

REPORT ON DIAMOND DRILLING

COYOTE 6 AND 8 CLAIMS

REVELSTOKE MINING DIVISION  
82 L/15

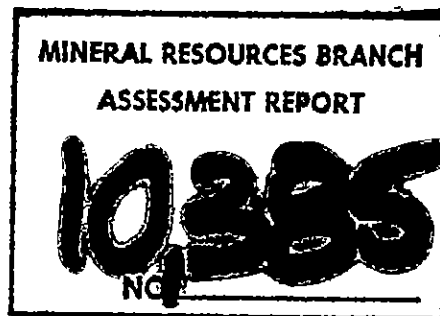
LATITUDE: 50°57' NORTH  
LONGITUDE: 118°55' WEST

OWNER/OPERATOR: HUDSON'S BAY OIL AND GAS COMPANY LIMITED

AUTHOR: P. BRESEE

WORK PERIOD: JUNE 1 - JULY 23, 1981

DATE SUBMITTED: APRIL 1, 1982



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## SUMMARY

1. Five holes totalling 898 m were diamond drilled on the COYOTE 6 and 8 claims.
2. Purpose of the diamond drilling was to test a molybdenite - bearing leuco-quartz granodiorite porphyry body and a peripheral I.P. chargeability - magnetics anomaly.
3. Diamond drilling intersected an intercalated metasedimentary - metavolcanic assemblage of upper greenschist metamorphic rank and confirmed that the quartz granodiorite porphyry body was conformable.
4. Mineralization intersected during drilling consisted of:
  - 1) minor molybdenite within the quartz granodiorite porphyry sill; and
  - 2) fracture plane, disseminated and blebby pyrrhotite, pyrite and minor chalcopyrite in the metavolcanics.
5. Best geochemical results were 1 m @ 90 ppm Mo in hole C81-3, 1 m @ 1 210 ppm Cu in hole C81-2 and 2 m @ 200 ppb Au in hole C81-3. Copper enrichments are associated with metavolcanic-hosted pyrrhotite - chalcopyrite stringers and gold enrichments with a quartz breccia.

## CONCLUSIONS

The presence of metavolcanic-hosted pyrrhotite - chalcopyrite stringers intersected during diamond drilling and massive sulphide mineralization encountered during the course of the 1980 exploration program suggest the claims have remaining potential for deeply buried volcanogenic massive sulphides.

## RECOMMENDATIONS

A program of deeply penetrative ground electromagnetics should be undertaken to assess the potential for buried massive sulphides on the claims. Borehole electromagnetic surveying of 1981 drill holes should be considered.

## INTRODUCTION

During the period June 1 - July 23, 1981, five holes (DDH C81-1 - C81-5) totalling 898 m (2 947 feet) were diamond drilled on the COYOTE 6 and 8 claims. Hole size of C81-1 and C81-2 was NQ (7.6 cm diameter) reduced to BQ (4 cm diameter). Size of holes C81-3, 4 and 5 was BQ. Mineral exploration personnel of Hudson's Bay Oil and Gas supervised the drilling that was performed by Phil's Drilling of 108 Mile, British Columbia. Core is stored at a clearing on the COYOTE 6.

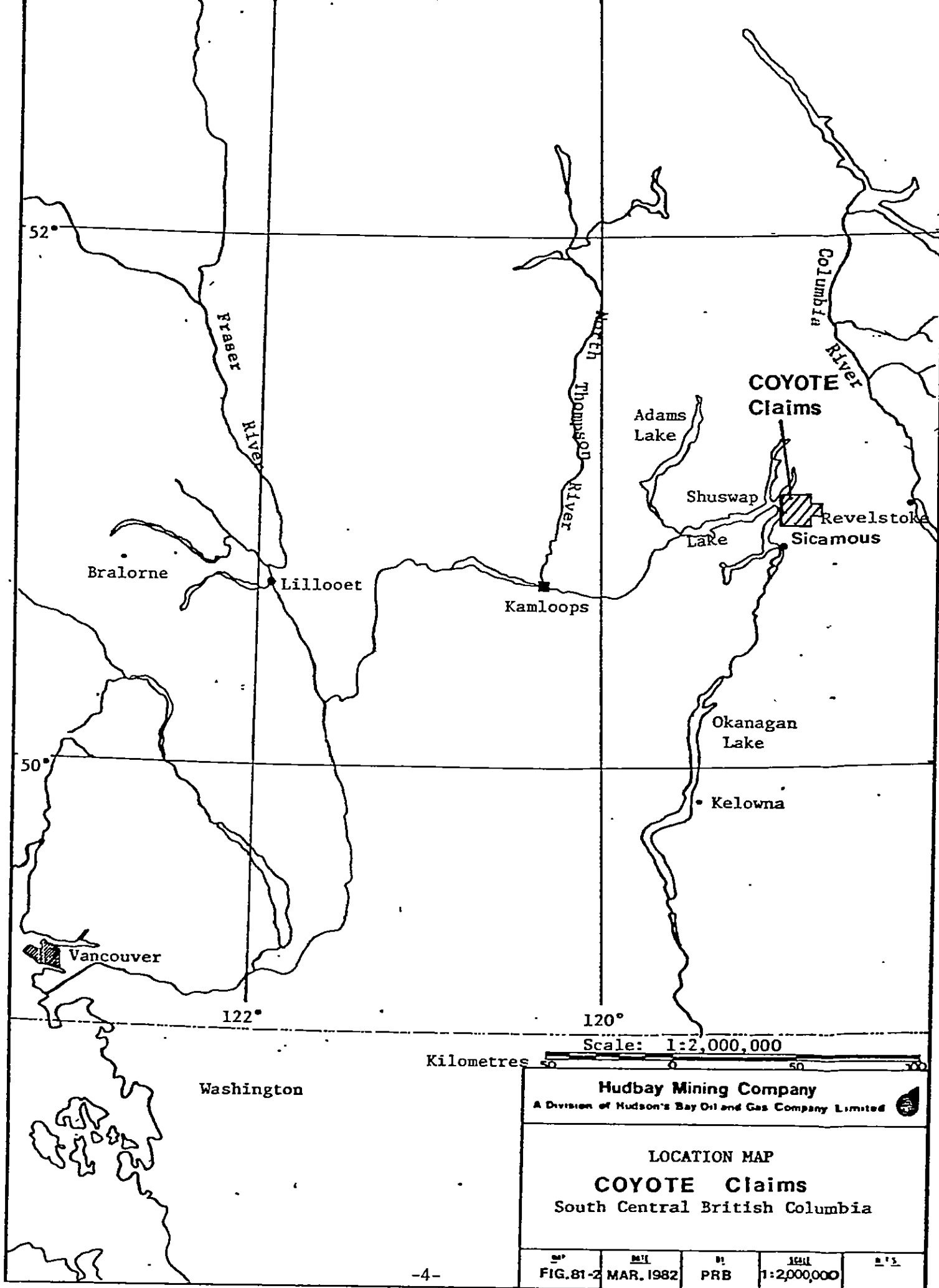
## LOCATION AND ACCESS (Figures 1 and 2)

The COYOTE claims are located on the north side of the Trans Canada Highway near Malakwa, B.C. centred at a latitude of  $50^{\circ} 57'$  and longitude  $118^{\circ} 55'$  (NTS 82L/15 and 82 M/2).

Access to the claims is via the Queest Mountain Forestry Lookout Road which originates at Drew Sawmills, 4 km east of Malakwa. Logging road branch 4050 provides access to the drill sites.

## PROPERTY

Hudson's Bay Oil and Gas Company Limited owns and operates the contiguous block of 20 COYOTE claims and 2 fractional claims comprising 358 metric units. The claims were staked and recorded in 1980.



Washington

Kilometres 50 0 50 100

Scale: 1:2,000,000

**Hudbay Mining Company**  
 A Division of Hudson's Bay Oil and Gas Company Limited

LOCATION MAP  
**COYOTE Claims**  
 South Central British Columbia

FIG. 81-2	MAR. 1982	PRB	1:2,000,000	
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<u>Claim</u>	<u>Size Units</u>	<u>Mining Division</u>	<u>Tag No.</u>	<u>Record No.</u>	<u>Record Date</u>
3	20	Kamloops/Revelstoke	62365	972	80-06-23
4	20	Revelstoke	62366	973	80-06-23
5	20	Kamloops/Revelstoke	62367	974	80-06-23
6	20	Revelstoke	62368	975	80-06-23
7	20	Kamloops/Revelstoke	62369	976	80-06-23
8	20	Revelstoke	62370	977	80-06-23
9	20	Kamloops/Revelstoke	62372	978	80-06-23
10	20	Kamloops/Revelstoke	62371	979	80-06-23
13	20	Kamloops/Revelstoke	62380	982	80-06-23
14	20	Kamloops/Revelstoke	62381	983	80-06-23
15	20	Kamloops	62392	2695	80-06-23
16	20	Kamloops	62383	2696	80-06-23
17	20	Kamloops	62384	2697	80-06-23
18	20	Kamloops	62385	2698	80-06-23
20	20	Kamloops	62394	2700	80-06-23
26	12	Revelstoke	62374	984	80-06-23
27	8	Revelstoke	62377	985	80-06-23
28	12	Revelstoke	62375	986	80-06-23
29	20	Revelstoke	62376	987	80-06-23
30	Fr.	Revelstoke	62387	1014	80-06-23
31	4	Revelstoke	62391	988	80-06-23
32	Fr.	Revelstoke	62388	989	80-06-23



## EXPLORATION HISTORY

During 1980 Hudson's Bay Oil and Gas Company Limited completed geological mapping, geochemical sampling, induced polarization and magnetometer surveys on the property as follow-up to the discovery of molybdenite-bearing boulders in COYOTE 8 claim in 1980. The report covering this work was submitted April 30, 1981.

Molybdenite mineralization on a claim (MAL 1) adjoining the COYOTE claim block has been explored most recently by BP Canada Inc. (1979/80) and Darva Resources and Development Ltd. (1971, 1973).

## GEOLOGY

Regionally, the property lies within medium-grade metamorphic terrain near the western margin of the Shuswap Metamorphic Complex. Rocks of this complex have undergone several episodes of deformation, metamorphism and intrusion, the timing of which is largely uncertain.

Locally, the COYOTE claims are underlain by multipli-deformed metasedimentary and metavolcanic rocks probably correlative with the Paleozoic Eagle Bay Formation. This rock sequence has been cut by two felsic intrusive phases.

## DIAMOND DRILLING PROGRAM

### Purpose

Diamond drill holes DDH C81-1, 2 and 3 were drilled to test a molybdenite-bearing quartz granodiorite porphyry body discovered during the 1980 program.

DDH C81-4 was drilled to explore a location with high grade molybdenite-bearing boulders.

DDH C81-5 was drilled to test a linear I.P. chargeability/magnetics anomaly detected during the 1980 exploration program.

### Drill Hole Details

The location of drill hole collars C81-1, 2, 3, 4 and 5 are shown in Figure 3. Additional details on the drill holes are given in Table I.

TABLE I

DDH Hole No.	Grid Location	Elevation (approx. m asl)	Azimuth	Inclination	Dip Tests		Core Size	Total Length (m)	Vertical Projection (m)	Horizontal Projection (m)
					Meterage	Angle				
C81-1	126+50N 119+70E	1 637	090	-60	40	-64.5	NQ 0-103 BQ 103-230	230	215	72
					133	-75				
					194	-78.5				
					228	-78				
C81-2	128+53N 120+45E	1 667	090	-50	61	-54.5	NQ -0-83 BQ 83-262	262	235	106
					130	-64				
					183	-76.5				
					261	-82				
C81-3	128+83N 120+77E	1 676	090	-65	65	-70	BQ 0-65	65	60	25
C81-4	127+00N 117+72E	1 646	270	-45	72	-46	BQ 0-130	130	95	89
					130	-51				
C81-5	134+00N 116+05E	1 890	270	-70	78	-66	BQ 0-211	211	192	82
					209	-64				

## RESULTS AND INTERPRETATION

### Geology

Stratigraphic and lithologic descriptions of rock units encountered during drilling are presented in the diamond drill logs (Appendix IV).

Drilling intersected an intercalated metasedimentary - metavolcanic assemblage of upper greenschist metamorphic rank. Descriptions of individual units are summarized below. Contacts between units are often gradational.

### Metasedimentary Units

#### Quartzite, siliceous schist, quartz-mica schist

This unit is pale grey to green and composed of fine-grained quartz with varying quantities of micaceous impurities. Micas (muscovite, sericite, and/or biotite) may be absent (quartzites), present as partings (siliceous schists) or present in distinct bands 2 - 5 mm thick alternating with quartz-rich layers (quartz-mica schists). Micaceous constituents display well-defined foliation and superimposed oblique crenulation cleavage indicative of multiple deformation. Crenulation cleavage is often pervasive enough to form small scale corrugations. This unit was probably derived from intercalated pelitic and psammitic sediments.

#### Garnet ( $\pm$ staurolite, actinolite) quartz mica schist

This silvery grey to green coloured unit is gradational to the quartz-mica schist and contains 2 - 5% sphericle garnet porphyroblasts 2 - 8 mm across. The garnet type is commonly red almandine but minor green grossularite porphyroblasts were recognized. Larger garnet porphyroblasts are often fragmented and sheathed by chlorite.

Variants of this unit are staurolite  $\pm$  actinolite - garnet-mica schists which occur in close proximity to the metavolcanic intervals. They are considered to be derived from iron-magnesium rich detritus shed from the metavolcanic units.

Staurolite occurs as gold-coloured blades 1 - 3 mm across (rarely as cruciform twins) in amounts up to 5%. Actinolite occurs as thin green needles 2 - 7 mm long frequently grouped in clusters in amounts of 2 - 5%.

### Metavolcanic Units

#### Chlorite ± biotite, epidote, feldspar schist

This unit is green to brown and composed predominately of foliated chlorite and biotite with minor epidote. Calcite - filled gash fractures are ubiquitous throughout the unit. Pre-metamorphic lithology of this unit is considered to be basaltic volcanics. Uppermost sections within individual metavolcanic intervals often display relict flow textures, brecciation and variolites 2 mm across and are thought to represent lava flow tops. A recognizable variant of this unit is chlorite - feldspar schist composed of up to 30% lineated feldspar (albite?) phenocrysts 2 mm long. This metavolcanic member probably represents a variation in lava composition.

Alteration consisting of epidote - sausserite and a fine-grained pink mineral (ankerite?) occurring as fine disseminations, veinlets and patches is recognized within the metavolcanics. Alteration is intense in some sections to produce pale coloured bleaching. It is unclear whether this alteration is related to hydrothermal or metamorphic processes.

### Intrusive Unit

#### Leuco-quartz granodiorite porphyry

Hole C81-1 and C81-2 failed to intersect the molybdenite-bearing leuco-quartz granodiorite porphyry body and C81-3 confirmed that the body was in fact a 7 m thick sill. Holes C81-4 and C81-5 intersected similar sills. Rocks of this unit are white with rusty fractures, very fine-grained with up to 30% quartz phenocrysts 1 - 2 mm across and devoid of mafic minerals. Minor fine-grained disseminated pyrite (<1%), sericite (up to 10%) and quartz veining were observed in this unit.

## Mineralization

Minor molybdenite in the form of euhedral disseminations, 1 - 4 mm across was found within the quartz granodiorite porphyry sill in hole C81-3.

Fracture-plane, schistosity-plane and quartz-vein pyrite with lesser pyrrhotite is ubiquitous throughout the metasedimentary intervals. Metavolcanic intervals are dominated by fracture-plane, schistosity-plane and massive blebs up to 4 cm across of pyrrhotite with lesser pyrite. The best sulphide intersection was a 20 cm interval of massive pyrrhotite at a depth of 246 m in hole C81-2. Chalcopyrite occurs as extremely fine-grained specks within pyrrhotite blebs and stringers up to 3 cm in length within massive pyrrhotite.

## GEOCHEMISTRY

### Sampling Procedure

Core sampling was discontinuous, done at 1 m intervals and largely based on quartz vein and sulphide distribution. Cores were split in half and collected in 20 x 30 cm plastic bags.

### Laboratory Procedure

All samples were prepared and analyzed at Vangeochem Lab Ltd. in North Vancouver, B.C. Core samples were crushed using a jaw crusher and pulverized to 100 mesh using a disc mill. One hundred and sixty samples were analyzed for Mo, Cu, Pb, Zn, Ag and a selected suite of 51 samples was analyzed for Au. Digestion and analytical procedures for each element are summarized in the following table.

<u>Element</u>	<u>Method of Digestion</u>	<u>Method of Analysis</u>	<u>Detection Limits</u>
Mo	HClO <sub>4</sub> - HNO <sub>3</sub>	Atomic absorption	1 ppm
Cu	"	"	1 ppm
Pb	"	"	1 ppm
Zn	"	"	1 ppm
Ag	"	"	0.1 ppm
Au	HCl - HNO <sub>3</sub>	"	5 ppb

### Results and Interpretation

Sample results in their corresponding intervals are presented in the diamond drill logs (Appendix IV). Estimation of anomalous threshold is qualitative and anomalous intervals have been flagged in the drill logs.

Element	Number of Samples	Range	Anomalous
Mo	160	nd - 90 ppm	> 5 ppm
Cu	160	8 - 1210 ppm	> 150 ppm
Pb	160	6 - 53 ppm	> 30 ppm
Zn	160	4 - 131 ppm	> 75 ppm
Ag	160	nd - 0.8 ppm	> 0.5 ppm
Au	51	nd - 200 ppb	> 20 ppb

\*nd = none detected

Results are discussed by element.

#### Molybdenum

Results for molybdenum (the element of initial interest) are generally discouraging. Best results of 14 - 90 ppm Mo are associated with the leuco-quartz granodiorite porphyry sill intersected in holes C81-3 and C81-4.

#### Copper

Copper results are more encouraging than those for molybdenum. In general copper enrichments are correlated with the metavolcanic assemblage and the highest results of 690 and 1 210 ppm are associated with stringer-type pyrrhotite and chalcopyrite mineralization within the metavolcanics intersected in hole C81-2.

#### Lead

No encouragement was obtained from lead results.



### Zinc

Highest zinc values (105 - 131 ppm) are associated with the metavolcanic sections in hole C81-2.

### Silver

Highest silver value of 0.8 ppm is associated with highest copper and zinc values in the metavolcanic interval bearing pyrrhotite - chalcopyrite stringer mineralization in hole C81-2.

### Gold

A two-meter interval of 200 ppb Au is associated with a quartz-breccia zone in hole C81-3.

APPENDIX I

PERSONNEL

Field

P. Bresee	B.Sc. Geologist	June 1, 2, 6, 9-12 18 - 20, 22 - 25, 27 - 30 July 2 - 8	25 days
J. Lee	Summer Student	June 1, 2, 6, 9 - 12, 18 - 20, 22 - 25, 27 - 30 July 2 - 8	25 days
G. I. Hall	M.Sc. Staff Geologist	July 9 - 23	15 days

Office

P. Bresee	B.Sc. Geologist	Nov. 18, 19 Feb. 15, 16, 23, Mar. 3, 4, 5, 8 - 12	13 days
G. I. Hall	M.Sc. Staff Geologist	February 22 - 26	6 days

APPENDIX II  
STATEMENT OF COSTS

Drilling Costs (total 898 metres) \$ 91 718.90

Salaries - Field

P. Bresee - 25 days @ \$142.00/day	3 550.00
J. Lee - 25 days @ \$80.00/day	2 000.00
G. I. Hall - 15 days @ \$197.00/day	2 955.00

Salaries - Office

P. Bresee - 13 days @ \$142.00/day	1 846.00
G. I. Hall - 5 days @ \$197.00/day	985.00

Vehicle & Fuel Costs: 40 days @ \$45.00/day 1 800.00

Room and Board

65 man days @ \$50.00/day	3 250.00
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Geochemical Analyses

160 rock samples (Mo, Cu, Pb, Zn, Ag) @ \$9.00/sample	1 440.00
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51 rock samples (Au) @ \$4.30/sample	<u>219.30</u>
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\$109,764.20

Drilling costs per metre =

$\frac{109\,764.20}{898} = \$122.23/m$
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Cost Distribution

On COYOTE 8 Claim (DDH C-81-2 to 5)

668 m @ \$122.23/m =	\$ 81 649.64
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On COYOTE 6 Claim (DDH C-81-1)

230 m @ \$122.23/m =	\$ 28 112.90
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APPENDIX III

STATEMENT OF QUALIFICATIONS

I, Peter R. Bresee of Calgary, Alberta, do hereby certify that:

- 1) I am a graduate of Queen's University with a B.Sc. (Honours) degree in Geological Engineering in 1978;
- 2) I have been engaged in minerals exploration as a student and geologist since 1976;
- 3) I have been employed by Hudson's Bay Oil and Gas Company Limited since May, 1979;
- 4) I am author of this report describing diamond drilling on the COYOTE 6 and 8 claims carried out under the supervision of G. Ian Hall, Staff Geologist.

*Peter Bresee*

Peter R. Bresee  
Geologist

CALGARY, ALBERTA



### DRILL RECORD AND LOG

<b>PROJECT</b> Queest	<b>GROUND ELEVATION</b> 1667.3m	<b>LEGEND</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>Intrusive Units</b></p> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">+ + + + + +</div> <p>Leuco-quartz granodiorite porphyry</p> <p><b>Metasedimentary Units</b></p> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">. . . . . . . . . .</div> <p>Quartzite</p> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">- - - - - - - - - -</div> <p>Quartz-muscovite (sericite) and/or biotite schist</p> <p><b>Metavolcanic Units</b></p> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">^ ^ ^ ^ ^ ^</div> <p>Chlorite ± biotite, feldspar schist</p> </div> <div style="width: 45%;"> <p><b>Garnet</b> ○</p> <p><b>Staurolite</b> ◊</p> <p><b>Actinolite</b> ↗</p> </div> </div>																																															
<b>CLAIM</b> Coyote 8	<b>BEARING</b> 090°																																																
<b>HOLE NUMBER</b> C 81-2	<b>DIP</b> -050°	<b>ALTERATION SCALE</b> 																																															
<b>LOCATION</b> 128 + 53N 120 + 45E	<b>TOTAL LENGTH</b> 261.8m <b>HORIZONTAL PROJECTION</b> 105.8m <b>VERTICAL PROJECTION</b> 234.7m																																																
<b>LOGGED BY</b> P. R. Bresee	<b>DATE</b> June 22 - July 4, 1981	<b>ABBREVIATIONS</b> <table style="width: 100%; border: none;"> <tr> <th colspan="2">Minerals</th> </tr> <tr> <td>act</td> <td>actinolite</td> </tr> <tr> <td>alm</td> <td>almandine garnet</td> </tr> <tr> <td>bio</td> <td>biotite</td> </tr> <tr> <td>bx</td> <td>breccia</td> </tr> <tr> <td>cc</td> <td>calcite</td> </tr> <tr> <td>cpy</td> <td>chalcopyrite</td> </tr> <tr> <td>chl</td> <td>chlorite</td> </tr> <tr> <td>ep</td> <td>epidote</td> </tr> <tr> <td>gnt</td> <td>garnet</td> </tr> <tr> <td>k-spar</td> <td>potassic feldspar</td> </tr> <tr> <td>metavolc</td> <td>metavolcanic</td> </tr> <tr> <td>musc</td> <td>muscovite</td> </tr> <tr> <td>py</td> <td>pyrite</td> </tr> <tr> <td>po</td> <td>pyrrhotite</td> </tr> <tr> <td>porph</td> <td>porphyroblast</td> </tr> <tr> <td>qtz</td> <td>quartz</td> </tr> <tr> <td>sauss</td> <td>saussurite</td> </tr> <tr> <td>ser</td> <td>sercite</td> </tr> <tr> <td>sil</td> <td>siliceous</td> </tr> <tr> <td>sill</td> <td>sillimanite</td> </tr> <tr> <td>sph</td> <td>sphalerite</td> </tr> <tr> <td>staur</td> <td>staurolite</td> </tr> </table>		Minerals		act	actinolite	alm	almandine garnet	bio	biotite	bx	breccia	cc	calcite	cpy	chalcopyrite	chl	chlorite	ep	epidote	gnt	garnet	k-spar	potassic feldspar	metavolc	metavolcanic	musc	muscovite	py	pyrite	po	pyrrhotite	porph	porphyroblast	qtz	quartz	sauss	saussurite	ser	sercite	sil	siliceous	sill	sillimanite	sph	sphalerite	staur	staurolite
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ep	epidote																																																
gnt	garnet																																																
k-spar	potassic feldspar																																																
metavolc	metavolcanic																																																
musc	muscovite																																																
py	pyrite																																																
po	pyrrhotite																																																
porph	porphyroblast																																																
qtz	quartz																																																
sauss	saussurite																																																
ser	sercite																																																
sil	siliceous																																																
sill	sillimanite																																																
sph	sphalerite																																																
staur	staurolite																																																
<b>CONTRACTOR</b> Phil's Drilling	<b>COMMENTS</b> 4.3m casing Qtz seam @ 13.7m Bit change Bit change 52.4m 67.7m 79.9m 83.5m 101.2m 121.0m 134.7m 155.4m 182.0m 248.1m Mislatch 206.3m Casing pulled; hole clean	<b>TOTAL SULPHIDE SCALE</b> 																																															
<b>CORE SIZE</b> NQ 0-83.5m BQ 83.5-261.8m	<b>DATE STARTED</b> June 20, 1981 <b>DATE COMPLETED</b> June 30, 1981																																																
<b>DIP TESTS</b> <table style="width: 100%; border: none;"> <thead> <tr> <th>Depth</th> <th>Etch Angle</th> <th>True Angle</th> </tr> </thead> <tbody> <tr> <td>61.0m</td> <td>62.5°</td> <td>54.5°</td> </tr> <tr> <td>130.1m</td> <td>70.5°</td> <td>64.°</td> </tr> <tr> <td>182.9m</td> <td>80.°</td> <td>76.5°</td> </tr> <tr> <td>261.2m</td> <td>84.°</td> <td>82.°</td> </tr> </tbody> </table>	Depth	Etch Angle	True Angle	61.0m	62.5°	54.5°	130.1m	70.5°	64.°	182.9m	80.°	76.5°	261.2m	84.°	82.°	<div style="border: 2px solid black; padding: 5px; margin: 10px auto; width: 150px;"> <p style="text-align: center; margin: 0;"><b>MINERAL RESOURCES BRANCH</b></p> <p style="text-align: center; margin: 0;"><b>ASSESSMENT REPORT</b></p> <p style="font-size: 2em; font-weight: bold; margin: 0;">10385</p> </div>																																	
Depth	Etch Angle	True Angle																																															
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261.2m	84.°	82.°																																															



FEET DEPTH METERS	CORE REC'D	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION					FRACTURE DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						
					chl.										SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag	Au
0-2.7	(M)		50'	light grey siliceous schist							for blebby py-po above schist phase fracture plane above schist w p minor blebby po		1m	C81-2-67	2	56	10	40	0.1		
2.7-1.8			50'	med silvery grey garnetiferous Qtz-mica schist; almandines up to 15 mm large dk schist w cc veinlets and pink carbonate (metavolcanic?)							3 Qtz veins cc. 3	fracture plane py-po		1m	C81-2-68	2	15	11	36	0.1	
1.8-1.8			30'	rusty weathered pale grey Qtz-ser schist									1m	C81-2-69	1	23	12	42	nd		
1.8-1.8				dark grey Qtz-mica schist							8 Qtz veins										
1.8-3.0				light-med grey (minor green) siliceous schist; quartz chips 2-3 mm (meta volcanic)							4cm										
3.0-2.9				20-25cm micaceous bands @ 38.1, 39.6, 40.2, 41.1							15 Qtz veins -2cm	fracture plane & schistosity plane po.		1m	C81-2-70	2	91	12	24	nd	
2.9-2.7			40'	dk grey-black Qtz-bio schist some garnets 2mm large < 1/2% At 43m-10Scm band of rusty Qtz-ser. schist pale green w rusty Fe oxides Qtz-ser schist. 44.6m pink phenocrysts rhodochrosite or arsenite?							6 Qtz veins < 1cm 8 Qtz veins			1m	C81-2-71	2	11	9	30	0.1	
2.7-3				med-dk Qtz bio-musc. schist minor garnets Qtz seams 5-9 mm crenulated highly crenulated							11 cm										
3-2.8			50'	pale green siliceous schist; minor pink herc. 0? no fizz w HCL med. dk grey-silver Qtz mica schist highly crenulated; minor garnets 5mm.							4 Qtz veins -5cm	20-30mm calc. punctate py w cc w.		1m	C81-2-72	1	24	10	33	0.1	
2.8-3			60'	pale green siliceous schist w cc veinlets										1m	C81-2-73	3	24	8	20	nd	
3-54			50'	pale-med "swirly" green sill. in metavolcanic k-spar. 54.6-54.9m w calcite veining.							15cm	fol. plane. blebby po-py. minor cpy whisps 53.9m blebby po		1m	C81-2-74	1	150	11	36	nd	nd
54-180													1m	C81-2-75	2	111	10	11	nd	20	





FEET DEPTH METERS	CORE REC'D	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION			FRACTURE DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						ppb
						ep							SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag	
270	(M)			light-med green-grey folded ont qtz-mica schist															
84	1.5			pale green, rusty qtzite w cc. filling vugs 6 mm fractures				8-10 cc v. veins	ehedral py in vertical cc. in n			1m	C81-2-85	2	34	9	20	0.1	
280				light grey rusty, siliceous qtz-mica schist															
87	3'			dk grey ont. qtz-mica schist garnets 15mm minor green porphyroblast (act.?)					foliation plane PY, and along cc vein fol plane po and in qtz vein			1m	C81-2-86	1	101	12	34	nd	
290												1m	C81-2-87	1	54	14	60	0.3	
90	3			dk grey-black mica schist w cc veining				4 cc											
300				silvery-med grey qtz-mica schist w f.g. garnets 1-2mm and minor green porph. (act.?)				6 qtz											
93	2.9			silvery, spotted garnets towards end					blebby po in siliceous seam.										
310				10 cm white clay gouge pale grey qtzite				12 qtz. veins				1m	C81-2-88	1	36	13	63	0.3	
320				darker grey-green garnetiferous qtz mica schist w spherical almandines up to 15 mm average 5 mm, crenulated				8 mm breccia clasts - 5 cm	1 cm qtz. 70-75° to axis bleb po 1-3 mm in siliceous seam.			1m	C81-2-89	3	40	16	73	0.3	
99	2.9																		
330				grey clay gouge - pale green qtzite pink porph. @ 101.3 1 mm or less garnets 340.5-342				3 qtz 4 cc @ 60° to axis 5 cm	fracture plane (60°) py 1-2mm wide			1m	C81-2-90	2	15	12	32	0.1	
102	2.9			dk grey-black siliceous qtz-bio schist								1m	C81-2-91	2	41	15	58	nd	nd
340																			
105	3.0			At 104.2, 0.5' siliceous interval (pink purple) green bleached.				18 cm	fracture plane (90.4 70°) py			1m	C81-2-92	2	38	10	42	0.2	
350				dk brown-green chl-bio schist w po				14 qtz. veins	f.g. class fol plane po.			1m	C81-2-93	3	59	19	56	0.6	
108	3.0			intercalated dark grey mica schist lighter siliceous schist (20-30 cm)					C.g. PY in qtz vein			1m	C81-2-94	3	16	9	34	0.3	
360												1m	C81-2-95	1	33	11	41	0.1	

FEET DEPTH METERS	CORE REC	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION				FRACTURE DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						ppb	
														SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag		Au
360	(M)			as above med-dk banded																	
111	3			At 111.1 10 cm. green siliceous schist w pink porph.					12 grt 5 cm	pyrite Cgr. 3-4mm. py in qtz seams			1m	C81-2-96	1	30	7	31	nd		
370																					
114	3			dk grey-green bio schist					5 cm 10 15 cm												
390	60°									bleb of py 2x 1/2 cm several specs cpy, egrn-spr			1m	C81-2-97	2	44	16	101	nd	10	
117	3			pale green qtzite / siliceous schist micaceous at 118.0-118.3					12 cm	bio			1m	C81-2-98	1	45	9	34	nd		
390	65°			dk brown-green chl-ep metavolc. w 3-4 mm cc veinings @ 75-95° diss. po.					5 9 qtz.	py in vuggy qtz veins diss. poi			1m	C81-2-99	1	106	16	50	0.1	nd	
120	3								18 qtz. veinlets	Fracture plane py Fracture plane py @ 15°			1m	C81-2-100	2	45	8	26	0.1		
400	55°			intercalated pale siliceous schists/ qtzite and dk grey bio schist beds ~ 30-60 cm wide					mostly seams				1m	C81-2-101	1	16	8	16	0.3		
123	3			121.9-122.5 qtzite w micaceous matrices 123.7-124.4 schist of fract. plane py 125.6-126.2 126.8																	
410																					
126	3									Fracture plane py fracture plane py			1m	C81-2-102	1	27	6	19	0.3		
420				dk grey mica schist / phyllite					5 qtz veins												
129	3			med-dk grey siliceous schist w mica bands at 130.1 5 cm chl-bio schist?					5 qtz. veins												
430																					
132	3																				
141	60°			dk black qtz-bio schist / phyllite					3 cc veinlets	fracture plane py			1m	C81-2-103	2	62	11	48	0.3		
135	3			pale grey-green qtzite - fracture plane py					@ 30°	bleb py po in qtz fracture plane (5-15°) py			1m	C81-2-104	20	24	5	11	0.2		
450	60°			dk grey mica schist - fracture plane pyrite pale - med grey qtzite									1m	C81-2-105	1	31	5	17	nd		



FEET DEPTH METERS	CORE REC	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION	FRACTURE DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						ppb
											SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag	
165	(M)		65°	light-dark grey banded cherty? qtzite.		2-3	schist. plane py			1m	C81-2-113	2	31	8	28	0.1	
168			2.9	light grey qtzite. grey qtz-mica schist. pale green qtzite. 169.8. pink porph.		8cm 3	schist. plane py			1m	C81-2-114	5	33	8	25	0.1	
171			3	dark black - green qtz mica schist w/ minor almandine clusters		12cm qtz 18	bleb py 3x15 mm in qtz vein			1m	C81-2-115	2	37	12	52	0.1	
174			bx 60° 3	light white-green siliceous interval, ser, clay dark grey-green garnetiferous qtz-mica schist. spherical almandines 2-6-10 mm. 1/2%		4. 2-10cm	py bleb adjacent to gnt porphyroblast			1m	C81-2-116	2	25	13	60	nd	
177			3	green-brown chl/bis schist		10	4 mm diae py seam as fracture plane py			1m	C81-2-117	3	47	13	38	0.2	
180			3	pink porphyroblasts		10-15cm											
183			65° 3	chl/bis schist		3	schist plane py			1m	C81-2-118	2	53	18	81	0.2	
183			2.7	chl-ep arsenation minor cc veining 1.8 cm spherical garnet		5cm	py in qtz vein										
186			60° 3	pale grey green qtzite minor calcite @ 15° At 184.7-6 cm micaceous band pink phenocrysts K-spar		2 5 3	fracture plane py schist plane py py in qtz seam			1m	C81-2-120	3	36	12	35	0.1	
189			3	silver-dk grey qtz mica schist pale grey-green qtzite grading in siliceous mica schist. dk grey qtz mica schist minor 8mm garnets						1m	C81-2-121	4	19	8	31	0.1	
192			3	pale green-grey quartzite, pink K-spar(?) garnetiferous qtz mica schist pale grey qtzite, minor pink K-spar(?)		1	fracture plane py fracture plane py			1m	C81-2-122	3	76	12	43	0.2	

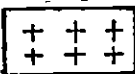


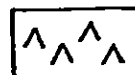
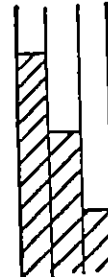
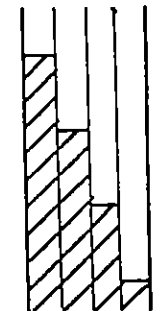
FEET DEPTH METERS	CORE REC'D	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION				FRACTURE DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						ppb
					K <sup>sp</sup>	chl	ep							SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag	
630	M			garnetiferous qtz-mica schist																
	3			med. green-grey siliceous schist / qtzite minor spheroidal garnets 4-8 mm @ 103.2					2 5cm	trace schist. py										
640			65°						-5cm	py in qtz veins			1m	C81-2-123	3	39	16	72	nd	
195	3			med. green garnetiferous siliceous / qtz mica schist					py q											
650									-20cm	fracture contains po in qtz vein; green. Ser. pink K-spar also fracture 2-4mm po.			1m	C81-2-124	5	36	40	72	0.2	nd
198	3			med. green-grey garnet-green porph. (act.) qtz-mica schist					7cm											
660		cc bx qtz		green siliceous schist / qtzite w cc veinlets 1 mm @ 60° to axis					4											
201	3			med-dk. green-grey banded gnt qtz-mica schist minor green porphyroblasts - honey yellow brown porph. 1-3mm					10cc 2 qtz	po = 5 tr cpy in siliceous. seam.			1m	C81-2-125	2	46	17	55	0.2	
670									3											
204	3			green qtzite w cc veining					30-35cc 1 qtz 10cm				1m	C81-2-126	1	8	10	33	nd	
680																				
207	3			green-grey garnetiferous qtz-mica schist					3											
690																				
210	3			dk brown green garnet-mica schist w gold / brown porphyroblasts - ovoid 1-3mm					6 seams.											
700																				
213	3			light / dk grey banded siliceous / micaceous schist minor garnets					4 qtz 5cc	diss. blebby po. py			1m	C81-2-127	1	84	35	104	0.8	nd
710				med. to dk green metavolcanic(?) w cc veining, pink phenos, green ep. 2% garnets - garnet-mica schist.																
216	3			pale - med green qtzite.					10-15cc											
719									8 qtz 3 cc	c.gr fract plane py po in qtz vein spec cpy			1m	C81-2-128	2	65	25	108	0.6	nd
219	3		65°	2cm K-spar-chl-ep. med. grey gnt. qtz mica schist gnt 5-10% 1-2 mm					-5cm	diss. po. string bleb po in qtz vein			1m	C81-2-129	1	74	25	69	nd	

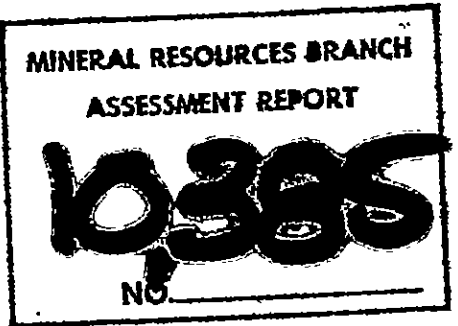
FEET DEPTH METERS	CORE REC'D	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION				FRACTURE DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						
					Au	Ag	Zn	Pb						Cu	Mo	SAMPLE NUMBER	ppb			
																	Ag	Au		
220	M			garnet - sill. actinolite, mica schist (grey-green) spherical almandine (25%) 4-6 mm, (grey) clustered 2-7 mm green actinolite porph. - golden porph. bio- mica schist					5											
222				garnets 1-3 mm, gold stain. 1-3 mm 3-5% green actinolite (staur)					3											
230				green actinolite & golden porph. schist med-dk banded qtz-act mica schist minor chl, golden & green porph (staur + act)					9				1m C81-2-130	2	62	17	53	0.1		
225				banded dk green - light dk grey, spotted green metavolcanic					6 qtz 3 cc 2 qtz											
240				dk black, crenulated ont-bio schist med-dk grey intercalated siliceous / ont schist garnets 8-9 mm 3-5% green chlc rims					10 seam -12											
228				ont-act - mica schist; green porph. 2-3 mm dk grey-green ont-bio schist; minor sill/actinolite small c. ts 1-3 mm 10-15% med. green siliceous - garnet schist large					2											
231				garnets 2 cm 2-3% fragmented										1m C81-2-131	1	205	15	71	nd	nd
240				dk green chl-bio schist cc veinings @ 45° interdirections & 60° in one direction					25 cc				1m C81-2-132	nd	51	10	28	0.1		
237				med. - dk green chl-bio feldsp. schist linear feldspar (albite?)					19 cc 4 qtz				1m C81-2-133	1	76	14	20	0.2		
237				decreasing feldspar									1m C81-2-134	nd	40	11	20	0.2	nd	
240				dk green chl-bio schist					-2 cm qtz.				1m C81-2-135	2	41	10	32	0.2	nd	
240				dk grey-green mica schist w minor garnets 1/2 - 9 mm large					3 qtz 3 cc				1m C81-2-136	2	71	53	44	0.5		
243				med-dk grey-green qtz. mica schist large spherical garnets up to 18 mm					3 qtz 2 cc											
246				dk black varietalitic metavolcanic 1 mm. brecciated & sheared dk green chl-bio schist					6 cc											
246													1m C81-2-137	3	1210	21	131	0.8	20	





DRILL RECORD AND LOG

PROJECT Queest		GROUND ELEVATION 1636.8m		<b>LEGEND</b>  Leuco-quartz granodiorite porphyry   Quartzite   Quartz-muscovite (sericite) and/or biotite schist   Chlorite ± biotite, feldspar schist	<u>Intrusive Units</u>																																																																		
CLAIM Coyote 6		BEARING 090			<u>Metasedimentary Units</u>																																																																		
HOLE NUMBER DDH C81-1		DIP -60°					○ Garnet																																																																
LOCATION 126 + 50 N 119 + 70 E		TOTAL LENGTH 230.1m					◇ Stauroilite																																																																
LOGGED BY P. Bresee		VERTICAL PROJECTION 214.9m				▲ Actinolite																																																																	
DATE 09-05-81		COMMENTS		<b>ALTERATION SCALE</b> 				<b>ABBREVIATIONS</b> <table border="0"> <tr> <td colspan="2"></td> <td colspan="2">Minerals</td> </tr> <tr> <td>altn.</td> <td>alteration</td> <td>alm</td> <td>almandine garnet</td> </tr> <tr> <td>c.g</td> <td>coarse-grained</td> <td>bio</td> <td>biotite</td> </tr> <tr> <td>dk</td> <td>dark</td> <td>cc</td> <td>calcite</td> </tr> <tr> <td>f.g</td> <td>fine-grained</td> <td>cpy</td> <td>chalcopyrite</td> </tr> <tr> <td>gn</td> <td>green</td> <td>chl</td> <td>chlorite</td> </tr> <tr> <td>gy</td> <td>grey</td> <td>ep</td> <td>epidote</td> </tr> <tr> <td>med</td> <td>medium</td> <td>musc</td> <td>muscovite</td> </tr> <tr> <td>m.g</td> <td>medium-grained</td> <td>py</td> <td>pyrite</td> </tr> <tr> <td>tr</td> <td>trace</td> <td>po</td> <td>pyrrhotite</td> </tr> <tr> <td>w</td> <td>with</td> <td>sauss</td> <td>saussurite</td> </tr> <tr> <td></td> <td></td> <td>ser</td> <td>sericite</td> </tr> <tr> <td></td> <td></td> <td>sil</td> <td>siliceous</td> </tr> <tr> <td></td> <td></td> <td>qtz</td> <td>quartz</td> </tr> <tr> <td></td> <td></td> <td>act</td> <td>actinolite</td> </tr> </table>						Minerals		altn.	alteration	alm	almandine garnet	c.g	coarse-grained	bio	biotite	dk	dark	cc	calcite	f.g	fine-grained	cpy	chalcopyrite	gn	green	chl	chlorite	gy	grey	ep	epidote	med	medium	musc	muscovite	m.g	medium-grained	py	pyrite	tr	trace	po	pyrrhotite	w	with	sauss	saussurite			ser	sericite			sil	siliceous			qtz	quartz			act	actinolite
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		qtz	quartz																																																																				
		act	actinolite																																																																				
CONTRACTOR Phil's Drilling		Circulation lost @ 1.8m N casing 2.4m Bit change @ 29.6m Circulation lost 3 x 37.2-67.7m Rods broke @ 45.7m Bit change @ 76.2m NQ BQ @ 99.7m Bit change @ 130.1m Mis latch @ 133.2m Bit change 166.7m 1.8m casing left light set 11 NQ rods lost @ 67.1m 1.8m BW casing 1 NQ to BW and 1 shoe.		<b>TOTAL SULPHIDE SCALE</b> 																																																																			
CORE SIZE 0 - 102.7m NQ 102.7 - 230.1m BQ		DATE STARTED 05-06-81																																																																					
DATE COMPLETED 18-06-81		DIP TESTS																																																																					
Depth	Etch Angle	True Angle																																																																					
39.6m	71°	64.5°																																																																					
133.2m	79°	75°																																																																					
194.2m	81.5°	78.5°																																																																					
227.7m	81°	78°																																																																					





FEE DEPTH, METERS	CORE REC'D	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION			FRACTURE DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						ppb
													SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag	
10	(M)	D.D.	* Archie to Ck 2x15	m.g. qtz. rubble - minor Fe-oxide, intensely weathered, rusty brown qtz-ser schist								1m	C81-1-1	3	40	4	4	nd	
3		D.D.		m.g. qtz. rubble															
6		D.D.		rusty qtz-ser schist, minor garnet 1-2mm															
9		D.D.	42°	light grey-green garnetiferous qtz-mica schist w light ser. bands & dark bio. bands - garnet porphyroblasts 2mm. 2-5%				35-40											
12		D.D.		(9.3-10.2) dk. bro schist w qtz. veins up to 6cm.				2mm thick qtz				1m	C81-1-2	1	59	13	49	nd	
15		D.D.		light grey-green qtz-ser schist - qtz vein (80-85°) @ 13.9m. 6cm wide. Leuco granodiorite dyke, @ 14.3m. 30° to axis fr. pyrite.				15 qtz											
18		D.D.	40°	f.g. leuco intrusive conformable to schistosity. tr. diss py. orangish-pink. dark grey-black banded qtzite w micaceous partings.				6 qtz	f.g. py. in qtz. veins fr. f.g. py. along schistosity			1m	C81-1-3	4	32	8	19	nd	
21		D.D.		intercalated siliceous schist/green qtz-ser schist w minor garnets up to 1cm. micaceous layers up to 1mm. dark green siliceous qtz-ser schist.				7 qtz											
24		D.D.																	
27		D.D.		dark grey qtz-ser schist w qtzite bands				10 qtz					1m	C81-1-4	2	19	8	24	0.1
30		D.D.											1m	C81-1-5	2	39	14	38	0.1
33		D.D.		8cm leuco granodiorite sill @ 23.9m. lighter grey green schist @ 25m intercalated siliceous & micaceous schist, micaceous layers 6mm light green grey rusty mica rich schist w qtz-seams and veins.				4cm qtz	diss py f.g. py. in qtz. vein.				1m	C81-1-6	2	101	14	45	0.3
36		D.D.	38°										1m	C81-1-7	1	43	12	30	0.1







FEET DEPTH METERS	CORE REC'D	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION				FRACTURE DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						ppb Au
														SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag	
111	(M)		70°	(15cm dk grey band @ 110m)						fracture plane - py			1m	C81-1-31	3	25	8	14	0.1	
370				(12 cm dk. bio band @ 112)						fracture plane py										
114				pale green qtz. tc. w interbanded biotite layers						py in qtz vein			1m	C81-1-32	1	30	11	21	0.2	
330																				
117				med - dk. green garnetiferous (almandine & grossularite) qtz. ser. schist						3 cm qtz vein w py po. ser. py			1m	C81-1-33	1	61	13	22	0.1	10
390				mod - dk. banded qtz - bio. schist; bio bands up to 1 cm																
120																				
400																				
123				pale - med green qtzite some micaceous bands mainly partings - pyrite						blebs of py up to 4mm assoc. w qtz veining & fracturing			1m	C81-1-34	3	45	14	13	0.1	nd
410																				
126				dark almandine garnet - qtz. - mica schist garnets 2-3 mm						py. py in 3 mm qtz vein			1m	C81-1-35	3	32	11	34	0.1	
420																				
129				garnet 8mm																
430				pale grey - green qtzite dk. green mica layer (128.6 - 129.5)						5 specimens of cpy in qtz. vein w purplish tinge			1m	C81-1-36	4	90	16	56	0.1	10
132																				
135				pale grey-green quartzite / siliceous schist																
140																				
145																				
150			70°	darker qtz - ser schist						fig. nodule along fracture tr. blebby py			1m	C81-1-37	3	27	11	19	0.1	
													1m	C81-1-38	2	36	14	54	0.1	



FEET DEPTH METERS	CORE REC	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION				FRACTURE DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						ppb
					ep	carb								SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag	
165	(M)			light grey green siliceous schist w cc veinlets					3 qtz 5 cc											
2.9				med. grey sil. qtz. bio schist minor calcite veins					5 qtz 1 cc	tr. diss. py										
550				qtz-bio schist 167.0-167.3 pale green calcite stringers green ep-sauss possible flow or welding structure					3 cc 1 qtz											
168	3.			green-grey banded garnetiferous qtz.-bio. schist garnets 1-2% 3mm.					4 qtz 2 cc					C81-48	2	38	29	59	nd	
560				med-dk grey-green bio schist / 172.5 pink Fe 5% light green ep - pink carbonate 4mm / carbonate. ep - pale green ep. alth. / saussurite					6 cm qtz. 4 qtz 5 cc.											
171	3.			pale green siliceous schist w calcite veins 2-3mm					4 cc	tr. pyrite.										
570				garnetiferous qtz. bio. schist						fracture & schistosity plane py. fracture plane py. 5° to axis				C81-49	3	59	16	55	0.2	
114	2.9			garnets 3mm - 1cm.																
580				garnetiferous qtz - mica (bio) schist					5 qtz vein											
177	2.7								-8 cm											
590									qtz. vein											
180	3																			
600																				
183	3								-2 cm cc											
610				green chl-ep. schist lineated white phenocrysts of feldspar					18											
186	3			cc veining up to 2 cm.					calcite veinlets	fracture py, po. w calcite.				C81-50	1	39	15	39	nd	
620				dk brown, crenulated qtz - bio schist w sulphides					-1 - 2 qtz	blebby po 1cm <sup>2</sup> 3 specs cpy				C81-51	3	74	20	74	nd 10	
189	3			dk green chl schist																
630				med. grey-green garnet (almandine) qtz-bio schist w garnets up to 2 cm w alteration shadow										C81-52	2	148	11	38	0.1 nd	

FEET DEPTH METERS	CORE REG	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION				FRACTURE DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						ppb
					K <sub>2</sub> O	Na <sub>2</sub> O	CaO	MgO						SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag	
192	(M)								4											
2.7			75°	dark green f.g. chl-bio schist minor calcite veining					7 ftz	fracture plane py.										
640									5 cm qtz vein	diss blebby po/py in qtz vein										
195	24			dk green chl-bio schist w linedated feldspar phenocrysts					3 cc											
650																				
198	29			dk brown qtz bio schist																
660			75°	garnet (almandine) qtz-bio schist garnets 2-15 mm																
201	3			dk qtz bio schist w bleached 20 cm bands					2 cm qtz											
670									2 cm											
204	3			med-dk grey-green garnetiferous (alm) qtz bio schist garnets 2mm-1cm 2-5%					qtz											
680			80°	203.6, 203.9m 12-15cm siliceous bands					5 cm 3 cm qtz	fr. pyrite in qtz vein										
207	3			206 - 211.8m - honey-brown porphyroblasts 1-4m. (staurolite)																
210										fr. pyrite										
690																				
213	3																			
210																				
213	20			20 cm green chlorite schist band					3 cm qtz											
216	3		80°	chl bands 5 cm pink phenocrysts green/dk grey banded					5 cm qtz											
216									8 cm qtz	km <sup>2</sup> po. blebs, in & along qtz veins										
710																				
219	3			med-dk garnet qtz-bio schist garnet 2-8mm. 218.5-220m yellow-brown porphyroblasts 2-3mm. (staurolite)					1 cm 7 cm qtz											
720										schistosity plane pyrite										

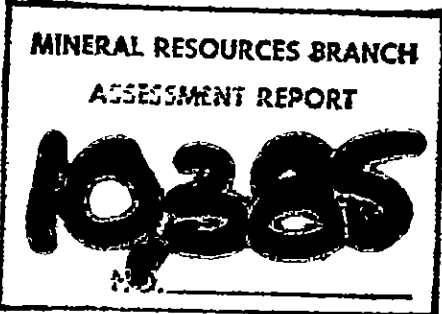
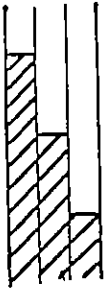
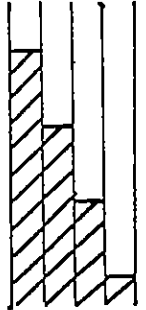
SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag	Au
C81-1-53	2	52	8	34	0.2	
C81-1-54	2	124	11	4.5	nd	nd
C81-1-55	3	32	12	46	0.1	
C81-1-56	2	23	12	29	nd	
C81-1-57	3	36	13	53	nd	nd
C81-1-58	3	57	1.5	48	nd	







DRILL RECORD AND LOG

PROJECT Queest	GROUND ELEVATION 1889.8m a.s.l.	LEGEND <u>Intrusive Units</u> + + + + + + Leuco-quartz granodiorite porphyry																																																																																									
CLAIM Coyote 8	BEARING 270																																																																																										
HOLE NUMBER DDH C-81-5	DIP -70°	<u>Metasedimentary Units</u> Quartzite Quartz-muscovite (sericite) and/or biotite schist																																																																																									
LOCATION 134 N 1 16+05 E	TOTAL LENGTH 211.2m																																																																																										
LOGGED BY G. I. Hall	HORIZONTAL PROJECTION 82m	<u>Metavolcanic Units</u> Chlorite ± biotite, feldspar schist																																																																																									
DATE July 20-23, 1981	VERTICAL PROJECTION 192m																																																																																										
CONTRACTOR Phil's Drilling	COMMENTS	ALTERATION SCALE																																																																																									
CORE SIZE BQ			ABBREVIATIONS																																																																																								
DATE STARTED July 18, 1981			<table border="0"> <tr><td>altn.</td><td>alteration</td><td>act</td><td>actinolite</td></tr> <tr><td>c.g</td><td>coarse-grained</td><td>alm</td><td>almandine garnet</td></tr> <tr><td>dk</td><td>dark</td><td>bio</td><td>biotite</td></tr> <tr><td>diss</td><td>disseminated</td><td>bx</td><td>breccia</td></tr> <tr><td>f.g</td><td>fine-grained</td><td>cc</td><td>calcite</td></tr> <tr><td>gn</td><td>green</td><td>cpy</td><td>chalcopyrite</td></tr> <tr><td>gy</td><td>grey</td><td>chl</td><td>chlorite</td></tr> <tr><td>int</td><td>intermediate</td><td>ep</td><td>epidote</td></tr> <tr><td>med</td><td>medium</td><td>gnt</td><td>garnet</td></tr> <tr><td>m.g</td><td>medium-grained</td><td>k-spar</td><td>potassic feldspar</td></tr> <tr><td>tr</td><td>trace</td><td>metavolc</td><td>metavolcanic</td></tr> <tr><td>w</td><td>with</td><td>muscv</td><td>muscovite</td></tr> <tr><td></td><td></td><td>py</td><td>pyrite</td></tr> <tr><td></td><td></td><td>po</td><td>pyrrhotite</td></tr> <tr><td></td><td></td><td>porph</td><td>porphyroblast</td></tr> <tr><td></td><td></td><td>qtz</td><td>quartz</td></tr> <tr><td></td><td></td><td>sauss</td><td>saussurite</td></tr> <tr><td></td><td></td><td>ser</td><td>sercite</td></tr> <tr><td></td><td></td><td>sil</td><td>siliceous</td></tr> <tr><td></td><td></td><td>sill</td><td>sillimanite</td></tr> <tr><td></td><td></td><td>sph</td><td>sphalerite</td></tr> <tr><td></td><td></td><td>staur</td><td>staurolite</td></tr> </table>	altn.	alteration	act	actinolite	c.g	coarse-grained	alm	almandine garnet	dk	dark	bio	biotite	diss	disseminated	bx	breccia	f.g	fine-grained	cc	calcite	gn	green	cpy	chalcopyrite	gy	grey	chl	chlorite	int	intermediate	ep	epidote	med	medium	gnt	garnet	m.g	medium-grained	k-spar	potassic feldspar	tr	trace	metavolc	metavolcanic	w	with	muscv	muscovite			py	pyrite			po	pyrrhotite			porph	porphyroblast			qtz	quartz			sauss	saussurite			ser	sercite			sil	siliceous			sill	sillimanite			sph	sphalerite			staur	staurolite
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DATE COMPLETED July 23, 1981																																																																																											
DIP TESTS 78.3m -66° 209.4m -64°																																																																																											











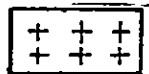
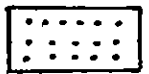

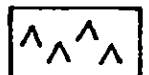


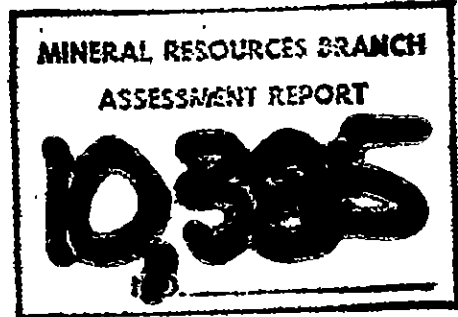

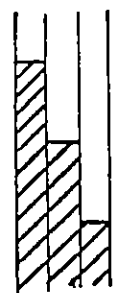
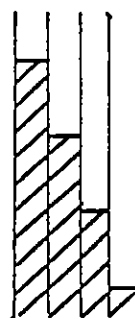






FEET DEPTH METERS	CORE RECY	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION			FRACTURE DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERNAL	WIDTH	GEOCHEMICAL RESULTS PPM							
													SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag	Au	
63																				
100%																				
640																				
195				DESCRIPTIONS ON PAGE 8.																
100%																				
650																				
80%																				
198																				
100%																				
660																				
201																				
100%																				
670																				
100%																				
680																				
100%																				
690																				
100%																				
211.2 end				END HOLE 211.2 m.																

### DRILL RECORD AND LOG

<b>PROJECT</b> Queest	<b>GROUND ELEVATION</b> 1645.9m a.s.l.	<b>LEGEND</b>			
<b>CLAIM</b> Coyote	<b>BEARING</b> 270°		<b>Intrusive Units</b> Leuco-quartz granodiorite porphyry		
<b>HOLE NUMBER</b> DDH 81C-4	<b>DIP</b> -45°		<b>Metasedimentary Units</b> Quartzite		
<b>LOCATION</b> 127+00N 117+72E	<b>TOTAL LENGTH</b> 130.1m		Quartz-muscovite (sericite) and/or biotite schist		
<b>LOGGED BY</b> G. I. Hall	<b>HORIZONTAL PROJECTION</b> 89m		<b>Metavolcanic Units</b> Chlorite ± biotite, feldspar schist		
<b>DATE</b> July 11-15, 1981	<b>VERTICAL PROJECTION</b> 95m		Garnet		
<b>CONTRACTOR</b> Phil's Drilling	<b>COMMENTS</b>		Staurolite		
<b>CORE SIZE</b> BQ			Actinolite		
<b>DATE STARTED</b> July 11, 1981		<b>ALTERATION SCALE</b>	<b>ABBREVIATIONS</b>		
<b>DATE COMPLETED</b> July 14, 1981			<b>Minerals</b>	act actinolite alm almandine garnet bio biotite bx breccia cc calcite cpy chalcopyrite chl chlorite ep epidote gnt garnet k-spar potassic feldspar metavolc metavolcanic musc muscovite py pyrite po pyrrhotite porph porphyroblast qtz quartz sauss saussurite ser sercite sil siliceous sill sillimanite sph sphalerite staur staurolite	
<b>DIP TESTS</b>		ABSENT	altn. alteration c.g coarse-grained dk dark diss disseminated f.g fine-grained gn green gy grey int intermediate med medium m.g medium-grained tr trace w with		
72.2m - 46° 130.1m - 51°		SLIGHT	MODERATE		
	INTENSE	TOTAL SULPHIDE SCALE			
		trace 1% 1-3% 3%			

FEET DEPTH METERS	CORE RECT	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION	FRACTURE	DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						ppb				
												SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag		Au			
0				0-1.8m. ore burden.																		
10.3				Chlorite brookite schist. 35° to axis. foliation.																		
20.4				- poor recovery. muddy sections. - no qtz or sulphides.																		
30.9				Sharp contact. - coarse brookite at contact. v.f.g. white leucogranite. fr. sericite. no pyrite. - flatter contact than upper one. Chlorite-brookite schist - wispy 1mm calcite veinlets. - no sulphides. (8.5-12.8m) - foliation 15-45° to axis.																		
40.12				Quartz vein. 10cm - barren.																		
50.15				35° to axis sharp contact. fr. v.f.g. white leucogranite. - no sulphides. minor fract. 7cm qtz. veins at 14.3m - barren. clay filled fracture at 14.6									12.8-13.8	1m	E81-4-153	1	20	9	22	0.1		
60.18				crumpled. quartz sericite schist. - occasional 1cm qtz. lense. - fr. pyrite.									13.8-14.8	1m	" 154	19	14	14	9	0.1		
70.21				brecciated contact. white leucogranite. - brecciated at 57'. at 18m 2cm qtz. parallel to axis. - sharp contact 35° to axis. Brookite schist to 18.6m 18.6m Qtz-ser schist. interbedded with quartz lenses.									14.8-15.8	1m	" 155	25	81	21	108	nd		
80.24				50° to axis. foliation. & quartz lenses up to 1cm Breccia zone - quartz grains in Fe-oxide - barren									15.8-16.8	1m	" 156	35	63	17	86	nd	nd	
90.27				Quartzite w/ tiny qtz. xl. frags.									16.8-17.8	1m	" 157	14	75	21	52	nd		
100.30				Quartzite bedding 85° to axis.									17.8-18.8	1m	" 158	5	106	16	69	nd		



FEET DEPTH METERS	CORE REC'D	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION			FRACTURE	DENSITY	MINERALIZATION- DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						ppb Au
														SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag	
180	80																			
190	80																			
200	80																			
210	80																			
220	80																			
230	80																			
240	80																			
250	80																			
260	80																			
270	80																			

Grad contact 62.8m to sericitic quartzite.  
bedding, 85° to axis. becoming darker to 75.6m.

Quartz lense 3cm.

At 75.6 Grad contact to finely banded grey-green  
gr. ser. schist. to 77.6m No vis.

At 77.6m Grad contact to dk grey gr. ser. schist.  
interbedded with numerous 2cm qb. lenses. No vis. Sulphides.



DEPTH	CORE RECY	LITHOLOGY	STRUCTURE	ALTERATION				FRACTURE	DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						
														SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag	Au
570																				
375-99																				
330																				
102																				
340																				
105																				
350																				
108																				
360																				
111																				

DETAILED LOG  
LITHOLOGICAL DESCRIPTION

ALTERATION

FRACTURE  
DENSITY

MINERALIZATION  
DESCRIPTION

TOTAL  
SULPHIDE

INTERVAL

WIDTH

GEOCHEMICAL RESULTS  
PPM

SAMPLE  
NUMBER

Mo

Cu

Pb

Zn

Ag

Au

98.1-98.5- finely banded grey qtzite.  
 98.3-15cm banded qtz. lenses con formable inter banded with  
 2-5mm chlorite bands & 2mm spherules.  
 Sharp contact.  
 98.5-99.0 Qtz-chlorite-sericite schist. banding 85° to axis.  
 - 10% spherulitic opins to 5mm. - mainly conc in several  
 zones over 10cm. - Diss po. fr. - Tr. 1/2mm carbonate  
 features along axis containing tr. po.  
 99.0 3cm qtz-lense. - Sharp contact  
 99.0-99.4- finely banded chlorite schist. - occasional 1/2cm qtz-lense.  
 Grad. contact.  
 99.4-99.7- chlorite-calcite fracture zone over 3" in chlorite schist.  
 99.7-100.3 finely banded qtz. chlorite schist. - fr. finely dis po.  
 100.3-100.6 Coarse chlorite schist & 1cm qtz-lense - 1/2% diss po. in qtz.  
 & schist.  
 100.6-101.2 - Slightly contorted qtz. chlorite schist. banding 60° to axis  
 crosscutting qtz. carbonate veins up to 2mm & tr. po.  
 Sharp contact.  
 101.2-101.3 - qtz. chlorite vein. - highly contorted - fr. po.  
 101.3-106.1 Massive banded chlorite schist 85° to axis  
 - Minute wispy white feldspar? up to 5% - fr. diss po.  
 - weak 1/2mm carbonate stringers. -  
 102.7-104.7  
 102.4-102.7 Py. on carbonate fract. 10° to axis fr. po  
 103.9 - Qtz. lense 2cm.  
 Grad contact.  
 106.1-107.3 Massive dk. grey qtz. chlorite schist. 85° to axis.  
 fr. 1/2mm carbonate stringer. 50° to axis.  
 - fr. v. lg. pyr. diss on fractures. parallel to axis.  
 Grad. contact.  
 107.3-107.6 Wispy banded qtz. chlorite schist. - fr. diss po.  
 107.6-112.5 Massive finely banded qtz. chl. schist. 85° to axis.  
 At 107.9 - 3cm. qtz-chl. plag. veining - fr. blebby &  
 stringer sphalerite. / po. / fr. CPyr.  
 108.8-110.3 Stringer carbonate. 1/2-1mm. from 0-25%  
 axis. occasional pyr. along stringers.  
 Grad. contact  
 112.5-117.3- Wispy banded qtz. chlorite schist - 85° to axis.  
 114 12mm qtz. stringers - fr. pyr.  
 115.2- vuggy qtz. stringers parallel to axis over 25cm.  
 Sharp chloritic rich contact  
 117.3-qtz-Staurolite-sericite-schist  
 END DETAILED LOG.

102.7-103.7 1m 81C-4-161 (8) 26 11 28 nd

103.7-104.7 1m 81C-4-162 4 64 8 23 nd

106.7-107.7 1m 81C-4-163 4 69 11 46 nd

107.7-108.7 1m 81C-4-164 4 83 13 47 nd

Trace po. on fracture

fr. pyr. po. in minute qtz-calcite stringers & diss.







### DRILL RECORD AND LOG

<b>PROJECT</b> Queest	<b>GROUND ELEVATION</b> 1676.4	<b>LEGEND</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p> Intrusive Units</p> <p> Leuco-quartz granodiorite porphyry</p> <p> Metasedimentary Units</p> <p> Quartzite</p> <p> Quartz-muscovite (sericite) and/or biotite schist</p> <p> Metavolcanic Units</p> <p> Chlorite ± biotite, feldspar schist</p> </div> <div style="width: 45%;"> <p>○ Garnet</p> <p>◇ Staurolite</p> <p>▲ Actinolite</p> </div> </div>																																																																																													
<b>CLAIM</b> Coyote 8	<b>BEARING</b> 090°																																																																																														
<b>HOLE NUMBER</b> C 81-3	<b>DIP</b> -65° (collar) -70°@64.9m (end)	<b>ALTERATION SCALE</b> 																																																																																													
<b>LOCATION</b> 128 + 83N 120 + 77E	<b>TOTAL LENGTH</b> 213' <b>HORIZONTAL PROJECTION</b> 24.7m <b>VERTICAL PROJECTION</b> 59.7m																																																																																														
<b>LOGGED BY</b> Pete Bresee	<b>COMMENTS</b> Casing 0.6m																																																																																														
<b>DATE</b> July 5 - July 10, 1981	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p><b>MINERAL RESOURCES BRANCH</b></p> <p><b>ASSESSMENT REPORT</b></p> <p><b>NO.</b> _____</p> </div>																																																																																														
<b>CONTRACTOR</b> Phil's Drilling																																																																																															
<b>CORE SIZE</b> BQ																																																																																															
<b>DATE STARTED</b> July 2, 1981																																																																																															
<b>DATE COMPLETED</b> July 9, 1981																																																																																															
<b>DIP TESTS</b> -70° at 64.9 end hole	<b>ABBREVIATIONS</b> <table style="width: 100%; border: none;"> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: center;"><b>Minerals</b></td> </tr> <tr> <td>altn.</td> <td>alteration</td> <td>act</td> <td>actinolite</td> </tr> <tr> <td>c.g</td> <td>coarse-grained</td> <td>alm</td> <td>almandine garnet</td> </tr> <tr> <td>dk</td> <td>dark</td> <td>bio</td> <td>biotite</td> </tr> <tr> <td>diss</td> <td>disseminated</td> <td>bx</td> <td>breccia</td> </tr> <tr> <td>f.g</td> <td>fine-grained</td> <td>cc</td> <td>calcite</td> </tr> <tr> <td>gn</td> <td>green</td> <td>cpy</td> <td>chalcopyrite</td> </tr> <tr> <td>gy</td> <td>grey</td> <td>chl</td> <td>chlorite</td> </tr> <tr> <td>int</td> <td>intermediate</td> <td>ep</td> <td>epidote</td> </tr> <tr> <td>med</td> <td>medium</td> <td>gnt</td> <td>garnet</td> </tr> <tr> <td>m.g</td> <td>medium-grained</td> <td>k-spar</td> <td>potassic feldspar</td> </tr> <tr> <td>tr</td> <td>trace</td> <td>metavolc</td> <td>metavolcanic</td> </tr> <tr> <td>w</td> <td>with</td> <td>musc</td> <td>muscovite</td> </tr> <tr> <td></td> <td></td> <td>py</td> <td>pyrite</td> </tr> <tr> <td></td> <td></td> <td>po</td> <td>pyrrhotite</td> </tr> <tr> <td></td> <td></td> <td>porph</td> <td>porphyroblast</td> </tr> <tr> <td></td> <td></td> <td>qtz</td> <td>quartz</td> </tr> <tr> <td></td> <td></td> <td>sauss</td> <td>saussurite</td> </tr> <tr> <td></td> <td></td> <td>ser</td> <td>sercite</td> </tr> <tr> <td></td> <td></td> <td>sil</td> <td>siliceous</td> </tr> <tr> <td></td> <td></td> <td>sill</td> <td>sillimanite</td> </tr> <tr> <td></td> <td></td> <td>sph</td> <td>sphalerite</td> </tr> <tr> <td></td> <td></td> <td>staur</td> <td>staurolite</td> </tr> </table>					<b>Minerals</b>		altn.	alteration	act	actinolite	c.g	coarse-grained	alm	almandine garnet	dk	dark	bio	biotite	diss	disseminated	bx	breccia	f.g	fine-grained	cc	calcite	gn	green	cpy	chalcopyrite	gy	grey	chl	chlorite	int	intermediate	ep	epidote	med	medium	gnt	garnet	m.g	medium-grained	k-spar	potassic feldspar	tr	trace	metavolc	metavolcanic	w	with	musc	muscovite			py	pyrite			po	pyrrhotite			porph	porphyroblast			qtz	quartz			sauss	saussurite			ser	sercite			sil	siliceous			sill	sillimanite			sph	sphalerite			staur	staurolite
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<b>TOTAL SULPHIDE SCALE</b> 																																																																																															

FEET DEPTH METERS	CORE REC	LITHOLOGY	STRUCTURE	LITHOLOGICAL DESCRIPTION	ALTERATION				FRACTURE DENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	GEOCHEMICAL RESULTS PPM						ppb	
					Qtz Ser	Al	Sil	Bio						SAMPLE NUMBER	Mo	Cu	Pb	Zn	Ag		Au
0-0.3				0.6m coarse rusty, Qtz eye leucocranodiorite porphy diss. pyrite 1/2 - 1% 0.5-1 mm bleached white c.g. sericite c.g. musc. along dry fracture					15cm qtz		1.6-1.6 2.6	1m	142	11	21	7	3	nd	nd		
10-3				fracturing @ 0.5, 20° to axis 4.9-7.5m rusty grey more alteration qtz veining 0-15° to axis					5qtz veins		2.6-3.6 4.6	1m	144	1	42	6	5	nd			
20-6				light green ont. - mica schist spherical almandines 2-5 mm. 10-15% golden coloured clay alt. after porphyroblasts					10cm 25 4 1cm qtz		3.6-4.6 5.6	1m	145	3	52	9	8	0.2			
30-9				silvery green ont. act mica schist green act. needles porph. 2-4 mm 25-30% 32 - 4 cm c. gr garnet porph. - chl matrix 8 mm sph almandines 1-4 mm 10-15%					5cm 5 qtz veins		6.6-7.6 8.2	1m	146	nd	126	9	10	0.2	nd		
40-12				5 cm chl bio band dk grey over crenulated mica schist minor chl, garnets					5cm		13.1-14.1	1m	147	3	117	16	5	0.2	nd		
50-15				Pass bed. crenulated chlorite schist - foliation 60° to axis. Calcite filled fracture Grad. contact to sericitic white quartzite.																	
60-18				Grad contact to qtz-chlorite schist - lam subrounded augens.																	
70-21				Qtz breccia - brittle concentrations over 3cm. between qtz segregations																	
80-24				Grad contact to finely banded qtz. bro. schist Grad. contact to white quartz over 20 cm. Grad. contact to banded qtz chlorite schist																	
90-27				Grad contact at 27.4m to white quartz - bedding 60° to axis. no lib. sulphides.																	

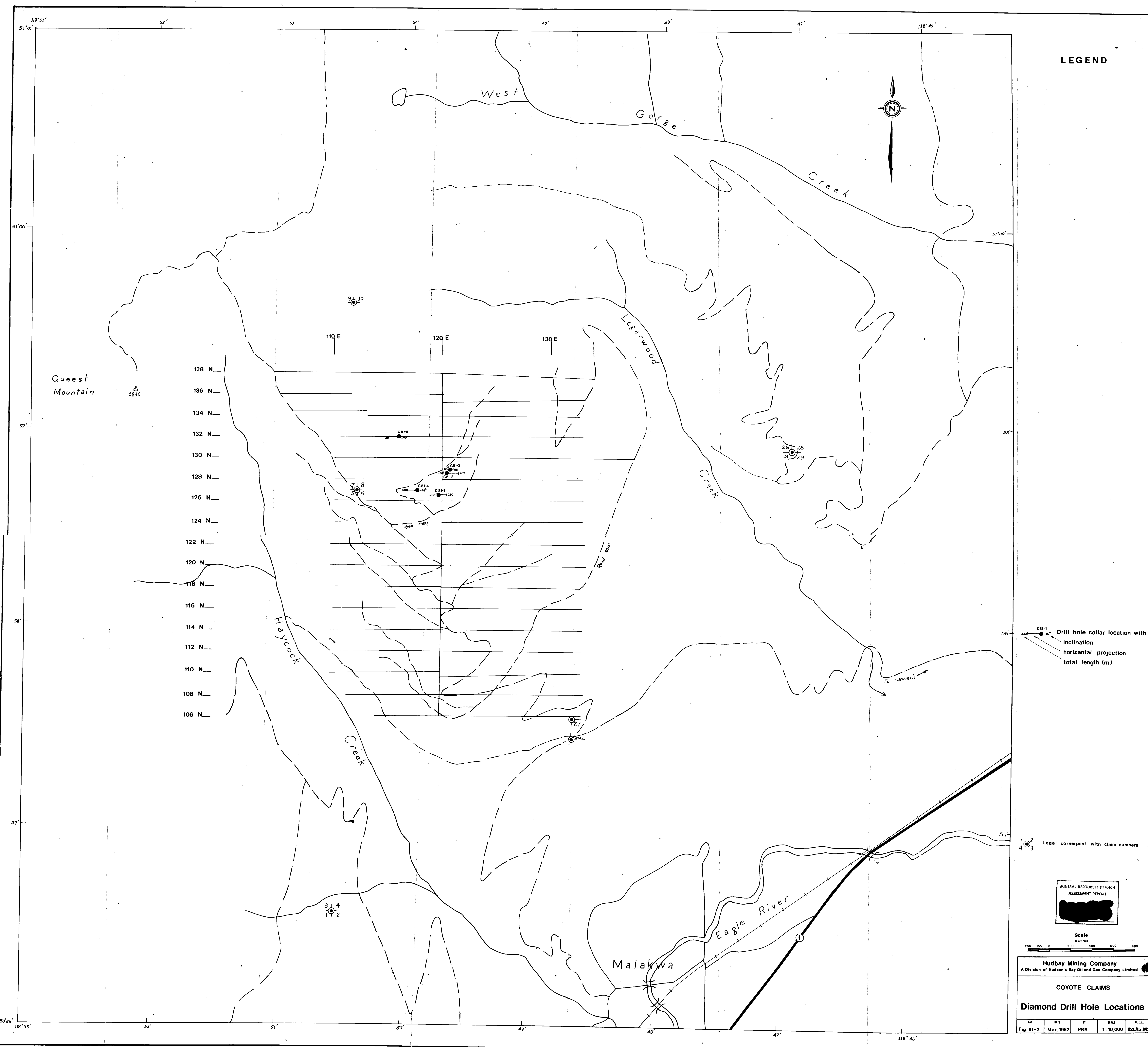
Trace diss pyrite  
1% blebby pyrite in qtz breccia.

14.1-20.1 1m C81-3-151 (5) (150) 18 65 nd (200)

21.1-22.1 1m C81-3-152 2 (176) 20 81 nd (200)



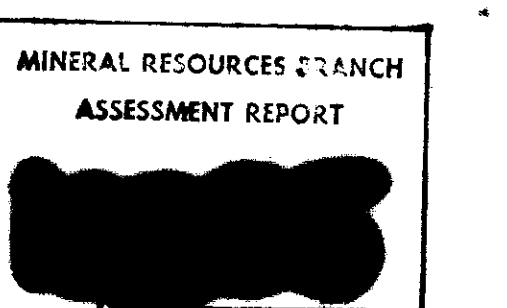




**LEGEND**

Drill hole collar location with  
 inclination  
 horizontal projection  
 total length (m)

Legal cornerpost with claim numbers



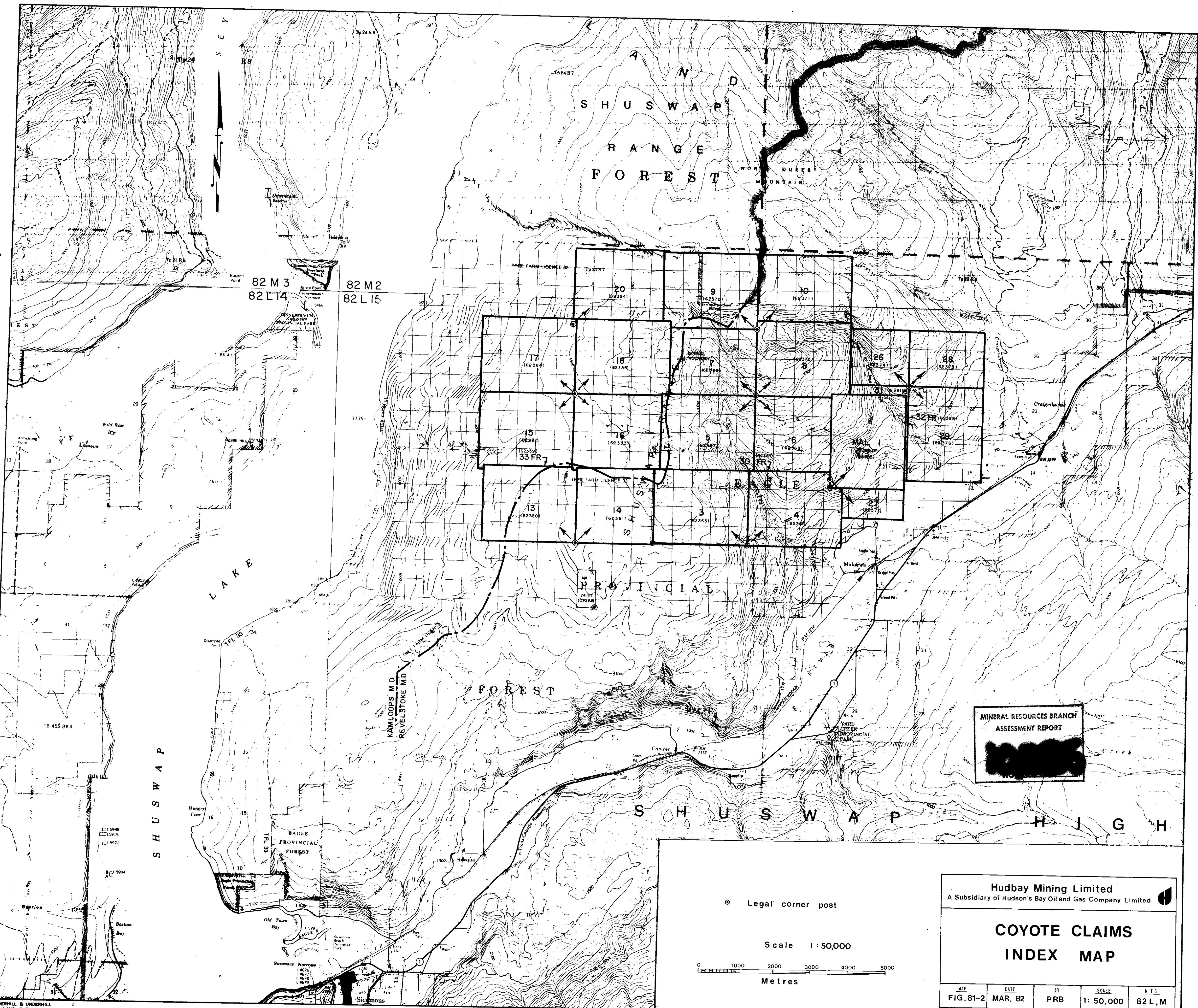
Scale  
 Metres  
 200 400 600 800

**Hudbay Mining Company**  
 A Division of Hudson's Bay Oil and Gas Company Limited

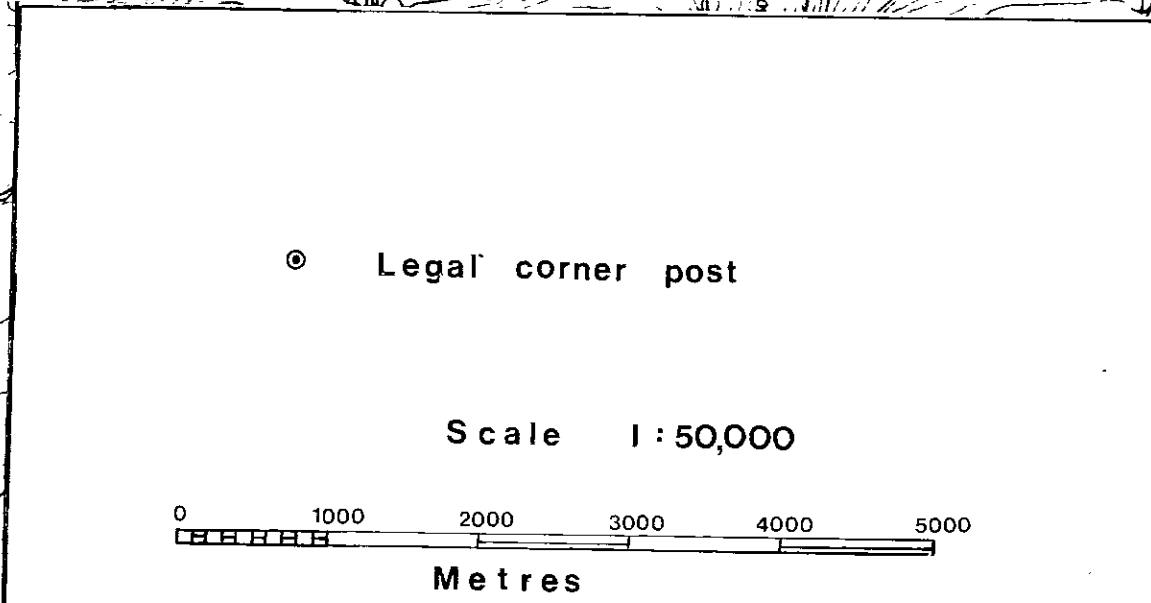
**COYOTE CLAIMS**  
**Diamond Drill Hole Locations**

MM	JML	EL	SHL	J.L.
Fig. 81-3	Mar. 1982	PRB	1:10,000	82L/15, M2





MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT



Hudbay Mining Limited  
 A Subsidiary of Hudson's Bay Oil and Gas Company Limited

**COYOTE CLAIMS  
 INDEX MAP**

MAP FIG. 81-2	DATE MAR. 82	BY PRB	SCALE 1: 50,000	N.T.S. 82 L, M
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