DATE Nov 1979 PLATE

TEST HOLE LOG 9

VERTICAL SCALE		DATE DRILLED 30/11/79		PEIZOMETER DETAILS	REMARKS;
SAMPLE DATA		DRILL TYPE AIR ROTARY			
WEIGHT HAMMER		ELEVATION GROUND			
WEIGHT D-P		CO-ORD. LOCATION 73826 N 126711 E			
DEPTH	O.D.	BLOCKS	DESCRIPTION OF MATERIAL		
ELEV.	INCH	NO.			
5'			3'	2.5'	
			3.3'	3.3'	
10'			4.3'	4.3'	(standpipe)
			5.7'	5.7'	
15'			9'	9'	
				12.7'	
20'				13.3'	
				15.7'	
				18.2'	(standpipe)
			END OF TEST HOLE @ 19.3'		



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JOB No. VA 1526

PROJECT HIGHMONT MINE

LOCATION TAILINGS POND

HOLE No. 2009

DATE Nov 1979 PLATE

TEST HOLE LOG

VERTICAL SCALE SAMPLE DATA WEIGHT HAMMER WEIGHT DROP DEPTH ELEV.	DATE DRILLED 30/11/79 DRILL TYPE AIR ROTARY ELEVATION GROUND CO GRID LOCATION 79449N 129450E	PERZOMETER DETAILS 7.2' 9.5' 12.1' (standpipe) 13.8' 16.5' 18.0' (pneumatic #1245)	REMARKS; DESCRIPTION OF MATERIAL 4' <u>SILT</u> - some sand cobbles & boulders Dry Brown. 8' <u>SAND & GRAVEL</u> - some silt Grey Wet. (GLACIAL DRIFT) <u>BEDROCK</u> - grey, granitic.
5' 10' 15' 20'	END OF TEST HOLE @ 18.6'		



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JOB No. VA 1526
 PROJECT HIGHMONT MINE
 LOCATION TAILINGS POND
 HOLE No. 2010
 DATE NOV 1979 PLATE

TEST HOLE LOG

VERTICAL SCALE		DATE DRILLED 3/12/79		PERIMETER DETAILS	REMARKS;
SAMPLE DATA		DRILL TYPE AIR ROTARY			
WEIGHT HAMMER		ELEVATION GROUND			
WEIGHT DROP		COORD. LOCATION 78931 N 126571 E			
DR. TO ELEV.	O.D. IN.	BLANK NO.	DESCRIPTION OF MATERIAL		
5'			2'		
5'			5'		
10'			7'		
15'					
20'				11.2' 11.3' 13.7' (standpipe) 14.4' 17' 18.3' (pneumatic # 1244)	
END OF TEST HOLE @ 20'					



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JOB No. **VA 1526**
 PROJECT **HIGHMONT MINE**
 LOCATION **TAILINGS POND**
 HOLE No. **2011**
 DATE **DEC 1979** PLATE

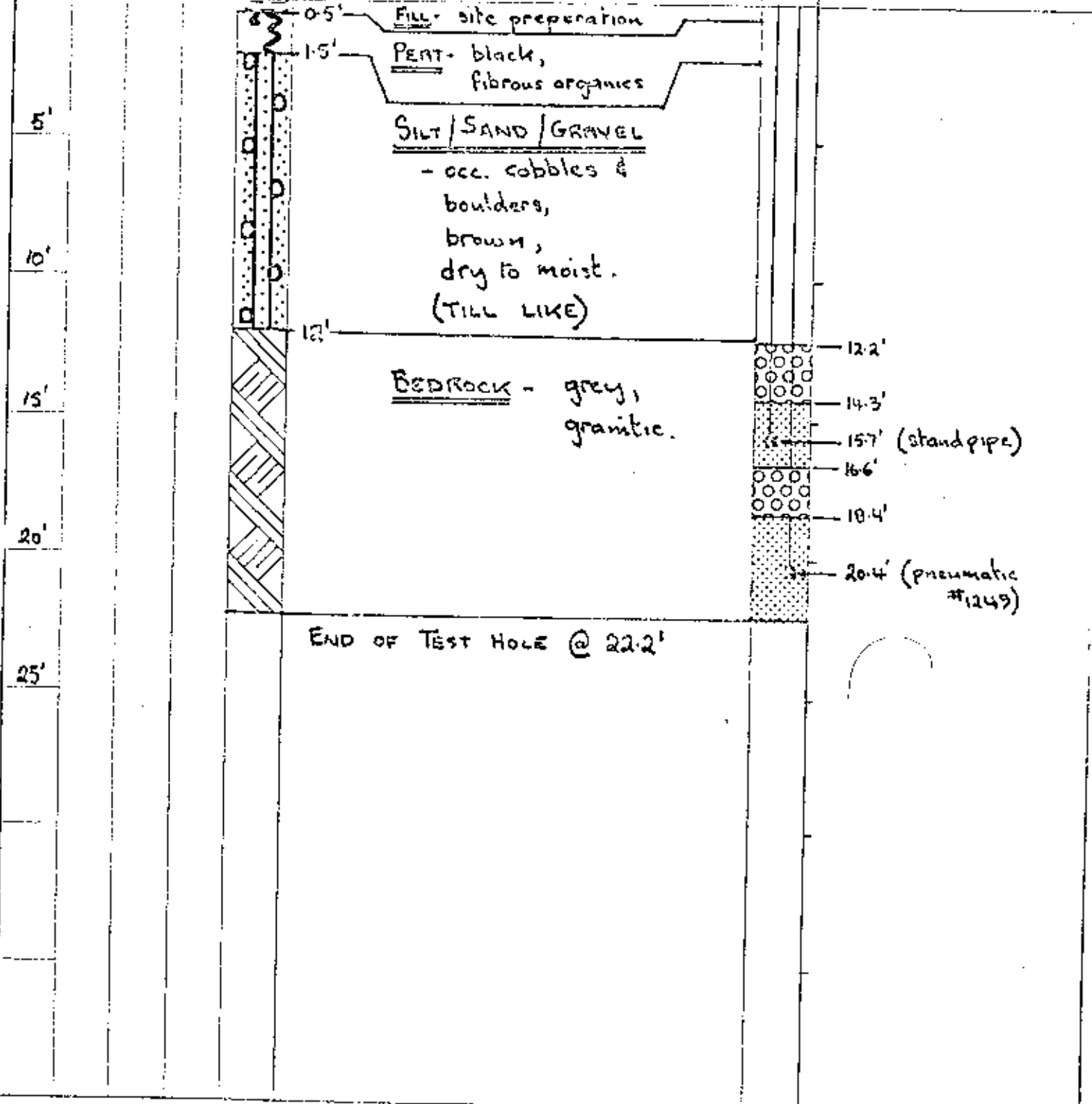
TEST HOLE LOG

VERTICAL SCALE
 SAMPLE DATA
 WEIGHT HAMMER
 WEIGHT DROP
 DEPTH: 0.0' BLOW'S
 ELEV: 19' 30 CM NO.

DATE DRILLED **4/12/79**
 DRILL TYPE **AIR ROTARY**
 ELEVATION GROUND
 GRID LOCATION **T8065N 124740E**

REMARKS:
 PERFO-METER
 DETAILS

DESCRIPTION OF MATERIAL



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JOB No. VA 1326
 PROJECT HIGHMONT MINE
 LOCATION TAILINGS POND
 HOLE No. 2012
 DATE DEC 1979 PLATE

APPENDIX D: ROTARY & CHURN DRILL LOGS

APPENDIX D

HIGHMONT OPERATING CORPORATION

HOLE NO. PW-2 (60 cm diameter churn drill hole)
NORTH: 89850
EAST: 134780
ELEVATION: 3884.5 (1184 m)
DIP: -90°

Cuttings Log

Depth (metres)

0	-	1.83	Interbedded clay and fine sand.
1.83	-	17.07	Till.
17.07	-	22.25	Sandy clay and silt.
22.25	-	22.86	Silty gravel, water.
22.86	-	35.36	Compact till.
35.36	-	42.67	Interbedded clay, silt, sand and boulders.
42.67	-	71.32	Compact clayey silt interbeds.
71.32	-	75.59	Compact silty gravel.
75.59	-	83.82	Soft clayey silt.
83.82	-	86.87	Compact sand.
86.87	-	89.31	Sandy clay.
89.31	-	90.83	Compact sand.
90.83	-	107.9	Silty sand, some gravel, water.
107.9	-	116.13	Sandy till.
116.13	-	116.74	Silty sand and gravel, water.
116.74	-	133.81	Compact silty sand and boulders, gravel interbeds.
133.81	-	134.42	Hard till.

APPENDIX D

HIGHMONT OPERATING CORPORATION

HOLE NO. PW-3A (20 cm diameter rotary hole)
NORTH: 87570
EAST: 133800
ELEVATION: 3849 (1173.18 m)
DIP: -90°

Cuttings Log

Depth (metres)

0 - 2.44	Silt.
2.44 - 3.66	Boulders.
3.66 - 7.01	Brown clay.
7.01 - 16.15	Till and boulders.
16.15 - 22.86	Till with water bearing stringers, static water level 40 feet.
22.86 - 28.96	Till.
28.96 - 29.26	Brown silt.
29.26 - 33.83	Till.
33.83 - 35.05	Boulders.
35.05 - 47.55	Till.
47.55 - 51.82	Silt, sand and clay.
51.82 - 66.14	Silty soft clay.
66.14 - 71.63	Fine to medium sand, water bearing.
71.63 - 74.68	Fine to coarse sand, fine gravel, water bearing.
74.68 - 81.38	Clean gravel, water bearing.
81.38 - 83.21	Silt.
83.21 - 86.26	Clean gravel, water bearing.
86.26 - 90.83	Fine to medium sand, silty.
90.83 - 96.93	Sand and gravel, water bearing.
96.93 - 98.15	Gravel, water bearing, static water level 32 feet.
98.15 - 103.63	Till and water bearing stringers.
103.63 - 104.24	Sand and gravel, water bearing.
104.24 - 106.68	Sandy clay.
106.68 - 106.83	Sand and gravel, water bearing.
106.83 - 115.82	Black clay.
115.82 - 134.11	Sandy gray clay, total depth.

APPENDIX D

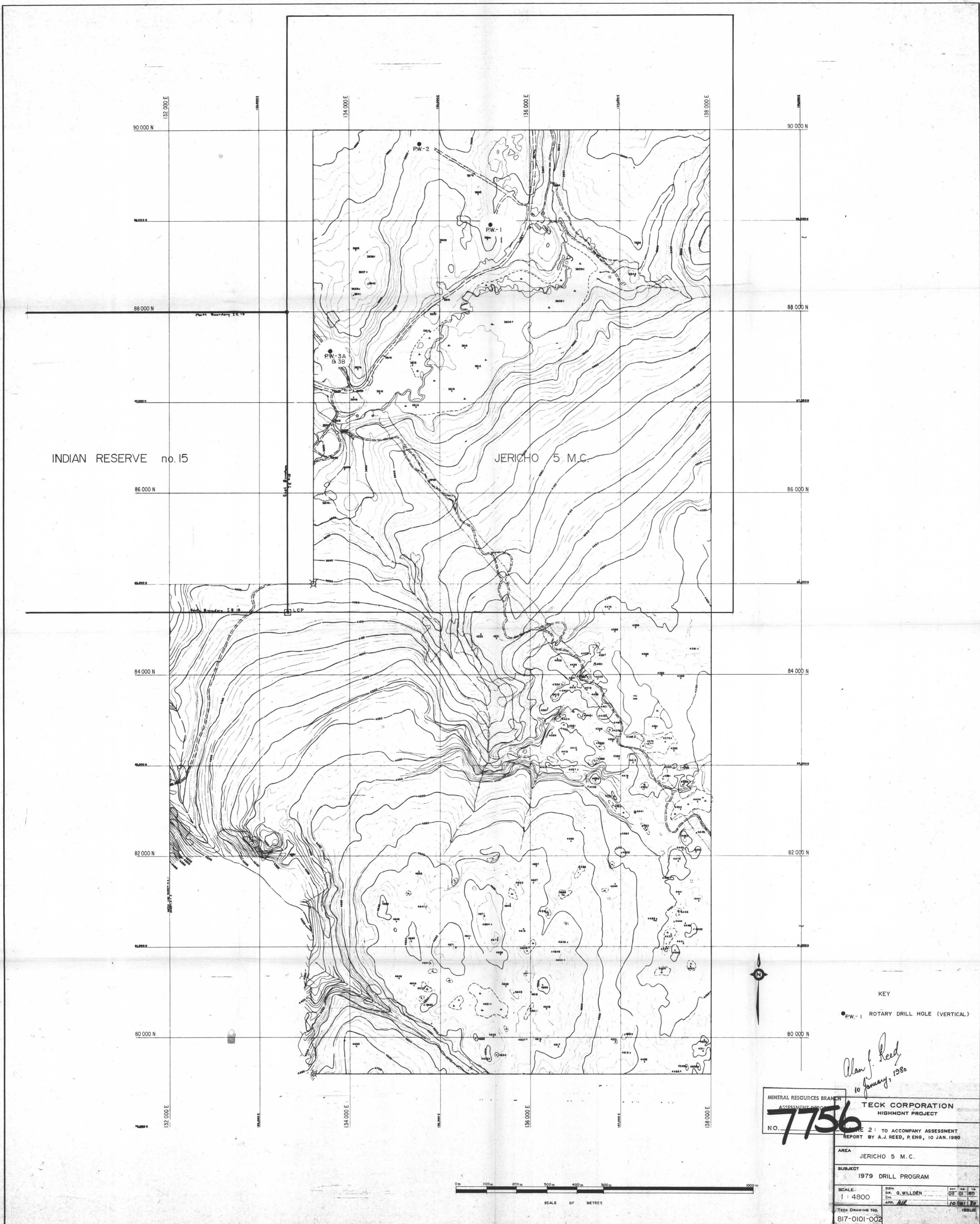
HIGHMONT OPERATING CORPORATION

HOLE NO. PW-3B (60 cm diameter churn drill hole)
NORTH: 87567
EAST: 133793
ELEVATION: 3849.2 (1173.24 m)
DIP: -90°

Cuttings Log

Depth (metres)

0 - 0.91	Clay.
0.91 - 2.44	Till.
2.44 - 6.71	Silty clay.
6.71 - 14.33	Till.
14.33 - 14.48	Gravel, water bearing.
14.48 - 15.24	Boulders.
15.24 - 18.9	Silty sand and gravel.
18.9 - 22.56	Till.
22.56 - 23.16	Compact sand.
23.16 - 50.29	Till.
50.29 - 71.32	Clay and silt with cobbles.
71.32 - 78.03	Coarse clean gravel with much fine sand.
78.03 - 80.77	Coarse gravel with some sand.
80.77 - 81.69	Fine to coarse gravel and sand.
81.69 - 85.04	Fine to coarse gravel grading to sandy gravel.
85.04 - 88.09	Coarse gravel.
88.09 - 89.92	Sand and gravel.
89.92 - 102.41	Fine to coarse sand with silt, odd pebbles and boulders.
102.41 - 103.02	Till, total depth.



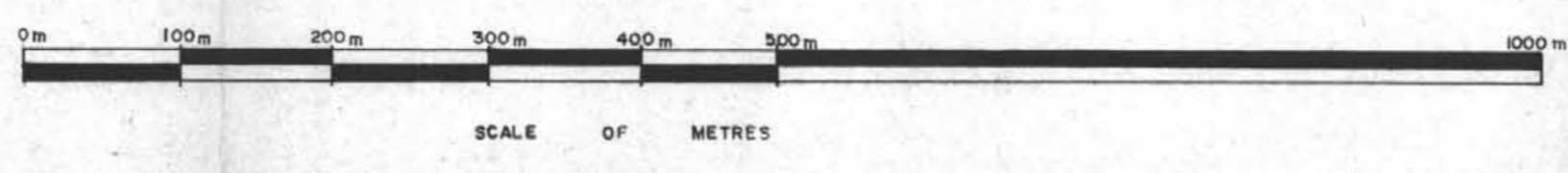
INDIAN RESERVE no. 15

JERICHO 5 M.C.

KEY
 ● PW-1 ROTARY DRILL HOLE (VERTICAL)

Alan J. Reed
 10 January, 1980

MINERAL RESOURCES BRANCH ASSESSMENT DEPARTMENT		TECK CORPORATION HIGHMONT PROJECT	
NO. 7756		SHEET 2: TO ACCOMPANY ASSESSMENT REPORT BY A.J. REED, P. ENG., 10 JAN. 1980	
AREA JERICHO 5 M.C.			
SUBJECT 1979 DRILL PROGRAM			
SCALE 1 : 4800	DRN. DR. G. WILLDEN	DATE 08 01 80	APP. AW
TECK DRAWING NO. 817-0101-002		ISSUE	



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D
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B
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