ASSESSMENT REPORT

DIAMOND DRILLING

on the

RED CAP CLAIMS

Taku River Area
Atlin Mining Division

Cap #2 and Cap #4 Claims

N.T.S. Maps 104K-11W & E, 14W

58°44'N, 133°17'W

Owner

OMNI RESOURCES INC.

900 - 475 Howe Street
Vancouver, B.C.
V6C 2B3

by

Terence M. Elliott, M.S.

Geologist

11 June 1982

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INTRODUCTION

As a result of an extensive soil sampling project on the Red Cap claims in 1980, large anomalies of copper, gold, molybdenum and silver were discovered. During the summer of 1981 a diamond drilling program was initiated to test the anomalous areas for the possibility of locating a large-tonnage body of porphyry copper-molybdenum-gold mineralization.

Drilling commenced July 23, 1981 and terminated September 4, 1981.

LOCATION AND ACCESS

The property is on the southeast side of the Taku River, approximately 120 km south of Atlin, B.C. and 75 km east of Juneau, Alaska. It is located at N.58°44', W.133°17', along the western flanks of Mt. Lester Jones (see Figure 1). Elevations in the area of the geochemical anomalies vary from 800 metres at Red Cap Lake to over 1800 metres on top of the ridge west of Mt. Lester Jones.

Access is from Whitehorse or Atlin by fixed wing airplane to a gravel airstrip that is located near Tulsequah approximately 16 km southwest of the property. Alternatively, a float plane can land on the Taku River approximately 4 km west of the heart of the property. A helicopter can then fly from these points to the showings and drill sites.

Our camp was located northwest of Mount Ogden at Border Lake, about 27 km south of the Red Cap claims. Personnel were flown daily in a Hughes 500D helicopter to and from the drill sites.

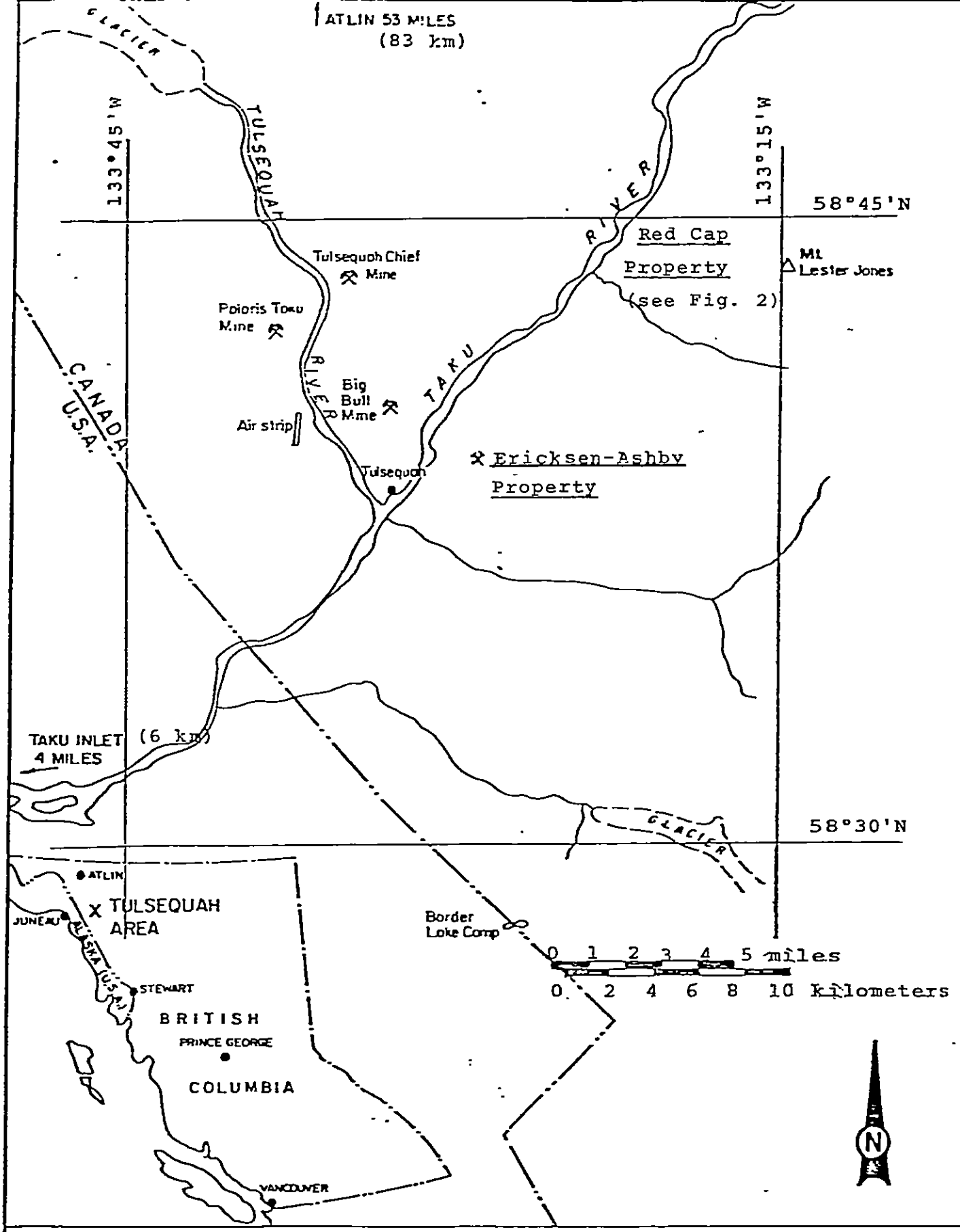


FIGURE 1

Area Location Map

Omni Resources Inc.

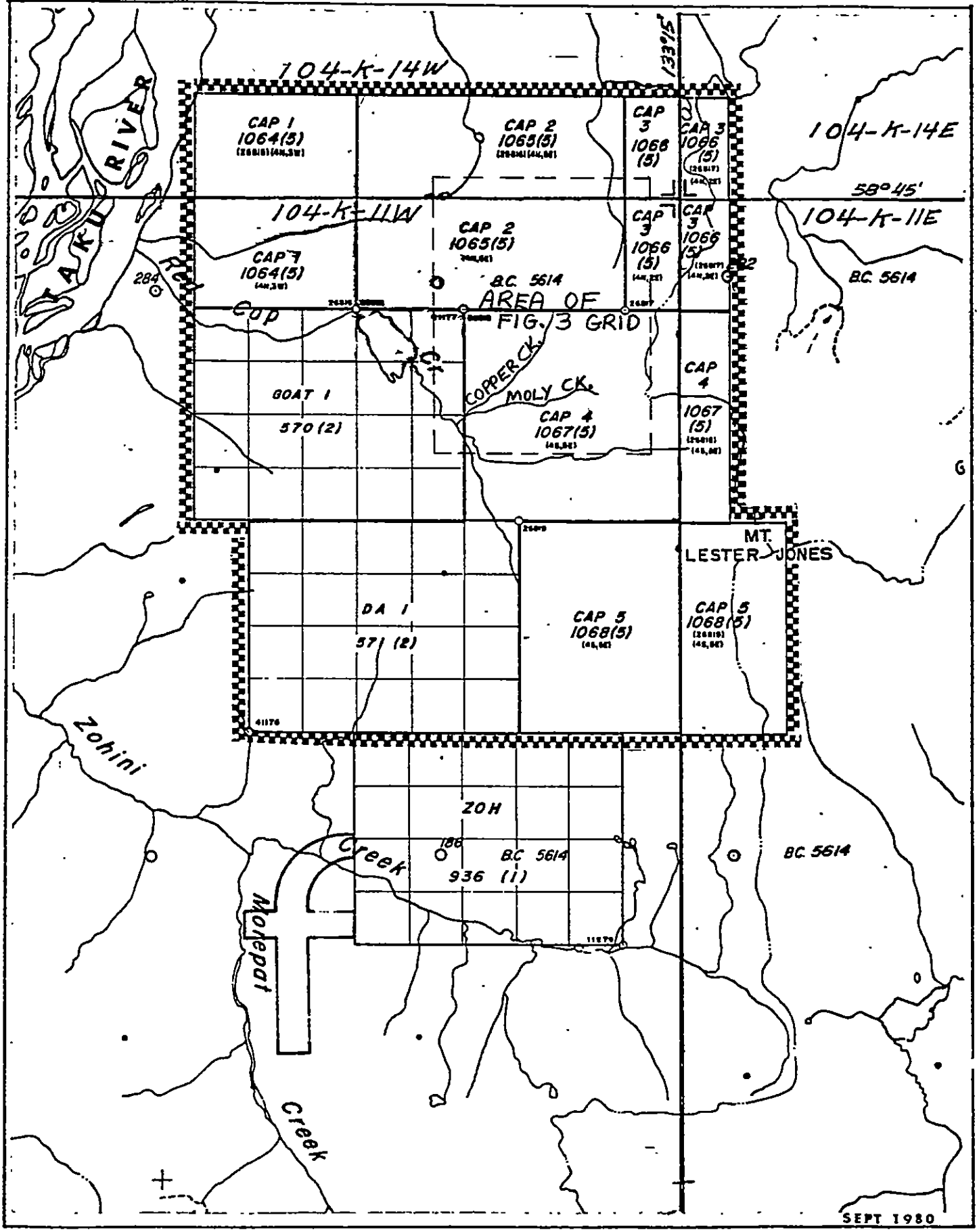
Red Cap Project

TULSEQUAH B.C..AREA

Late 1920's	Assayable gold, silver and base metals discovered in the present claim area as reported in the 1930 and 1931 Minister of Mines Annual Reports.
1946	An unknown prospector (?) staked a claim bearing an initial claim post tag numbered 149450.
1959, 1960	J.G. Souther of the Geological Survey of Canada (reported in G.S.C. Memoir 362) mapped veins containing sphalerite, galena, chalcopyrite and arsenopyrite in a large area of pyritization, silicification and carbonate alteration.
1970	The property was staked as the "Lynne" claims by Archer and Cathro Ltd. for the Cordero Mining Co. (Sun Oil Co.). Soil, rock and silt sampling outlined some anomalous areas.
1971	Five short (deepest hole was 24 feet) x-ray drill holes failed to penetrate the surface oxidation zone. Molybdenum was found to be present in geochemically significant amounts.
1979	The Goat #1 and DA #1 claims were staked southwest of the main Red Cap showing area.
1980	A soil sampling program resulted in the discovery of strong copper, molybdenum, silver and gold anomalies in an area of over 2.5 square kilometres. Among other Cap group claims, the Cap #2 and Cap #4 claims were staked. Independent geological consultants H. Wahl and G. Rayner each spent approximately 2 weeks mapping different portions of the main zone geochemical anomaly outcrops. H. Wahl recommended a minimum of 7,500 feet of diamond drilling to test the mineralized zone.

CLAIMS AND OWNERSHIP (see Figure 2)

The Cap #2 and Cap #4 claims are wholly owned by Omni Resources Inc. The following list gives pertinent data on the claims:



RED CAP CLAIMS - LOCATION MAP

Metres 1000 500 0 1000 2000 3000 Metres

Kilometres 1 .5 0 1 2 3 Kilometres

FIG. 2

CLAIM	RECORD NO.	UNITS	DATE RECORDED	EXPIRY DATE
Cap #2	1065	20	14 May 1980	14 May 1983
Cap #4	1067	20	14 May 1980	14 May 1983

DRILL HOLE SUMMARY

PURPOSE and PROPERTY GEOLOGY

The purpose of the 1981 drill program was to discover a porphyry copper-molybdenum-gold-silver ore body in the area previously outlined as containing highly anomalous metal-bearing soil samples.

The Red Cap claims are located in a northwest-trending belt of Upper Triassic Stuhini Group volcanic rocks. In the area of anomalous soil geochemistry, these volcanics are acid in composition, whereas Geological Survey of Canada mapping elsewhere in the Tulsequah area has indicated that the Stuhini Group volcanics are andesites and basalts.

G. Rayner has mapped an area coincident with the soil geochemical anomaly which is strongly hornfelsed and weakly mineralized. H. Wahl has mapped the same area as a zone of strong silicification and pyritization of Stuhini(?) rhyolites.

Locally, G. Rayner has mapped areas of brecciation of two types: shatter brecciation near grid coordinates 1045 N. and 1100 W., and a pyritized diatreme breccia which is poorly exposed around 1050 N. and 1140 W.

The Stuhini(?) rhyolites and dacites have been intruded by several igneous rock units. The unit of largest areal extent is a granodiorite to quartz monzonite body which lies along the northwest side of the soil geochemical anomaly. This intrusive body is clearly post-mineralization in age and dykes of it cut Stuhini(?) volcanics along the contact. Other late stage andesite and trachyte dykes also cut the altered rhyolites and dacites.

A small intrusive body which contains disseminated pyrite lies north of drill holes RC81-3, 4, 6 and 7. This diorite porphyry is also later than the mineralizing event.

The 1981 drilling indicated that there are also other small intrusive bodies cutting the acid volcanic sequence. Hence G. Rayner has coined the name for this area as "the Red Cap igneous center" which has "produced a fairly typical volcanic-type porphyry copper event."

WORK DONE

Between July 23 and September 4, 1981, a total of 1203.6 metres (3948 feet) of NQ drilling was completed at 4 drill sites. Seven holes were drilled to depths ranging from 132.3 to 260.0 metres.

Holes RC-1 and 2 were drilled by Arctic Diamond Drilling Company's Longyear 38 drill. Holes RC-3 to 7 were drilled by Arctic Diamond Drilling Co. personnel operating a Longyear Super 38 drill owned by Berglynn Developments Ltd.

All drill sites are natural benches to which a helicopter can readily transport the drills and personnel. Rototech Helicopters of Delta, B.C. contracted a Hughes 500D helicopter to Omni Resources Inc. for the summer's work. Drillers and other personnel were transported daily to the drill sites from Omni's base camp at Border Lake to the south.

DRILL HOLE SPECIFICATIONS

July-September 1981

Drill Hole	Location	Elevation (m)	Azimuth	Dip	Depth (m)	Total (m)
RC81-1	1080N 1090W	1715	123°	-55°	184.7	184.7
RC81-2	1080N 1090W	1715	300°	-60°	152.4	337.2

Drill Hole	Location	Elevation (m)	Azimuth	Dip	Depth (m)	Total (m)
RC81-3	1004N 1086W	1375	020°	-60°	260.0	597.3
RC81-4	1004N 1086W	1375	197°	-60°	154.0	715.3
RC81-5	1016N 1066W	1475	030°	-60°	152.4	867.7
RC81-6	1010N 1110W	1240	008°	-54°	167.6	1071.3
RC81-7	1010N 1110W	1240	188°	-55°	132.3	1203.6

CORE STORAGE LOCATION

Core from the Red Cap property drilling was flown to the camp at Border Lake where it was logged and stored. The core shack is located at the north side of camp immediately southeast of the heliport. Red Cap core is stored in the east rack nearby core from Island Mining & Exploration Co. Ltd. core from the Ericksen-Ashby property.

RESULTS, INTERPRETATIONS, AND CONCLUSIONS

DDH RC81-1 (see Drill Logs and Soil Survey Grid and Drill Hole Location Map)

Hole RC81-1 cut 184.7 metres of rhyolitic tuffs and tuff breccias which have been intruded by altered feldspar porphyry dykes. The largest of these dykes has an apparent thickness of 21.6 metres (128.8-150.4 m) and is locally silicified and carbonitized. The hole was terminated in a dyke containing 0.1-0.25% pyrite and minor pyrrhotite and arsenopyrite.

Alteration of the rhyolite pyroclastics includes locally pervasive sections of phyllic and propylitic zones alternating with zones of nearly fresh rhyolite. Quartz veining is only locally strong over sections of 1-4 metres.

One section of assayable copper-silver mineralization was intersected in a zone of 3 small feldspar porphyry dykes cutting rhyolite. From 96.3-99.4 m the core assays 0.20% copper and 0.38 oz/ton silver, from 99.4-102.4 m the core

assays 2.95% copper and 3.30 oz/ton silver, and from 102.4-105.5 m the core assays 1.65% copper and 1.59 oz/ton silver (see Appendix III for Assay Results). Visible mineralization includes chalcopyrite, chalcocite, pyrite, and minor arsenopyrite.

Rock geochemical analyses of copper indicate anomalous values. Molybdenum is anomalous from 148 metres to the end of the hole.

DDH RC81-2

Hole RC81-2 cut 152.4 metres of rhyolite tuff and lapilli tuff which has been intruded by altered feldspar porphyry, andesite porphyry, and quartz monzonite to granodiorite. From 118.9-143.9 metres, the rock is an interesting breccia of altered quartz monzonite fragments in a dark gray pyrite, pyrrhotite and chlorite-rich siliceous matrix. A few rhyolite and quartz monzonite fragments contain quartz-pyrite-molybdenite veinlets or hairline molybdenite veinlets.

Pyrite veining is common throughout the hole, but quartz veining is only common between 77 and 105 metres. Chlorite veining and alteration is moderate from 103 metres to the end of the hole, but phyllic alteration is rare (cf. hole RC81-1).

Hole RC81-2 rock geochemical analyses for copper are anomalous over large sections of core. In addition, molybdenum is anomalously high from 122 metres to the end of the hole. These results are similar to the rock geochemistry in hole RC81-1.

DDH RC81-3

Hole RC81-3 intersected a diverse section of igneous rock types. From the collar down to 196 metres the rock contains a low grade intersection of molybdenite mineralization as well as anomalous copper mineralization (see Appendix III

for Assay Results). The molybdenite is found in quartz-molybdenite veins, in association with K-feldspar selvages and veins, and along fractures.

Host rocks for the mineralization are felsite, weakly altered granodiorite, felsite porphyry and granite breccia. From 196 metres to the end of the hole a quartz monzonite porphyry which is post-mineralization cuts off the interesting section above.

DDH RC81-4

Two main rock types were intersected in hole RC81-4: granodiorite to 45 metres in apparent depth and andesite-dacite porphyry for the remainder of the drill hole. Sections of the latter rock type are a breccia.

Propylitic (chlorite-epidote-calcite) alteration is common in this drill hole. Veinlets and fractures associated with this grade of alteration are chlorite-pyrite-calcite, chlorite-epidote-calcite, chlorite, and pyrite.

In hole RC81-4 molydenite fracture coatings or molybdenite-quartz veins are common, but wide-spaced. Drill core rock geochemistry gave results of anomalous copper and molybdenum, but there are no near-economic grades.

DDH RC81-5

Drill hole RC81-5 cut a sequence of rhyolite-dacite to 114 metres in apparent depth. Thereafter to the end of the hole, the rocks were andesite-dacite porphyry similar to rock encountered in hole RC81-4.

Throughout this hole there were scattered veinlets of quartz, calcite, chlorite and pyrite. In addition, the

following combinations of veinlet type were noted: pyrite-chlorite-calcite, chlorite-calcite, chlorite-pyrite, and quartz-pyrite-molybdenite.

Rock geochemical analyses indicate anomalous values in copper and molybdenum; however, no oregrade intersections were made.

DDH RC81-6

Hole RC81-6 intersected 167.6 metres of granodiorite porphyry which contains phenocrysts of biotite and feldspar.

Molybdenite veinlets and quartz-molybdenite veinlets were common throughout the hole. Alteration of fractures and veinlet development is predominantly propylitic. Veins and veinlets are various combinations of quartz, k-feldspar, epidote, calcite, chlorite, pyrite, biotite, gypsum, anhydrite and molybdenite.

As in other holes on the property, hole RC81-6 is anomalous in both copper and molybdenum.

DDH RC81-7

Hole RC81-7 intersected 92.6 metres of intermediate volcanic rocks cut by a total of 26 metres of granodiorite dykes, and 14 metres of amygdaloidal andesite dykes. The host volcanics include dacite breccia, andesite-dacite breccia, and andesite-dacite.

Mineralization is weak in this hole. Only sparse molybdenite was observed; most of the mineralization consists of disseminated, fracture, and veinlet pyrite.

Rock geochemical analyses of core show anomalous values in copper, but molybdenum values are less than those found in holes RC81-3 to 6.

In summary, the 1981 drill holes intersected a large zone of propylitic alteration characterized by chlorite, epidote, calcite, pyrite and quartz on fractures and in veinlets. In addition, some holes intersected K-feldspar fracture selvages which may be leakage from a higher grade alteration core.

The principal ore mineral observed extensively in holes RC81-3 to 6 was molybdenite. Molybdenum and copper rock geochemistry of the drill holes indicates a widespread anomalous metal halo which may be the propylitic alteration zone of a large porphyry mineral deposit.

It is the writer's interpretation, however, that deeper drill holes may be warranted to find an orebody. G. Rayner, geologist consultant, has suggested that the main target area between drill holes 1 and 2 to the north and 3-7 to the south has not yet been drilled. This conclusion seems to the writer to be a well-grounded one. In order to accomplish this proposal, drill sites will have to be blasted out of the steep hillside of this target area.

As hole RC81-1 intersected 6.1 metres of ore grade copper-silver mineralization, at least one hole should be drilled to intersect this zone at a deeper level. This zone may be the leakage from a major system of mineralization. Two things were encouraging about this intersection: (1) its high grade of copper and (2) the presence of good grade silver; hence, an associated porphyry copper system may be rich in silver and possibly, gold.

Both holes RC81-1 and 2 are cut by feldspar porphyry dykes which may be associated with a deep, large feldspar porphyry intrusive system which could be extensively mineralized.

APPENDIX I

COST STATEMENT

and

DRILLING BILLS

Red Cap Property

Statement of Costs

(1212 m) July 16 - Sept. 6, 1981

1.	Drilling		
	Invoice #2217	$ 31,818.80	
	Invoice #2226	25,879.40	
	Invoice #2237	70,874.34	
	Deduct Credits	(27,793.07)	
	Arctic Diamond Drilling		$ 100,779.47
2.	Helicopter		
	238.4 hours @ $324.00/hr	77,241.60	
	Fuel 238.4 hours X 22 gal/hr X 3.90 gal	20,454.72	97,696.32
3.	Salaries		
	G. Clouthier, geologist 20 days @ 125	2,500.00	
	T. Elliott, geologist 29 days @ 140	4,060.00	
	B. Hemingway, geologist 53 days @ 110	5,830.00	
	K. Orleski, manager 20 days @ 100	2,000.00	
	D. Bergvinson, assistant 49 days @ 55	2,695.00	
	M. Kamras, assistant 46 days @ 55	2,530.00	
	R. Schmidt, prospector 25 days @ 80	2,000.00	
	D. Schmidt, assistant 25 days @ 65	1,625.00	
	W. Colwell, assistant 15 days @ 65	975.00	
	R. Merrell, assistant 23 days @ 65	1,495.00	
	C. Doulet, cook 53 days @ 75	3,975.00	
		29,685.00	
	+ 15% fringe	4,452.75	
			34,137.75
4.	Camp costs		
	Food - 4 drilling contractors, pilot & salaried employees	12,601.86	
	Fuel - drill and camp fuel	9,292.50	
	Camp supplies and set up	10,842.00	
	Fixed wing support	10,037.67	42,774.33

5.	Assaying, shipping and thin sections Analysis of 580 samples for Cu, Ag, Au, Mo and Zn.	9,493.52
6.	Travel To and from work site	4,403.00
7.	Drafting and report preparation	1,500.00
		$ 290,784.39

ARCTIC DIAMOND DRILLING LTD.

184 Industrial Road, Whitehorse, Yukon Y1A 2V1 (403) 667-6434

INVOICE # 2217
August 7, 1981

Island Mining and Explorations Co. Ltd.
900-475 Howe Street,
Vancouver, B.C.
V6C 2B3 OMNI Red Cap

Drilling charges for the period ended 31 July 1981

Hole #RC-81-1-55'xNQ			
MOVING			
110 Man hours @24.00 per hour	2640.00		
Standby - Fogged In			
145 Man hours @ 24.00 per hr	3480.00	6120.00	
Overburden			
0-13=13ft @ 20.80 per ft		270.40	
Core Drilling			
13-600=587ft @ 20.80 per ft.	12209.60		
600-606=6ft @ 21.80 per ft	130.80	12340.40	
Travel Time			
6 Man hours @ 24.00 per hr.		144.00	
Standby- Fog			
42 Man hours @ 24.00 per hr.		1008.00	19882.80
Hole #RC-81-2-60'xNQ			
Moving			
30 Man hours 2 24.00 per hr		720.00	
Overburden			
0-12=12ft @20.80 per ft.		249.60	
Core Drilling			
12-500=488ft @ 20.80 per ft.		10150.40	
Travel Time			
1 Man hour @ 24.00 per hr.	480.00		
Standby -Cooking			
13 Man hours @ 24.00 per hr.	312.00	792.00	11936.00
			31818.80

ARCTIC DIAMOND DRILLING LTD.

184 Industrial Road, Whitehorse, Yukon Y1A 2V1 (403) 667-6434

INVOICE # 2226

September 2, 1981.

IN ACCOUNT WITH:

Island Mining And Exploration Co. Ltd.
Suite 900-475 Howe Street
Vancouver, B.C.
V6C 2B3

Drilling Charges for the Period Ended 15 August 1981.

Hole #RC-81-3-60'xNQ			
Moving			
145 Man hours @ 24.00 per hr.		3480.00	
Overburden			
0-35=35ft @ 20.80 per ft.		728.00	
Reaming Casing			
35-41=6ft @ 12.00 per ft.		72.00	
Core Drilling			
35-600=565ft @ 20.80 per ft.	11752.00		
600-853=253ft @ 21.80 per ft.	5515.40	17267.40	
Reaming Through Cave			
2 Man hours @ 24.00 per hr.	48.00		
1 Machine hour @ 12.00 per hr.	12.00	60.00	
Travelling Time			
20 Man hours @ 24.00 per hr.		480.00	
Standby-Fogged In			
116 Man hours @ 24.00 per hr.		2784.00	24871.40
Moving to Next Hole			
16 Man hours @ 24.00 per hr.			384.00
Moving Drill From Camp to Zohini to Airstrip			
26 Man hours @ 24.00 per hr.			624.00
			25879.40

ARCTIC DIAMOND DRILLING LTD.

184 Industrial Road, Whitehorse, Yukon Y1A 2V1 (403) 667-6434

Invoice # 2237
October 19, 1981

IN ACCOUNT WITH:

Island Mining & Explorations Co. Ltd.
900 475 Howe Street
Vancouver, B.C.
V6C 2B3

Drilling charges for the period ended 6 September 1981.

Hole #RC-81-4-60'xNQ			
Moving			
16 Man hours @ 24.00 per hour		384.00	
Overburden			
0-32=32ft @ 20.80 per ft.		665.60	
Reaming Casing			
32-50=18ft @ 12.00 per ft.		216.00	
Core Drilling			
32-509=477 ft @ 20.80 per ft.		9921.60	
Lack of Water			
1 Man hour @ 24.00 per hour		24.00	
Travelling Time			
6 Man hours @ 24.00 per hr.		144.00	11355.20
Hole # RC - 81 - 5 - 60' x NQ			
Moving			
80 Man hours @ 24.00 per hr.		1920.00	
Overburden			
0-20=20ft @ 20.80 per ft.		416.00	
Core Drilling			
20-500=480ft @ 20.80 per ft.		9984.00	
Travelling Time			
6 Man hours @ 24.00 per hr.		144.00	
Standby - Waiting for Geologist			
15 Man hours @ 24.00 per hr.	360.00		
Standby-waiting to Move			
16 Man hours @ 24.00 per hr.	384.00	744.00	13208.00
		c/fwd.....	24563.20

b/fwd.....		24563.20
Hole #81-RC-6-55'xNQ		
Moving		
93 Man hours @ 24.00 per hr.	2232.00	
Overburden		
0-64=64ft @ 20.80 per ft.	1331.20	
Core Drilling		
64-550=486ft @ 20.80 per ft.	10108.80	
Travelling Time		
8 Man hours @ 24.00 per hr.	192.00	
Standby		
5 Man hours @ 24.00 per hr.	120.00	13984.00
Hole # RC-81-7-55'xNQ		
Moving		
51 Man hours @ 24.00 per hr.	1224.00	
Overburden		
0-30=30ft @ 20.80 per ft.	624.00	
Reaming Casing		
30-32=2ft @ 12.00 per ft.	24.00	
Core Drilling		
30-436=406ft @ 20.80 per ft.	8444.80	
Reaming through Cave		
10 Man hours @ 24.00 per hr. 240.00		
5 Machine hrs @ 12.00 per hr. N/C	240.00	
Travelling Time		
6 Man hours @ 24.00 per hr.	144.00	
Standby - No Night Shifts		
48 Man hours @ 24.00 per hr.	1152.00	11852.80
Demobilization		
Re Clause 12 of Contract.		
½ x 2136.00	1068.00	
Packing Up & Moving Out		
18 Man hours @ 24.00 per hr.	432.00	1500.00
c/Fwd.....		51900.00

B/Fwd.....		51900.00
Use of Mud- RC 81 Holes		
9 Pails Polydrill 330	1435,50	
1 Bag Quick gel	14.00	
3 Boxes Quik troll	300.96	
90 Man hours @ 24.00 per hr.	2160.00	
45 Machine hrs @ 12.00 per hr.	n/c	3910.46
Equipment Left At Border Lake		
to be Paid for as Agreed		
21 Pails Poly drill 330	3349.50	
9 Boxes Quik Troll	902.88	
6 Timbers 8"x8"x16"	204.06	
3 Timbers 4"x4"x16"	47.52	
25 Planks 2"x10"x16'	254.00	
12 Timbers 6"x6"x16"	229.56	
5 Load Binders 5/16"	156.00	
1 Mud Mixer Motor	391.60	
1 Mud Mixer U Joint	9.85	
1 Mud Mixer Pillow Block	19.60	
1 Restriction Valve #19037	126.83	
20x2' NW Casing	808.50	
14x5 NW Casing	892.64	
5x10 NW Casing	697.15	
1000 ft Aluminum Water Line c/w couplings	2226.29	
2x20114 Lock Bolt	38.28	
2x20115 Nut Washers	13.42	
1 x 28362 BQ Drive Rod Bushing	53.45	
1 x 22089 Bearing	10.28	10431.41
Repair to pumps:-		
Parts.		
1 - A5005 Pinion Cover	13.45	
3 - 1225327 Valve Seats	36.15	
1 - 1265098 Pinion Shaft	40.00	
c/fwd.....	89.60	66241.87

B/Fwd.....		89.60	66241.87
3 - A3434N Packing		24.00	
2 - Reduction Gears		1087.70	
2 - Dodge Couplings		260.32	
2 - 03170400 Conrod Screws		3.50	
1 - 40004600 injection nozzles		25.00	
1 - 00307102 dipstick		3.55	
1 - 00358901 Gasket set		29.75	
1 - 00359000 Gasket set		63.60	
2 - 00359601 Piston sub assembly		336.10	
1 - 00413302 Cylinderhead sub assembly		608.65	
2 - 03201800 Big end bearing		58.30	
		2590.07	
Plus 10%		259.00	
		2849.07	
Labour			
25 Man hours @ 24.00 per hr.		600.00	3449.07
Repairs to Drill in the Field			
as per time sheets			
36 Man hours @ 24.00 per hr.		864.00	
Parts etc.			
4 - 6308-2RS Bearings	65.20		
1 - B39647 Spacer	5.75		
1 - B39648 Spacer	5.75		
2 - Pails Hydraulic Oil	71.20		
3 - Cases XD3-30 Oil	102.90		
2 - Cases XD#-10 Oil	68.60	319.40	1183.40
			70874.34

APPENDIX II

STATEMENT OF QUALIFICATIONS

AUTHOR'S QUALIFICATIONS

I, Terence M. Elliott, have the following education and work experience:

1. I am a Geologist residing at #309 - 6001 Yew Street, Vancouver, British Columbia, V6M 3Y7.

2. I graduated from the University of British Columbia in 1967 with a Bachelor of Science in Honours Geology. I also received a Master of Science in Geology from Stanford University, California, in 1973.

3. I have practised my profession for 14 years.

4. I logged diamond drill holes RC81-1 and RC81-2. The remaining holes were logged by Mr. B. Hemingway, geologist.

Terence M. Elliott

APPENDIX III

ASSAY RESULTS

OMNI RESOURCES INC.

ASSAY RESULTS, RED CAP PROPERTY, TAKU RIVER AREA, B.C.

D.D. Hole #	Location	Azimuth	Dip	Depth ft(m)	Cu ppm	Mo ppm	Ag ppm	Au ppb	Assay #
RC81-1	1080N 1090W	123°	-55	11(3.4)-16(4.9)	535	4	25	5.3	24002
				16(4.9)-26(7.9)	1140	4	320	92.6	24003
				26(7.9)-36(11.0)	270	3	30	2.0	24004
				36(11.0)-44(13.4)	315	3	15	3.0	24005
				44(13.4)-54(16.5)	355	3	40	5.5	24006
				54(16.5)-64(19.5)	295	1	15	2.1	24007
				64(19.5)-73(22.3)	480	2	15	2.5	24008
				73(22.3)-83(25.3)	375	6	10	2.3	24009
				83(25.3)-93(28.4)	690	6	495	5.2	24010
				93(28.4)-103(31.4)	910	7	5	6.4	24011
				103(31.4)-113(34.5)	810	4	65	6.8	24012
				113(34.5)-124(37.8)	670	6	10	6.0	24013
				124(37.8)-133(40.9)	950	7	15	9.5	24014
				133(40.9)-144(43.9)	555	10	20	4.2	24015
				144(43.9)-156(47.6)	210	3	20	2.2	24016
				156(47.6)-166(50.6)	345	4	30	3.5	24017
				166(50.6)-176(53.7)	175	6	100	3.6	24018
				176(53.7)-186(56.7)	125	10	15	2.0	24019
				186(56.7)-196(59.8)	NS	NS	NS	NS	24020
				196(59.8)-206(62.8)	330	8	20	3.4	24021
				206(62.8)-216(65.9)	130	6	5	1.4	24022
				216(65.9)-226(68.9)	170	2	5	2.3	24023
				226(68.9)-236(72.0)	120	4	40	1.7	24024
				236(72.0)-246(75.0)	345	1	10	2.6	24025
				246(75.0)-256(78.0)	285	2	10	3.9	24026
				256(78.0)-266(81.1)	255	2	15	4.0	24027
				266(81.1)-276(84.1)	225	6	15	2.5	24028
				276(84.1)-286(87.2)	220	2	10	2.3	24029
				286(87.2)-296(90.2)	570	2	20	4.6	24030
				296(90.2)-306(93.3)	680	1	15	9.4	24031
				306(93.3)-316(96.3)	300	3	15	5.8	24032
				316(96.3)-326(99.4)	0.20%		20	13.8	24033
				326(99.4)-336(102.6)	2.95%	1	167	113.1	24034
				336(102.6)-346(105.5)	1.65%	1	67	54.5	24035

D.D. Hole #	Location	Azimuth	Dip	Depth ft(m)	Cu ppm	Mo ppm	Ag ppm	Au ppb	Assay #
RC81-1	1080N 1090W	123°	-55	346(105.5)-356(108.5)	245	2	12.0	50	24036
				356(108.5)-366(111.6)	65	3	0.6	10	24037
				366(111.6)-376(114.6)	115	13	0.5	15	24038
				376(114.6)-386(117.7)	600	16	1.2	55	24039
				386(117.7)-396(120.7)	370	25	1.0	75	24040
				396(120.7)-406(123.8)	440	11	1.3	110	24041
				406(123.8)-416(126.8)	345	14	1.0	40	24042
				416(126.8)-426(129.9)	375	13	1.1	110	24043
				426(129.9)-436(132.9)	365	2	1.2	100	24044
				436(132.9)-446(136.0)	150	2	0.5	170	24045
				446(136.0)-456(139.0)	240	2	0.7	100	24046
				456(139.0)-466(142.1)	125	6	1.9	180	24047
				466(142.1)-476(145.1)	80	7	0.3	70	24048
				476(145.1)-486(148.2)	165	7	0.8	145	24049
				486(148.2)-496(151.2)	400	61	1.2	95	24050
				496(151.2)-506(154.3)	98	6	0.3	120	24051
				506(154.3)-516(157.3)	245	57	0.4	35	24052
				516(157.3)-526(160.4)	61	40	0.2	10	24053
				526(160.4)-536(163.4)	360	55	1.0	20	24054
				536(163.4)-546(166.4)	390	40	1.1	55	24055
				546(166.4)-556(169.5)	510	32	0.8	40	24056
				556(169.5)-566(172.5)	215	67	0.9	30	24057
				566(172.5)-576(175.6)	300	39	1.4	45	24058
				576(175.6)-586(178.6)	225	29	0.8	20	24059
				586(178.6)-596(181.7)	185	28	0.8	35	24060
				596(181.7)-606(184.7)	97	3	1.4	25	24061
RC81-2	1080N 1090W	300°	-60	11(3.4)-18(5.5)	250	2	1.7	10	24062
				18(5.5)-26(7.9)	245	2	1.9	10	24063
				26(7.9)-36(11.0)	370	2	3.0	25	24064
				36(11.0)-43(13.1)	300	4	5.3	110	24065
				43(13.1)-53(16.2)	310	2	5.6	190	24066
				53(16.2)-58(17.7)	260	2	3.4	65	24067
				58(17.7)-66(20.1)	270	2	3.0	130	24068
				66(20.1)-74(22.6)	270	1	2.8	15	24069
				74(22.6)-82(25.0)	275	2	1.6	10	24070
				82(25.0)-86(26.2)	190	2	1.0	5	24071

D.D. Hole #	Location	Azimuth	Dip	Depth ft(m)	Cu ppm	Mo ppm	Ag ppm	Au ppb	Assay #
RC81-2	1080N 1090W	300°	-60	86(26.2)-96(29.3)	480	1	3.0	10	24072
				96(29.3)-102(31.1)	360	2	2.6	15	24073
				102(31.1)-110(33.5)	875	2	4.9	L5	24074
				110(33.5)-116(35.4)	415	3	2.3	L5	24075
				116(35.4)-126(38.4)	330	1	2.0	L5	24076
				126(38.4)-131(39.9)	300	2	3.0	L5	24077
				131(39.9)-143(43.6)	225	4	3.6	L5	24078
				143(43.6)-150(45.7)	74	1	0.8	L5	24079
				150(45.7)-160(48.8)	135	2	1.2	L5	24080
				160(48.8)-166(50.6)	35	4	0.2	L5	24081
				166(50.6)-176(53.6)	6	4	0.2	L5	24082
				176(53.6)-186(56.7)	5	3	0.2	L5	24083
				186(56.7)-196(59.7)	109	3	0.8	L5	24084
				196(59.7)-206(62.8)	578	2	2.9	10	24085
				206(62.8)-216(65.8)	515	3	2.8	15	24086
				216(65.8)-224(68.4)	310	3	1.9	15	24087
				224(68.4)-236(71.9)	342	4	1.2	15	24088
				236(71.9)-246(75.0)	317	10	0.9	10	24089
				246(75.0)-256(78.0)	428	6	1.1	10	24090
				256(78.0)-264(80.5)	416	4	1.3	10	24091
				264(80.5)-274(83.5)	204	6	0.7	5	24092
				274(83.5)-282(86.0)	222	4	0.6	L5	24093
				282(86.0)-291(88.7)	144	5	0.4	L5	24094
				291(88.7)-294(89.6)	131	6	0.3	5	24095
				294(89.6)-304(92.7)	252	10	0.6	5	24096
				304(92.7)-313(95.4)	148	6	0.4	.5	24097
				313(95.4)-323(98.5)	137	6	0.5	10	24098
				323(98.5)-333(101.5)	215	5	0.6	10	24099
				333(101.5)-341(103.9)	191	4	1.6	10	24100
				341(103.9)-348(106.1)	236	10	0.6	L5	24101
				348(106.1)-355(108.5)	282	8	0.8	.5	24102
				355(108.5)-366(111.6)	394	8	1.3	L5	24103
				366(111.6)-376(114.6)	557	6	1.9	5	24104
				376(114.6)-383(116.7)	405	5	1.8	L5	24105
				383(116.7)-390(118.9)	354	2	0.5	5	24106
				390(118.9)-400(121.9)	254	55	0.7	L5	24107
				400(121.9)-411(125.6)	112	58	1.2	10	24108

D.D. Hole #	Location	Azimuth	Dip	Depth ft(m)	Cu ppm	Mo ppm	Ag ppm	Au ppb	Assay #
RC81-2	1080N 1090W	300°	-60	411(125.6)-419(127.7)	113	85	1.1	5	24109
				419(127.7)-429(130.8)	390	52	1.2	5	24110
				429(130.8)-439(133.8)	162	44	1.0	10	24111
				439(133.8)-450(137.2)	88	48	0.9	5	24112
				450(137.2)-460(140.2)	237	50	0.8	15	24113
				460(140.2)-470(143.3)	118	76	1.1	10	24114
				470(143.3)-480(146.3)	180	24	0.9	10	24115
				480(146.3)-490(149.4)	105	6	0.4	10	24116
				490(149.4)-500(152.4)	72	18	0.3	25	24117
RC81-3	1004N 1086W	020°	-60	41(12.5)-49(14.9)	250	560	9.4	40	24118
				49(14.9)-57(17.4)	900	215	36.0	220	24119
				57(17.4)-69(21.1)	1650	160	3.8	20	24120
				69(21.1)-78(23.8)	1350	480	1.3	40	24121
				78(23.8)-83(25.3)	750	165	2.4	20	24122
				83(25.3)-92(28.0)	375	245	2.0	80	24123
				92(28.0)-102(31.1)	370	100	3.7	340	24124
				102(31.1)-112(34.1)	320	95	3.5	430	24125
				112(34.1)-125(38.1)	450	89	1.6	30	24126
				125(38.1)-136(41.5)	430	53	0.9	120	24127
				136(41.5)-146(44.5)	360	35	0.5	20	24128
				146(44.5)-156(47.5)	600	135	0.6	40	24129
				156(47.5)166(50.6)	1300	36	2.0	40	24130
				166(50.6)-176(53.6)	1000	130	1.3	70	24131
				176(53.6)-186(56.7)	750	89	1.2	60	24132
				186(56.7)-196(59.7)	750	45	0.8	40	24133
				196(59.7)-206(62.8)	550	47	0.4	30	24134
				209(62.8)-219(66.8)	650	120	1.1	20	24135
				219(66.8)-229(69.8)	750	110	1.0	50	24136
				230(69.8)-240(73.2)	700	215	2.3	80	24137
				240(73.2)-250(76.2)	1000	88	1.4	40	24138
				250(76.2)-260(79.2)	650	120	0.9	40	24139
				261(79.2)-271(82.6)	550	120	0.7	20	24140
				271(82.6)-282(85.9)	600	157	0.8	20	24141
				282(85.9)-292(89.0)	750	74	0.9	60	24142
				292(89.0)-302(92.1)	540	81	0.5	50	24143
				302(92.1)-310(94.5)	470	140	0.5	30	24144

D.D. Hole #	Location	Azimuth	Dip	Depth ft(m)	Cu ppm	Mo ppm	Ag ppm	Au ppb	Assay #
RC81-3	1004N 1086W	020°	-60	310(94.5)-320(97.5)	600	160	0.7	60	24145
				320(97.5)-329(100.2)	465	120	0.6	20	24146
				329(100.2)-339(103.3)	490	91	0.1	60	24147
				339(103.3)-347(105.8)	270	220	0.2	20	24148
				347(105.8)-358(109.1)	350	390	0.1	40	24149
				358(109.1)-370(112.8)	410	150	0.5	70	24150
				370(112.8)-382(116.4)	800	100	1.0	70	24201
				382(116.4)-393(119.8)	950	165	1.5	100	24202
				393(119.8)-403(122.8)	1000	175	2.8	10	24203
				403(122.8)-408(124.3)	900	540	2.6	40	24204
				466(142.0)-476(145.1)	350	200	0.7	20	24205
				497(151.5)-509(155.1)	900	270	2.3	66	24206
				509(155.1)-519(158.2)	1200	360	3.0	666	24207
				519(158.2)-529(161.3)	900	160	1.6	66	24208
				529(161.3)-539(164.4)	900	240	1.6	L33	24209
				539(164.4)-549(167.5)	900	420	1.6	1210	24210
				549(167.5)-559(170.6)	700	120	1.6	66	24211
				559(170.6)-569(173.7)	500	200	1.6	66	24212
				569(173.7)-579(176.8)	800	260	1.6	66	24213
				579(176.8)-589(179.5)	400	90	1.6	66	24214
				589(179.5)-599(182.6)	500	240	1.6	L33	24215
				599(182.6)-609(185.6)	400	660	1.6	66	24216
				609(185.6)-619(188.7)	900	520	2.0	66	24217
				619(188.7)-629(191.7)	600	360	1.6	66	24218
				629(191.7)-639(194.7)	600	80	1.6	66	24219
				843(256.9)-853(260.0)	400	L10		L100	24220
RC81-4	1004N 1086W	197°	-60	36(11.0)-46(14.0)	100	170		L100	24221
				46(14.0)-56(17.1)	100	240		100	24222
				56(17.1)-66(20.1)	400	150		L100	24223
				66(20.1)-76(23.2)	200	110		L100	24224
				76(23.2)-86(26.2)	100	70		L100	24225
				86(26.2)-96(29.3)	300	130		L100	24226
				96(29.3)-106(32.3)	300	70		L100	24227
				106(32.3)-116(35.4)	400	80		L100	24228
				116(35.4)-126(38.4)	400	140		L100	24229
				-126(38.4)-135(41.1)	300	210		L100	24230

D.D. Hole #	Location	Azimuth	Dip	Depth ft(m)	Cu ppm	Mo ppm	Ag ppm	Au ppb	Assay #
RC81-4	1004N 1086W	197°	-60	135(41.1)-145(44.2)	800	1000		L100	24231
				145(44.2)-155(47.2)	800	170		L100	24232
				155(47.2)-165(50.3)	900	210		L100	24233
				165(50.3)-175(53.3)	500	170		L100	24234
				175(53.3)-185(56.4)	300	180		L100	24235
				185(56.4)-195(59.4)	300	90		L100	24236
				195(59.4)-205(62.5)	600	180		L100	24237
				205(62.5)-215(65.5)	800	210		L100	24238
				225(68.6)-235(71.6)	500	100		L100	24239
				245(74.7)-255(77.7)	400	140		133	24240
				265(80.7)-275(83.8)	500	90		233	24241
				281(85.6)-285(86.9)	300	160		100	24242
				285(86.9)-295(89.9)	300	60		L100	24243
				305(92.9)-315(96.0)	400	290		166	24244
				325(99.1)-335(103.1)	600	40		L100	24245
				345(105.2)-355(108.2)	300	80		L100	24246
				365(111.3)-375(114.3)	400	140		L100	24247
				385(117.3)-395(120.4)	500	200		133	24248
				405(123.4)-415(126.5)	300	230		L100	24249
				425(129.5)-435(132.6)	300	120		L100	24250
				445(135.6)-455(138.6)	400	130		L100	24451
				465(141.7)-475(144.8)	500	100		L100	24452
				485(147.8)-492(149.9)	400	110		L100	24453
				492(149.9)-501(152.7)	1400	110		200	24454
				501(152.7)-505(153.9)	300	80		L100	24455
RC81-5	1016N 1066W	030°	-60	21(6.4)-31(9.5)	300	80		L100	24456
				31(9.5)-41(12.5)	500	190		L100	24457
				41(12.5)-51(15.5)	700	70		L100	24458
				51(15.5)-61(18.6)	600	120		L100	24459
				61(18.6)-71(21.6)	800	250		L100	24460
				71(21.6)-81(24.7)	600	90		333	24461
				81(24.7)-91(27.7)	500	150		L100	24462
				91(27.7)-101(30.8)	400	80		L100	24463
				101(30.8)-111(33.8)	500	120		L100	24464
				111(33.8)-121(36.9)	1600	300		100	24465
				121(36.9)-131(39.9)	300	330		L100	24466

D.D. Hole #	Location	Azimuth	Dip	Depth ft(m)	Cu ppm	Mo ppm	Ag ppm	Au ppb	Assay #
RC81-5	1016N 1066W	030°	-60	131(39.9)-141(42.9)	300	130		L100	24467
				141(42.9)-151(46.0)	500	170		L100	24468
				151(46.0)-161(49.1)	300	70		L100	24469
				161(49.1)-171(52.1)	400	50		L100	24470
				171(52.1)-181(55.2)	500	340		L100	24471
				181(55.2)-191(58.2)	400	170		L100	24472
				191(58.2)-201(61.3)	400	80		L100	24473
				201(61.3)-211(64.3)	600	190		L100	24474
				211(64.3)-221(67.4)	500	170		L100	24475
				221(67.7)-230(70.1)	500	80		L100	24476
				230(70.1)-240(73.3)	700	130		L100	24477
				240(73.2)-250(76.2)	600	230		L100	24478
				260(79.2)-270(82.3)	500	220		L100	24479
				270(82.3)-280(85.3)	600	240		L100	24480
				280(85.3)-290(88.4)	600	130		L100	24481
				300(91.4)-310(94.4)	500	110		L100	24482
				320(97.5)-330(100.6)	500	190		L100	24483
				330(100.6)-340(103.6)	700	140		L100	24484
				340(103.6)-350(106.7)	700	110		L100	24485
				350(106.7)-360(109.7)	600	70		333	24486
				360(109.7)-370(112.8)	1500	240		2066	24487
				370(112.8)-380(116.1)	800	90		1266	24488
				380(116.1)-390(118.8)	700	140		L100	24489
				400(121.9)-410(124.9)	600	90		L100	24490
				420(128.0)-430(131.1)	700	200		L100	24491
				440(134.1)-450(137.2)	600	320		L100	24492
				460(140.2)-470(143.3)	700	140		L100	24493
				480(146.3)-490(149.4)	700	120		L100	24494
				490(149.4)-500(152.4)	800	120		L100	24495

D.D. Hole #	Location	Azimuth	Dip	Depth ft(m)	Cu ppm	Mo ppm	Ag ppm	Au ppb	Assay #
RC81-6	1010N 1110W	008°	-54°	64(19.5)-74(22.6)	270	38		380	24496
				74(22.6)-84(25.6)	410	51		40	24497
				84(25.6)-94(28.7)	860	79		160	24498
				94(28.7)-104(31.7)	550	32		40	24499
				104(31.7)-114(34.7)	430	9		40	24500
				114(34.7)-124(40.8)	490	66		20	24251
				134(40.8)-144(43.9)	475	33		60	24252
				154(46.9)-164(49.9)	355	49		30	24253
				170(51.8)-180(54.9)	480	76		60	24254
				180(54.9)-190(57.9)	460	57		40	24255
				190(57.9)-200(60.9)	410	31		40	24256
				200(60.9)-210(64.0)	350	92		10	24257
				210(64.0)-220(67.1)	320	110		10	24258
				220(67.1)-230(70.1)	260	110		L10	24259
				242(73.8)-252(76.8)	160	72		10	24260
				252(76.8)-262(79.9)	310	71		40	24261
				262(79.9)-272(82.9)	415	130		10	24262
				272(82.9)-282(85.9)	325	165		40	24263
				282(85.9)-292(89.0)	350	170		30	24264
				292(89.0)-302(92.0)	500	190		20	24265
				302(92.0)-312(95.1)	520	430		L10	24266
				312(95.1)-322(98.1)	560	240		20	24267
				322(98.1)-332(101.2)	330	165		L10	24268
				332(101.2)-342(104.2)	360	360		L10	24269
				342(104.2)-352(107.3)	350	120		L10	24270
				352(107.3)-362(110.3)	700	230		10	24271
				362(110.3)-372(113.4)	790	370		16	24272
				372(113.4)-382(116.4)	1100	180		330	24273
				382(116.4)-392(119.5)	420	370		10	24274
				392(119.5)-402(122.5)	480	190		10	24275
				402(122.5)-412(125.6)	230	110		L10	24276
				412(125.6)-422(128.6)	350	135		L10	24277
				422(128.6)-432(131.7)	280	120		L10	24278
				432(131.7)-442(134.7)	290	400		L10	24279
				442(134.7)-452(137.8)	300	165		10	24280
				462(140.8)-472(143.9)	280	105		L10	24281
				490(149.4)-500(152.4)	400	310		20	24295
				500(152.4)-510(155.4)	220	130		L10	24296
				540(164.6)-550(167.6)	310	80		10	24297

D.D. Hole #	Location	Azimuth	Dip	Depth ft(m)	Cu ppm	Mo ppm	Ag ppm	Au ppb	Assay #
RC81-7	1010N 1110W	188°	-55°	33(10.1)-43(13.1)	310	72		80	24282
				43(13.1)-53(16.2)	130	34	0.5	10	24283
				53(16.2)-63(19.2)	500	33	2.0	10	24284
				63(19.2)-73(22.3)	680	82	2.5	40	24285
				73(22.3)-83(25.3)	340	91	1.8	20	24286
				83(25.3)-93(28.3)	580	64	2.5	30	24287
				93(28.3)-103(31.4)	480	42	1.5	30	24288
				103(31.4)-113(34.4)	600	38	1.6	50	24289
				113(34.4)-123(37.5)	700	77	3.3	60	24290
				123(37.5)-133(40.5)	420	430	0.9	20	24291
				133(40.5)-143(43.6)	530	44	0.5	L10	24292
				143(43.6)-153(46.6)	580	35	0.6	L10	24293
				163(49.7)-173(52.7)	600	34		20	24294
				183(55.8)-193(58.8)	350	50		40	24298
				213(64.9)-223(67.9)	155	53		10	24299
				223(67.9)-233(71.0)	470	52		50	24300
				233(71.0)-245(74.7)	560	31		140	24301
				273(83.2)-283(86.3)	410	60		20	24302
				283(86.3)-293(89.3)	610	90		40	24303
				304(92.7)-314(95.7)	440	26		40	24343
				334(101.8)-344(104.9)	480	38		30	24344
				364(110.9)-374(113.9)	520	58		30	24345
				394(120.1)-404(123.1)	800	61		20	24346
				426(129.8)-436(132.9)	520	130		L10	24347

APPENDIX IV

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REFERENCES

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APPENDIX V

DRILL LOGS

and

ROCK TYPE ABBREVIATIONS

ROCK TYPE ABBREVIATIONS FOR DRILL LOGS

A	andesite
ADπ	andesite-dacite porphyry
B	granite breccia
Dc Bxa	dacite breccia
F	felsite
FP	felsite porphyry or feldspar porphyry
Gd	granodiorite
QM	quartz monzonite
QM Bxa	quartz monzonite breccia
RD	rhyolite-dacite
T	rhyolite tuff

COMPOSIT[E] [D]RILL LOG

CORE SIZE : Q — SCALE 1 : 100 — PROJE[CT] RED CAP — HOLE No. R.C 81-1 81-1

CASING COLLAR ELEV.: — GROUND ELEV.: — DATE STARTED: July 23, 1981. — PAGE No. 1 OF 13

COORDINATES : N. E. — DATE FINISHED: July 26, 1981. — REF. TO CLAIM CORNER:

INCLINATION -55° — AZIMUTH : 123° — TOTAL DEPTH : 184.7 m = 606 ft. — LOGGED BY T.M. ELLIOTT

ALTERATION: Quartz V., Sericite, Chlorite, Epidote, Py xo. | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS: Cu, Mo, Zn, Ag, Au

DESCRIPTIVE GEOLOGY

Depth (m)	Minerals	Descriptive geology	Drilling interval	% core recovered	% sulphides	Sample No.
0–3.4		CASING — No Core.	3.4m			
4	Py, Cpy	White, f.gr. to med. gr. rhyolitic tuff. Stockwork of chl. fract.		95?	1/4	24002C
5	Po	3.9m = veinlet of cpy. Minor dissem. cpy. Weak dissem. po.	4.9m			24003C
6	Py	5–6 m = strong gray phyllic alt^n. 6–7m – alt^n diminishes			2	
7	Py			91	1/2	
8	Py, Po	7–8 m = 6 strong 1 mm py. veins	7.9m		1/2	
8–9	Py				1/4	24004C
9–10	Py			97	1/4	
10–11	Py, Po	10.4 m = green phyllic alteration (Q–Ser–Py–Po) of 1cm–3cm angular fragments.	11.0m		1/4–1/2	
11–12	Py				1/2	24005C
12–13	Py	12.0 m – rock grades into tuff breccia		100	1/10	
13–14	Py	13.7m = 3–4cm at fraction & local SiO_2 – flooding	1?.4m			
14–15	Py	14.0–15.0 m = strong fracturing & local shearing		87	1/4	24006C
15					1/4	

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : HOLE No. RC 81-9

CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 2 OF 13

COORDINATES : N E. DATE FINISHED : REF. TO CLAIM CORNER :

INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY T.M. ELLIOTT

DEPTH (M)	ALTERATION: Q. Vn.	Sericite	Chlorite	Epidote	Py. Vn	Silicification	FRACTURING	MINERALS	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
15								P_y	T	Fresh chyolitic tuff.			87	1/4					
16									A			16m							
17								P_y	A	17.0 - 18.0m = hairline py. veins common				1/4					24007C
18													100	1/2					
19							(py)	P_y		19.0 - 20.0 m = medium gray silica - flooding		19.5 m		1/4					
20							(Si)			20.0 - 23.2 m = strong zone of fracturing and shearing.				1/2					24008C
21								Cu		20.6m = minor malachite on fract.			78	1/4					
22								P_y	T			22.3m		1/2					
23								P_y	A					1/4					24009C
24								P_y		Abundant hairline pyritic fractures.			89	1/4					
25								P_y				25.3m		1/2					
26								P_y		$P_o \approx P_y$				1/2					24010C
27								P_o					100	1					
28								P_y	A					1 1/2					
29								P_y	T	Weak silicification along fractures		29.4m							
								P_o	A					1/2					24011C

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT :

CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED :

COORDINATES : N. E. DATE FINISHED :

INCLINATION : AZIMUTH : TOTAL DEPTH : m

HOLE No. RC 81-9

PAGE No. 3 OF 13

REF. TO CLAIM CORNER :

LOGGED BY T. M. ELLIOTT

ALTERATION: Q. Vn, Sericite, Chlorite, Epidote, Py. Vn, Silicification

FRACTURING | MINERALS | GEOLOGY

COMMENTS :

AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

DEPTH (M)	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
30									
31				1					
	Abundant disseminated py and po		31.4 m.						
32				1					24012C
	32.5m = 2x cpy-bearing veinlets			3/4					
33	32.7 m = weak Qissem. Cpy		100						
	33.1m = 4cm. Q – Cpy – Po vein + locally strong dissem. cpy			1/4					
34	34.0 – 34.6m = Strong dissem. Py – Aspy. Minor MoS_2		34.5 m	3-4%					24013C
35	Massive white rhyolitic tuff.								
	35.2m = 2mm Q – cpy vn.			1/4					
36			100						
	36.7m = beginning of strong Q – Ser alt^n.			3/4					
37	37.5m = minor dissem. cpy w. po			3/4					
			37.8 m.						
38	Pyrite veining has decreased but phyllic alt^n is moderately strong.			1					24014C
39	"Black mineral" alteration called chlorite.		98	1					
40	Sample taken for Thin Section								
				1/2					
41			40.9 m.						
	Q – Ser. alt^n of intensity = 3 spreads out from fractures giving rock the appearance of a breccia.			1					24015C
42									
43			100	1/2					
	Rock is now tuff breccia								
44			43.9 m						
									24016C

COMPOSITE DRILL LOG

CORE SIZE :
CASING COLLAR ELEV :
COORDINATES : N. E.
INCLINATION :

SCALE :
GROUND ELEV. :
AZIMUTH :

PROJ :
DATE STARTED :
DATE FINISHED :
TOTAL DEPTH : m

HOLE No. RC 81
PAGE No. 4 OF 13
REF. TO CLAIM CORNER :
LOGGED BY T.M. ELLIOTT

ALTERATION: Q.V/c | Sericite | Chlorite | F... | Q.V/c | Silicification | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

DEPTH (M)	MINERALS	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
45	Po, Py	45.1 - 45.3m = fault zone (gouge)			3/4					
46	Py	Tuff breccia composed of angular white to light gray rhyolite frags in a gray (medium) matrix. Matrix is speckled with chlorite? Frags. up to 5 cm across.		92	1/2					
47	Py		47.6m							
48	Py				1/4		24017C			
49	Py			100	1/4					
50	Py, Po				1/4					
50	Po	Po >> Py. Po occurs as 2-3mm bleb-like disseminations.	50.6m							
51		51.0m = Quartz - feldspar porphyry dyke composed of 30% 2-4mm Q eyes and 25% 3-5mm sericitized feldspar grains in a med. gray aphanitic matrix.			1/4		24018C			
52	Py (QFP)			100	1/4					
53	Py	53.0m = brecciated and faulted dyke contact. Intermittent shearing to 53.8m	53.7m		1/4					
54	Py				1/4		24019C			
55	Py	55.0 - 56.0m - a myriad of Q - Py veinlets (hairline) at 80 - 90° to the core axis		100	1/2					
56	Py		56.7m		1/4					
57	Py, Sl				1/4		24020C			
58	Py			98	1/4					
59	Py, Po		59.8m		1/2					
60										

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJ : HOLE No. RC : 81

CASING COLL ELEV : GROUND ELEV. : DATE STARTED : PAGE No. 5 OF 13

COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :

INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY T. M. ELLIOTT

ALTERATION: Q. Vn | Sericite | Chlorite | Epidote | Py Vn | Silicification

DEPTH (M)	FRACTURING	MINERALS	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
60	T	Py						1/4					240 21C
61		Py		61.0 - 62.0 m = abundant hairline Q. vnlts. at 70-80° to the core axis.			10x	1/4					
62		Py						1/10					
		Sl				62.8 m							
63		Py						1/2					240 22C
64													
65		Py					98	1/2					
		Py				65.8 m		1/4					
66	T	Py											240 23C
67		Py						1/4					
68		Py		67.8 - 68.2 m = locally strong pyrite veining w. some green sericitic alteration			97	1/2					
		Py				68.9 m		1/4					
69		Py											240 24C
70								1/10					
71		Py					100	1/10					
		Py						1/4					
72	T					72.0 m							
		Py		72.8 - 73.6 m = moderate to weak clay alteration in frags. and in inter-frag. areas				1/2					240 25C
73		Py						1/4					
		Py						100					
74		Po											
						75.0 m		1/4					
75													

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT :	HOLE No. RC:8[illegible]1
CASING COLLAR ELEV. :	GROUND ELEV. :	DATE STARTED :	PAGE No. 6 OF 13
COORDINATES : N. E.		DATE FINISHED :	REF. TO CLAIM CORNER :
INCLINATION :	AZIMUTH :	TOTAL DEPTH : m	LOGGED BY T.M. ELLIOTT

ALTERATION: Q. Vn / Sericite / Chlorite / Calcite / ½ Vn / Silicification — FRACTURING — MINERALS — GEOLOGY

COMMENTS: | AVG. CORE REC'Y/HOLE

DEPTH (M)	MINERALS	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
75	Py	76.1m = 1cm white carbonate vein			1/10					24026C
76	Py	76.7 - 76.8 m = fault gouge		100	1/10					
77	Cpy, Py	77.5m = 2-3% biotite (dissem.)			1/10					
		77.8m = 5mm - 1.5cm white carb. vn. (calcite)	78.0m							
78	Py				1/4					24027C
79	Py			100	1/10					
80	Py				1/10					
81	Py, Cpy		81.1m		1/10					24028C
82	Py			100	1/10					
83	Py				1/10					
84	Py		84.1m		1/10					24029C
85	Cpy, Py	85.2m = 1cm x 1cm patch of black chlorite? Ctgs. minor cpy.		100	1/10					
86	Py	86.8m = 2mm light brown carbonate vein.			1/10					
87	Py		87.2m							24030C
88	Py				<1/10					
89	Py, Cpy	89.0 - 89.7m = strong fracturing. Cpy associated with blebs of tourmaline.		98	<1/10					
90					1/4	0.1				

COMPOSITE DRILL LOG

CORE SIZE : | SCALE : | PROJ : RED CAP. | HOLE No. RC 81-1

CASING COLLAR ELEV : | GROUND ELEV. : | DATE STARTED : | PAGE No. 7 OF 13

COORDINATES : N. E. | DATE FINISHED : | REF. TO CLAIM CORNER :

INCLINATION : | AZIMUTH : | TOTAL DEPTH : m | LOGGED BY T.M. ELLIOTT

COMMENTS :

AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

DEPTH (M)	ALTERATION: Q Vn.	Sericite	Chlorite	Carbonate	Py Vn.	Tourmaline	FRACTURING	MINERALS	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
90								Py		90.0 – 91.8 m = abundant (5%) blebs of tourmaline up to 1 cm across (radiating black crystals)	90.2 m		1/10					240 31C
91							T	Py				100	< 1/10					
92								Py		92.2 m & 92.4 m = malachite on shear fract.			1/4					
93							Δ	Py		93.2 m = breccia cty. abund. tourmaline ± py in the matrix	93.3 m		1/2					240 32C
94							Δ	Py				100	1/4					
95								Py					< 1/10					
96							ΔΔ	Py		95.6 – 95.7 m = strongly tourmalinized (in matrix) chyo. brec.	96.3 m		1/10					240 33C
97							T	Py		96.4 m = minor cpy in tourm. vn.			1/4					
98								Py		97.9 – 98.2 = altered feldspar (now green sericite) porphyry dyke. lower contact ca. 45° to the core axis.		100	1/2	0.1 Cu				
99								Py		98.6 – 98.8 m = altered dyke as above.	97.4 m		1	0.2 Cu	ASSAY			240 34C
100							T	Py		98.5 m = 1 X 3 cm bleb of cpy			1/2	0.1 Cu.				
101								Py		99 – 100 m = Assayable copper. 101.0 m = 1X3 cm bleb of cpy		100	1/2	—				
102								Py		100.8 – 103.4 m = altered (sericite) and mineralized Q – feldspar porphyry dyke.	102.4 m		1/2	0.05 Cu	ASSAY			240 35C
103								Py		103.0 – 103.4 m = very strong cpy			1	0.2 Cu				
104							Δ T	Py				100						

COMPOSITE DRILL LOG

CORE SIZE : | SCALE : | PROJECT : RED CAP | HOLE No. RC 81-

CASING COLLAR ELEV : | GROUND ELEV. : | DATE STARTED : | PAGE No. 8 OF 13

COORDINATES : N. E. | DATE FINISHED : | REF. TO CLAIM CORNER :

INCLINATION : | AZIMUTH : | TOTAL DEPTH : m | LOGGED BY T.M. ELLIOTT

ALTERATION: Q. Vn. | Sericite | Chlorite | Carbonate | Py. Vn. | Tourmaline

FRACTURING | MINERALS | GEOLOGY

COMMENTS :

AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (m) | ASSAYS

105 m

106

107

107.0 – 107.4 m = abund. gouge in fault zone
Thin shears continue down to 108 m.

108

108.5 m

109

Rusty rhyolitic tuff.
108.0 m = beginning of rhyolitic bxa.
1–4 cm. angular frags. of rhyolite in a silica – dolomite? (fizzes when scratched) matrix. Matrix and frags. approx 50%–50%
Original rhyo. frags. are also altered to carbonate (i.e. they are soft; H = 3)

110

111

111.6 m

112

111.9 – 112.4 m = strong pyrite. Dk. gray colour of pyritic fragments

113

113.0 m = some frags. have remnant tourmaline?

114

114.2 m = end of rhyolite bxa. (carb. altered)

114.6 m

115

Back into rhyolite which has been pervasively carbonate-altered. ± clay?

116

100

117

clay?
Strong carb. alt^n. & veining. Locally strong cracking with Q. veining.

117.7 m

118

119

100

120

Sample No.	ASSAYS
240	36C
240	37C
240	38C
240	39C
240	40C

COMPOSITE DRILL LOG

CORE SIZE : | SCALE : | PROJ. RED CAP | HOLE No. RC 81

CASING COLLAR ELEV. : | GROUND ELEV. : | DATE STARTED : | PAGE No. 9 OF 13

COORDINATES : N E. | DATE FINISHED : | REF. TO CLAIM CORNER :

INCLINATION : | AZIMUTH : | TOTAL DEPTH : m | LOGGED BY T. M. ELLIOTT

DEPTH (M)	ALTERATION: Q, Un, Sericite, Chlorite, Carbonate, Py, Un, Tourmaline	FRACTURING	MINERALS	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
120			Py	T	Only weak carbonate - Clay? alteration.		120. 7m	100	1/10					240 41C
121			Py		121.1 – 121.3 m = abundant gouge (fault)				1/10					
122			Mo		Pervasive carbonate – clay alt^n. contains.			100	1/4					
123			Py		– buff-coloured alteration.				1/10					
124			Mo		Minor MoS_2 on hairline fractures		123. 8m.		1/10					240 42C
125			Py	T					1/10					
126			Py		125.6 – 125.9 m = abundant gouge (fault)		126. 8m	100	1/10					
127			Py		127.2 – 127.7 m = mottled texture caused by				1/10					240 43C
128			Py	T	pervasive black mineral alteration (chlorite??)			100	–					
129				dyke	128.8 m = crowded gray feldspar porphyry				–					
130		FP			dy. altered (sericite) feldspar phenos.		129. 7m		–					240 44C
131			Py		in a med. gy. gdmass. Upper contact				–					
132			Py		ca. 50° to the core axis.			100	1/10					
133			Py				132. 9m		1/10					240 45C
134		FP	Py					100	1/10					
135			Py											

COMPOSITE DRILL LOG

CORE SIZ : SCALE : PROJ RED CAP HOLE No. RC 81

CASING COLLAR ELEV : GROUND ELEV. : DATE STARTED : PAGE No. 10 OF 13

COORDINATES : N E. DATE FINISHED : REF. TO CLAIM CORNER :

INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY T. M. ELLIOTT

DEPTH (M)	ALTERATION: Q. Vn	Sericite	Chlorite	Carb.	Py Vn	Clay	FRACTURING	MINERALS	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
135								Py		Crowded, altered feldspar porphyry dyke.				1/2					
136								Py	FP			136.0 m							
137								Py		137.4 – 138.6 m = dyke is silicified				1/4				240	46C
138								Py					100	1/4					
139								Py				138.0 m		1/4					
140								Py		138.7 – 140.0 m = silicified & carbonitized bxa. zone in feldspar porphyry dyke.				1/4				240	47C
141								Py					97	1/10					
142								Py		141.0 – 141.5 m = fault – abundant gouge		142.0 m		1/4					
143								Py						1/4				240	48C
144								Py	FP				99	1/2					
145								Py	T	144.1 m = lower contact of dyke is ca. 45° to the core axis. Now back into crackled & healed rhyolitic tuff. w. tourmaline alt°.		145.0 m		1/2					
146								Py		145.5m = altered crowded feldspar porphyry dyke. Upper contact ca. 40° to the core axis.				3/4				240	49C
147								Py					100	1/2					
148								Py	FP					1/2					
149								Py				148.8 m		3/4				240	50C
150										Feldspars altered to sericite			101						

COMPOSITE DRILL LOG

CORE SIZE : ○ SCALE : PROJ: RED CAP HOLE No. RC 81-1

CASING COLLAR ELEV : GROUND ELEV. : DATE STARTED : PAGE No. 11 OF 130

COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :

INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY T. M. ELLIOTT

DEPTH (M)	ALTERATION: Q.Vn	Sericite	Chlorite	Carb.	Py. Vn.	Tourmaline	FRACTURING	MINERALS	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
150								Py		150.4m = lower contact of dyke is ca 45° to the core axis. Pyrite up to 3% for 10-15 cm from the contact with rhyolite.			100	3/4					
151								M	T			1.2m							
152								Py						1/2					240 51C
153								M		150.8 = hairline Q veins w MoS2.			98	3/4					
154								Py		151 - 152.3 m = locally strong brown K-feldspar alteration.				3/4					
155								M		152.3m = minor disem. cpy		154.3m							
156								Py		152 - 154 m = silicified fractures.				3/4					240 52C
157								M		154.4 - 154.5m = more brown K-spar alt'n.				1/2					
158								Py	T	155.6 m = tourmaline? alteration begins. Also wk. to moderate sericitization.			100	1/4					
159								Py				157.3m							
160								Py		Rhyolite ctgs. 7% tourmaline?				1/4					240 53C
161								Py						1/4					
162								Py					100	1/4					
163								Py		Ca. 10% tourmaline?		160.4m		1/4					240 54C
164								Py						3/4					
165								Py					100	1/2					
								M				163.4m							
								Py						1/2					240 55C
								M	T	Minor MoS2 along hairline Q. vein.			100	1/4					
								Py											

UTAH MINES LTD.

COMPOSITE DRILL LOG

CORE SIZE : NQ | SCALE : | PROJ. : RED CAP | HOLE No. RC 81-1

CASING COLLAR ELEV : | GROUND ELEV. : | DATE STARTED : | PAGE No. 12 OF 13

COORDINATES : N E. | DATE FINISHED : | REF. TO CLAIM CORNER :

INCLINATION : | AZIMUTH : | TOTAL DEPTH : m | LOGGED BY T.M. ELLIOTT

DEPTH (M)	ALTERATION: Q.Vn.	Sericite	Chlorite	Carb.	Py.Vn.	Tourmaline	FRACTURING	MINERALS	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
165								Py	T										
166								Mo		165.9 m = 1 mm. Q – MoS_2 vnlt.			100	1/4					
								Py				166.4 m							
167								Py						1/2				240	56C
								Py		Minor dissem. cpy.				1/2					
168								Py					100						
								Mo						1/2					
169								Py		169 m = local brown K-feldspar to 169.6 m		169.5 m							
170								Py		169.4 m = minor disseminated magnetite.				1/2				240	57C
								Py	T					1/2					
171								Py					100						
172								Py						3/4					
								Mo				172.5 m							
173								Py						1/2				240	58C
								Cpy		173.4 m = minor cpy on fract.				3/4					
174								Mo					100						
								Py						3/4					
175								Py	T	175.3 – 176.2 m = light gray feldspar		175.6 m							
176								Py	FP	porphyry dyke. Upper contact is ca. 80°				1				240	59C
								Py		to the core axis. 1–2 mm feldspar				1					
177								Py	A	phenos. = 5–10% of rock. Dyke ctgs. ca.			100						
								Py		1% dissem. py. Lwr contact is ca. 80°				1					
178								Mo	A	to the core axis.									
								Py	T	178.4 m = 2 mm. Q vn. w. minor MoS_2		178.6 m							
179								Py						3/4				240	60C
								Py	FP	179.6 m = buffish gray feldspar porphyry			100	1/2					
180										dyke ctg. sericitized 1–3 mm feldspar phenos.									

COMPOSITE DRILL LOG

CORE SIZE : | SCALE : | PROJECT : RED CAP | HOLE No. RC-81-

CASING COLLAR ELEV : | GROUND ELEV. : | DATE STARTED : | PAGE No. 13 OF 13

COORDINATES : N. E. | DATE FINISHED : | REF. TO CLAIM CORNER :

INCLINATION : | AZIMUTH : | TOTAL DEPTH : m | LOGGED BY T.M. ELLIOTT

DEPTH (M)	ALTERATION: Q. Vn	Sericite	Chlorite	Carb.	Py. Vn.	Tourmaline	FRACTURING	MINERALS	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
180	/	/				/		Py	FP	comprising 10% of the rock. Contact is ca				1/10					
181	/	/			/	/		Py		30° to the core axis.			100	1/10					
	/	/			/	/		Py		180 m = 2 x calcite veins (2-3 mm wide)				7m					
182		/			/			Py		181 - 181.2 m = inclusion of chyalite.		186		1/4				240	61c.
183		/	/					Aspy		Dyke now chgc 5-7% biotite				1/4					
		/	/					Py	FP				100	1/10					
184		/			/			Py						1/10					
												184		7m					
185										END OF HOLE = 184.7m = 606 ft.									

COMPOSITE DRILL LOG

CORE SIZE: NQ | SCALE: 1:100 | PROJECT: RED CAP | HOLE No.: RC 81-81-2

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | PAGE No.: 1 OF 11

COORDINATES: N. E. | DATE FINISHED: | REF. TO CLAIM CORNER:

INCLINATION: -60° | AZIMUTH: | TOTAL DEPTH: 152.4 m = 500 ft. | LOGGED BY: T.M. ELLIOTT

DEPTH (M)	ALTERATION: Q. Vn.	Pot. Vn.	Sericite	Carb. Vn.	FRACTURING	MINERALS	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
0																	
1								Casing = No core.									
2																	
3										3.4 m							
4						Py		Light gray rhyolite tuff. Locally grades into lapilli tuff. Characterized by dissem. pyrite.				1/4					240 62C
5						Py	T				?	1/4					
6						Py				5.5 m		1/4					240 63C
7						Py		6.2m = biotite bleached fractures.			100	1/10					
8						Py		Alteration is only local in patches. (Q-Ser-Py)		7.9 m		1/4					240 64C
9						Py						1/4					
10		X				Py	T	9.6 - 10.0 m = locally pervasive green phyllic alteration.			99	1/4					
11						Py	FP	10.5 - 10.6 m = gray feldspar porphyry dyke. Contacts ca. 20° to the core axis.		11.0 m		3/4					
12						(Mo) Py	T	11.0 - 11.4 m = zone of strong pyritization (3-4%) in both veinlets and as blebs			98	1 1/2					240 65C
13	X					Q		12.3 - 12.4 m = large 10cm wide vein of calcite w. pyrite selvages.		13.1 m		3/4					
14						Q Sl Mo As Py	T	13.4 - 13.6 m = vein of Sl - Py - Gnt Aspy = MoS_2 at approx. 45° to the core axis.			100	4					240 66C
15												1/4					

COMPOSITE DRILL LOG

CORE SI[illegible] : SCALE : PR[illegible] : HOLE No. RC 8[illegible]2

CASING CO[illegible]R ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 2 OF 11

COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :

INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY T.M. ELLIOTT

DEPTH (M)	ALTERATION (Qtz Vn, Py, Vn, Sericite, Carb Vn, Chlorite)	FRACTURING	MINERALS	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
15			Py	T	Light gray rhyolite tuff. (well indurated and ? silicified)				3/4					
16							16.2 m							
17			Py		17.5-17.7 m = small fault zone = gouge.			95	1/2				240	67C
18			Py		17.6 m = radiating tourmaline "stars"		17.7 m		1/4					
19			Py		17.7 - 18.6 m = light greenish cream sericite - clay alteration. Tourmaline along fault.			100	1/4				240	68C
20			Py		19.0 m = brown K-spar alteration parallel to core axis		20.1 m		1/4					
21			Py	T					1/4				240	69C
22			Py					100	1/4					
23			Py				23.6 m		1/2 m					
24			Py					97	1/4				240	70C
25			Py		Locally, 5mm size lapilli in tuff				1/4					
26			Py				25.0 m	74	1/2				240	71C
27			Py		Malachite on fract.		26.3 m		1/2				240	72C
28			Py	T	28.0 m = Feldspar porphyry dyke.			100	1/2					
29			Py	FP	Ca 25-40% 1-4 mm. altered feldspar phenos in a light to medium gray groundmass. Upper contact is ca. 40°		29.3 m		1/4					
30			Py	FP	to the core axis. Lwr. contact ca. 45° to core axis				1/4				240	73C

COMPOSITE DRILL LOG

CORE SIZE :
CASING COLLAR ELEV :
COORDINATES : N E.
INCLINATION :

SCALE :
GROUND ELEV. :
AZIMUTH :

PROJ :
DATE STARTED :
DATE FINISHED :
TOTAL DEPTH : m

HOLE No. RC 81-2
PAGE No. 3 OF 11
REF. TO CLAIM CORNER :
LOGGED BY T.M. ELLIOTT

DEPTH (M)	MINERALS	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ASSAYS	
30		FP	Biotite-Feldspar porphyry dyke w. 40% 2-3 mm.		100			
	Py	FP	altered feldspar phenocrysts. Biotite varies from 2-5%			1/4		
31		FP		31.1 m				
	Py		Tourmaline vein – radiating xls.				240	74C
32	Po					1/2		
	Py		Minor dissem cpy ass'd with dissem. po.		100			
33	Cpy					1/4		
	Py			33.5 m				
34	Py		Green sericite alteration of feldspars in porphyry			1/4	240	75C
	Po				99			
35	Cpy					1/4		
	Py			35.4 m				
36	Py					1/4	240	76C
	Po					1/4		
37	Py				99			
	Po	FP	37.5m = an 8 mm Py – Po – tourmaline vn			3/4		
38	Py			38.4 m				
	Po					1/2	240	77C
39	Py, Po				100	1/2		
40	Cpy			39.9 m				
	Py					1/4	24	078C
41	Py			41.5 m				
42	Py		41.5 – 43.0m = 5 x 1–2 cm. altered			1/2		
	Po	FP	fractures ctg. Q – Ser – Py. These are					
43		FP	dark gray selvages. One of them ctgs.		100	1/4		
		A	abundant pyrrhotite.	43.0 m		1/4		
44		FP	43.0 – 43.5m = Grayish brown andesite				24	079C
			porphyry (altered feldspar phenos) dyke	44.5 m				
45		T	Upper contact ca. 20° to core axis and			1/4		

COMPOSITE DRILL LOG

CORE SIZE : | SCALE : | PROJECT : | HOLE No. RC 81-2

CASING COLLAR ELEV : | GROUND ELEV. : | DATE STARTED : | PAGE No. 4 OF 11

COORDINATES : N. E. | DATE FINISHED : | REF. TO CLAIM CORNER :

INCLINATION : | AZIMUTH : | TOTAL DEPTH : m | LOGGED BY T. M. ELLIOTT

ALTERATION: Q-Vn | Py-Vn | Sericite | Carb.-Vn | Chlorite | Tourmaline

COMMENTS:

AVG. CORE REC'Y/HOLE %

DEPTH (M)	FRACTURING	MINERALS	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
45		Py		Andesite porphyry dyke is later than the lacyer feldspar porphyry dyke	45.7m	69	1/4					
46		Py		43.9m = contact between feldspar porphyry and rhyolite. Contact is ca 40° to the core axis.								24 080 C.
47		Py	T				1/2					
48		Py		46-47m = pyrite is only in hairline fract.		100	3/4					
49		Py		48.4m = dull greenish gray andesite porphyry dyke w. ca 5% 1-4mm white feldspar	48.8m		1					
50		Py	A	phenocrysts. Contact is ca 25° to the core axis		79	—					24 081 C.
51		Py		49.0m = feldspars are sericitized.	50.6m		—					
52		Py				100	—					24 082 C.
53		Py		53.2m = 5mm. Q-Chl amygdules	53.6m		—					
54		Py		Rock is extremely massive			—					24 083 C.
55		Py	A			100	—					
56		Py			56.7m		—					
57		Py		Lower contact not well exposed			—					24 084 C
58		Py	A A A	58.2-58.6m = well fractured Probably core lost.		68	1/4					
59		Py	T	58.9-59.7m = very poor core recovery.	59.7m							
60		Py										

COMPOSITE DRILL LOG

CORE SIZ : SCALE : PROJ :
CASING COLLAR ELEV : GROUND ELEV. : DATE STARTED :
COORDINATES : N E. DATE FINISHED :
INCLINATION : AZIMUTH : TOTAL DEPTH : m

HOLE No. RC 84-
PAGE No. 5 OF 11
REF. TO CLAIM CORNER :
LOGGED BY T.M. ELLIOTT

ALTERATION: Q Vn, Py Vn, Sericite, Carb. Vn, Chlorite, Silicification

FRACTURING | MINERALS | GEOLOGY

COMMENTS :

AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

DEPTH (M)	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
60									
61	T: 61.1 - 61.3 m = 3-4% Po + Py at contact		96	1/2	*				24 0855 C
62	Quartz monzonite to granodiorite dyke			1					
	QM Mw. upper contact ca. 65° to the core								
63	axis. Rock is m.gr. to c.gr. (3 mm) and	62.8 m		1					
	ctys. 5% sheetty black biotite.								24 0856 C
64	Py Locally, cpy is abundant as disseminations			3/4					
	w. Po.		100						
65	T 63.0 m = 5-6 mm. py. vein			1 1/2					
	Py 63.4 m = lower contact of dyke ca. 50° to the								
66	core axis	65.6 m		3/4					
	66-67 m = 6 x 1 mm. py veins w. 3-7								24 0857 C
67	mm. silicified gray selvages			1					
	Py → Ditto for 63-68 m		100						
68				1					
69		68.9 m		1					
									24 0858 C
70	Py			3/4					
			94						
71	Py			1 1/2					
72		71.9 m		3/4					
	T 72-73 m = 10 x hairline pyrite veins								24 0859 C
73				1					
74				1					
75		75.0 m							

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJ :

CASING COLL. ELEV : GROUND ELEV. : DATE STARTED :

COORDINATES : N. E. DATE FINISHED :

INCLINATION : AZIMUTH : TOTAL DEPTH : m

HOLE No. RC :81-52

PAGE No. 6 OF 11

REF. TO CLAIM CORNER :

LOGGED BY T. M. ELLIOTT

DEPTH (M)	ALTERATION: Q.Vn.	Py.Vn.	Sericite	Carb.Vn.	Chlorite	Silicification	FRACTURING	MINERALS	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
75								Py	T	Rhyolitic tuff composed of 1-5mm angular lt. gray rock fragments				½					24 0140 C
76								Py						½					
77								Py					100	½					
78								Py				78.0 m		½					
79								Py						½					24 0141 C
80								Py	T	79-80 m = local strong stkwk of py + silica fractures			100	½					
81								Py		80.5 - 80.7m = silicified brown andesite dyke		80.5 m		½					24 0142 C
82								Py						1					
83								Py	T	82.0 - 83.9 m = locally strong buff to cream-coloured argillic alteration of rhyolitic tuff.			100	½					
84								Py				83.5 m		½					24 0143 C
85								Py					100	½					
86								Py				86.0 m		½					
87								Py		86-87 m = stwk. veining of pyrite in hairline fractures				1					24 0144 C
88								Py		87.8 - 88.0 m = shear zone - buff. to yellowish brown coloureation. Several white calcite veins in shear and adjacent to it			98	1					
89								Py	T			88.7 m		1					
90								Py					100	1					24 0145 C
												89.6 m							

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT :

CASING COLLAR ELEV : GROUND ELEV. : DATE STARTED :

COORDINATES : N E. DATE FINISHED :

INCLINATION : AZIMUTH : TOTAL DEPTH : m

HOLE No. RC 81-02

PAGE No. 7 OF 11

REF. TO CLAIM CORNER :

LOGGED BY T.M. ELLIOTT

ALTERATION: Q. Vn | Py. Vn | Sericite | Carb. Vn | Chlorite | Silicification

FRACTURING | MINERALS | GEOLOGY

COMMENTS :

AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

DEPTH (M)	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
90			3/4					24 096 C
91								
92		100	1½					
	92.7m		3/4					24 097 C
93								
94		100	3/4					
95	95.4m		3/4					
96								24 098 C
97		100	½					
98	98.5m		3/4					
99			1					24 099 C
100		90	3/4					
101	101.5m		½					
102			½					24 100 C
103		96	½					
104	103.9m		½					
105		100	3/4					24 101 C

91-92m = abundant small (3-6mm) patches of disseminated py and po.

92.7 - 93.2m = shear zone w. 1 x 4 cm. carbonate vein.

95.5 - 97.2m = buff-coloured pervasive argillic alteration.

98.5 - 100 m = buff-coloured pervasive argillic alteration.

99.8m = local clustering of tourmaline crystals.

103.5 m = beginning of shattered zone, which has been healed by a black mineral ?chlorite?

COMPOSITE DRILL LOG

CORE SIZE : | SCALE : | PROJ : | HOLE No. RC 81-2

CASING COLL. ELEV : | GROUND ELEV. : | DATE STARTED : | PAGE No. 8 OF 11

COORDINATES : N E. | DATE FINISHED : | REF. TO CLAIM CORNER :

INCLINATION : | AZIMUTH : | TOTAL DEPTH : m | LOGGED BY T. M. ELLIOTT

DEPTH (M)	ALTERATION: Q, Py, Py, Carb, Chlorite, Silicification	FRACTURING	MINERALS	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
105			Py Po	T	105-106m = abundant disseminated pyrrhotite			100	1½					
106			Py				106m		1					24 102 C
107			Py						¾					
108			Py		Rhyolitic tuff breccia		108.5m	100	1					
109			Py Po						1½					24 103 C
110			Py		109-110 m = dull green and dull brown alteration along a myriad of fractures that have been reheated			95	1					
111			Py Po	T	110.7m = some hard tourmaline? veins		111.6m		¾					
112			Py Po						¾					24 104 C
113			Py					100	1					
114			Py				114.6m							
115			Py						¾					24 105 C
116			Py Po		116m = abund. dissem. po ± py		116.7m	100	¾					
117			Py Po	T	117m - fracturing and alteration has diminished				1					24 106 C
118			Py Po					100						
119			Py Po		118.9m = Breccia composed of altered QMQ. Mms? fragments up to 4cm across a dk gray py and po-rich siliceous Bxa		119.9m	70	1					24 107 C
120			Py Po											

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJE : HOLE No. RC 81-7

CASING COLL. ELEV : GROUND ELEV. : DATE ED : PAGE No. 9 OF 10

COORDINATES : N E DATE FINISHED : REF. TO CLAIM CORNER :

INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY T. M. ELLIOTT

ALTERATION: Q.V/n | Py/n | Sericite | Carb.V/n | Chlorite | Silicification

DEPTH (m)	FRACTURING	MINERALS	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
120		Py Po	QM Bxa	cement. Frags. are rounded.			90	1/4					
121		Po				121.6m							
122		Po		121.6 – 122.0m = strong chloritization giving rock a mottled texture.			100	3/4 2					24 108 C.
123		Po		122 – 123 m = strong po – chl in matrix. 123 – 124 m – po – chl in matrix continues.		123.2m							
124		Po					100	3/4					
125		Po		Still abundant chlorite in matrix		125.6m		1/2					24 109 C
126		Po					100	1/2					
127		Py Po	QM Bxa	127 – 129 m = epidote mixed with chl and po. in the matrix.		127.7m		1/2					
128		Py Po					100	1/4					24 110 C.
129		Py Po		129 – 131m = epidote along some fractures 1mm Q.vn in rounded and altered fragment		130.2m		1/4 1/2					
131		Py Po		131 – 132 m = 1 – 2% epidote in bxa matrix				1/2					24 111 C
132		Py Po					100	3/4					
133		Py Po	QM Bxa	Fragments up to 10cm across		133.7m		1					
134		Py Po		134.6 m – epidote in matrix with chlorite.				1 1/2					24 112 C

COMPOSITE DRILL LOG

CORE SIZE : | SCALE : | PROJ : | HOLE No. RC 81-10

CASING COLLAR ELEV : | GROUND ELEV. : | DATE STARTED : | PAGE No. 10 OF 11

COORDINATES : N. E | DATE FINISHED : | REF. TO CLAIM CORNER :

INCLINATION : | AZIMUTH : | TOTAL DEPTH : m | LOGGED BY T.M. ELLIOTT

ALTERATION: Q Vn | Py Vn | Sericite | Carb. Vn | Chlorite | Epidote

DEPTH (M)	FRACTURING	MINERALS	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
135		Py Po	QM Bxa						1½				
136		Py Po					100						
137		Py Mo		137.0m = 3mm Q-Py-Mo vn in rhyolite fragment. (5cm across & rounded)		137.3m			1½				24 113 C
138		Py Po		Po & Py in blebs up to 3cm x 1cm in matrix.					1				
139		Py Mo					100		1				
140		Py Po		Chlorite content of rock now ca. 10% as alt^n. of biotite? in Q.M. and in matrix to fragments		140.2m			1½				
141		Py Po		Epidote in matrix and as hairline veinlets.					1½				
142		Py Mo		141-142m - py >> po in matrix			100		1				
143		Mo	QM Bxa	142m = minor MoS_2 in hairline fract. in Q.M. fragment		143.3m.			1				
144		Py Po		143.9m - breccia is now a bxa. of rhyolite fragments.					1				
145		Py Po					100		½				
146		Py Po		Sulphide content has diminished to ½%		146.3m.			½				
147		Py Po							½				
148		Py Po					98		½				
149		Py				149.4m.			½				
150		Py											

COMPOSITE DRILL LOG

CORE SIZE : | SCALE : | PROJ : RED CAP | HOLE No. RC 81-2

CASING COLLAR ELEV : | GROUND ELEV. : | DATE STARTED : | PAGE No. 11 OF 11

COORDINATES : N. E. | DATE FINISHED : | REF. TO CLAIM CORNER :

INCLINATION : | AZIMUTH : | TOTAL DEPTH : m | LOGGED BY T. M. ELLIOTT

DEPTH (M)	ALTERATION: Qz Vn	Py. Vn	Sericite	Carb. Vn	Chlorite	Epidote	FRACTURING	MINERALS	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
150								Py	AT	Chlorite abundance mainly in veins is now only ca. 2%			99	1/2					
151								Py	A	150.4 m to E.O.H. = strongly fractured				1/4					
152								Py	AA	and locally sheared chlo. brec.		152.4m		1/4					
153										END OF HOLE = 152.4m = 500 ft									

COMPOSITE DRILL LOG

CORE SIZE : NQ	SCALE :	PROJECT :	HOLE No. 81-3 : 81-3
CASING COLLAR ELEV: 1375.5m	GROUND ELEV.: 1375m	DATE STARTED : 2/8/81	PAGE No. 1 OF 17
COORDINATES : 1010 N. -1080 E		DATE FINISHED : 15/8/81	REF. TO CLAIM CORNER :
INCLINATION : -60°	AZIMUTH : 020°	TOTAL DEPTH : m	LOGGED BY B. HEMINGWAY

ALTERATION: Glomerlization, K-Feldspar, Sericite, Epidote, Chlorite, Silicification | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DESCRIPTIVE GEOLOGY

DEPTH (M)	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE No.
10–13		Coarse Talus – OVERBURDEN (OVB)			
13	F	Highly leached felsite hues of light yellow, mottled light brown, limonite in fractures and joints. Plagioclases altered to white clay. No mafics grain size < 1mm quartz phenocrysts prominent, feldspars recessive Qtz 30%. Fractures anastomosing – density 5 in an area of 20cm² Ml staining, As strong?	13–14.9m.	24%	
			14.9–16.5m	75%	
17		– Fault, gouge 3cm. Gossan zone with much boxwork Py disseminations and veinlets.	16.5–17.1m	95%	
			17.1–17.4	100%	
18		irregular contact, Silicification, bkn and rehealed w/ silica	17.4–18.9m	65%	
19		– Andesitic – dioritic dyke? – grey to dark grey – biotite? < 1mm groundmass 40% silica 55% feldspar plagioclase – heavily silicified with many veinlets containing sulphides within fractures within qtz veinlets. fractures anastomosing	18.9–19.8m	90%	
20	A	– Veinlets with Mo on outer walls – Py in center. Mineralization emplacement, then silica injection	19.8–21.0 m.	90%	TS7
21		– fractures filled partially with sulphides. Anastomosing	21.0–21.6m	50%	
22–23		– Bx – rounded fragments of bleached felsite	21.6–23.8 m.	20%	
24	F	– Veinlets 5cm wide qtz filled. Contact diffused, silica replacement – Veinlets < 1cm anastomosing Qtz, py filled. Irregular Felsite contact. As veinlet 4cm wide	23.8–25.3m	100%	
25					

COMPOSITE DRILL LOG

CORE SIZE : NQ
SCALE :
PROJ :
HOLE No. : 8
CASING COLLAR ELEV : 1375.5 m
GROUND ELEV. : 1375 m
DATE STARTED : 2/8/81
PAGE No. 2 OF
COORDINATES : 1010 N. -1080 E.
DATE FINISHED : 15/8/81
REF. TO CLAIM CORNER :
INCLINATION : -60°
AZIMUTH : 020°
TOTAL DEPTH : m
LOGGED BY : B. HEMINGWAY

ALTERATION: Cb Vein | Ca Vein | K-Spar | Epidote | Chlorite | Sil. Vein — FRACTURING — MINERALS — GEOLOGY

COMMENTS:

AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

DEPTH (M)	DESCRIPTIVE GEOLOGY
25	lite yl -white felsite.
	- Py blobs disseminations.
26	- Boxwork
	- bleached highly altered to calcite and silica clay
27	- Fracturing Anastomosing
28	- As veinlets 1mm wide. fractures filled with pyrite, As.
	- Anastomosing qtz veinlettes fracture with mineralization
29	density 5 fractures / 10 mm²
	1cm wide qtz veinlettes (barren) 1 every 60 mm
30	
31	- Veinlette 2mm wide braided Py, As
	- Rubble Zone. Veinlette // to core Axis, dense
32	Qtz filling
	- Veinlette 0° to core axis.
33	- Gouge 1cm wide Mineralization in fractures and
	as blobs. Pyrolusite?
34	- Felsite still bleached and altered to clay,
	calcite, quartz Fractures Anastomosing thru-out
35	section. Density at 34m 4 fractures / 20 mm²
	size of fractures < 1mm Qtz Veining roughly
36	1cm and less than wide. Py occurs in fractures & blobs
	- Qtz veinlette, barren braided.
37	- Mineralization in veinlettes and dissemination.
	- Many calcite, qtz veinlets now 5mm to 1cm
38	wide barren generally offsetted with long // to
	core axis fractures. Inclusion of Epidote altered very fine grained rock py disseminated. Fractures density 4 every 20 mm²
	- Veinlets 7mm wide. Py, Gn, As
	Rock thru-out section highly shattered and rehealed
	with qtz, calc. - Contact at 50° - Silica 3cm wide

MINERALS (noted in column): Py, Co, Py, Co, Py, Co, Mo, As, As, Py, Py, As, Cu, Ml, As, Py, Cu, Py, Py, Py, As, As, As, Py

DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
25.3 - 28.0 m	90%						
28.0 - 29.3 m	100%						
29.3 - 32.3 m.	100%						
32.3 - 35.4 m.	100%						
35.4 - 38.1 m.	80%						
38.1 - 39.9 m.	75%			758			

COMPOSITE DRILL LOG

CORE SIZE : NQ | SCALE : | PROJE : | HOLE No. : 81-

CASING COLLAR ELEV : 1375.5 m | GROUND ELEV. : 1375 m | DATE STARTED : 2/8/81 | PAGE No. 3 OF

COORDINATES : 1010 N. 1080 E. | DATE FINISHED : 15/8/81 | REF. TO CLAIM CORNER :

INCLINATION : -60° | AZIMUTH : 020° | TOTAL DEPTH : m | LOGGED BY B : HEMINGWAY

DEPTH (M)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
40					- Light Grey, matics altered to chlorite 10-20%									
41					- Appears to be a Granodiorite, Medium grained Qtz < 40% Plagio 50%. Matics 10-70%		39.9-41.5	70%						
42					K-Spar veinlettes are seldom but generally <1mm wide. Occurs every 30cm AVE. And also		41.5-42.1	50%						
43					have very sharp contacts with wallrock Mo mineralization associated but very insistent		42.1-42.7	55%						
44					- Very little veining, fractures density 10/20mm. Asp veinlettes not occurring as stem		42.7-44.5	10%						
45					- Silica enrichment (S)									
46					- Core highly broken, recovery very poor - Veinlette of As, Ga		44.5-47.5m.	30%						
47					- Many fractures thru-out section carries Py, Co - Calcite on many fracture planes, generally fractures are recovering									
48					- Veinlette of slight K-spar quartz 1cm wide Py, Mo									
49					Fracture on broken planes with also, epidote, chlorite, Slickensided surface on fracture plane		47.5-50.3 m.	15%						
50					Phenocrysts increasing in size 1-2mm									
51					Coarse clots of black chlorite?									
52					Magnetic along some fractures - Py		50.3-53.6 m.	15%						
53					- Fracture density 4 per 10cm^2									
54					- K-spar Veinlets 4mm wide, Mo, Co, Py		53.6-54.9m	65%						

COMPOSITE DRILL LOG

CORE SIZE : NQ	SCALE :	PROJ :		HOLE No. : 81-	
CASING COLLAR ELEV : 1375.5 m	GROUND ELEV. : 1375 m.	DATE STARTED : 2/8/81		PAGE No. 4 OF	
COORDINATES : 1010 N. -1080 E.		DATE FINISHED : 15/8/81		REF. TO CLAIM CORNER :	
INCLINATION : -60°	AZIMUTH : 020°	TOTAL DEPTH : m		LOGGED BY : B. HEMINGWAY	

ALTERATION: Calc vein | Py vein | K-Spar ve. | Epidote alter. | Chlorite vein | Silica vein — FRACTURING — MINERALS — GEOLOGY

COMMENTS :

AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

DEPTH (M): 55 – 70

Gd

Granodiorite as before

- K-Spar veinlette 1cm wide with fractures within containing Py, Mo and Epidote.
- Qtz dissy veinlette with Mo. K-Spar Veinlette // to Qtz veinlette - containing. At 56.7m 2 veinlettes of Kspar crossing 50° cutting 20° veinlette, no offset.
20° veinlette contains host-rock sericitization 3cm wide. (cm wide) 50° Veinlette contains more Silica, 20° contains Mo (50° Barren)
- Fractures contain PY, Disseminated pyrite now more prominent. Fractures still anastomosing, Density 4/20cm²
filled with PY, chlorite.

At 56.8 K-Spar veinlette, 6cm wide, with Epidote, pyrite fractures // to veinlette and contain within K-spar veinlette 40°
- After veinlette of K-Spar Granodiorite much darker more mafic phenocrysts. 40% hornblende altered to chlorite
50% plagioclase <10% quartz - Possible Diorite
Black mineral coating fractures (Pyrolusite?)
- At 62.0m Diorite grades progressively into Granodiorite.
More K-Spar veining
- At 60.6m Mo veining in Qtz vein within (45°) 10cm wide K-spar vein. - Many broken fragments of Qtz within K-Spar Vein is very typical.
- Much pyrite at 63.5 in fractures, veinlettes
K-Spar veining appears to stop at 62.5 approx.
65.6m Fault zone, clay, gouge, bleached, broken rock rehealed with calcite - sandy clayey cement. Anastomosing calc veinlets afterwards. - At 68.0m K-Spar heavily pyritized.
Py in dissemination throughout the section
- Rock much lighter color than below, in places appears a telsite

DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
54.9-55.5 m	50%						
55.5-56.1	50%						
56.1-56.7 m	65%						
56.7-56.8	100%						
56.8-58.2 m.	55%						
58.2-59.1 m.	50%						
59.1-59.7 m	50%			TS10			
59.7-60.4 m	25%						
60.4-61.6 m.	50%						
61.6-62.8 m	25%						
62.8-64.3 m.	40%						
64.3-66.3 m.	30%						
66.3-68.9 m.	50%						
68.9-69.5	0%						
69.5-70.1	45%						

COMPOSITE DRILL LOG

CORE SIZE : NQ	SCALE :	PROJ :		HOLE No. : 81	
CASING COLLAR ELEV : 1375.5 m.	GROUND ELEV. : 1375 m	DATE STARTED : 2/8/81		PAGE No. 5	OF
COORDINATES : 1010 N – 1080 E		DATE FINISHED : 15/8/81		REF. TO CLAIM CORNER :	
INCLINATION : -60°	AZIMUTH : 020°	TOTAL DEPTH : m		LOGGED BY : B. HEMINGWAY	

Column headings: DEPTH (M) | ALTERATION (Calc Vein, Py Vein, K-Spar Vein, Epidote alt., Chlorite alt., Silica vein) | FRACTURING | MINERALS | GEOLOGY | COMMENTS: / DESCRIPTIVE GEOLOGY | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DESCRIPTIVE GEOLOGY (70–84 m)

Geology: Gd

Granodiorite as before. Almost quartz monzonite.
- lighter color than before possibly quartz monzonite, less mafics
- Silica veinlette, chlorite Mo, Co.
- Felsitic dyke? very light pale yellow color, little mafics Mo. on contact a. diorite 20cm wide. Fe Staining around contacts. Fracture density 3/10mm² Mo in qtz veinlets
- K-spar alteration in veinlettes – rock too bkn to obtain measurement. Generally 1cm or less thick for veinlets. Scheelite occurs randomly in K-spar veinlets and very seldomly.

Pyrrhotite – occurs in K-spar veinlettes as well as magnetite.

Core extremely bkn up – poor recovery. Mo, Po, Py, Co in K-spar veinlettes. Some Mo disseminated as well. Py – Co – occurring with py

- Rock throughout section is badly bkn. RQD rarely exceeding 5%

K-spar veinlettes contain calc. Chlorite alteration of
= Magnetite, Po in veinlette. mafics throughout G.D.
- 1cm wide K-spar veinlette. Section K spar alteration patchy and spotty throughout
- Mo occurring (coating?) w/ mag. patches mainly. Fracture density of
- K-spar veinlette (broken) 2cm wide. 83.5m ~ 4/20mm²
- Magnetite Po in quartz veinlette – qtz first, Mag. Po last. 1cm wide K-spar veinlette (broken). Epidote alteration throughout

DRILLING INTERVAL	% CORE RECOVERED
70.4–70.7	50%
70.7–71.0	60%
71.0–71.5	75%
71.5–71.9	60%
71.9–72.5	80%
72.5–73.5 m	35%
73.5–76.2 m	40%
76.2–77.4 m	15%
77.4–78.3 m	15%
78.3–79.2 m	10%
79.2–80.2 m	5%
80.2–80.5	25%
[illegible]	30%
[illegible]	50%
[illegible]	5%
81.7–82.9 m	10%
82.9–84.1 m	75%
84.1–84.7	90%

COMPOSITE DRILL LOG

CORE SIZ : HQ	SCALE :	PROJ :		HOLE No. : 8	
CASING COLLAR ELEV : 1375.5 m	GROUND ELEV. : 1375 m	DATE STARTED : 2/8/81		PAGE No. 6 OF	
COORDINATES : 1010 N. -1080 E.		DATE FINISHED : 15/8/81		REF. TO CLAIM CORNER :	
INCLINATION : -60°	AZIMUTH : 020°	TOTAL DEPTH : m		LOGGED BY B : HEMINGWAY	

ALTERATION: Calc. Vein, Py Vein, K-Spar, Epidote, Chlorite, Silic. Vein | FRACTURING | MINERALS | GEOLOGY

COMMENTS: H – Hornfelsic areas of the G.D.

AVG. CORE REC'Y/HOLE

DEPTH (M): 85 – 100

DESCRIPTIVE GEOLOGY

– Granodiorite – Qtz Monzonite. Mafics much more fine grained than before. Open Fractures. Silic. veins irregular, blocky. Fracture density 4/10 cm². Qtz vein slightly offsetting K-spar veinlets by about 1cm. Qtz vein Mo. K-Spar Not mineralized. Also occurs at 84.7m Qtz vein offsetting K spar at an acute angle by 1cm. Qtz vein is Mo. mineralized, K-Spar Not mineralized. K Spar veinlets 5cm wide. Anastomosing at 87m. Mo on fracture planes at 88m. Again RQD < 5%. Fractures are generally mineralized. K-spar veins generally barren. At 88.1 some fractures show slickensides. Fine Py dessemination, occurs along fracture planes. Epidote on fracture surfaces. Qtz veins at 90m contain Mo, Some Cpy on fracture surfaces with Py associated. Phenocrysts of mafics much smaller now and < 15%. altered to chlorite at 90m. Fracture density at 92m is 4/30 cm². Mo spotty on surfaces. Veinlettes appear tight with wall rock. Mo on K-Spar veinlets at 91.5m – Spotty at 92m Mo associated with Po. Rock severely broken from 92.5 to 97.0m. Many Fractures contain spotty Mo, Py, Ca. Selvage around many fractures and veinlettes starting at 95m. Much K-Spar occurring thru-out rk. At 96.8m, rk contains many anastomosing fractures, filled with calcite, Py, Epid, chlorite, K-Spar, Mo, Ca. Density 6/10 cm². Bleached zones around veinlette at 97.7m. At 97.?m K-Spar & Qtz vein [illegible] veinlette Mo, py, Mag, po occurs [illegible] selvage around [illegible] a [illegible]. At 99.0 [illegible] v.f.g. – almost aphanitic. [illegible] Qtz filling. Selvage around veinlette at 98.8. Qtz veinlet at 40° contains Mo, py. 70° Qtz veinlette no mineralization.

DRILLING INTERVAL	% CORE RECOVERED
84.7–86.0 m	40%
86.0–87.5 m	95%
87.5–88.1	75%
88.1–88.7	100%
88.7–89.6 m	100%
89.6–90.5 m	65%
90.5–92.9 m	50%
92.4–93.3 m	50%
93.3–93.7 m	60%
93.7–94.5 m	75%
94.5–96.6 m	70%
96.6–97.5 m	100%
97.5–98.5 m	100%
98.5–99.1 m	90%
99.1–100.3	70%

SAMPLE No.: TS11 (at ~96 m)

% SULPHIDES | ESTIMATED | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

COMPOSITE DRILL LOG

CORE SIZE : NQ
CASING COLLAR ELEV: 1375.5m
COORDINATES : 1010 N. E.
INCLINATION : -60°

SCALE :
GROUND ELEV.: 1375
AZIMUTH : 020°

PROJ :
DATE STARTED : 2/8/81
DATE FINISHED : 15/8/81
TOTAL DEPTH : m

HOLE No. : 81
PAGE No. 7 OF
REF. TO CLAIM CORNER :
LOGGED BY : B. HEMINGWAY

ALTERATION: Calcite, Py Vn, K-Spar, Epidote, Chlorite, Silicification | FRACTURING | MINERALS | GEOLOGY | DEPTH (M)

COMMENTS: Δ - Broken Xtals

AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

Depth 100–115 m; Geology: Gd

- V.F.G Granodiorite ? as before (mica G.D.)
- Dusty K-Spar vein at 100.5m. Broken plagioclase matrix completely altered at Epidote. Almost aphanitic texture. Mo Disseminated at 101.1 K-Spar, QTZ, veinlets. Dusty, silky - sparry Mo. Fractures anastomosing, density 5/10mm² Selvage around many veinlets at 101.1
K-Spar parceling occurs around 102 - 104. Many veinlets broken and chopped. Fractures show displacements of up to 1cm and more on K-spar veinlets. Rock is generally pale green with mottled dk green and lg green areas. Fracture density at 104.5 (F.D.) 6/10mm² Dusty QTZ vein at 104.5. Again parcels of matrix altered to chlorite occurs thru-out section. Selvage around fractures. Veinlets at 105.4 K-spar and Mo on Silica next to wall rk. Selvage around thin fractures at 106m up to 1cm thick on both sides (Epidote Alteration) RQD to 107.3 < 2%. K-Spar Veinlets at 107.3 - a lens Mo. - Aphanitic groundmass at 107.4
Fractures tight and sealed with calcite (10/10mm² F.D)
Pyrolusite on some fracture planes. Chilled contact zone (108m) over a distance of .7m - Granodiorite or Granitic dyke Chill margin altered to calcite, K-Spar, Epidote. Very coarse grained Granitic dyke. It appears the surrounding rock is hornfelsic in composition or altered towards a hornfels but origin rock probably granodiorite. Granitic dyke mineralized along K-Spar veinlets w/Mo. From 108.5 to 110 rk. Hornfelsic very little py, MO, K-spar, Silica or Qtz veining. Calcite and dark green epidote alteration generally Plagioclase-like. At 111.3 - G.D. almost a Hornfels. Ca + Py in fractures. F.D.'s 4/20mm². Mo occurs as disseminations at 113 - V. little PY. 115m more Silica injection, bedded lg. color

DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
100.3 - 102.1 m	40%						
102.1 - 103.3 m	75%						
103.3 - 104.5 m	75%						
104.5 - 105.8 m	85%						
105.8 - 107.3 m	75%						
107.3 m - 109.1 m	0-% [unclear]			TS12			
109.1 m - 110.0 m	10-% [unclear]						
110.0 m - 111.3 m	40%						
111.3 - 113.1 m	95%						
113.1 - 114.0	95%						
114.0 - [illegible]	100%						

COMPOSITE DRILL LOG

CORE SIZE : NQ
SCALE :
PROJ :
HOLE No. : 81
CASING COLLAR ELEV. : 1375.5 m.
GROUND ELEV. : 1375
DATE STARTED : 2/8/81
PAGE No. 8 OF
COORDINATES : 1010 N. -1080 E.
DATE FINISHED : 15/8/81
REF. TO CLAIM CORNER :
INCLINATION : -60°
AZIMUTH : 020
TOTAL DEPTH : m
LOGGED BY B : HEMINGWAY

DEPTH (M)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
115							114.9–116.4 m.	95%						
117							116.4–117.7 m.	100%						
118							117.7–120.1 m	100%						
121							120.1–121.9 m.	70%						
122							121.9–122.8	100%						
123							122.8–123.7	100%						
124							123.7–124.4 m	95%						
125							124.4–127.4 m	100%			TS13			
128							127.4–129.5 m.	60%						

Descriptive geology (115–130 m):

Hornfelsic [illegible] as before
- Tiny K-Spar Veinlets along open spaces
- T.D.'s 6/70mm² Fractures still continuing
Epidote alteration of groundmass. It appears that Co ...
... are fractures, Mo very sparse and confined
to Qtz Veinlets which are less than 2mm thick.
RQD is increasing toward 60% from 117m → 121m
- Fractures are bleached and hematitic stained also
all micro fractures around main fractures also
hematitic and rock is strongly silicified - very little
sulfides. Probably a micro quartz monzonite or felsite.
Contact diffused. At 119m K-Spar Vein broken in
offset by calc. veinlette along plane 2cm. At 119.5m rk
is pale grey. very little sulfides no K-Spar, Plagioclase.
Epidote alteration. Contact again diffused. Mo very sparse
Pyrite confined to fractures. Epidote & Calc alteration along
fractures planes. Main Set At 50° to C/A. Contact
Probably sharp and faulted from Hornfelsic G.D. to
felsite. - Light color green halo on this
fractures anastomosing. As + Py filled. Plagioclase
>60% quartz 35% mafics + others <5%, slight epidote
alteration. Between 121m and 127m fractures mostly
mud calcite, broken (BKn) clay on surfaces, slickensided
Fault Zone - Gouge. Large chill zone between 119 and
121m
Felsite, plagioclase altered to clay and calcite.
Very little Mo, sparse dissemination and confined to
Qtz veinlets. epidote alteration on fractures. Qtz
veinlets are irregular. K-Spar patchy and not confined
to veinlets. D - Broken Xtals

COMPOSITE DRILL LOG

CORE SIZE	: NQ	SCALE	:	PROJ	:
CASING COLLAR ELEV	: 1375.5 m.	GROUND ELEV.	: 1375 m.	DATE STARTED	: 2/8/81
COORDINATES	: 1010 N 1080 E			DATE FINISHED	: 15/8/81
INCLINATION	: -60°	AZIMUTH	: 020°	TOTAL DEPTH	: m

HOLE No. :

PAGE No. 9 OF

REF. TO CLAIM CORNER :

LOGGED BY A : HEMINGWAY

ALTERATION: Calcite, Fluorite, K-Spar, Epidote, Chlorite, Silica | FRACTURING | MINERALS | GEOLOGY

COMMENTS: A – Broken Xtals.

AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

(Depth 130–145 m)

Contact between K-Feldspar porphyry felsite and Hornfelsic G.D. likely with inclusions of G.D within Porphyry Felsite. Approx contact 131.0m. Core severely broken R.Q.D. 45% starting at 129.5, in Felsite, 50% RQD. Mo very sparse. Epidote alteration confined to veinlets. Slickensides on some surfaces. K-Spar veinlets not prominent. Very little sulphides throughout section. K-Spar [illegible] calcite veinlets throughout. Mo associated with Qtz veinlets. Possibly xenoliths of Hornfels, [illegible] altered to Chlorite. Pyrite associated with mafics.

G.D. increasing in mafic content, G.D. mafics less diffused throughout section. K Spar veinlets more diffused no mineralization. Epidote on fracture surfaces. Actinolite exists on some fracture planes.

Anastomosing fracturing throughout at 141m. F.D is 4/20 cm.
- Dump qtz filling no mineral.
- Mo sparsely associated with K-Spar Veinlet at 141.5.

RQD is roughly 10%.

Epidote alteration less prevalent – confined sparsely to fractures. At 142 m. Fractures show selvage to 145m.
- Mo at 142.5 associated with Qtz veinlet – Sparse.
- Mo occurring in K-Spar veinlets and QTZ STRINGERS

Calcite veinlets throughout section

K-Spar disseminated within G.D

DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)
128.5–131.4 m	100%					
131.4–132.0 m	100%					
132.0–134.1 m.	60%					
134.1–137.2 m.	15%					
137.2–138.1 m	75%					
138.1–140.2 m	100%			TS14		
140.2–141.4 m.	95%					
141.4–142.0 m	100%					
142.0–143.3 m	85%					
143.3–144.5 m	100%					
144.5–[illegible]	100%					

ASSAYS

COMPOSITE DRILL LOG

CORE SIZE : NQ
SCALE :
PROJ :
HOLE No. : E

CASING COLLAR ELEV : 1375.5 m
GROUND ELEV. : 1375 m.
DATE STARTED : 2/8/81
PAGE No. 10 OF

COORDINATES : 1010 N -1080 E.
DATE FINISHED : 16/8/81
REF. TO CLAIM CORNER :

INCLINATION : -60°
AZIMUTH : 020°
TOTAL DEPTH : m
LOGGED BY : B. HEMINGWAY

COMMENTS: Δ - Broken Plagioclase phenocryst.
H - Hornfels.
S - Qtz or Silica veining not measured
K - K-Spar Veining not measured - bkn ground

AVG. CORE REC'Y/HOLE

DEPTH (M)	ALTERATION (Calc / Py / K-spar / Epidote / Chlorite / Silica)	FRACTURING	MINERALS	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
145	K E		Py	Gd?	Granodiorite as before.							
			Mo		-Epidote diffused or pervasive alteration (extreme)	145.1-146.3 m	40%					
146	K 50°	50°	Py	FP	-K-spar stringers not mineralized. Pyrite disseminated							
147	C 50° E		Py		on fracture surfaces. Possible contact at 146.3 m	146.3-147.5 m	100%					
	C E	50°	Py Cp		Granodiorite [illegible] - In contact with aphanitic							
148		35°	Mo Py		light green - epidote - plagioclase porphyry felsite, 60% plag							
	C K 50°	70°	Py		[illegible] 30% 10% epidote. Contact extremely							
149			Py		sharp < 1cm. Inclusions of GD in felsite	147.5-150.0 m	100%		TS15			
		40°	Py	ΔΔ ΔΔ	- K-Spar Veinlets with Py, MO fractures, contain within							
150	C				m 146.7 3cm wide. Fractures and Veinlets show							
	C	90°	Py Mo	Δ Δ Δ	slight selvage of calcite - some Py, calcite, epidote on							
151	C 80°		Py		surface. Bkn rubble at 147-147.5 Cpy present sparsely.	150.0-151.8 m	100%					
152	50°		Py	FP	Inclusion of Gd. in felsite at 148m. Py in felsite blebby							
	C	70°			Inclusion of GD in felsite at 148.5m - Contact diffuse and							
153	C	C 60°	Py Mo		not sharp. Mo in QTZ veinlets at 148.6 within felsite	151.8-152.6 m	80%					
	10%	40°	Py		F.D at 149.0m is 4/40mm² - Anastomosing							
154	3%	60°	Py		F.D increasing at 149.2 to 6/10mm². Fault zone at							
			Py		150.0m - Calcite Clay rounded fragments - gouge.							
155	10% 2%		Py	Δ ΔΔ	Calcite in matrix from 150-151 - Plagioclase altered in places.	153.6-156.1 m	95%					
					- saussuritization. Pyrite disseminations increasing to 2% at							
156	5% 10%		Py		157.0m. Selvage around py veinlets at 152.0m is							
	10%		Py	Δ Δ	chlorite. F.D is 5/10mm² - [illegible] calcite + Pyrite at							
157	50% C		Py Cp	ΔΔ	153.0m Calc >50% Py >2% Calc + Pyrite veinlets	156.1-157.3 m	85%					
			Py	Δ	predominant after 152.0m to 159m - Throughout section							
158	C 10%	60°	Cp Py	Δ Δ	Calc Pyrite chlorite increases steadily to at least 50% and	157.3-158.2 m	90%					
	10% 70°	10%	Mo		more of the rock.							
159	15				- At 158.5m Pyrite veinlets cross-cuts QTZ veinlets.	158.2-160.3 m	100%					
	30°				K Spar injection from 152-152.4 - Veinlets of chlorite							
160				FP	epidote - magnetite are contained within - Contact diffuse.							
					- Small K-Spar QTZ dyke?							

COMPOSITE DRILL LOG

CORE SIZE : NQ	SCALE :	PROJ. :	HOLE No. : 8
CASING COLLAR ELEV : 1375.5 m	GROUND ELEV. : 1375 m.	DATE STARTED : 2/8/81	PAGE No. 11 OF
COORDINATES : 1010 N. -1080 E		DATE FINISHED : 15/8/81	REF. TO CLAIM CORNER :
INCLINATION : -60°	AZIMUTH : 020°	TOTAL DEPTH : m	LOGGED BY B. : HEMINGWAY

COMMENTS: B Δ - Breccia fragments of various Granitic rocks

AVG. CORE REC'Y/HOLE

Columns: DEPTH (M) | ALTERATION (Calc., Py. Vein, K-Spar, Epidote, Chlorite, Silica) | FRACTURING | MINERALS | GEOLOGY | DESCRIPTIVE GEOLOGY | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DESCRIPTIVE GEOLOGY

Light green epidote-plagioclase porphyry felsite - Contact granite dyke - diffused. Fractures anastomosing but tight. Bottom contact blocky and irregular. Granite 20% K-Spar, 5% mafics, 50% plagio. 20-25% Qtz. Mo disseminated and within fractures that contain chlorite, pyrite - Mo in Qtz veinlets at 40° - 70° cross-cuts appears late and no mineral Mo - 162 m. K-Spar Granite Contact diffused but noticeable. Not as coarse grained as at 161 F.D. 4/10 mm²

- Chill zone at 167.2

Contact zoned at chill margin dyke mottled green - Rock dyke contact shows chill features, very fine grained with flecks of feldspar - granite. G.D. Felsite - Angular fragments, some show contacts with each other. K-Spar + Qtz veining every 1 meter - Granite breccia extends over many meters - possibly rehealed with K-Spar - Qtz. veinlets - tangled and anastomosing. F.D. 1/20 mm². Mo disseminated and in veinlets at 163.4 m. Possible Granodiorite that has been intruded and broken by K-Spar and Plagio Porphyry Felsite at 166 m. K-spar Selvage around fractures - anastomosing. Qtz veining at preferred angle 40-50° contain Co, Mo up to 166 m. At 169.2 m. K-Spar Dyke-intrusive has margin of GD. Contact sharp - irregular. Pyrite content of section < 1%. Bleached zone at 171 m. wide. RQD for section is roughly 75%. Qtz veinlets at acute angles to core axis contain Mo. Selvage around some fractures at 174.8

DEPTH (M)	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE No.
160			
161	160.0-160.6	66%	
162	160.6-163.4 m.	95%	
163			
164	163.4-165.5 m.	100%	TS16
165			
166	165.5-166.7 m.	85%	
167	166.7-167.9 m.	100%	
168	167.9-169.2 m.	100%	
169			
170	169.2-171.3 m.	100%	
171			TS17
172			TS18
173	171.3-174.0 m.	90%	
174	174.0-175.0	90%	

COMPOSITE DRILL LOG

CORE SIZE : NQ
CASING COLLAR ELEV.: 1375.5 m.
COORDINATES : 1010 N. −1080 E.
INCLINATION : −60°

SCALE :
GROUND ELEV.: 1375 m.
AZIMUTH : 020°

PROJ. :
DATE STARTED : 2/8/81
DATE FINISHED : 15/8/81
TOTAL DEPTH : m

HOLE No. : 8
PAGE No. 12 OF
REF. TO CLAIM CORNER :
LOGGED BY : B. HEMINGWAY

ALTERATION: Calc. | Pr. Vis. | K-Spar | Epidote | Chlorite | Silica — FRACTURING — MINERALS — GEOLOGY

COMMENTS: B Δ – Breccia fragment of various granitic rocks.
D – Xtals broken.

AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

Granitic Feldspar – Breccia as before
– cut by numerous feldspar Granite broken and rebanded with K-Spar – Silica
– Veinlet of Qtz 2cm wide with Mo on wall contact.
K-Spar around fractures but disseminated in matrix of rock. Calcite disseminated in matrix
Broken core at 177.5 – 178.0 Qtz Veinlette within Granitic-feldspar zone contains Mo. Pyrite on fractures very sparse
– Qtz veinlet at 179.6 Gossan K-Spar zone sparsely mineralized with Mo + Py. Calcite occurs with Chlorite and Pyrite in Veinlets. Calcite dyke at 180 m – little K-Spar. most Plagio. + Qtz veinlets. Qtz Xtals blue. Strong chlorite alteration above dyke RQD > 60%
– At 180 m – Rock appears to be chlorite altered Granodiorite.
At 180.5 m – Qtz Vein, contains Mo
At 181.7 m K-spar vein banded with Py veinlets above Fault Zone at 182 → 182.7 – Rock completely altered to clay and calcite. No staining, some chlorite. Anastomosing fractures filled with Chlorite, Calcite + Pyrite occur immediately above fault as well as K-Spar Vein at 75°. After fault rock appears to contain less K-Spar Veinlets and K-Spar – more like a Quartz monzonite – GD. mafics altered to chlorite. Plagioclase seal with blue qtz xtals at 183 m. Calcite disseminated in fractures at 184 m
Anastomosing qtz veinlets at 185 m contain Mo on wall surface but also a [illegible] in centre of veinlet. FD then [illegible] 6/20 cm²
186.1 – [illegible], clay, calcite – altered completely to Clay
at 189.9 – Calcite veinlet open w/ Xtals

DEPTH (M)	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
175–176	175.0–176.2 m	90%						
176–178	176.2–178.0 m	65%						
178	178.0–178.9 m	90%						
179–180	178.9–180.1 m	100%						
180–182	180.1–182.3 m	95%						
183	182.3–183.5 m	75%						
184	183.5–185.0 m	85%			1519			
185	185.2–186.2 m	90%						
186	186.2–186.5	100%						
187–188	186.5–188.4 m	90%						
189	188.4–18[illegible] m	85%						

COMPOSITE DRILL LOG

CORE SIZE : NQ	SCALE :	PROJ. :	HOLE No. : 8
CASING COLLAR ELEV : 1375.5 m.	GROUND ELEV. : 1375 m.	DATE STARTED : 2/8/81	PAGE No. 13 OF
COORDINATES : 1010 N. -1080 E.		DATE FINISHED : 15/8/81	REF. TO CLAIM CORNER :
INCLINATION : -60°	AZIMUTH : 020°	TOTAL DEPTH : m	LOGGED BY B : HEMINGWAY

COMMENTS: B Δ – Breccia fragments.
Δ – Xtals broken
S – QTZ injection.

AVG. CORE REC'Y/HOLE

Column headings: DEPTH (M) · ALTERATION (Cl, Pu Ve, K-Sp, Ep, Chlorite, Silica) · FRACTURING · MINERALS · GEOLOGY · DESCRIPTIVE GEOLOGY · DRILLING INTERVAL · % CORE RECOVERED · % SULPHIDES · ESTIMATED · SAMPLE No. · % SAMPLE RECOVERED · SAMPLE INTERVAL (M) · ASSAYS

Depth marks: 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205

DESCRIPTIVE GEOLOGY

Feldspar Granite Breccia as before.
– QTZ vein carrying Mo on wall and in center of vein. Broken fragment size up to 5 cm as before. Pyrite interstitially between breccia fragments. at 192.6 m Broken K-Spar Veinlet. Rock is becoming more like Plagioclase Feldspar Felsite and less than 5% mafics altered to chlorite at 194.5 m. Throughout the section to 195.7 m veinlets show broken edges and discontinuations. FD on average >4/10 mm². K-Spar fragments in Breccia – at 196.1 m Diffused QTZ Veinlet containing disseminated Mo. Sulfides past contact with fragments of Hornfels (?), Felsite. Chlorite alteration still present. Partly QTZ fragments.
Contact at first segment of Plagioclase Feldspar Felsite or Qtz Monzonite porphyry is at 196.1 m: – Continuous hair fractures (every 130 mm on average.) There are some veinlets that show chlorite selvages magnetite occurs as well as chlorite within veinlets: little K-Spar. – Grain size of plagioclase 2 mm Chlorite alteration of mafic phenocrysts. Pyrite on broken surfaces associated with mafic – chlorite phase. – In some places what biotite is altered to chlorite. Magnetite or Pyrrhotite occurs with chlorite – massive along some veinlets. Pyrite also occurs as disseminations with chlorite;
Thin Calcite veinlet (1 cm) at 200 m with mag, PY, chlorite.

K-Spar Blebs

DRILLING INTERVAL / % CORE RECOVERED

DRILLING INTERVAL	% CORE RECOVERED
189.6 – 190.8 m	100%
190.8 – 192.6 m	85%
192.6 – 194.5 m	85%
194.5 – 195.9	100%
196.9 – 198.1 m	50%
198.1 – 199.6 m	95%
199.6 – 201.8 m	100%
201.8 – 204.8 m	

Alteration column note: CHLORITE ALTERED MAFICS

COMPOSITE DRILL LOG

CORE SIZE	: NQ	SCALE	:	PROJ	:	HOLE No.	: 8
CASING COLLAR ELEV	: 1375.5 m.	GROUND ELEV.	: 1375 m	DATE STARTED	: 2/8/81	PAGE No.	14 OF
COORDINATES	: 1010 N 1000 E.			DATE FINISHED	: 15/8/81	REF. TO CLAIM CORNER	:
INCLINATION	: -60°	AZIMUTH	: 020°	TOTAL DEPTH	: m	LOGGED BY	B : HEMINGWAY

ALTERATION (Carb., Fe Vein, K-Spar, Epidote, Chlorite, Silica) | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DESCRIPTIVE GEOLOGY

Depth (M): 205 – 220

QM Qtz Monzonite or Plagio-Feldspar porphyry felsite as before. Continuous and massive

- Occasionally veinlets contain chlorite halos and pyrite coating. Fractures occur as breaks and contain relatively little mineralization
- At 208.5 Veinlet of Calcite, pyrite
- Occasional magnetite veinlets.
- Epidote patches in matrix

QM

- Qtz flooding with matrix 3cm wide - possible dilated veinlet.
- Chlorite fractures and veinlets occur every 0.3m

Alteration confined to mafic phenocrysts. Some veinlets contain chlorite, calcite, pyrite

RQD along most section is 90%

QM

DRILLING INTERVAL	% CORE RECOVERED
204.8 - 207.6 m.	100%
207.6 - 208.5 m	98%
208.5 - 211.5 m.	95%
211.5 - 213.1 m	100%
213.1 - 216.4 m.	95%
216.4 - 219.2 m.	100%

COMPOSITE DRILL LOG

CORE SIZE: NQ — SCALE: — PROJ.: — HOLE No.:
CASING COLLAR ELEV: 1375.5 m — GROUND ELEV.: 1375. m — DATE STARTED: 2/8/81 — PAGE No. 15 OF
COORDINATES: 1010 N. -1080 E. — DATE FINISHED: 15/8/81 — REF. TO CLAIM CORNER:
INCLINATION: -40° — AZIMUTH: 020° — TOTAL DEPTH: m — LOGGED BY: B. HEMINGWAY

DEPTH (M)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
220					Qtz Monzonite or Plagio-Feldspar Porphyry Felsite	219.2-222.2 m	100%						
221				QM	- Feldspathic Alteration less intense, confined to mafic phenocrysts which are declining in % of total phenocrysts.								
222		10°	Py		F.D is 1 every 0.3 m								
223	15°	20°	Py		Pyrite on fracture surfaces declining, becoming disseminated as fine grained	222.2-225.2	95%						
224	E				- Epidote patches <2mm in material over an area of 20 cm² - Sparse								
225					Some Selvage of chlorite around veinlets					TSF			
226	35°	50°	Py			225.2-227.4 m	90%						
227				QM									
228						227.4-230.4 m	11%						
229		10°			- Lost core - Ground rubble. RQD 0%								
230	10°		Py										
231					- Bleached zone	230.4-233.5 m	100%						
232					RQD roughly 90%								
233	15°	60°											
234	10°		Py	QM	- Veinlets of chlorite along low selvage.								
235													

COMPOSITE DRILL LOG

CORE SIZ: NQ | SCALE: | PROJ: | HOLE No.: 81
CASING COLLAR ELEV.: 1375.5 m. | GROUND ELEV.: 1375 m. | DATE STARTED: 2/8/81 | PAGE No. 16 OF
COORDINATES: 1010 N. -1060 E. | DATE FINISHED: 15/8/81 | REF. TO CLAIM CORNER:
INCLINATION: -60° | AZIMUTH: 020° | TOTAL DEPTH: m | LOGGED BY: B. HEMINGWAY

COMMENTS: Bl - bleached zone (clay minerals from original plagio - phenocryst)
B - Broken - Breccia rock fragment.

AVG. CORE REC'Y/HOLE

DEPTH (M)	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED
235		Same as before		
236		Chlorite veinlets shows some but sparse K-Spar?	235.5-236.5 m	100%
237	QM			
238	Bl	- Chlorite veinlets irregular - some show slippage. Bleached zone at 40° / core axis	236.5-239.6 m.	95%
239	B, B, Bl	- Gouge zone clay calcite, bkn. rounded fragment both in matrix while RQD - 80%		
240		Fault Zone from 238.7 to 240.2 m. Contact roughly 40°, based on Bleached zone and fracturing	239.6-242.6 m.	100%
241		- Calc Vein - 4cm thick.		
242	QM	Pyrite mineralization very sparse. <.5%		
243			242.6-245.7 m.	100%
244				
245				
246		- Chlorite patches - sparse. - Chlorite veinlets with good pyrite mineralization.	245.7-248.7 m.	95%
247				
248	QM	Qtz in contact rock decreases from 246 m at approx 10% to <5% at 255 m		
249	Fl	- Pyrite occurs as disseminations	248.7-251.5	
251		Fault Zone, .5m wide Gouge clay, bleached zone before		

Alteration column notes: Cl, K (236 m), 35° (237.5 m), 50° (238.5 m), 70° (240.5 m), 30° (241.5 m), 70° (242.5 m), 70° (246.5 m), 30° (248.5 m). Minerals: P_4.

COMPOSITE DRILL LOG

CORE SIZE : NQ | SCALE : | PROJ : | HOLE No. : 8

CASING COLLAR ELEV : 1375.5 m. | GROUND ELEV. : | DATE STARTED : 2/8/81 | PAGE No. 17 OF

COORDINATES : 1010 N. 1080 E. | DATE FINISHED : 15/8/81 | REF. TO CLAIM CORNER :

INCLINATION : -60° | AZIMUTH : 020° | TOTAL DEPTH : m | LOGGED BY B. : HEMINGWAY

ALTERATION (Calc. | Pyrite | K-Spar | Epidote | Chlorite | Silic.) | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

DEPTH (M)	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
250								
252								
	253.9 – 256.9 m	95 %						
254								
256	256.9 – 260.0 m	95 %						
258								
		100 %						
260								
262								
264								
266								
268								

Same as before QTZ Porphyritic feldspar - porphyry.

QM

- Pyrite veins with chlorite in patches.

- Calcite veinlets showing selvage of calcite veins by about 3 mm. Chlorite alteration is very sparse

- Disseminated Pyrite in veins with chlorite.

QM

- Fairly Pyrite in core with chlorite and possible sparse Chalco.

RQD 95% throughout Section

END OF HOLE 260.0m
863 feet.

COMPOSITE DRILL LOG

CORE SIZ: NQ	SCALE 1 : 100	PRO. RED CAP	HOLE No. 81-4 : 81-4
CASING COLLAR ELEV: 1375.5m	GROUND ELEV.: 1375m	DATE STARTED: 15/8/81	PAGE No. 1 OF 10
COORDINATES: N.A. N. E.		DATE FINISHED: 19/8/81	REF. TO CLAIM CORNER:
INCLINATION: -60°	AZIMUTH: 197°	TOTAL DEPTH: 505' m 154m.	LOGGED BY F. HEMINGWAY

DEPTH (M) | ALTERATION: Calcite, Pyrite, Veins K-Spar, Epidote, Chlorite, Silica | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DESCRIPTIVE GEOLOGY

10–15 m (Gd):

- Anastomosing fracture (tight with pyrite)
- Broken (Bkn) weak rk.
- Qtz vein horsetailing

Coarse Talus

- Bkn weak Granodiorite
- Anastomosing fracture. CASING

F.D. 4/20mm²

15 m onward (Gd):

Light Grey, mafic phenocrysts altered to chlorite, 15%. Mafic content, 50% Plagio, Qtz < 40%. Grain size <2mm. Qtz veinlets are discontinuous, due to slippage on fracture planes. F.D. 6/20mm². All fractures are mostly open with gravel or grit fillings. Core recovery moderate. RQD <10%. Many areas are completely shattered to a rusty grit and gravel. Pyrite occurs as disseminations (sparse) and in some tight fractures.

It appears to be a Granodiorite

Gravel from 11.9m to 18.3m

Qtz Veinlet at 18.6m anastomosing and discontinuous. 3mm wide also 18.6m. Qtz veinlet 5° - fractures show offset by later veinlet slightly pink - due to K-feldspar.

Pyrite occurs with chlorite in altered mafic phenocryst.

Bkn core at 20.1-21.9; 22.3-23.0; 23.3-24.0m.

- Trace of Mo in Fracture. Qtz. filled <1mm at 19.1m. at 20.1m Qtz vein blocky 1/2cm wide
- Core in this section highly bkn with rust and rock (smaller) fragments filling fracture planes.

DRILLING INTERVAL	% CORE RECOVERED
15.2-17.1m	20%
17.1-18.9m	60%
18.9m-20.1m	95%
20.1m-21.6m	70%
21.6-23.3	55%
23.3-24.3	45%

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE : PROJ : HOLE No. 81 – 4 :

CASING COLLAR ELEV: 1375.5 GROUND ELEV.: 1375 DATE STARTED : 15/8/81 PAGE No. 2 OF 10

COORDINATES : N E. DATE FINISHED : 19/8/81 REF. TO CLAIM CORNER :

INCLINATION : –60° AZIMUTH : 197° TOTAL DEPTH : m LOGGED BY B. HEMINGWAY

Column headings: DEPTH (M) · ALTERATION (Calc, Pyrite, K-Spar, Epidote, Chlorite, Silica) · FRACTURING · MINERALS · GEOLOGY · COMMENTS: DESCRIPTIVE GEOLOGY · AVG. CORE REC'Y/HOLE · DRILLING INTERVAL · % CORE RECOVERED · % SULPHIDES ESTIMATED · SAMPLE No. · % SAMPLE RECOVERED · SAMPLE INTERVAL (M) · ASSAYS

Depth (M)	Minerals	Geology	Descriptive Geology	Drilling Interval	% Core Recovered	Sample No.
25	Py		Granodiorite as before.	24.7–26.2m	15%	
26						
27	Py	Gd		26.2–28.7m	95%	
28	Py		-Epidote disseminations with chlorite around veinlets			
29	Py		RQD for section < 5%	28.7m–30.8m	85%	
30	Py		Almost all fracture faces extremely rusty and weathered.			
31	Py		No quartz veining present as well as NO calcite occurring as veinlets and disseminations	30.8m–32.3m	20%	
32	Py	Gd	-Anastomosing fractures at 33.4m F.D. 6/20mm²			
33	Mg		-Magnetite within pyrite veinlet	32.3–33.8m	50%	
34	Py		-Fracturing less closely F.D 3/20mm²	33.8–35.4m	80%	
35	Py					
36	Py		-BKn	35.4–36.6m	95%	
	Mo		-Qtz veinlets broken (Bkn) with a little K-Spar - Sparse Mo associated			
37	Py	Gd	Rock is finer grained and more chlorite altered.	36.6m–38.4m	75%	
38	Mg		At 37m Py veinlet showing some magnetite.			
	Mo		At 37.4m sericite occurs with chlorite?			TS20
39			irregular Q vein at 38m.	38.4m–41.2m	75%	
40			-BKN			

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJ : HOLE No. 81-4 :

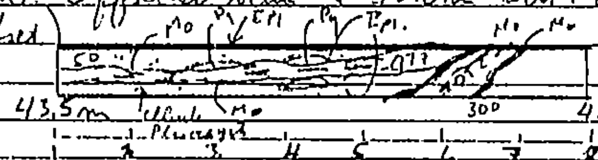
CASING COLLAR ELEV : GROUND ELEV. : DATE STARTED : PAGE No. 3 OF 10

COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :

INCLINATION : AZIMUTH : TOTAL DEPTH : m LOGGED BY B : HEMINGWAY

COMMENTS: BΔ - Broken rock fragments.
A - Intense silicification and alteration

AVG. CORE REC'Y/HOLE

DEPTH (M)	ALTERATION (Calc, Pot, K-Spar, Epidote, Chlorite, Silica)	FRACTURING	MINERALS	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
40			Py Co Py		Granodiorite as Before.	40.2-41.1m	30%						
41				GD	- Bkn, rusty fractures & weathering								
					- Malachite + Covellite appear sparsely Disseminated in matrix, Mo on Fracture surface								
42	C K E C			A	- at 41.1 QTZ vein Drusy	41.1m - 43.9m	95%						
43			Mo Py	A	At 41.2 Granodiorite completely altered to chlorite, quartz epidote, calcite Relict texture broken somewhat distinguishable. Fractures completely healed with quartz. Many QTZ stringers show Mo. K-Spar alteration confined sparsely to patchy areas (Epidote in patches along pyrite) (next to QTZ veinlets)								
44													
45			Mo	AD	chlorite confined to phenocrysts K-Spar around QTZ veinlets (selvage) Mo on sides of wall rock next QTZ and in veinlets	43.9m - 46.9m	95%						
46	E			π	veins. Offsetted vein at 43.0m with Mo (about 4cm of veinlet offset)								
47					Veinlet about 7cm ahead. CORE 43.58 AT 43.5m	46.9-47.5	50%						
48	K		Py Py			47.5m - 50.6m	95%						
49			Py		- Very little fracturing between 41.1 and 43.9m. No weathering features from 40.2 - 44.4m RQD Past 40.2m 65% - Section is extreme phyllic alteration, relict texture almost indistinguishable from Granodiorite								
50			Py		from 45.0m to 48.5m Aplanitic groundmass from 45.0m to 47.5m F.D at 49m 4/20 mm								
51			Py		At 49.5m Drusy, QTZ Filling, Calcite Alteration at approx 49.0m	50.6m - 52.1m	80%						
52			Py Mo	AD	Rock from 44.8m is getting finer and finer grained, groundmass is altered to a slight green chlorite color	52.1m - 55.5m							
53			Py	π	Unit could be a possible dacite - rhyolite sequence rather than a granodiorite of this point (Inequigranular), and the contact could be the altered phyllic zone								
54			Py		Rusty fractures from 44.0m - Still in weathering Selvage at 54.0m				1352				

COMPOSITE DRILL LOG

CORE SIZE : NQ | SCALE : | PROJ : Red Cap | HOLE No. 81-4 :
CASING COLLAR ELEV : | GROUND ELEV. : | DATE STARTED : 16/8/81 | PAGE No. 4 OF 10
COORDINATES : N E. | DATE FINISHED : 19/8/81 | REF. TO CLAIM CORNER :
INCLINATION : -60° | AZIMUTH : 197 | TOTAL DEPTH : m | LOGGED BY : HEMINGWAY

COMMENTS: BD - Broken breccia - rock fragments.

AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

Microgranodiorite? - Pacific feldspar porphyry - grey-green
- Fractures show selvage clay + pyrite filled
Still in weathering effects along fracture planes
- Core-planes and some fracture planes altered slightly
to chloride. Trace - Mo on quartz veins - disseminations
Diffused - Pyrite on fracture surfaces - Mo on others
- very strange. F.D at 56.0m 31/20 mm.
very weak chlorite alteration
Rock texture is shattered and rehealed by fractures.
Fracture surfaces appear to be filled with minty gypsite and
clay. QTZ veinlets on the average are not more than 1cm
thick.
- Epidote in veinlets - Diffused.
Bleached zone - rock appearing cut by many pyrite
and clay filled micro veinlets + fractures. Py with chlorite on some
fractures.
- Calcite veinlet at 60.5m shows chlorite at 70° to
the fracture face is roughly 80° to C/A
- Drill flutter 60.0 - 60.5m
At 62.7m - Pyrite veinlets have selvage of chlorite.
Generally < 1mm thick.
Rock generally has a texture of mottled
green. Its appears that fragments have diffused
edges (angular) to sub-rounded edges At 64.9m - fracture
filled with 7mm of clay
Strong pyrite (MM) fractures have strong fracture due to
weathering. At 65.8m pyrite veinlet shows selvage of
gypsite - Possible QTZ veinlet with pyrite disseminations in
veinlet. RQD 0/1 - 66m recovering to 80% up to 71.7m
Softness of (QTZ vein) on veinlet at 69.0m - 1cm thick.

DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED
55.5m - 57.6m	95%		
57.6m - 59.7m	100%		
59.7m - 61.9m	95%		
61.9m - 64.9m	95%		
64.9m - 67.4m	75%		
67.4m - 70.4m	60%		

SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS

COMPOSITE DRILL LOG

CORE SIZE : NQ	SCALE 1:100	PROJ : Red Cap	HOLE No. 81-4		
CASING COLLAR ELEV : 1375.5m	GROUND ELEV. : 1375.5	DATE STARTED : 16/8/81	PAGE No. 5 OF 10		
COORDINATES : N. E.		DATE FINISHED : 17/8/81	REF. TO CLAIM CORNER :		
INCLINATION : -60°	AZIMUTH : 197	TOTAL DEPTH : m	LOGGED BY B. HEMINGWAY		

COMMENTS: Bb - Brecciating fragments; Bl - bleached

AVG. CORE REC'Y/HOLE

DEPTH (M)	ALTERATION (Calcite, Kaolin, K-Spar, Epidote, Chlorite, Silica)	FRACTURING	MINERALS	GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
70–72			Py	AB / Bb	70.4m–72.2m	90%						
72–74.7	K, E, C		Py	AD / π	72.2m–74.7m	95%						
74.7–76.8	K, E, C, Q		Py	Bl	74.7m–76.8m	85%						
76.8–79.9	K, E, C, Q		Py, Mo	Bl	76.8m–79.9m	100%			152[illegible]			
79.9–81.4	E, K		Py	AD / π	79.9m–81.4m	90%						
81.4–83.5	K, E		Py, Mo		81.4m–83.5m	80%			152[illegible]			
83.5–85	E, Q			Ap / D	83.5–84.4	95%						

DESCRIPTIVE GEOLOGY

And-Pyrite porphyry breccia as before
- Mottled grey and green fragments size about 1-2cm²

All surface fractures still rusty

Chlorite finely disseminated through-out matrix

Radiating xtals of green mineral (actinolite)
- K-Spar halos around pyrite fractures (sparsely).
- 1cm wide qtz veinlet (drusy) with epidote in selvage.
- Many qtz veinlets have open spaces due to surface weathering of the pyrite - Chlorite in patches at 73.0m.
- Drill shatter. Pyrite and clay filling most fractures to about 74.7m - Pyrite + chlorite fills most fractures after words. K-spar + Qtz veinlet offset by 1cm

Bleaching around chlorite veinlet at 76.1m (.5cm)
- At 76.3m Calcite appearing in veinlets either by itself or associated with chlorite and pyrite
- Mo paint on fracture surfaces
- Calcite at 78.8m starting to occur as disseminations.
- K-spar sparsely around (halos) some fractures.
- Veinlet zoning, first chlorite (calcite) then epidote then bleached wall rock zone. Pyrite occurs with chlorite propylitic alteration in veinlets and fractures.

K-Spar occurs as selvage. Fp at 78.0m is 4/20mm
- Slurry at 79m - has bleached wall rock for 300mm either side. Clay white selvaged 6mm veinlet
- Weathering on fracture surfaces from 76.8m not as intense as before
- Another slurry at 80m
- At 80.5m Qtz vein 1.5cm wide with chlorite (epidote) on sides next wall rock - Granitic dyke at 83.6m to 84.0m - Another 3cm dyke at 85.0m.

COMPOSITE DRILL LOG

CORE SIZE: NQ — SCALE 1:100 — PROJ: Red Cap — HOLE No. 81-4

CASING COLLAR ELEV: 1375.5m — GROUND ELEV.: 1375m — DATE STARTED: 16/8/81 — PAGE No. 6 OF 10

COORDINATES: N. E. — DATE FINISHED: 11/8/81 — REF. TO CLAIM CORNER:

INCLINATION: -60 — AZIMUTH: 197 — TOTAL DEPTH: m — LOGGED BY: B. HEMINGWAY

COMMENTS: BD - Breccia fragment

AVG. CORE REC'Y/HOLE

DEPTH (M)	ALTERATION (Calcite, Pyrite, K-Spar, Epidote, Chlorite, Silica)	FRACTURING	MINERALS	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
85	C K E C		Py	AD π	- And-Dacite porphyry breccia in places								
			Py		- Pyrolusite on fractures (sparsely)								
86					- Chlorite and Pyrite occur in fractures	84.4m–87.2	85%						
87			Py		- F.D. at 87.0m 6/20cm² (includes chlorite and pyrite filled microveinlets)								
88	K E		Py	BD	- Epidote occurring with pyrite + chlorite veinlets with K-Spar halos RQD 60%	87.2m–88.7m	90%						
89	K E C		Py	D	- Calcite occurs in fractures - sparsely disseminated								
90			Py		- Clay alteration between 89.2 and 89.4 Plagio altered to clay.								
91	C E			B	- Laminated qtz vein ‖ to C/A	88.7m–91.7m	85%						
				BD	- Qtz + calcite appear in veinlets together								
92	C E		Py	BD	- Drill chatter								
					- Sparse Py. disseminations thru-out, occurs mainly in qtz-calcite veinlets	91.7m–93.0m	80%						
93				AD π	- calcite appears on edges of QTZ veinlets in contact with wallrocks. Also as disseminations within wallrocks immediately adjacent to QTZ veins								
94			Py Mo		Qtz vein density every 3cm (average)	93.0m–95.7m	70%						
95			Mo		- Drill chatter								
96					- Drusy Qtz veinlets with Mo in center.	95.7m–96.0m	70%						
97			Py		F.D. at 97.2 5/20cm².								
					- Surface weathering is non-existent at this depth.	96.0m–98.1m	95%						
98			Py		- Drill chatter Pyrolusite on fractures (spotty)								
99				AD π	- Chlorite alteration flow - radiating xtls at 99 - Actinolite?	98.1m–101.5m	70%						
					No calcite in veinlets or fractures until 100m.								

COMPOSITE DRILL LOG

CORE SIZE : NQ	SCALE :	PROJ : Red Cap	HOLE No. 81-1 :
CASING COLLAR ELEV : 1375.5m	GROUND ELEV. : 1375.0m	DATE STARTED : 16/8/81	PAGE No. 7 OF 10
COORDINATES : 101 N -1000 E.		DATE FINISHED : 19/8/81	REF. TO CLAIM CORNER :
INCLINATION : -60°	AZIMUTH : 197	TOTAL DEPTH : m	LOGGED BY B. HEMINGWAY

ALTERATION: Calcite, Pyrite, K-spar, Epidote, Chlorite, Silica | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | SULPHIDES % | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DESCRIPTIVE GEOLOGY

DEPTH (M)	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE No.
100		And-Diorite porphyry breccia as before			
101	AD π	- Drill Shatter.			
102		- Chlorite stained with K spar Halo RQD <5%	101.5-102.4	70%	
103			102.4m-102.9m	90%	
104			102.9-104.9m	75%	
105		- Drill Shatter			
106	AD π	- Qtz veinlet at 106.0m 20mm wide epidote in contact with wall rock. Qtz with calcite occurs in veinlet	104.9m-107.0m	100%	
107					
108	AD π	- Qtz veinlet 1cm wide with calcite, chlorite epidote - Qtz veinlet 3cm wide with Mo only, chlorite alteration wallrocks	107.0m-108.5m	100%	
109		- Fracture containing Mo.			TS24
110			108.5m-111.3m	100%	
111		- Fine grained hard siliceous rock			
112			111.3m-113.1m	100%	
113	AD π	- Qtz emplacement with calcite Sparse Mo in pyrite-stringers section RQD through-out section is 60%	113.1m-114.6m	90%	
115					

COMPOSITE DRILL LOG

CORE SIZE : NQ
SCALE :
PROJ : Red Cap
HOLE No. 81-4
CASING COLLAR ELEV: 1372.5m
GROUND ELEV.:
DATE STARTED : 16/8/81
PAGE No. 8 OF 10
COORDINATES : 1010 N -1080 E.
DATE FINISHED : 19/8/81
REF. TO CLAIM CORNER :
INCLINATION : -10°
AZIMUTH : 197
TOTAL DEPTH : m
LOGGED BY B: [illegible]

COMMENTS: H - Hornfels.

DEPTH (M)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
115	K E C Q		Py	AD π	And-Dacite porphyry [illegible]	146- 15.5m	KT						
116			Mo		- [illegible]								
117			Py		- 2mm wide Qtz veinlet	15.5m - 17.7m	100%						
118	K S		Py	H	- Intense silicification and chloritization. Relict plagioclase phenocrysts non-existent. Almost Hornfelsic. F.D 8/70 mm² - anastomosing and healed with chlorite								
119			Py	H		17.7m - 119.6m	100%						
120			Py	H									
121	K		Py	AD π		119.6m - 122.8m	100%			TS28			
122			Py	H.	- Small calcite clean								
123			Py	H	- Many fractures healed with chlorite	122.8 - 125.6m	100%						
124				H									
125			Py	H	- Patchy K-Spar Alteration								
126			Mo	H		125.6 - 128.3m	100%						
127			Py Mo	AD π H	Pyrite, chlorite occur together in veinlets. Mo with quartz veinlet. Epidote occurs with pyrite disseminations in fractures. Minor Qtz veinlet @ 30°	128.3m - 13?.?m	100%						

COMPOSITE DRILL LOG

CORE SIZE: VQ
CASING COL. ELEV: 1375.5
COORDINATES: 1010 N –108? E.
INCLINATION: –10°

SCALE:
GROUND ELEV.: 1375
AZIMUTH: 197

PROJ.: Red Cap
DATE STARTED: 16/8/81
DATE FINISHED: 19/8/81
TOTAL DEPTH: m

HOLE No. 81-4
PAGE No. 9 OF 10
REF. TO CLAIM CORNER:
LOGGED BY: R. HEMINGWAY

COMMENTS: H – Hornfelsic
Bl – Bleached

ALTERATION: Chlorite, Pyrite, K-Spar, Epidote, Chlorite, Silica | FRACTURING | MINERALS | GEOLOGY | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DESCRIPTIVE GEOLOGY

Altered Hornfelsic And-Dacite porphyry

Fault Zone

DYKE ANDESITE Fault contacted. – angle of contact undeterminable.

– Calcite + chlorite + pyrite occur in Healed fractures.
– Lost Core

– Chlorite veinlets quartz throughout
2mm wide quartz veinlet – chlorite on wall rocks
– Chlorite Pyrite disseminated – confined sparsely to veinlets 4/20mm² and disseminations
– From 136.1m to 140.2m. – Box was Tipped. information not reliable. but general for section
– There is one granitic dyke chlorite altered, contact at 25° with hornfels plotted in center of section.
– Throughout section chlorite altered in as finely disseminated in matrix. some fracture surfaces contain chlorite, pyrite, calcite, Others, but sparsely contain epidote. 2 qtz veinlets occur in section, about 7 m apart at 3mm wide no mineralization; Calcite mineralization very low but present.
– Granitic dyke at 140.4. Chill margin at 60° Pyrite Halo 1-2mm, Moly on Fracture surfaces – K-spar Altered.
– Actinolite in some fractures light green, radiating xtals.
– Broken. Stringers

– Qtz along slippage
– Actinolite

RQD 50%. FD ave. 3/20mm²

Sample No.: 1520

Drilling interval	% core recovered
130.1 – 132.6m	100%
132.6 – 133.8m	25%
133.8 – 135.0m	95%
135.0m – 137.2m	75%
137.2 – 138.0m	60%
138.0m – 140.2m	100%
140.2 – 141.4m	100%
141.4m – 143.2m	75%
143.2 – 144.5m	0%

COMPOSITE DRILL LOG

CORE SIZ :
CASING COLLAR ELEV.: 1375.5m.
COORDINATES : 1010 N. -1080 E.
INCLINATION : -60°

SCALE 1:100
GROUND ELEV.: 1375
AZIMUTH : 197

PRO : Red Cap
DATE STARTED : 16/8/81
DATE FINISHED : 19/8/81
TOTAL DEPTH : m

HOLE No. 81-4 :
PAGE No. 10 OF 10
REF. TO CLAIM CORNER :
LOGGED BY B. HEMINGWAY

COMMENTS: BΔ - Broken breccia fragments. H - Hornfelus.

DEPTH (M)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
145	K L Q		Py	AD H	Hornfelic And-Dacite	144.8–146.3m	100%			527			
146			Mo	H	- Shatter zone								
147	L K		Py	H	- Minor qtz veinlets.	146.3–147.8m	100%						
148	G		Py	H BΔ									
149			Py	H		147.8–149.7m	95%						
150	C		Py	H	- Chill margin or bleached zones								
151			Py	AD H	- Qtz vein Asp. Py 5-7% Stab 1-4mm roughly 1.5m wide.	149.7m–151.8m	100%						
152	C		Py	H	- Broken gouge.								
			Py	BΔ	- Bleached fragments.	151.8–152.7m	95%						
153			Py Mo	BΔ	- Bleached zone slight yellow-green	152.7–154.0m	100%						
				H	- Drill shatter.								
154	C K		Py	H	- Drill shatter								

END OF HOLE 81-4 154.0m.

155

156

157

158

COMPOSITE DRILL LOG

CORE: NQ	SCALE: 1:100.	PRO.: REDCAP	HOLE No. 81-5: 81-5
CASING COLL. ELEV:	GROUND ELEV.:	DATE STARTED: Aug 21/81	PAGE No. 1 OF 10
COORDINATES: N E.		DATE FINISHED: Aug 25/81	REF. TO CLAIM CORNER:
INCLINATION: -60°	AZIMUTH: 030	TOTAL DEPTH: 157.4 m (500')	LOGGED BY: B. HEMINGWAY

COMMENTS: ALTERATION ASSEMBLAGE CONSISTS OF VEINLETS / , DISSEMINATIONS ⁘ INTENSITY – Amount of Dots in a given area.

AVG. CORE REC'Y/HOLE

Column headings: DEPTH (M) | ALTERATION: Calcite, Pyrite, K-Spar, Epidote, Chlorite, Silica | FRACTURING | MINERALS | GEOLOGY | DESCRIPTIVE GEOLOGY | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

Depth marks: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21

Geology column: RD (approx. 7 m), Myl. (approx. 10.5 m), RD (approx. 13 m), BL (approx. 18.5 m), RD (approx. 19.5 m)

DESCRIPTIVE GEOLOGY

TALUS – Rhyolite fragments.

– pale grn-gy phenocrysts very fine grained & altered to chlorite, – very siliceous rk, difficult to tell quartz veining from rock, – massive – varcolored from light green to light yellow in places.

– Altered Rhyolite – Pouch sequence to various felsites depending upon mafic content

Alteration indistinct.

– Mineralization confined to veinlets, pyrite, chlorite occur as fine disseminations
– pyrolusite on surface fractures – weathering features indistinct
– Calcite veinlets contain disseminated Mo?
– Fault Zone at 10.6 – 11.3 Gouge,
– Myl – Mylonite
– Pyrite veinlets along selvages of chlorite. (Pyrite + calcite veinlets synonymous
– Anastomosing fractures and veinlets at 13.6 m.
– Rubble. Lost core

F.D. throughout core is 3/20 mm² ave.

– Lost core

– Bleached zone calcite – Qtz-calcite vein with bleached wall rock.
Mylonite : Fault zone?

DRILLING INTERVAL	% CORE RECOVERED
6.1 – 8.2 m	85%
8.2 – 9.4 m	85%
9.4 – 11.5 m	90%
11.5 – 12.5 m	100%
12.5 – 13.7 m	100%
13.7 – 15.8 m	35%
15.8 – 17.1 m	15%
17.1 – 19.2 m	85%
19.2 – 21.0 m	65%

COMPOSITE DRILL LOG

CORE SIZE: NQ
SCALE: 1:100
PROJ.: REDCAP
HOLE No. 81-5
CASING COLL. ELEV.:
GROUND ELEV.:
DATE STARTED:
PAGE No. 2 OF 10
COORDINATES: N. E.
DATE FINISHED: Aug 24/81
REF. TO CLAIM CORNER:
INCLINATION: -60°
AZIMUTH: 030°
TOTAL DEPTH: 152.4 m 500 ft.
LOGGED BY: B. HEMINGWAY

DEPTH (M)	ALTERATION (Calcite, Pyrite, K-Spar, Epidote, Chlorite, Silica)	FRACTURING	MINERALS	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	SULPHIDES %	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
21		70°	Mo, Py	BL	ALTERED RHYOLITE-DACITE → Felsite		21.0–22.3 m	90%						
22			Mo		- Qtz veinlet cut by fracture									
23		50°, 30°, 20°	Mo, Py	RD	- Pyrite occurs along Qtz veinlet sides. - roughly all Qtz veinlets sol.... [illegible] 1 cm wide (ave.)		22.3–24.1 m	65%						
24			Py		- Pyrite occurs with chlorite, calcite in fractures (anastomosing)									
			Mo		- Shatter.		24.1–25.3 m	100%						
25		30°	Mo, Ml		- Anastomosing Qtz veinlets with Py, Mo, Malachite staining on some fracture planes									
26		30°	Mo, Py		- Veinlet of Mo < 1 mm wide with selvages.		25.3–27.4 m	100%						
27		40°	Py, Mo		- Anastomosing Calcite pyrite veinlet						TS28			
					- MAFIC INCLUSION Fractures on the average occur between 40-70° HORNFELSIC F.D. 4/70 cm² ave (includes chlorite, pyrite,									
28		50°	Py, Mo	RD	- Drusy Qtz quartz veinlets) RQD 65%		27.4–29.3 m	95%						
29														
		40°	Mo, Py		- Bkn. DRUSY QTZ FILLING WITH MO		29.3–30.8 m	100%						
30		70°												
31			Py		- Chlorite veinlets 30, 10, 70° to C/A		30.8–32.3 m	95%						
32		50°, 40°	Mo, Py		- Slightly Pink - Qtz vein 1 cm wide									
33		30°	Py, Mo		- LOST CORE Shatter. Very little calcite between 30.0 m - 32.8 m		32.3–33.8 m	50%						
34			Py											
	E		Mo		- Dull shatter		33.8–34.7 m	60%						
35		55°, 50°	Mo, Py	RD	- Hydrothermal ... surface. Qtz vein at 20°, 70° contain Mo (outer edge)			55%						
36			Py		- Some vein of Qtz with 10% pyrite 3% Cpy (in center)			55%						

COMPOSITE DRILL LOG

CORE SIZE: NQ	SCALE 1:100	PROJ: REDCAP	HOLE No. 81-5
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED: Aug 21/81	PAGE No. 3 OF 10
COORDINATES: N. E.		DATE FINISHED: Aug 25/81	REF. TO CLAIM CORNER:
INCLINATION: -60°	AZIMUTH: 030	TOTAL DEPTH: 152.4 m (500')	LOGGED BY: B. HEMINGWAY

DEPTH (M)	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE No.
36	RD	Altered Rhyolite - Dacite → Felsite	34.7 - 37.5 M		
37	BI	- Calcite veinlets anastomosing, Chlorite veinlets anastomosing			
	BI	- Bleached zone (possibly Rhyolite - Contact diffuse)			
38	BI	- At 37.5 Gypsum on fracture surface	37.5 - 40.5 M	100%	521
	BI	- Actinolite along chlorite veinlet (dk g/n radiating xtals)			
39		FD ≈ 6/20 mm² RQD 50%			
40		- Qtz spray, 1 m apart.			
41		- Pyrite (Mo?) veinlets offset Mo - Qtz veinlets by about 1 cm	40.5 - 43.6 M	95%	
42		- Small calcite - Qtz stem some Mo			
		- Chlorite exists as fine disseminations in matrix and also in patches. - No chlorite veinlets			
43	RD	Generally Qtz - Veinlet with Mo occur at 30° and between 50-60°. Calcite veinlet ∥ to C/A almost.			
44		- Calcite - Qtz filled seam at 43.3 m	43.6 - 45.7 M	80%	
45					
46		- Lost Core	45.7 - 47.5 M	100%	
47		- Fracture has cut 1 cm wide Qtz veinlette with Mo			
48		- Pyrite (Mo) in Qtz veinlette 1 cm wide	47.5 - 48.8 M	100%	
		- Seam calcite, qtz, gouge			
49	RD		48.8 - 49.7 M	95%	
		- all calcite, pyrite, chlorite veinlets some epidote along veinlets			
50		- Rubble (Propylitic alteration)	49.7 - 52.0	75%	
51		- Qtz veinlets and some Mo			

COMPOSITE DRILL LOG

CORE SIZE: NQ	SCALE: 1:100	PROJ: REDCAP	HOLE No. 81-5
CASING COLLAR ELEV:	GROUND ELEV.:	DATE STARTED: Aug 21/81	PAGE No. 4 OF 10
COORDINATES: N. E.		DATE FINISHED: Aug 25/81	REF. TO CLAIM CORNER:
INCLINATION: -60°	AZIMUTH: 080	TOTAL DEPTH: 152.4 m (500')	LOGGED BY: B. HEMINGWAY

ALTERATION (Calc, Pyrite, K-Spar, Epidote, Chlorite, Silica) | FRACTURING | MINERALS | GEOLOGY | COMMENTS: / DESCRIPTIVE GEOLOGY | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DEPTH	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE No.
51		Altered Rhyolite - Pyrite - Felsite pale green color			
52	RD	- Many calcite fractures show hollow vugs - Drusy Amethyst (?)			
		- Broken - Drill shatter	52.6-53.6	100%	
53		- Calcite now disseminated in matrix			
54		- at 53.8 Qtz veinlet (1cm wide) has Mo on outer edges showing slippage by a cross-cutting calcite veinlette. Qtz occurs with calcite at 70° - at 54.1m	53.6-54.9	95%	
55					
56		- Fracture at 70° offset Mo - Qtz veinlet also at 70°	54.9-57.0	100%	
57					
58		- 10° Qtz veinlet sparsely mineralization with Mo			
	RD		57.0-59.4	95%	530
60		- Rock is very hard and siliceous	59.4-60.4	100%	
61		- Mo in fracture. Red mineral (cinnabar?) in Qtz veinlet with Mo, Pyrite	60.4-62.0 (?)	80%	
62					
	Bl	Bleached Zone - Clays, Chlorite (sparsely) Calcite, Pyrite disseminated	[illegible]	[illegible]	531
	Bl				
65		- Fragments light green color			
	RD	- Pyrite fractures show selvage (bleached).			
66					

COMPOSITE DRILL LOG

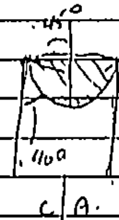
CORE SIZE: NQ
SCALE: 1:100
PROJ: REDCAP
HOLE No. 81-5
CASING COLLAR ELEV:
GROUND ELEV.:
DATE STARTED: Aug 21/81
PAGE No. 5 OF 10
COORDINATES: N. E
DATE FINISHED: Aug 25/81
REF. TO CLAIM CORNER:
INCLINATION: -60°
AZIMUTH: 030
TOTAL DEPTH: 152.4 m (500')
LOGGED BY: B. HEMINGWAY

COMMENTS:

AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

DEPTH (M)	GEOLOGY	DESCRIPTIVE GEOLOGY
66	RD	Altered Rhyolite-Dacite → Felsite pale gy-grn
		- Qtz veinlet, 5mm wide at 30° (66.1m) - Mo
67		- Chlorite veinlet Anastomosing (20°, 40°)
		F.D. at 66.5 m is 4/20 mm²
68		- Actinolite in Fracture at 67.0m.
		- Diffused contact of Bleached zone. (Kaolinite, disseminated) 70° TALC
69		alteration < 5%
		- Very hard and siliceous
70		- eccentric fracturing
		- Actinolite in disseminations, Calcite confined to veinlets.
71		- Mo occurs in pyrite veinlet.
		- Pink, hard, siliceous selvage around pyrite veinlets
72		- Persistent Qtz veinlets with Mo
	RD	Shatter - Hornfels (H) some areas contains mylonite/mafic.
73	H	- Chlorite occurs as a green matrix, disseminated.
		- At 73.3m Fracture at 40° contains MO (heavy) with
74		Slickenslides at 45° to plane face relative C/A.
		- Qtz veining 1 every
75		10cm - pyrite Mo.
		- At 75.0m 2 qtz
76		veinlets cross-cutting - Shatter at 76-76.5m
		40° cuts 30° offsets
77	H	at
		Qtz veins generally occurs at 30° & 45-50°.
78		Fractures - generally cut at 40-50°
	RD	Calcite at 77.0 occurs also as disseminations
79	H	At 78.2 m 75° Qtz veinlet offsets 45° Qtz veinlet by one cm
	H	fault filled with Mo (sparsely) (Qtz veinlets .3cm wide)
80	H	Some Qtz veinlets - vuggy (Calcite being redeveloped)
		- Some minor Tl? breaks



DRILLING INTERVAL	% CORE RECOVERED
65.2m – 68.0m	100%
68.0m – 70.1m	100%
70.1m – 71.9m	100%
71.9m – 72.8m	90%
72.8m – 75.?	[illegible]
75.? – 75.?	[illegible]
75.? – 7?.?	100%
[illegible]	[illegible]

SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS

COMPOSITE DRILL LOG

CORE SIZ :	SCALE 1 : 100	PROJ : Redcap	HOLE No. 81-5 :
CASING COLLAR ELEV :	GROUND ELEV. :	DATE STARTED : Aug 21/81	PAGE No. 6 OF 10
COORDINATES : N E.		DATE FINISHED : Aug 25/81	REF. TO CLAIM CORNER :
INCLINATION : -60°	AZIMUTH : 030°	TOTAL DEPTH : 152.4 m (500')	LOGGED BY B. HEMINGWAY

ALTERATION: Cl, Py, K-Spar, Ep, Chl, Silica | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DEPTH (M): 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96

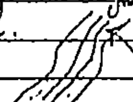
Geology column: H, H, RD, 81, RD, H, H, RD

DESCRIPTIVE GEOLOGY

Altered Rhyolite - Dacite - Felsite
- Calcite very sparsely disseminated and in veinlets. Pyrite confined to veinlets.
- Chlorite, calcite veinlets show selvage
- Qtz - Mo veinlet cross-cutted by chlorite - pyrite veinlet
- Qtz - Mo veinlets < 1cm wide (ave). F.D. is 5/20cm²
- Bleached zone as before. RQD ~ 85%

Calcite is disseminated at start then confined to veinlets
- Many chlorite - calcite veinlets in bleached zone show offset. Anastomosing

At 85.5m Qtz - Py veinlets anastomosing. Rock is hard and very siliceous after bleached zone.
- Shatter at 86.0m. Admixture with chlorite at 86.0m
- Broken Qtz veinlets at 87.3m.
- F.D 3/20cm²
- Veinlets contain a mixture of calcite center with Qtz outer with pyrite - chlorite
- Pale green homogeneous rock.



Qtz, Py, Chl.

- Chlorite occurs patchy.

Hornfelsing - more mafics in nature present

- Good Mo in calcite - Qtz veinlet 1cm wide. Red mineral present
- Chlorite microveinlets (anastomosing)

DRILLING INTERVAL	% CORE RECOVERED
81.1m – 82.9m	95%
82.9 – 84.1m	85%
84.1m – 86.6m	100%
86.6 – 90.7m	95%
90.7 – 93.3m	95%
93.3 – 95.7	100%

SAMPLE No.: 532

COMPOSITE DRILL LOG

CORE SIZE Q:	SCALE 1:100	PROJ: REDCAP	HOLE No. 81-5
CASING COLLAR ELEV:	GROUND ELEV.:	DATE STARTED: Aug 21/81	PAGE No. 7 OF 10
COORDINATES: N	E.	DATE FINISHED: Aug 25/81	REF. TO CLAIM CORNER:
INCLINATION: -60°	AZIMUTH: 030°	TOTAL DEPTH: 152.4 m (500')	LOGGED BY: B. HEMINGWAY

DEPTH (M)	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE No.
96		Altered Rhyolite - Dacite → Felsite			
	RD	- RD ... in anastomosing QTZ veinlets			
97		QTZ veinlets < 4 mm wide	95.7 - 98.5	100%	
		- QTZ veinlet shows complete break-offs or cut-offs			
98		by chlorite Py fractures.			
		- Sheared QTZ zone - QTZ fractures, anastomosing.			
99		- Good Mo on fracture at 10° with calcite - chlorite	98.5 - 100.3	95%	
		- Pyrite fracture shows smearing at 45° to the planes			
100		- Matrix becoming medium grey-green color - ... content			
		...			
101		- At 100 m chlorite fracture cut Mo - QTZ vein	100.3 - 102.4	100%	
		- At 101 m calcite - pyrite veinlets offsets 30° QTZ -			
102		- Mo veinlet (1 mm wide).			
		- Fracture at 101.1 m containing Py - Calcite (60°) Slickenside			
103		at 50° to C/A fracture plane	102.4 - 105.5	99%	
	RD	- Fracture at 101.4 m containing Mo - Calcite 40° Slickens			
104		at 70° to C/A Fracture plane			
		- Calcite veinlets increasing at 103.2 m.			
105	60°	- Very Siliceous and hard rock.			
	BL	- Bleached zone - to Clay, tale, original phenocrysts of			7533
106	40°	plagioclase altered to clay, size of phenos. 2 mm			
		... altered to chlorite. Possible granite dyke	105.5 - 107.5	100%	
107		altered and bleached			
		Very siliceous rock - probably chill zone			
108		Generally QTZ veinlets < .5 cm			
		- At 107.5 m qtz vein at 0° is cut by Pyrite - chlorite			
109	RD	veinlet at 70° completely	107.5 - 111.6	100%	
	HH	QTZ ... on 5° calcite veinlet at 70° Mo veinlet about 1 cm			
110		- irregular fracture controlled extent of bleached zone many			
		... veinlets anastomosing (As, Py, Mo, Cpy) Vein:			

COMPOSITE DRILL LOG

CORE SIZE: NQ	SCALE: 1:100	PROJ: REDCAP	HOLE No. 81-5
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED: Aug 21/81	PAGE No. 8 OF 10
COORDINATES: N. E.		DATE FINISHED: Aug 25/81	REF. TO CLAIM CORNER:
INCLINATION: -60°	AZIMUTH: 030°	TOTAL DEPTH: 151.4 m (500')	LOGGED BY: B. [illegible]

COMMENTS: AB - Brecciated fragments
H - Hornfelsite.

ALTERATION columns: Carb, Pink, K-Spar, Kaolinite, Chlorite, Silica | FRACTURING | MINERALS | GEOLOGY | AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

DEPTH (M)	GEOLOGY	DESCRIPTIVE GEOLOGY
111	BI	- Very altered wallrock to clay, talc, carb.
	BI	bleached Sulphide content roughly 3%.
112	BI	- Chlorite very sparse as well as calcite
	BI	Talc - Kaolinite fills fractures.
113	BI	- Probably Kaolinite - Montmorillonite - Quartz vein.
	BI	
114	BI	- Contact sharp.
	AD	- Altered Rhyolite - Dacite → Felsite
115	AB	- Very hard and siliceous
	H	Appears more like a brecciated altered Rhyolite
116	AB	fragments with altered Andesite + Dacite fragments
	H	probably all altered to different felsites.
117	AB	very little qtz veining throughout, fracture - dark
	H	green - gray with white plagioclase fragments in
118	AB	some areas. It appears that this is the same
	H	rock type as in 81-3 called Altered Granodiorite -
119	H	Hornfelsic Probably it's more like an Altered Dacite
	H	- Andesite Hornfels with some blocks of Rhyolite.
120	H	Dacite Hornfels in Altered Hornfelsic And-Dacite
		Breccia
121	H	At 119.[?]m [illegible] - Qtz Vein at 40° offsetted by Py-
	H	Qtz Veinlet at 30°.
122	AB	- At 119.8m Qtz Veinlet contains Calcite in Center with
	AB	Chlorite Pyrite Qtz on outer edges.
123	AB	- Calcite [illegible] [illegible] at [illegible] [illegible] 120.0 -
	AB	123.2m Pyrite veinlet at 123.7 contains Actinolite
124	AD	- Prominent Actinolite at 124.2 m
	H	- [illegible] [illegible] between 120 - 124.6m
125	H	
	RD	
	AB	- Rhyolite

DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES ESTIMATED	SAMPLE No.
111.6 - 114.6	95%		1534
114.6 - 117.7	100%		
117.7m - 120.1m	90%		
120.1m - 122.[?]	100%		
122.2m - 123.7m	[?]%		
123.7m - 125.[?]m	100%		

% SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

COMPOSITE DRILL LOG

CORE SIZE: [illegible] PROJ: Red Cap HOLE No. 81-5
SCALE: 1:100
CASING COLLAR ELEV: GROUND ELEV.: DATE STARTED: Aug 21/81 PAGE No. 9 OF 10
COORDINATES: N. E. DATE FINISHED: Aug 25/81 REF. TO CLAIM CORNER:
INCLINATION: -60° AZIMUTH: 030 TOTAL DEPTH: 152.4 m 500' LOGGED BY: B. HEMMINGWAY

DEPTH (M)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
126				RP	- Rhyolite		125.6-126.6	100%						
127				AH	Altered Hornfels - And-Dacite Breccia with Blocks of Rhyolite-Dacite.		126.6-128.0	100%						
128				AD π	Diffused on lower contact - not strong - gradational		128.0-129.0	85%			TS35			
129					- Extremely [illegible] fine grained. Mo in scattered veinlets									
130					- Calcite disseminated and in veinlets from 130.0m		129.0-131.7	90%						
131					- Anhydrite along some pyrite veinlets									
132							131.7-132.9	90%						
				AD π	E.D. [illegible] section. 6/20m². RQD 60%. Mo veins in Qtz veinlets, rarely in calcite veinlets.		132.9-135.9	90%						
					- Broken Qtz Veinlet									
133					- Calcite filled shear zone. 6cm wide. Broken fragments in [illegible]		135.9-138.4	80%						
				ΔB	- Banded Py veinlets // to core axis.									
				ΔB HH	- Breccia Hornfels zone									
					- Selvage around pyrite-chlorite veinlets (Bleached).		138.4-139.6	95%						
					- Broken									
				H	- Discontinuous qtz veinlets		139.6-	100%						
					- Pyrite occurs as dissemination in Calcite veinlets.									
					- Chlorite occurring as veinlets but generally fine disseminati[on]									

COMPOSITE DRILL LOG

CORE SIZE: NQ	SCALE 1:100	PROJ: Red Cap	HOLE No. 81-5
CASING COLLAR ELEV:	GROUND ELEV.:	DATE STARTED: Aug 21/81	PAGE No. 10 OF 10
COORDINATES: N. E.		DATE FINISHED: Aug 24/81	REF. TO CLAIM CORNER:
INCLINATION: -60°	AZIMUTH: 030°	TOTAL DEPTH: 152.4m m 500'	LOGGED BY B. HEMINGWAY

ALTERATION (Calc, Pyrite, K-Spar, Epidote, Chlorite, Silica) | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DESCRIPTIVE GEOLOGY | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DEPTH (M)	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE No.
141	AD π Altered Hornfelsic And-Dacite Breccia.			
142	Patchy Greyo-Green Brecciated 4cm - 8cm fragments			
	- Wavy Pyrite veinlet. Selvage bleached (Qtz)			
143	- Fault Zone Gouge, Calcite, Broken Fragments in a matrix of calcite, no pyrite or chlorite. A little silica	142.6m - 145.1m	55%	
144	- Wall rock bleached and altered to calcite			
145	- Contact distinct			
146	- Hard and siliceous	145.1m - 148.1m	100%	
147	AD π			TS36
148	- Mo on 40° Qtz veinlet			
149	- Mafic content increasing. Chlorite alteration including some actinolite	148.1m - 151.2m	95%	
150	F.D. is about 4/20cm²			
	- Cubic, RQD > 85%			
151	Chlorite & Pyrite occur in same veinlet. Also veinlets along laterally from Qtz-calc - pyrite to actinolite, calc & pyrite			
152	AD π - At 151.4m Qtz veinlet 1½ cm wide with Mo on walls	151.2 - 152.4	100%	TS37
	- at 152.0m rock appears to be Quartz monzonite but uncertain. - Feldspar Porphyry Fine-grained			

END OF 81-5 HOLE
152.4m (500')

COMPOSITE DRILL LOG

CORE SIZE: NQ
SCALE: 1:100
PROJ: Red Cap
HOLE No. 81-6 : 81-6

CASING COLL. ELEV: 1215.5m
GROUND ELEV.: 1215
DATE STARTED: 26/8/81
PAGE No. 1 OF 11

COORDINATES: N. E.
DATE FINISHED: 30/8/81
REF. TO CLAIM CORNER:

INCLINATION: -54°
AZIMUTH: 008
TOTAL DEPTH: 167.6 m 550'
LOGGED BY: [illegible]

ALTERATION (Calcite, Pyrite, K-Spar, Epidote, Chlorite, Silica) | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE

DEPTH (M) 15–30

DESCRIPTIVE GEOLOGY

Talus (Blocky)

Casing Depth 19.5m

Broken Blocky Talus to 32.3m.
Rusty along fracture planes, MnO_2 on some planes, Rock appears to be a coarse grained Granodiorite, cut by many veinlets of K-Spar Biotite < 5% partially altered to chlorite. Pyrite disseminations associated with chlorite. Plagioclase 40-50% as phenocrysts. K-Spar 30-40% as phenocrysts and veinlet fillings. Quartz 10% low to medium color index. Phenocrysts 1-2mm. Hornblende altered to chlorite.
Some areas are bleached to brown siliceous rock, possibly an altered Rhyolite within the talus section.

GEOLOGY: Gd

DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
19.5m–21.0m	5%						
21.0m–22.3m	10%						
22.3m–23.5m	15%						
23.5m–25.0m	10%						
25.0m–26.2m	45%						
26.2m–28.0m	90%						
28.0m–29.4m	60%						

COMPOSITE DRILL LOG

CORE SIZE: NQ	SCALE: 1:100	PROJ: Red Cap	HOLE No. 81-6		
CASING COLLAR ELEV: 1245.5m	GROUND ELEV.: 1245m	DATE STARTED: 26/8/81	PAGE No. 2	OF 11	
COORDINATES: N	E.	DATE FINISHED: 30/8/81	REF. TO CLAIM CORNER:		
INCLINATION: -90°	AZIMUTH: 008	TOTAL DEPTH: 167.6 m 550'	LOGGED BY: [illegible]		

ALTERATION: Calcite, Pyrite, K-Spar, Epidote, Chlorite, Silica | FRACTURING | MINERALS | GEOLOGY | COMMENTS | AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

DEPTH (M)	DESCRIPTIVE GEOLOGY
30	Granodiorite as before
31	
32	32.3m
33	Fresh rock - slightly rusty fractures and joints.
34	Pyrite occurs in clusters of about 1cm wide. F.D. 4/40mm²
35	Some Pyrite veinlets show a selvage of dark material (Covellite or Chalcocite associated with Py in veinlet (Wrapping around pyrite disseminations)
36	At 34.0m biotite veinlet partially altered to chlorite (25°)
37	- At 34.5m - irregular blob of K-Spar + Qtz. From 36.3 → 37.0m very siliceous zone (Rhyolite Altered?)
38	Bleached zone 37.0m — 38.8m
39	Qtz veinlets discontinuous, very little chlorite. Plagioclase altered to clay
40	Mo in disseminations and broken fractures (rebroken) at 38.0m.
41	K - Pinkish or bleblly K-Spar - irregular fragment of up 2cm X 1cm wide
42	- Chlorite - pyrite veinlet 1cm wide // a K-Spar-Qtz veinlet also 1cm wide
43	Kaolinite on some fracture planes at 43.3m. - Dull Shale -
44	- Mafic or fine phenocrysts altered to chlorite - chlorite veinlets mostly... At 44.1m K-Spar Qtz veinlet 3cm wide (Some calcite)

DRILLING INTERVAL	% CORE RECOVERED
29.4m – 32.3m	20%
32.3m – 33.5m	100%
33.5 – 34.4m	95%
34.4m – 36.3m	100%
36.3m – 37.5m	80%
37.5 – 38.4m	80%
38.4 – 39.3m	45%
39.3 – 40.2m	65%
40.2m – 41.5m	65%
41.5m – 43.6m	50%
43.6 – 45.1m	60%

% SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

COMPOSITE DRILL LOG

CORE SIZE : [illegible]
SCALE 1:100
PROJECT : Red Cap
HOLE No. 81-6
CASING COLLAR ELEV: [illegible]
GROUND ELEV.: 1245
DATE STARTED : 26/8/81
PAGE No. 3 OF 11
COORDINATES : N E.
DATE FINISHED : 30/8/81
REF. TO CLAIM CORNER :
INCLINATION : -54°
AZIMUTH : 008
TOTAL DEPTH : 167.6 m 500'
LOGGED BY [illegible]

DEPTH (M)	ALTERATION (Chl, Kaol, K-Spar, Epidote, Chlorite, Silica)	FRACTURING	MINERALS	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
45			Py	Gd	Feldspathic Granodiorite as before. - Drill Stutter. RQD Down-cut section < 5%. Biotite less altered to chlorite - Fresher appears in clusters. - Calcite center to K-Spar veinlet at 46.3m		45.1–46.3m	90%						
46			Py				46.3–47.5m	80%						
47			Py				47.5–49.4m	25%						
48			Py											
49			Py	Bi	- Drill Stutter Poor Recovery		49.4–50.9m	10%						
50			Py											
51			Py	H	- Hornfelsic zone. - Pyrite with chlorite as disseminations, biotite almost completely altered. Epidote sparsely.		50.9–51.8m	20%						
52	19° E 19° Q		Py	Gd	-Drill Stutter Some fractures show limonite staining due to weathering		51.8–53.6m	20%						
53	C K E Q		Py		↓ Q - QTZ veinlet broken or blobby QTZ section show silica (S) replacement thick-out section.									
54	E S		Mo	Bl	- Gouge at F.D 3/40mm² RQD < 5%.		53.6–55.2m	80%						
55				Bl	55.0m 7cm wide - crushed rock with clays.									
56	H S		Py	Bl	Rusty - Partially healed fault zone. - Mylonitic Particles around fractures. Mo occurs in thin microveinlets associated with chlorite. Pyrite veinlets show many slips. Plagioclase completely altered to clay product.		55.2–57.9m	95%						
57	H		Py	Bl										
	K E		Py	H	↓ Drill Stutter. Hornfelsic and chlorite in fractures and disseminations		57.9–59.1m	00%						
			Py	Gd	- Epidote along fracture planes - [illegible] to fracture along chlorite									

COMPOSITE DRILL LOG

CORE SIZE: NQ | SCALE 1:100 | PROJ.: Red Cap | HOLE No. 81-6
CASING COLLAR ELEV: 1275.5 m | GROUND ELEV.: 1275 m | DATE STARTED: 26/8/81 | PAGE No. 4 OF 11
COORDINATES: 1010 N − 1110 E. | DATE FINISHED: 30/8/81 | REF. TO CLAIM CORNER:
INCLINATION: −64° | AZIMUTH: 008 | TOTAL DEPTH: 167.6 m 500' | LOGGED BY: B. HEMINGWAY

DEPTH (M) | ALTERATION | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DESCRIPTIVE GEOLOGY | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

Depth 60 – 74 m. Geology: Gd

DESCRIPTIVE GEOLOGY

Feldspar Porphyry Granodiorite as before.
Biotite with pyrite - disseminated
Section 60 - 63.4 m
- Drill Shatter. Preferred breaking direction about 50-70° and 20-40°. (2 sets) RQD 0%
K-Spar Veinlet sig. < 3 mm wide
Sparse Epidote on Fracture planes 5/20 m² Eb
Biotite partially altered to chlorite, pyrite.
Qtz occurs with K-Spar veinlets. Mo occurs sparsely in K-Spar veinlet. Calcite occurs in microveinlets w/ epi, K-Spar
- At 63.2 m K-Spar occurs fluro-oid nature (flooding)
Some magnetite also occurs with K spar at 63.2.
- 4 cm wide Qtz veinlet (irregular at 35°) at 64.6
- Gouge at 64.6. — Fault Zone — from 64.0 m to 66.1
Mo occurs as disseminations and in Qtz veinlet (< 1 cm wide)
- Broken along weak fracture planes.
- Epidote alteration confined to fractures. some as disseminations. Chlorite completely alters Biotite to 71.0 m
- Chlorite alteration of Biotite not complete, occurs as disseminations from 71.0 m
- Fracture planes and breaks occur at 40-60° and 10-20° TS 38 - Fresh unaltered rock from 71.0 - 71.15
- Good Mo on Fracture surface at 70.1 m (35°) 1 cm wide with pyrite.
Complete alteration of plagioclase to epidote (waxy) at 70.1 m to 71.0 m). At 71.0 - 71.15 Fresh G.D. contains fine disseminations (sparsely) of Mo and Bornite.
Mo on Qtz veinlet 1 cm wide at 73.5 m (wall rock)
- Calcite occurs on fracture planes - show slickensides

Drilling Interval	% Core Recovered
59.1 - 61.0 m	95%
61.0 - 61.9 m	65%
61.9 - 63.4 m	95%
63.4 - 64.6 m	95%
64.6 - 65.5 m	60%
65.5 - 66.4 m	100%
66.4 - 67.4 m	65%
67.4 - 68.6 m	65%
68.6 - 70.1	95%
70.1 - 71.0 m	85%
71.0 - 71.9 m	95%
71.9 - 72.5 m	70%
72.5 - 73.6	[illegible]
73.6 - 74.7 m	[illegible]

Sample No.: TS 38 (at 71 m)

COMPOSITE DRILL LOG

CORE SIZE : NQ | SCALE 1:100 | PRO. : RED CAP | HOLE No. : 8-

CASING COLLAR ELEV : 1275.5 m. | GROUND ELEV. : 1275 m. | DATE STARTED : 26/8/81 | PAGE No. 5 OF 11

COORDINATES : N. E. | DATE FINISHED : | REF. TO CLAIM CORNER :

INCLINATION : -54° | AZIMUTH : 008 | TOTAL DEPTH : 167.6 m | LOGGED BY : B. HEMINGWAY

DEPTH (M) | ALTERATION (Calcite, Clay, K-Spar, Epidote, Chlorite, Silica) | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

Altered Feldspar Porphyry Granodiorite

- Calcite occurs along fracture planes as well as epidote, K-Spar as fine veinlets
Biotite partially altered to chlorite, pyrite
- At 75.6 m plagioclase altered to clay (sparsely), to 77 m
- At 77.0 m calcite veinlet planar showing slickenside at 20° to plane Axes surface
- 77.4 strong chlorite veinlet along slickenside at 15°
Fresh Biotite after 77.4 to 80.4 m
- hematite on some fracture planes at 80.2 m
- Lost core between 77.0 - 80.0 m
- Massive epidote, calcite, some chlorite veinlets from 80.6 - 81.6 m some disseminated pyrite
- K-spar veinlet 2 cm wide at 81.8 m

RQD > 30% FD 7/10 m²

= Broken at preferred angles of 40-50° and 10°-20°
Biotite fresh after 82.1 m. Epidote confined to fractures as well as calcite. Magnetite veinlet at 82.8 m
- Plagioclase altered to clay at 87.5 m
- K-Spar Veinlets < 3 mm wide - anastomosing
- [illegible]
- At 83.0 m good Mo on fracture planes with calc and white mica - sericite.
- At 83.8 m Mo as disseminations in Qtz veinlet
- Massive Epidote and calcite from 86.0 m to 87.5 m
- At 86.0 m Pyrite veinlet has hematite
- At 86.8 m Large 5 cm wall with [illegible] Massive calcite veinlet associated 3 cm wide. Fresh rock with Biotite
- Anastomosing K-Spar veinlets (< 2 mm wide) past 87.4 m

DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
74.7-76.1 m	80%						
76.1-77.4 m	95%						
77.4-79.9 m	30%						
79.9-80.8 m	75%			TS39			
80.8-82.3 m	85%						
82.3-83.5 m	100%						
83.5-84.7 m	90%						
84.7-86.0 m	65%						
86.0-87.5 m	100%						
87.5-88.7 m	45%						

COMPOSITE DRILL LOG

CORE SIZE : NQ — SCALE 1:100 — PROJECT : RIO CAP — HOLE No. : R... 6

CASING COLLAR ELEV : 1276.5 m — GROUND ELEV. : 1275 m — DATE STARTED : 26/8/81 — PAGE No. 6 OF 10

COORDINATES : N E. — DATE FINISHED : 30/8/81 — REF. TO CLAIM CORNER :

INCLINATION : -54° — AZIMUTH : 008 — TOTAL DEPTH : 167.6 m 550' — LOGGED BY B : HEMINGWAY

ALTERATION | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DEPTH (M): TC, 91

GEOLOGY: Gd, Gd, Bl, Bl, Bl, Gd, Bl, Bl

DESCRIPTIVE GEOLOGY

Altered Feldspar - Biotite Porphyry Granodiorite.
- K-Spar veinlet 3mm wide overlying. Density of veinlets 3/20mm². Biotite associated around K-Spar veinlets
- Plagioclase altered to clay
- Strong Chlorite, Pyrite, Hematite veinlet at 92.2 m. Chlorite selvage 1.5cm away from veinlet
- Plagioclase altered to Epidote. Calcite disseminated
- Strong epidote-calcite alteration of plagioclase from 92.3 to 93.3
- Strong calcite veinlet at 93.0 m 5cm wide with Good Mo
- Plagioclase altered to Clay from 93.3 to 94.3m. Calcite in fracture. At 94.5m good gypsum in veinlet (2mm)
- RQD - 35% to 95m FD 6/20mm².
- K-Spar flooding at 96.0m, about 20cm wide. Also Anhydrite interstitially with K-Spar
Plagioclase altering to clay at 97.0m to 99m
- Good Qtz veinlet at 97.0m with Mo (at 50° + 20°).
From 94.5 to 99.0 m Epidote + Calcite some chlorite and quartz veinlets broken predominant
At 100 m Qtz veinlet at 20° with Mo.
K-Spar selvage around many qtz veinlets from 100.0m to 103m Sparse Biotite
Average veinlet thickness < 2mm
FD in average 7/20mm
- Altered slightly at 103 and 104.3m
Disseminated within K-Spar veinlets, many calcite veinlets along epidote selvages. Biotite content increasing with K-Spar veining. - Some Biotite in veinlets at 103 - 104m

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE No.
88.7M 91.9M	100%	1540
91.9 M - 93.3M	100%	
93.3 M 94.5 M	95%	
94.5 M - 96.9 M	100%	
96.9 m - 100.0 m	95%	
100.0m - 103.0m	100%	
103.0m - 106.1m	100%	

COMPOSITE DRILL LOG

CORE SIZE: NQ | SCALE: 1:100 | PROJ: Red Crap | HOLE No. 81-6 |
CASING COLLAR ELEV: 1275.5m | GROUND ELEV.: 1275 | DATE STARTED: 26/8/81 | PAGE No. 7 OF 11 |
COORDINATES: N. E. | DATE FINISHED: 30/9/81 | REF. TO CLAIM CORNER: |
INCLINATION: -60° | AZIMUTH: 008 | TOTAL DEPTH: 167.6 m | LOGGED BY: B. HEMINGWAY |

DEPTH (M)	ALTERATION (Calcite, Pyrite, K-Spar, Epidote, Chlorite, Silica)	FRACTURING	MINERALS	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
105			Py, Mo	Gd	Altered Feldspar-Biotite Granodiorite porphyry.									
			Mo		-Anastomosing Qtz veinlets 5mm wide with Mo									
106			Mo		-Slightly Bleached.		106.1m–109.1m	100%						
107		30°	Py		-Anhydrite in matrix with some chlorite, pyrite.									
			Py		Biotite appearing as clusters and along veinlets at 107.5									
108			Py		- K Spar along chlorite-calcite veinlet 1.5cm wide									
109			Py		- Biotite as phenocrysts. Size of Plagio + Biotite phenos 3mm²		109.1m–112.2m	100%						
110				Fl	- Altered plagio to clays.									
111					-Epidote + calcite flooding.									
			Py		- Patchy K-Spar									
112			Py	Gd	- Biotite phenocrysts.									
					- Patchy K-Spar		112.2m–114.6m	90%						
113					- Shearing, Breccia									
114			Py		- Mod disseminated + massive pyrite									
			Py		- Massive Pyrite + calcite vein									
115			Py		- Local Mo associated		114.6m–117.0m	95%						
					- Massive Pyrite, chlorite calc									
					- Broken Xtals — Possible healed Fault Zone									
116			Py		- MASSIVE PYRITE WITH 3% MO Sulphide > 60% with calcite (45cm thick) - Pyrite lineated 70° (relict) xtal structure		117.0m–119.2m	95%						
			Py	Gd	- Gouge 1cm thick - crushed rock - calcite shearing									
					- Cu? Mo on calcite veinlets (10°) (lineated) at 117.6m.									
117			Mo		- Pyrite ... 118.0m effects calcite veinlets at 20°			100%						
					- Calcite chlorite along zone (119.5-120)									

COMPOSITE DRILL LOG

CORE SIZE: NQ	SCALE 1:100	PROJ.: Red Cap	HOLE No. 81-6
CASING COLLAR ELEV: 1275.3m	GROUND ELEV.: 1275m	DATE STARTED: 26/8/81	PAGE No. 8 OF 11
COORDINATES: N.	E.	DATE FINISHED: 30/8/81	REF. TO CLAIM CORNER:
INCLINATION: -50°	AZIMUTH: 008	TOTAL DEPTH: 167.6 m	LOGGED BY: B. HEMINGWAY

DEPTH (M)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
120				Gd	Altered Feldspar - Biotite Granodiorite porphyry								
121					- Numerous of Qtz veinlets with selected 1.5cm (with Mo)	120.7m–123.7m	100%						
122					- Chlorite Slump Zone. 10cm wide								
					- K-Spar patchy and in discontinuous veinlets - anastomosing								
123					- Calcite disseminated and in hairline veinlets.								
					Epidote as disseminations as well as chlorite								
124					Biotite almost completely altered to chlorite-pyrite	123.7m–126.8m	95%						
					- 1cm qtz veinlets at 123.5m with Mo.								
125					Mo occurs as disseminations in matrix (fine).								
					irregular fractures thru-out between (50-70°)								
126					- Plagioclase has altered to clay, K-Spar disseminated and in veinlets (< 3mm wide)					7541			
127					- Many K-Spar veinlets & Qtz veinlets anastomosing and discontinuous thru-out section from 122m →	126.8m–129.8m	100%						
128				Gd	At 127.0m Qtz veinlets dissemination has disseminated Mo on surface as well as pyrite								
					At 127.3m Qtz flooding in matrix with K-Spar								
129													
130					- Chlorite seam (1mm) at 30° contains good Mo at 133m	129.8m–132.9m	100%						
					- K-Spar flooding at 131.6.								
					- Anhydrite at 130.0 in fractures try 130.9 (Mo assoc.)								
131					- Massive Calcite - Qtz seam with good Mo. (10cm) thick								
					- At 131 - Qtz veinlets sheared (good Mo).								
132					- Massive Calc - Qtz seam with good Mo 40cm thick.								
133				Gd	Biotite plagioclase less altered	132.9–134.1m	100%						
					RQD. 95% F.b. 4/20m^2								
134					K-Spar veinlets								
					- Gypsum on fracture planes.								

COMPOSITE DRILL LOG

CORE SIZE : N/Q	SCALE 1:100	PROJ. : Red Cap	HOLE No. : 8
CASING COLLAR ELEV : 1275.5 m	GROUND ELEV. : 1275 m	DATE STARTED : 26/8/81	PAGE No. 9 OF 11
COORDINATES : N. E.		DATE FINISHED : 30/8/81	REF. TO CLAIM CORNER :
INCLINATION : -54°	AZIMUTH : 008	TOTAL DEPTH : 167.6 m 550'	LOGGED BY B. HEMINGWAY

ALTERATION: CLAY, Pyrite, K-Spar, Epidote, Chlorite, Silica | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DEPTH (M): 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148

DESCRIPTIVE GEOLOGY

Gd (Py, Mo)

Biotite occurring in phenocrysts and veinlets.
less altered.
- Chlorite fracture contains slickensides at 70° to core axis
- Decreasing Calcite veinlets (Frequency of veinlets decreasing)

- Gypsum veinlet (1mm) at 40° (Anhydrite)
Biotite not completely altered to chlorite occurs in clusters. Mo on fracture plane at 140.2 irregular.
- Anhydrite veinlet at 40° at 141.8 m.
- 60° Qtz. veinlet cut by Anhydrite veinlet at 15° (Calcite Associated with Anhydrite)

Gd

- Anhydrite veinlet at 45° at 143.3 m.
- Accompanying K-Spar + Qtz veinlets.
- Fracture with Good Mo on surface at 50°
- Very little calcite - confined to fractures and propylitic alteration zones - (Sparse and wide frequency 1/m)
- At 145.3 gypsum in veinlet
- Good Mo in fracture at 145.4 m (25°)
- Chlorite veinlet, 40° at 145.6 m
- Patchy Pyrite with Chlorite
- K-Spar occurring frequency 4/80 mm² avg.

Gd

- Biotite occurs in sooty veinlets and as disseminated (Potassic alteration) Chlorite very sparse
- Propylitic zone (20 cm wide) At 144.7 m Mo with gypsum
- Propylitic zone 5 cm wide Q - Qtz flooding at 150 m
- Qtz veinlet 1cm wide at 149.4 m with sparse Mo

DRILLING INTERVAL	% CORE RECOVERED
134.1m–137.2m	100%
137.2m–140.2m	100%
140.2m–143.3m	100%
143.3–146.3	100%
146.3–149.4	100%
149.4	

ASSAYS

COMPOSITE DRILL LOG

CORE SIZE	: NQ	SCALE	1 : 100	PROJ.	: R. Cy.	HOLE No.	: 8
CASING COLL. ELEV:	1276.5 m	GROUND ELEV.:	1275 m	DATE STARTED	: 26/8/81	PAGE No.	10 OF 11
COORDINATES	: N	E.		DATE FINISHED	: 30/8/81	REF. TO CLAIM CORNER :	
INCLINATION	: -54°	AZIMUTH	: 008	TOTAL DEPTH	: 167.6 m 550'	LOGGED BY	B : HEMINGWAY

DEPTH (M)	ALTERATION (Carb, Pyrite, K-Spar, Epidote, Chlorite, Silica)	FRACTURING	MINERALS	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
			Gy, Mo		Feldspar - Biotite Granodiorite as before								
151	X X E	50	Mo		- Gypsum + Mo in banded Qtz veinlet								
			Gy	Gd	- Mo and Epidote, calcite		100						
152	E	45	Gy, Mo		Biotite occurs in veinlets at 150.2 m.								
	C		Mo		- K-Spar veining frequency decreasing	152.4							
153			Mo		- Mo in fracture at 60° and at 152.4 with qtz.								
		50	Mo		Fracturing is generally at 40° - 50° & 50-60°								
154			Mo, Gy		- Gypsum veining at 20, -30° sometimes 60°. Frequency		100						
		54	Gy		Low in Qtz from 154.0 - 155.5								
155		40	Gy		Pyrite and specularite confined to disseminations								
			Mo		- Patchy K-Spar at 154.8 and Qtz.	155.4							
156	C E C		Gy		- Good Mo with one in qtz veinlet at 155.4 m at 40°								
			Mo	Gd									
157			Gy, Py				100						
158													
	C E				- Hematite in propylitic zone with chlorite slickenside	158.5							
159	C C E		Gy		at 159.7 m								
	C E C		Mo		- Propylitic zone calcite, epidote, chlorite + qtz veinlets	159.7	100						
160			Gy										
		60											
161			Gy		- K Spar and qtz veinlets continuing, generally < 2 mm		100						
					shed Biotite in clusters								
162			Gy			162.0							
163	C		Gy	Gd	- Propylitic zone, patches of epidote, calcite, chlorite								
	C				and qtz veinlets		100						
164	C E C		Gy		- Minor calcite veinlet at 164.2 m								
	C				RQD > 85°								
165	C E C Q				- MASSIVE GYPSUM Veinlet at 70° at 165.0 m	165.0							

COMPOSITE DRILL LOG

CORE SIZE : NQ SCALE 1:100 PROJ. : Redcap HOLE No. : 8

CASING COLLAR ELEV : 1275.5 GROUND ELEV. : 1275.0 DATE STARTED : 26/8/81 PAGE No. 11 OF 11

COORDINATES : N E DATE FINISHED : 30/9/81 REF. TO CLAIM CORNER :

INCLINATION : -54° AZIMUTH : 008 TOTAL DEPTH : 167.6 m 550' LOGGED BY B: HEMINGWAY

DEPTH (M)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
			Gy Mo		Feldspar - Biotite Granodiorite							
166	C E				- Minor Gypsum in veinlets at 30/70° Disseminated Mo							
	C E				- 80° Qtz veinlet 1mm wide contains Mo.		100					
167			Gy Mo		- Chlorite + calcite + pyrite fracture at 30° shows slickenside at 60°				TS42			
					- Epidote disseminated with some K-Spar		167.6					
168	E											
					END OF HOLE 81-6 at 167.6m (550')							
169												
170												

COMPOSITE DRILL LOG

CORE SIZE : NQ	SCALE 1:100	PROJECT : REDCAP	HOLE No. RL: 81-7
CASING COLLAR ELEV :	GROUND ELEV.:	DATE STARTED : Sept 1/81	PAGE No. 1 OF 9
COORDINATES : N	E.	DATE FINISHED : Sept 4/81	REF. TO CLAIM CORNER :
INCLINATION : -55°	AZIMUTH : 188	TOTAL DEPTH : 132.3 m	LOGGED BY B. HEMINGWAY

ALTERATION (Carb, Pot, K-Sm, Epidote, Chlorite, Silica) | FRACTURING | MINERALS | GEOLOGY | COMMENTS : | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DESCRIPTIVE GEOLOGY

DEPTH (M)	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED
10–14	Weathered. Broken Blocky Bedrock to 35.7 m Talus possibly down to 25.3 m Trace Malachite, Azurite, pyrite, goethite, limonite staining. Manganese staining (pyrolusite) prominent on fracture planes. The fragments appear to be an altered granodiorite to altering And-Diorite [illegible] felsic, [illegible] in places	10.0→13.1→14.0 M	40%
14–17	Rock [illegible] broken and difficult to ascertain types. But appears to be a leached Gr.D. to about 25.3 m. Then rock type appears to be [illegible] altered Diorite [illegible] very siliceous and mineralized with Cp and pyrite - K-Spar + Qtz veining No calcite present until 35.7 m	14.04 - 17.1 M	35%
17–20.7	Diorite appearing in particles and could be a breccia blocky - In other words Rock types alternate - are mixed [illegible] wide and could be a wide breccia contact area - Diorite Blocky	17.1→20.7 M	20%
20.7–24.4	Plagioclase [illegible] section altered to clay RQD < 2% F.D. 3/10 cm². - Contact not ascertained as to location but within 2 m - Diorite Blocky.	20.7 M - 24.4 M	35%

COMPOSITE DRILL LOG

CORE SIZE: NQ	SCALE 1:100	PROJ: REDCAP		HOLE No.: 8_7	
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED: Sept 1/81		PAGE No. 2	OF 9
COORDINATES: N.	E.	DATE FINISHED: Sept 4/81		REF. TO CLAIM CORNER:	
INCLINATION: -55	AZIMUTH: 188	TOTAL DEPTH: 137.3 m		LOGGED BY: B. HEMINGWAY	

ALTERATION (Calcite, Pyrite, K-Spar, Epidote, Chlorite, Silica) | FRACTURING | MINERALS | GEOLOGY | COMMENTS: | AVG. CORE REC'Y/HOLE | DESCRIPTIVE GEOLOGY | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DEPTH (M)	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED
25	AB	Altered Pyrite breccia (Hornblende).	24.4–27.1 M	40%
26	Dc Bra H			
27	H, H		27.1–29.9 M	65%
28	DB, H			
29	DD			
30	H, H		29.9–32.3 M	75%
31	Gd	- Granodiorite Block. Contact irregular. Broken contact (Attitude not certain)		
32	H, Dc Bra	- Shattered And.-Por. Decreasing surface weathering – confining to fractures only. Prominent Pyrolusite staining	32.3–35.1 M	85%
34	GD	GD - Broken contact; GD – Az – Azurite.		
35	GD	- Sharp contact	35.1 → 37.8 M	100%
36	DB, HB	- Pyrite veinlet with chlorite. Surface partially open. Fresh Rock – Weathering confined to fracture surfaces only. Pyrolusite staining not as prominent		
37	DB, H			
38	Dc Bra	Shatter rock resealed with chlorite, very siliceous and blocky at 36.5m. Pyrite veinlet at 36.5m with Cu. Sparse [illegible]	37.8 M → ?36 M	100%
39	DB	- Fault – gouge Zone. Mineralization confined to fractures (at 65°) and qtz veinlets (anastomosing).		
40	H	- Hornblende + Biotite [illegible]		

CORE SIZE: NQ	SCALE 1:100	PROJ: REDCAP	HOLE No. 7-7
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED: Sept 1/81	PAGE No. 3 OF 9
COORDINATES: N.	E.	DATE FINISHED: Sept 4/81	REF. TO CLAIM CORNER:
INCLINATION: -55	AZIMUTH: 188	TOTAL DEPTH: 137.3 m	LOGGED BY: B. HEMINGWAY

Column headings: DEPTH (M) | ALTERATION (Calcite, Pyrite, K-Spar, Epidote, Chlorite, Silica) | FRACTURING | MINERALS | GEOLOGY | COMMENTS: / DESCRIPTIVE GEOLOGY | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DESCRIPTIVE GEOLOGY

Depth (m)	Geology	Descriptive geology	Drilling interval	% core recovered	Sample No.
40–41		Altered Dacite Breccia (Hornfels in places) with Granodiorite blocks or stringers, dykes?	39.6–42.4 m	75%	
41		– Patchy K-Spar Alteration.			
42	Dc Bxa	– Surface weathering decreasing in fractures.			
42		– Propylitic alteration			
43		FD 4/20 mm²			
43		– Co in fractures RQD < 35% at 30° with epidote + magnetite.	42.4–45.4 m	85%	
44		– Patchy K-Spar flooding – Co disseminated			
45		– Drill Shatter			
45		– Calcite in fractures and disseminations with epidote and chlorite			
46		– Massive magnetite in QTZ veinlet (15°) at 45.7 m. (2 cm thick).	45.4–48.2 m	85%	
47	Dc	– Broken – Shatter preferred angle 50–60° and 30°			TS50
48	Dc	– Granodiorite dykes and stringers			
49		– Actinolite in pyrite veinlet	48.2–50.? m	100%	
50	Dc Bxa	– Drusy QTZ veinlet (2 cm wide) at 50°			
50		– Actinolite (radiating Xtals in veinlets with pyrite.			
51		– Chlorite veinlets Anastomosing with pyrite.			
51		– Broken – Shatter 60–70° preferred angle	50.?–52.7 m	90%	
52		– Sharp contact And dyke porphyritic – amygdaloidal.			TS51
52		– Actinolite in QTZ – Calcite veinlet at 50° (4 cm thick)			
53		– Very siliceous pale green (propylitic alteration)	52.7–55.5 m	100%	
54	Dc Bxa	– Broken – Shatter preferred angle 30–40° and 10–20°			
54		Vuggy QTZ veinlet at 50° with Actinolite.			
55		RQD Thru-out < 40%			

COMPOSITE DRILL LOG

CORE SIZE: NQ		SCALE: 1:100	PROJECT: REDCAP		HOLE No.: 81
CASING COLLAR ELEV:		GROUND ELEV.:	DATE STARTED: Sept 1/81		PAGE No. 4 OF 9
COORDINATES:	N.	E.	DATE FINISHED: Sept 4/81		REF. TO CLAIM CORNER:
INCLINATION: -55°		AZIMUTH: 188	TOTAL DEPTH: 132.3 m		LOGGED BY: B. HEMINGWAY

DEPTH (M)	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE No.
55	Altered And-Dacite Hornfels			
	- Massive calcite veinlette (10cm wide at 50°)	55.5m – 58.5m	95%	
56	- Actinolite and pyrite veinlets			
57–58	- Massive K-Spar veinlet at 58.6 m (50° 2cm wide). Epidote alteration very sparse confined to clusters			
59	- Mo (Sparsely) in Qtz. veinlets	58.5m – 61.4m	95%	
60	- Siliceous nature - very hard			
	- Massive K-Spar vein 30cm wide.			
61	- Actinolite in fractures			
	- Chill margin from 60.4 to 61.0m very siliceous, faint K-Spar disseminations.			
62	- Andesite, amygdules (calcite, very sparse, <1mm), massive, pyrite disseminations, feldspar dark-green ... Contact sharp at 25° at 66.0m. some fracturing	61.4m – 65.04	90%	
63–64	Calcite confined to amygdules, very little alteration			
65	- Contact irregular and broken			
	- Very siliceous and hard; some K-Spar disseminations (patchy) actinolite along fracture planes. Appears to be an altered Granodiorite	65.04 – 68.94	45%	
	- Mo in Qtz veinlet at 50°. / - Broken rubble in places] - Clasts of Andesite within fracture plane blocks.			
	- Massive Qtz and calcite with little epidote in matrix			
	- Actinolite in fracture planes			TS61

COMPOSITE DRILL LOG

CORE SIZE: NQ	SCALE: 1:100	PROJECT: REDCAP		HOLE No.: 7	
CASING COLLAR ELEV:	GROUND ELEV.:	DATE STARTED: SEPT 1/81		PAGE No. 5 OF 9	
COORDINATES: N.	E.	DATE FINISHED: SEPT 4/81		REF. TO CLAIM CORNER:	
INCLINATION: -55°	AZIMUTH: 188	TOTAL DEPTH: 132.2 m		LOGGED BY: B. HEMINGWAY	

Column headings: DEPTH (M) | ALTERATION (Calcite, Pyrite, K-Spar, Epidote, Chlorite, Silica) | FRACTURING | MINERALS | GEOLOGY | COMMENTS / DESCRIPTIVE GEOLOGY | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DEPTH (M)	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	SAMPLE No.
70	Altered Granodiorite – chill margin.	68.9 m → 71.9 m	65%	
71	- Chlorite – calcite + pyrite disseminations. thin-out			T353
	- Actinolite			
72		71.9 m → 75.0 m	100%	
73	- Contact Broken but possibly at 30°.			
74	ANDESITE – DARK GREEN WITH CALCITE AMYGDALES. (2mm thick			
75		75.0 m – 76.5 m	75%	
76				
77		76.5 m – 79.2 m	100%	
78				
79	- Broken ? then.	79.2 m – 81.7 m	100%	
80				
81				
	- irregular fault along contact	81.7 m – 84.1 m	90%	
	- Granitic Dyke – Mo in qtz veinlet			
	- Andesite			
	- Altered And – Dac breccia and Granitic Dykes			
	Barren			

Geology column: A (andesite) at approx. 75–76 m and 80–81 m; N, A, A/G at bottom. Minerals column: Py (pyrite) 70–73 m; Mo near bottom.

COMPOSITE DRILL LOG

CORE SIZE: NQ	SCALE 1:100	PROJECT: REDCAP		HOLE No.: 5-7	
CASING COLLAR ELEV:	GROUND ELEV.:	DATE STARTED: SEPT 1/81		PAGE No. 6 OF 9	
COORDINATES:	N.	E.	DATE FINISHED: SEPT 4/81	REF. TO CLAIM CORNER:	
INCLINATION: −55°	AZIMUTH: 188	TOTAL DEPTH: 132.3 m		LOGGED BY B. HEMINGWAY	

COMMENTS: NOTE: Drillers Report natural water return from 86.0m to end of hole.

AVG. CORE REC'Y/HOLE

Column headings: DEPTH (M) | ALTERATION (Calcite, Pyrite, K-Spar, Epidote, Chlorite, Silica) | FRACTURING | MINERALS | GEOLOGY | DESCRIPTIVE GEOLOGY | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DESCRIPTIVE GEOLOGY

Depth (m)	Geology	Descriptive geology
85	AD	- Altered And-Dacite breccia.
87	H	- Qtz veinlet shows disseminated pyrite aggregate to 3mm - no Mo
88		- Gouge
88	AD	- Rhyolite with Qtz stringers.
89	G	- Massive Qtz, calcite, with Mo and chlorite at 89.1m
89		- Massive pyrite veinlette at 70° at 89.3m
90	H	- Granitic dyke at 89.5m (10cm thick) No calcite throughout this section (from 89.6m)
91	H	- Brecciated
91–92	H	- Hornfelsing of And-Dacite rocks moderate.
93	AD	- Chill zone hard siliceous rock with epidote, chlorite veinlettes. Contact at 93.4m.
94–96	Gd	- Altered Granodiorite to epidote-chlorite-actinolite felsite. Light green to grey-green color mafics altered to pyrite, chlorite. Plagioclase and matrix pale green (epidote). Most qtz veins throughout section are barren.
97		- Bkn
98		- Massive qtz - dusty with ghosts of pyrite, calcite partially filled vugs (15cm wide).
99	Gd	- Massive qtz (10cm wide)
99		- Actinolite
100		- Massive qtz with actinolite - D[illegible]

Drilling intervals and core recovery

Drilling interval	% Core recovered	Sample No.
84.1m – 86.6m	85%	
86.6m – 88.1m	100%	
– 89.6	95%	
89.6 – 92.0	100%	
92.0 – 92.7	100%	
92.7 – 93.6	95	TS54
93.6 – 96.6	80%	
96.6 – 98.8	75%	

COMPOSITE DRILL LOG

CORE SIZE : NQ	SCALE 1:100	PROJECT : REDCAP	HOLE No. : 81-7
CASING COLLAR ELEV :	GROUND ELEV. :	DATE STARTED : Sep 1/81	PAGE No. 7 OF 9
COORDINATES : N E.		DATE FINISHED : 4/81	REF. TO CLAIM CORNER :
INCLINATION : -55°	AZIMUTH : 188	TOTAL DEPTH : 132.3 m	LOGGED BY B. HEMINGWAY

COMMENTS: Wide return

AVG. CORE REC'Y/HOLE

ALTERATION: Calcite, Pyrite, K-Spar, Epidote, Chlorite, Silica — FRACTURING — MINERALS — GEOLOGY

DEPTH (M)	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED
		Altered Granodiorite to Actinolite - chlorite, epidote	100.3	
		Feldspar. Hematite on fracture planes at 101.		90%
101	Gd	Rock extremely broken up. RQD < 15%	101.5	
		to 105.5		
102		Feldspar altered completely to clay from 100.2 to 100.9 m,		95%
		Qtz, some epidote, clay - montmorillonite?	102.0	
103		- Massive epidote and qtz at 102.5		80%
104		- Actinolite in patches and veinlets with chlorite, pyrite.	104.2	
		(Pyrite cubes > 1 mm size < 2 mm)		
105		- Qtz veinlets > 10 cm wide with many hollow vugs		85
		- Pyrite is associated with chlorite and epidote	105.5	
		- Qtz veinlets avg < 2 mm thick.		95
106	Gd	FD 3/40 cm² RQD > 50%	106.4	
		- Fracturing roughly between 30 and 50°.		95
107			107.6	
				95
108		- Qtz veinlet 3 cm wide at 40°. (vugs of pyrite ghosts	108.2	
				80
109			109.[illegible]	
110		- Actinolite		100
		- Mo in the qtz veinlet at 40°	110.[illegible]	
111				95
		- K-Spar flooding with broken qtz veinlets, Mo with Qtz.		
	Gd	- Pyrite patches	111.9	
112	Bl	Contact ... at 112.8 m		95
			112.8	
113	AD	- Actinolite		90
		Epidote - chlorite altered A. D. Dike unit.	113.7	
114		- Dull Slate ...		
		- Massive K Spar flooding, 15 cm wide at 114.5		35
115		- Some calcite	115.2	

ASSAYS

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COMPOSITE DRILL LOG

CORE SIZ : NQ	SCALE :	PROJ : Red [illegible]	HOLE No. : 8
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED : Sept 1 /81	PAGE No. 8 OF 9
COORDINATES : N. E.		DATE FINISHED : Sept 4 /81	REF. TO CLAIM CORNER :
INCLINATION : -55°	AZIMUTH : 187	TOTAL DEPTH : 132.3 m	LOGGED BY B : HEMINWAY

COMMENTS: Water return

Columns: DEPTH (M) | ALTERATION (Carb, Pyrite, K-Spar, Epidote, Chlorite, Silica) | FRACTURING | MINERALS | GEOLOGY | DESCRIPTIVE GEOLOGY | AVG. CORE REC'Y/HOLE | DRILLING INTERVAL | % CORE RECOVERED | % SULPHIDES | ESTIMATED | SAMPLE No. | % SAMPLE RECOVERED | SAMPLE INTERVAL (M) | ASSAYS

DEPTH (M)	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED
		Epidote - Chlorite Altered Andesite		
116	AD	- rubble		100
		RQD < 30%	116.8	
117		- Magnetite disseminated in clusters		50
118		- Drill Chatter	117.8	
		Pyrite disseminated and chlorite as well as in		66
119		fracture planes	119.2	
120		- Increase K-Spar : no qtz		70
		Pyrite content of core	120.1	
121		- Increasing pyrite veinlets at 10° ~ 2-3%		65
		disseminated + veinlets	121	75
122	AD	Pyrite cubes 2mm	122.1	
123				90
		- Mo on fracture, [illegible] (sparse).	123.7	
124				50
			124.4	
125		- Pyrite, chlorite, epidote, QTZ veins through-out		75
		section. K-Feld patchy and in areas	125.6	
126		- Mineralization (Sulphide) less to sparse		70
		F.D 4/20cm RQD < 20%	127.8	
127				
128	AD	- K-Spar [illegible] 5cm wide.		85
			128.6	
129		- Rubble		40
130			130.5	

COMPOSITE DRILL LOG

CORE SIZE : NQ
CASING COLLAR ELEV :
COORDINATES : N. E.
INCLINATION : -55°

SCALE 1 : 100
GROUND ELEV. :
AZIMUTH : 188°

PROJ : Redcap
DATE STARTED : Sept 1/81
DATE FINISHED : Sept 4/81
TOTAL DEPTH : 137.3 m

HOLE No. : 81-7
PAGE No. 9 OF 9
REF. TO CLAIM CORNER :
LOGGED BY B. HEMINGWAY

COMMENTS : Water Return on Hole

AVG. CORE REC'Y/HOLE

DEPTH (M)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS
					Epidote. chlorite And-Diorite	130.5						
131				AD	- Vuggy qtz-Spar veinlets - No calcite		80					
132					- Fault plain							
						137.3						
133					END OF 81-7 137.3 m.							
134												

DDH RC 81-2

DDH RC 81-1

DDH RC 81-6

DDH RC 81-7

DDH RC 81-3

DDH RC 81-4

DDH RC 81-5

1040N B/L

REDCAP LAKE

COPPER CREEK

MOLY CREEK

SYMBOLS

o Sample location

OMNI RESOURCES INC.

SOIL SURVEY GRID AND DRILL HOLE LOCATION MAP

FIGURE 3

SCALE 1:2500

0 50 100 150 200 METRES

0 200 400 600 800 FEET