

84-#1004-12904

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,904

DRILLING ASSESSMENT REPORT
on the
FOGGY A GROUP

KAMLOOPS MINING DIVISION
NTS 82M/12W

Latitude 51 deg. 32' N
Longitude 119 deg. 53' W

by
J. M. Marr
C. C. Everett

Owner (43.5%): Barrier Reef Resources Ltd.
904 - 675 W. Hastings St.
Vancouver, B.C. V6B 1N2

Operator: Esso Resources Canada Ltd.
1600 - 409 Granville Street
Vancouver, B.C. V6C 1T2

Date: November 10th, 1984

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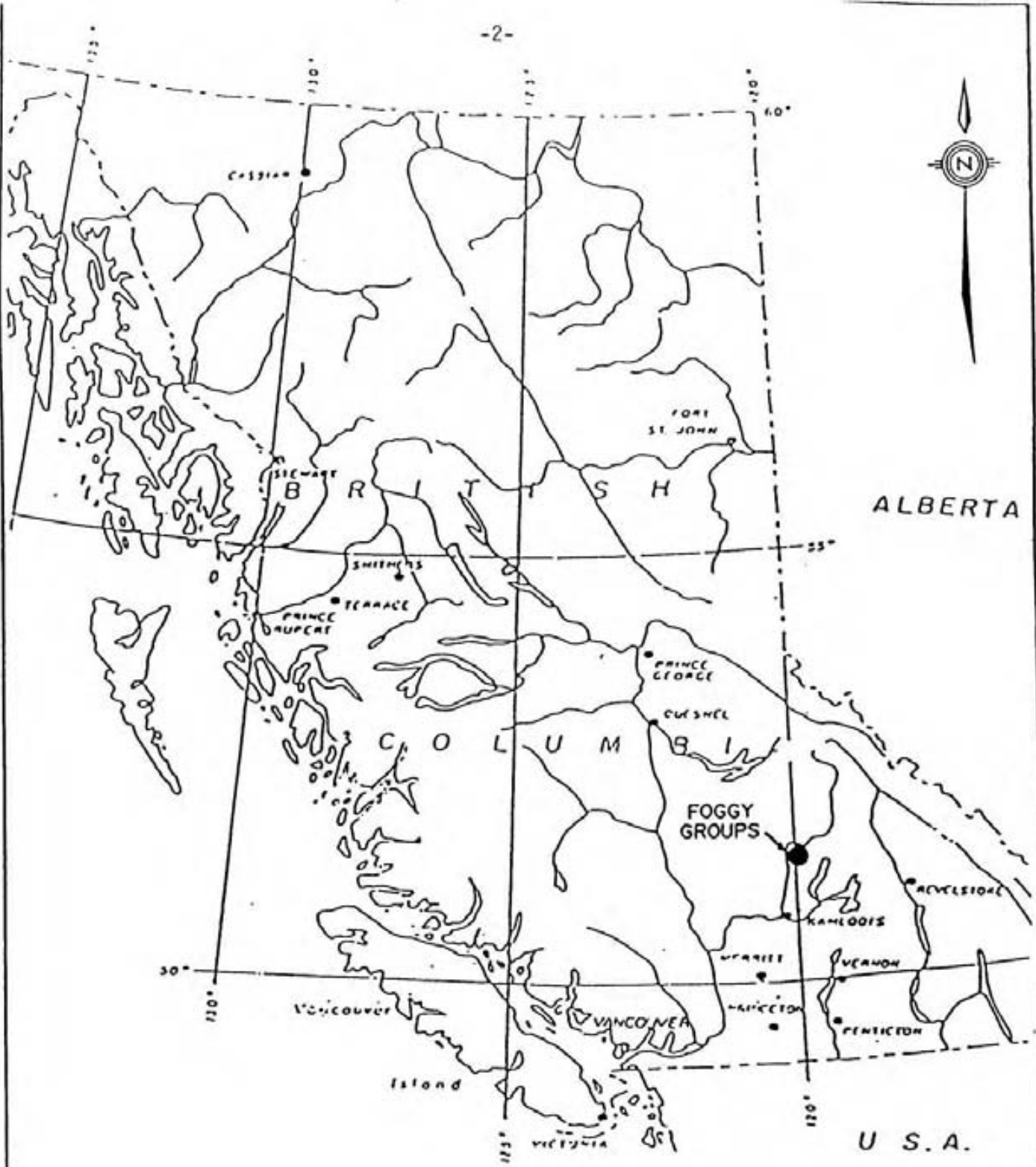
INTRODUCTION

The Foggy A Group is located in south-central British Columbia about 100 km NNE of the city of Kamloops and 11 km south of the village of Birch Island. Approximate geographic centre of the property is at 51 deg. 32' N latitude and 119 deg. 54' west longitude.

PROPERTY

The Foggy A Group consists of 7 mineral claims aggregating 84 contiguous units. Claim names, units, month of record, record numbers and expiry dates are listed below. The expiry dates shown assume approval of this assessment report.

<u>Claim</u>	<u>Units</u>	<u>Month</u>	<u>Record</u>	<u>Expiry Date</u>
Foggy 4	12	1	1680	Jan. 5, 1986
Foggy 5	15	1	1681	Jan. 5, 1986
Foggy 6	10	1	1682	Jan. 5, 1986
Foggy 8	2	1	1684	Jan. 5, 1986
Foggy 9	20	1	1685	Jan. 5, 1986
Foggy 11	20	8	2023	Aug. 23, 1989
Foggy 12	5	11	3071	Nov. 13, 1987



ESSO MINERALS CANADA	
LOCATION MAP FOGGY A GROUP	
Project No 2189	Mining Div. Kamloops
NTS	Drawn by J. M. M.
Date NOV. 1964	Fig No 1

APPLICATION OF ASSESSMENT

The October 1983 phase of diamond drilling (see Itemized Cost Statement) is to be applied to the Foggy 11 claim only. The August 1984 diamond drill program applies to the other claims (Foggy 4, 5, 6, 8, 9, 12) in the Foggy A Group.

HISTORY OF PROPERTY

The district has seen several bursts of exploration activity. First in the early 1950's during the original work on the Rexspar deposit (approx. 4 km to the NNW) and then in the late 1960's and early 1970's with the discovery of the Harper Creek copper property approx. 4 km to the east. Several old roads and cut picket lines remain from the earliest Rexspar activity.

In the spring of 1979, a Dighem II airborne geophysical survey was flown over the area of the Foggy A Group. One area of lower resistivity was outlined on the claims. Ground investigation of this area revealed one outcrop of semi-massive sulphides.

In 1980 and 1981, Barrier Reef Resources Ltd. carried out limited soil sampling, VLF-EM and Induced Polarization surveys over the showing. Esso Resources Canada Limited became operator of the property in 1982

REGIONAL GEOLOGY

The Foggy A Group is underlain by Upper Paleozoic Mississippian and (?) earlier rocks of the Eagle Bay Formation. It consists of rusty weathering, greenish grey feldspathic chlorite schists, chlorite schists, sericite schists, quartz sericite schists and sericitic quartzites. These units comprise a relatively flat-lying plate, occurring as a slight north-plunging synform.

The Eagle Bay Formation rocks appear to be in thrust contact with Early Pennsylvanian - Permo Triassic Fennell Formation basalts, basic fragmentals, cherts, limestones and argillites approximately 5 km to the west.

DETAILS OF 1983/1984 DRILL PROGRAMS

The locations of the three diamond drill holes being submitted here for assessment credits are shown on Figure 3. This section of grid B-6 is keyed to the previous figure (Fig. 2) which shows the grid in relation to claim outlines and topographic features.

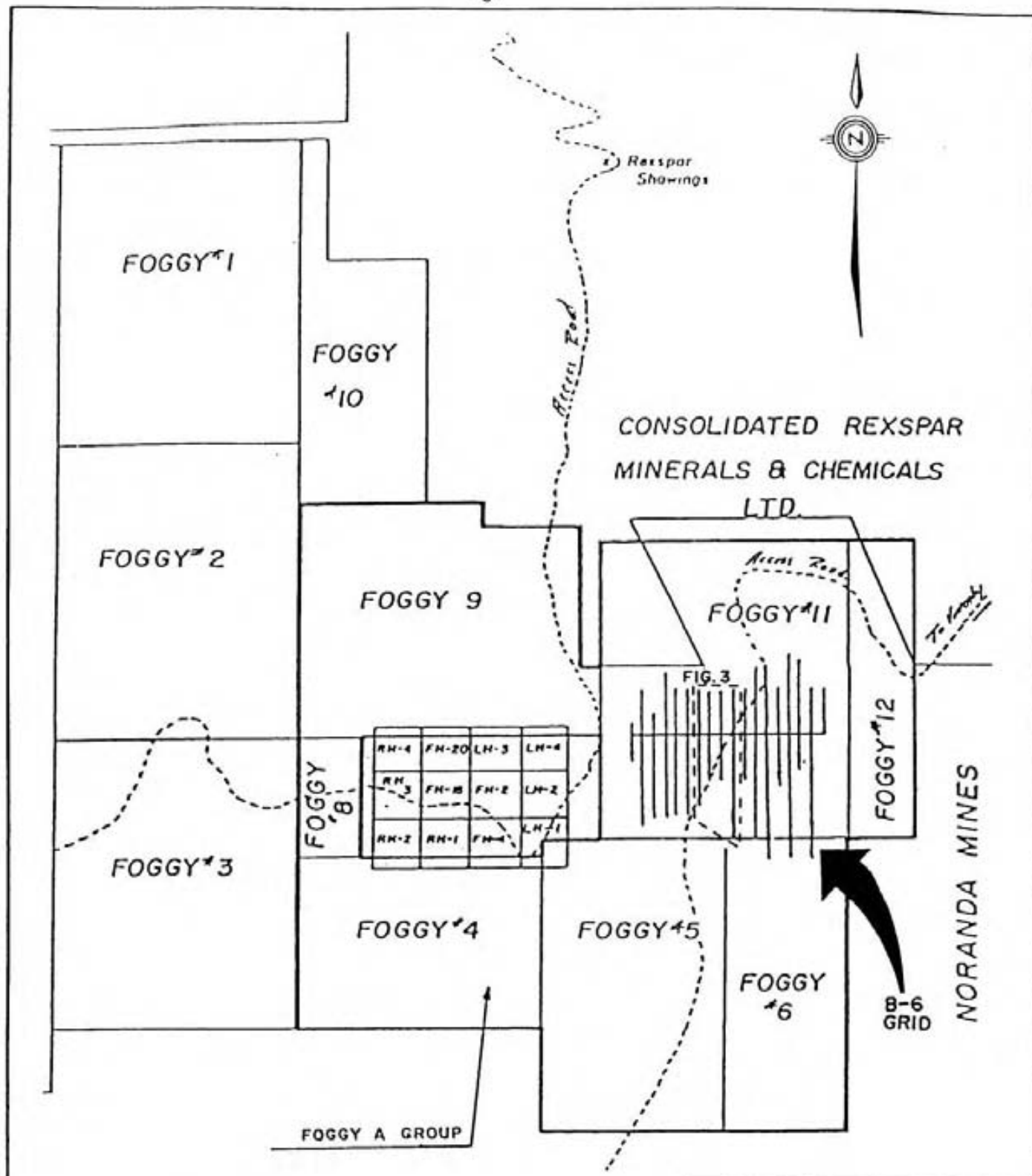
Two of the above holes were drilled in October 1983 by Ultramobile Diamond Drilling Ltd. of Surrey, B.C. These are the BBC 83-2 and 83-3 holes. The other was drilled in early August of 1984 by Core Enterprises Ltd. of Clinton, B.C. Statistics for all three holes are as follows.

Hole	Dates	Core	Collar Elev.	Length	Inclin.	Az.
BBC 83-2	12/10/83- 15/10/83	BQ	1770m	139.1m	-45deg.	180 deg
BBC 83-3	18/10/83- 22/10/83	BQ	1792m	128.0m	-45deg	180 deg
BBC 84-1	01/08/84- 04/08/84	NQ	1795m	134.4m	-90deg	--

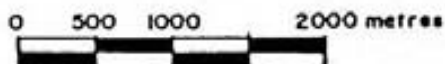
Dip tests are included with the attached drill logs. Core is stored close to the site of each hole.

DRILLING RESULTS

The purpose of all three holes was to check the downdip extension of the zone of semi-massive sulphide which is exposed by trenching in the central part of the B-6 grid. All three appear to have intersected this zone or its stratigraphic equivalent.



SCALE 1 50,000



ESSO MINERALS CANADA

CLAIM MAP
FOGGY A GROUP

Project No 2189	Mining Div Kamloops
NTS 82M/12W	Drawn by J.M.M.
Date NOV. 1984	Fig No 2

APS

DDH 84-1

SS BASELINE

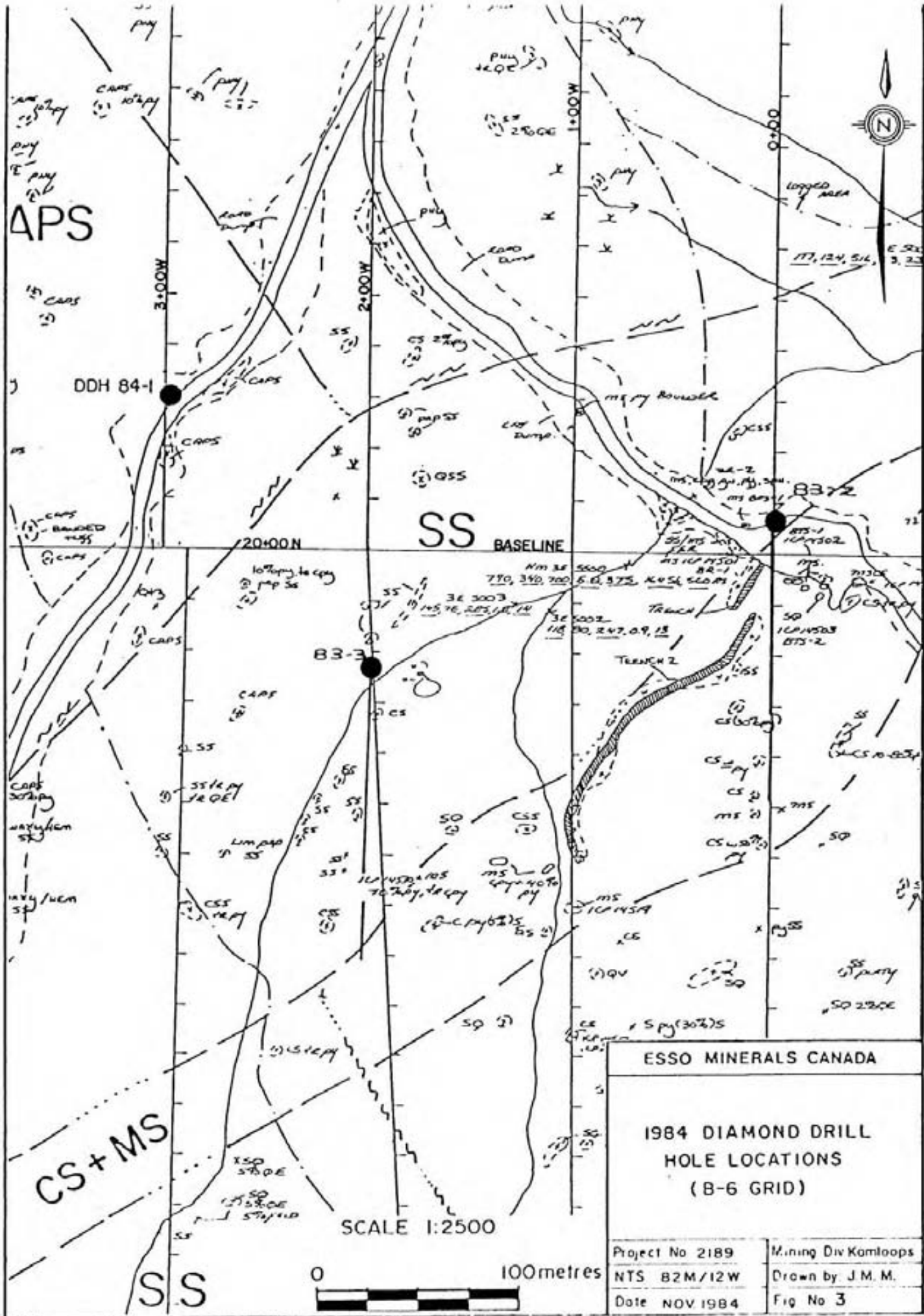
B3-3

B3-2

CS+MS

SS

SCALE 1:2500



ESSO MINERALS CANADA

1984 DIAMOND DRILL HOLE LOCATIONS (B-6 GRID)

Project No 2189	Mining Div Kamloops
NTS B2M/12W	Drawn by J.M.M.
Date NOV 1984	Fig No 3

Stratigraphy and Mineralization

The B-6 grid is underlain by Eagle Bay Formation metavolcanics and arenaceous sediments. All of the units are highly schistose and have been subject to greenschist facies metamorphism. Original rock textures are rarely preserved and thus primary lithologies are in some doubt.

Diamond drill holes BBC 83-2 and 83-3 indicate two semi-massive sulphide horizons, separated by a stratigraphic interval some 35m in true width. The horizons are composed predominantly of granular pyrite in a matrix of chlorite and quartz with only minor base and precious metal values. BBC-84-1 shows only a very limited development of these horizons.

The unit above the upper semi-massive sulphide zone is a relatively homogeneous chlorite sericite schist which appears to be an intermediate or felsic altered flow rock.

The sequence between the sulphide horizons or occupying the middle sections of the holes is a more variable series of sericite-chlorite or chlorite schists with minor chert and argillite locally. They appear to be highly schistose sericitic or hematic fine tuffs or volcanoclastics with thick sections of more arenaceous material. Faulting is significant throughout.

The lower part of the sequence comprises a more homogeneous succession of sericite-chlorite schists which appear to represent a series of intermediate flows.

Although pyrite is widely developed throughout this sequence and reaches significant proportions locally, there appears to be very little improvement in base and precious metal values downdip. Near surface potential appears to be limited.

ITEMIZED COST STATEMENT

Direct Drilling Costs

BBC-83-2	11,083.00	
83-3	<u>11,240.02</u>	
	\$ 22,323.02	\$ 22,323.02

Salaries

Project Geologist		
5 days @ \$166/day	830.00	
Geologist Assistant		
14 days @ \$114/day	<u>1,596.00</u>	
	\$ 2,426.00	2,426.00

<u>Vehicle</u> (fuel, oil, rental)		750.00
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Accomodation

14 days @ \$40/day		560.00
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Analytical

44 assays (Au, Ag, Pb, Zn, Cu)		
@ \$28.00 each		1,232.00

Support Staff Miscellaneous

250.00

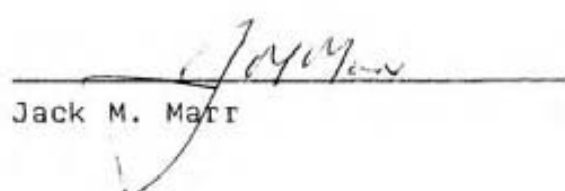
TOTAL		<u>\$ 27,541.02</u>
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Jack M. Marr

1984 DRILL PROGRAM (AUGUST 1984)

<u>Direct Drilling Costs</u>		
BBC -84-1		\$ 8,064.00
 <u>Salaries</u>		
District Geologist		
7 days @ \$274/day	\$ 1,918.00	
Field Assistant		
5 days @ \$198/day	990.00	
Technician		
4 days @ \$104/day	<u>416.00</u>	
	\$ 3,324.00	3,324.00
 <u>Vehicle (fuel, oil, rental)</u>		750.00
 <u>Accomodation</u>		
10 days @ \$40/day		400.00
 <u>Analytical</u>		
10 assays (Au, Ag, Cu, Pb, Zn, Bu) @ \$49.00		490.00
 <u>Support Staff, Misc, Equipment & Supplies</u>		235.00
		<hr/>
TOTAL:		\$ 13,263.00
		<hr/>
GRAND TOTAL:		\$ 40,804.02

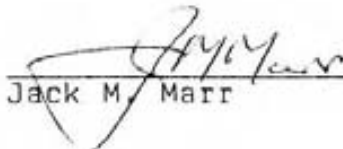


Jack M. Marr

STATEMENT OF QUALIFICATIONS

I obtained a B. SC. (Hons) from St. Andrews University, Scotland, in 1968 and an M. Sc. from the University of Manitoba in 1970.

Since that time I have been employed in Mineral Exploration activities in Canada and Australia, for the past twelve years with Esso Resources Canada Limited.



Jack M. Marr

STATEMENT OF QUALIFICATIONS

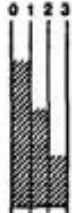
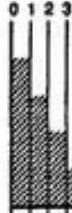
I am a Bachelor of Science graduate from the University of New Brunswick (May 1977) and have been employed as an exploration geologist within the mining industry since that time; the last five years with Esso Resources Canada Limited.


C. C. Everett

APPENDIX A

Drill Logs

DRILL LOG

PROJECT <i>BARRIER 2189</i>	GROUND ELEV. <i>1770 m.</i>
HOLE NO. <i>BBC-83-2</i>	BEARING <i>180°</i>
LOCATION <i>BARRIER - 6 GRID</i> <i>LO100:20185N</i>	DIP <i>-45°</i>
LOGGED BY <i>C. Everett</i>	TOTAL LENGTH <i>139.1 m.</i>
DATE <i>Oct 17/83</i>	HORIZONTAL PROJECT <i>96.2 m.</i>
CONTRACTOR <i>ULTRABILE DIAMOND DRILLING</i>	VERTICAL PROJECT <i>100.3 m.</i>
CORE SIZE <i>8D - AUS</i>	ALTERATION SCALE 
DATE STARTED <i>OCTOBER 12/83</i>	TOTAL SULPHIDE SCALE 
DATE COMPLETED <i>OCTOBER 15/83</i>	
DIP TESTS <i>45.7 m -45°</i> <i>91.4 m -47°</i> <i>137.2 m -48°</i>	
COMMENTS	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
0				0-8.8 OVERBURDEN							
5.0											
8.8				8.8-26.5 SERICITE SCHIST							
10.0				- SHARP Banded micaceous green: 1-30mm ALTERNATING BkLDS of qtz-SER, qtz, qtz FELD ± PY QN. (possible veins // FOLIATION) @ 50°C - 9.3 AND 9.5-9.58 qtz-FELD-QN BANDS (possible veins // FOLIATION) @ 50°C - 8.8-15.0 OXID RED - 10.6-10.7 gouge							
13.0				comp. 55° 13.0 comp Bding @ 55°C - 13.1-13.5 15 # 2-10mm qtz-FELD- PY-QN STRAINERS (folded) @ 60°C.							
17.0				comp 60° 17.0 comp Bding @ 60°C.							
20.0											

2

1

1

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		As	Ag	% Cu	% Pb	% Zn
88-9.3 3% py										
3-11.1 2-4% py TR qn/spn		9.3	11.1	1.8	14326	.001	.12	.018	.086	.500
11.1-16.8 1% py 11.9 gts 30N Ag (15% qn) FRACTURE filling @ 60°C.										
16.3-17.6 .5-1% qn, 5% py TR spn		16.3	17.6	1.3	14327	.006	.16	.052	.148	.335
17.6-19.1 1% py										
19.1-21.6 2-5% py TR DISS qn spn										

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
20.0											
				<p>comp. bd. 78° 23.0 COMP BANDING @ 75°C.A. 23.5 2cm gouge 25.2-26.5 FLATTENED qtz eyes ALONG FOLIATION @ 70°C.A. POSSIBLE FELSIC FLUW.</p>							
25.0				<p>26.5-32.3 Chertite-Sericite Schist - ^{Surface} most quartz - mod. chlorite (10-25%) sericite (10-20%) qtz-feld bands. Chertite a possible ALTERATION RELOC. WITH SEMI MASSIVE SULPHIDE INTERSECTION FROM 32.5-35.8</p>							
				<p>comp. bd. 85° 28.0 comp banding @ 80°C.A. 28.9-29.0 gouge</p>							
30.0											
				<p>mass. py 60° - 32.5-33.8 SEMI-MASSIVE SULPHIDE 15-60% py to sph, qpy @ 60°C.A.</p>							
35.0				<p>35.2-37.2 Banded Sericite-Pyrite Schist SHARP Banded: SERICITE/ SERICITE-qtz / qtz-feld-py AND py bands. Sulphides are PERIPHERAL TO qtz-feldspar bands - to (fine) arsenopyrite 1/0.</p> <p>38.2-41.2 SERICITE CHANGES FROM TYPICAL YELLOW-BROWN TO A LIGHT GREEN.</p>							
40.0											

POSSIBLE
ALTERATION
ZONE

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	% Cu	% Pb	% Zn
		19.1	21.6	1.5	14228	.002	.10	.016	.044	.072
21.6-26.5 4-1% py to spg n+cp										
26.5-32.5 3-5% py to spg / gn		26.5	29.6	3.1	14229	.001	.09	.03	.007	.017
		29.6	32.5	2.9	14230	.001	.07	.04	.008	.022
32.5-33.8 15-60% py to spn, gn		32.5	33.8	1.3	14231	.007	.08	.081	.015	.029
33.8-35.3 3-5% py		33.8	35.2	1.4	14232	.002	.11	.053	.018	.095
35.2-38.2 5-8% py to spg		35.2	38.2	3.0	14233	.002	.07	.015	.017	.067
38.2-41.2 5-8% py (to spn? AS FLATTENED BROWN Flg LENSES)		38.2	41.2	3.0	14234	.001	.10	.02	.029	.071

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	% Cu	% Pb	% Zn
41.2-43.4 1-2% py										
		41.2	43.4	2.2	14235	.002	.05	.015	.028	.10
43.4-46.3 2-4% py tr. DISS gn, SPN cpy										
		43.4	46.3	2.9	14236	.001	.10	.03	.016	.23
46.3-47.2 3-5% EXT. FA py										
		46.3	47.2	0.9	14237	.001	.02	.008	.007	.033
47.2-48.5 CRACKLED SUB-BANDD. 2% py tr gn.										
		47.2	48.5	1.3	14238	.001	.03	.018	.023	.149
48.5-51.3 5-15% BANDO py tr cpy.										
		48.5	51.3	2.8	14239	.005	.11	.045	.043	.230
51.3-52.2 1-2% py										
52.2-53.85 1-4% py										
53.85-56.0 2% py tr gn in g.us										
		53.85	56.0	2.15	14240	.002	.02	.011	.004	.018
56.0-58.6 2% py										
58.6-58.9 8% py tr gn tr HER.										
58.9-66.4 1-2% py										

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					A	B	C	D	E			
0.0												
65.0												
70.0												
75.0												
80.0												

63.0 CHLORITE BAND @ 60°C.

66.4-68.6 CHLORITE SCHIST (Basic Tuff?)
 - dk green chloritic, contains
 1-5% flattened feld. phenos, 5-10%
 flattened silica/feld lenses (possible
 frags) in a granular textured ground

68.0 comp. banding @ 70°C.
 65.6-68.6 fracture zone
 68.8 2cm gouge

68.6-72.3 Sericite Schist - (Qtzite?)
 - mod. siliceous, 10-25% sericite, 75-
 90% silica - probable ser. qtzite.
 70.8-71.1 vein fracture zone minor gouge

72.3-74.6 Chlorite Sericite Pyritic Schist
 - probable intermediate tuff
 banded, pale green, fine flattened
 chlorite spots.
 - 73.0 m comp. banding @ 65°C.

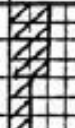
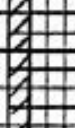

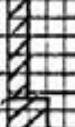
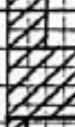
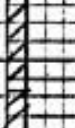
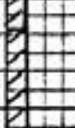
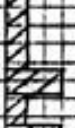
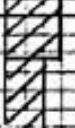

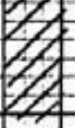
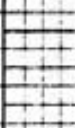
74.6-78.7 Chlorite Sericite Schist - Qtzite
 - white to green, poorly banded,
 siliceous, fr py 1-3mm bands
 to unit.
 - 76.0 py band @ 60°C.
 - 77.9-78.6 fr. rounded qtzite.

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		%			%	
						Ag	Cu	Pb	Zn	
<i>66.4-68.6 1-3% py</i>										
<i>68.6-72.4 4% py</i>										
<i>72.4-72.7 8% py</i>										
<i>72.7-73.7 3% py</i>		<i>72.3</i>	<i>73.7</i>	<i>1.4</i>	<i>14248</i>	<i>.003</i>	<i>.02</i>	<i>.058</i>	<i>.008</i>	<i>.045</i>
<i>73.7-74.0 10-15% py</i>										
<i>74.0-74.1 MASS. SULPHIDE BAND</i>		<i>73.7</i>	<i>74.6</i>	<i>0.9</i>	<i>14242</i>	<i>.01</i>	<i>.21</i>	<i>.056</i>	<i>.007</i>	<i>.072</i>
<i>65% py 2% sph, tr cop @ 70%</i>										
<i>74.1-74.6 10% py</i>										
<i>74.6-81.5 74-2% py</i>										

*

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	% Cu	% Pb	% Zn
						g/t	g/t	g/t	g/t	g/t
81.5-81.8 10% coarse banded py @ 60°C										
81.8-82.9 <i>tr py</i>										
82.9-83.1 56% <i>tr</i> - massive py band @ 60°C (150% <i>tr</i>)										
83.1-91.9 L-2% <i>tr py</i>										
91.9-92.4 1% <i>tr py</i> 1% <i>tr po</i>										
92.4-101.0 1-3% <i>tr py</i> <i>tr py</i>										



%	CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
100.0											
				<p>102.5 PY BAND @ 70° CA.</p> <p>102.8 - 103.5 gtz SERV MINOR QUARTZ NO ATTITUDE.</p>							
95.0											
90.0				<p>110.4-114 BLK AMPHIBOLITE</p> <p>8.65° - ~80% BLK CARBONACEOUS BANDS WITH GRAY SILICO BANDS</p> <p>8.6° 111.0 - BEDDING @ 65° CA.</p> <p>111.4-114.65 SERICITE CHLORITE - IMPURE AS IN AREA @ 86.7-110.4 SECTION</p> <p>- 111.9-112.9 TE CARBONACEOUS MATERIAL</p> <p>- 112.2 CARBONACEOUS BAND @ 55° CA.</p> <p>- 112.9-113.8 30% CARBONACEOUS MATERIAL</p> <p>- 113.8-114.65 5% CARBONACEOUS MATERIAL</p>							
85.0				<p>114.65-122.8 SERICITE ± CHLORITE - PYRITIC - SCHIST</p> <p>pink gray green, granular textured WITH FINE CHLORITE SPICES FATTENED ALONG FOLIATION. FR FATTENED QZ CRYSTALS (IMMEDIATELY X STAL TUBES)</p> <p>BONDED PY ± PO COMMON TO UNIT.</p> <p>- 118.9-120.2 SILICEOUS, SERICITE DOMINATED WITH WELL BANNED PY</p>							
80.0				<p>120.0 PY/PO BAND @ 65° CA.</p>							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS %				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
<i>101.0-106.8 tp py</i>										
<i>106.8-108.0 3% py Tr po.</i>										
<i>108.0-108.9 10% py @ 70% p.</i>		<i>108.0</i>	<i>108.9</i>	<i>0.9</i>	<i>14244</i>	<i>.002</i>	<i>.01</i>	<i>.023</i>	<i>.002</i>	<i>.006</i>
<i>108.9-110.4 tr-1% py</i>										
<i>110.4-111.4 1% coarse diss py</i>										
<i>111.4-113.8 tr-1% py</i>										
<i>113.8-114.35 8% py</i>		<i>113.8</i>	<i>114.35</i>	<i>0.4</i>	<i>14246</i>	<i>.002</i>	<i>.02</i>	<i>.022</i>	<i>.004</i>	<i>.016</i>
<i>114.65-115.6 5% py 1% po</i>										
<i>115.6-117.1 2% py 1% po</i>		<i>114.65</i>	<i>116.85</i>	<i>2.0</i>	<i>14246</i>	<i>.002</i>	<i>.02</i>	<i>.014</i>	<i>.003</i>	<i>.009</i>
<i>117.1-120.9 5-8% py 1-2% po.</i>										
		<i>117.1</i>	<i>118.9</i>	<i>2.25</i>	<i>14248</i>	<i>.001</i>	<i>.04</i>	<i>.022</i>	<i>.002</i>	<i>.043</i>
		<i>118.9</i>	<i>120.9</i>	<i>2.0</i>	<i>14248</i>	<i>.001</i>	<i>.02</i>	<i>.017</i>	<i>.003</i>	<i>.006</i>

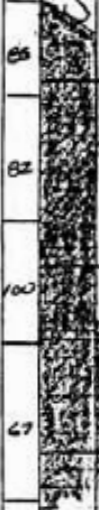
	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
10.0				<p>121.0-121.3 2% smk qtz clyes. 122.8-123.2 <u>Black Argillaceous Band</u> - @ 75°C.</p>							
25.0				<p>123.2-127.5 <u>Sericite Schist - felsic flow?</u> - SILICA ± FELD AND SERICITE BANDS. WELL FOLIATED - NOT EQUIVALENT TO 9 SITE UNITS UP HOLE. - 124.4-124.6 <u>py schist</u> - see to py 1. @ 60°C.</p>							
30.0				<p>comp. bd. - 125.0 comp. banding @ 70°C. 70°C. 127.5-132.1 <u>Sericite + Chlorite - Pyritic Schist</u> - SIMILAR TO INTERMEDIATE X'STAL TUFF SECTION NOTED FROM 114.65- 160.8 m. up section - 129.2-129.6 <u>gouge/fract zone</u> - 130.0 <u>py band</u> @ 60°C.</p>							
15.0				<p>132.1-139.1 <u>Cracked - Sub Brecciated Pyritic</u> LIGHT GRAY SILICEOUS, to BLACK CARBONACEOUS MATERIAL ALONG A POORLY DEVELOPED FOLIATION! Py/ps is usually disc. or fracture CONTROLLED. - 134.0 comp. banding @ 60°C. - 132.7-132.1 30% INTERBEDDED ARGILLACEOUS MATERIAL</p>							
0.0				<p>* BRECCIATION INCREASES DOWNHOLE TO 139.1 m. 139.1 END OF HOLE</p>							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS						
		FROM	TO	WIDTH		Au	Ag	% Cu	% Pb	% Zn		
<i>122.8-123.2 1% COARSE DSS PY</i>												
<i>123.2-124.4 fr-1% py tr po</i>												
<i>124.4-127.5 1-2% py 1% po AS COARSE BLEBS / WITH PO BEING FRACTURE CONTROLLED OR AS FILMS TO COARSE PO BLEBS</i>												
<i>127.5-130.0 1% py fr-1% po</i>												
<i>130.0-132.1 3-5% py - MINOR EXT. FINE BROWN NON-IRON MINERAL - SPH?</i>		<i>130.0</i>	<i>132.1</i>	<i>2.1</i>	<i>14249</i>	<i>.002</i>	<i>.03</i>	<i>.04</i>	<i>.004</i>	<i>.023</i>		
<i>132.1-133.7 + 3% py tr po</i>												
<i>133.7-135.2 3-5% py 1% po</i>		<i>133.7</i>	<i>135.2</i>	<i>1.5</i>	<i>14250</i>	<i>.001</i>	<i>.02</i>	<i>.002</i>	<i>.002</i>	<i>.002</i>		
<i>135.2-139.1 1-2% py 1% po</i>												
<i>139.1 END OF HOLE</i>												

DRILL LOG

PROJECT <i>BARRIER 2189</i>	GROUND ELEV. <i>1792m</i>
HOLE NO. <i>BBC 83-3</i>	BEARING <i>180°</i>
LOCATION <i>BARRIER #6 GRID L2100W 19+57N</i>	DIP <i>-45°</i>
	TOTAL LENGTH <i>128.0m</i>
LOGGED BY <i>C. P. O'Neil</i>	HORIZONTAL PROJECT <i>89.1m</i>
DATE <i>OCTOBER 29/1983</i>	VERTICAL PROJECT <i>91.5m</i>
CONTRACTOR <i>ULTRAMOBILE DIAMOND DRILLING</i>	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE <i>BD PLUS</i>	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE STARTED <i>OCT 18th/83</i>	
DATE COMPLETED <i>OCT 24/83</i>	
DIP TESTS <i>45.7m 45° 91.4m 46.5° 128.0m 47°</i>	
COMMENTS	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
0				<i>0-139 OVERBURDEN</i>							
5.0											
10.0											
15.0				<p><i>139-25.0 SERICITIC QUARTZITE</i> <i>TAN → YELLOW / grey, MOD. SILICEOUS</i> <i>POORLY FOLIATED (YELLOW COLOUR</i> <i>ATTRIBUTED TO SURFACE OXIDATION)</i> <i>139-18.6 SUB-BRECCIATED TECTONIC</i> <i>TEXTURE - POSSIBLY DOWNHOLE</i> <i>FRACTURE ZONE OR FAULT IN CREEK</i> <i>BED SOUTH OF 88CB3-3 COLLAR.</i> <i>-13.9-34.0 m OXIDIZED ON FRACTURES</i> <i>-15.4 BRECCIATION @ 60°C.</i></p>							
20.0											



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					A	B	C	D	E			
20.0												
23.3-23.6				gouge								
24.0				foliation @ 60°CA								
25.0-27.5			60° PL	SERCITE SCHIST - felsic flow? - pale gray to grey green - contains MINOR 0.1m. SERICITE qtzite? BANDS, AS NOTED UP HOLE. WELL FOLIATED								
26.0			60° PL	foliation @ 60°CA								
28.7-29.1			60° PL	gls. ANK. SEC. V. @ 60°CA								
30.0			60° PL	comp. bd. 30.0 comp. banding @ 60°CA								
32.5-41.0			60° PL	Chlorite Schist - Banded Sulphide Horon - DARK-EMERD GREEN. MOD CHLORITE CHLORITE IS A POSSIBLE ALTERATION ASSOCIATED WITH DEPOSITION OF SULPHIDES. Pyrite RICH UNIT								
32.5-34.5			60° PL	8-10% py								
34.5-35.2			60° PL	20% py 4% cpy								
35.2-35.6			60° PL	60% py 3% cpy WITH SPH AND cpy IN qtz veins @ 60°CA AT 35.2/35.4m								
35.6-36.0			60° PL	70% py 1% cpy 1% po								
36.0-36.3			60° PL	20% py								
36.3-37.0			60° PL	5% py .5% cpy								
37.0-37.4			60° PL	70% py								
37.4-38.1			60° PL	30-40% py + BLOCK MINERAL?								
38.1-38.9 / 39.4-39.8			60° PL	1/3 py (5%) SEC CHLOR. // fol. @ 60°CA								
38.9-39.4 / 39.4-41.0			60° PL	30% py								
39.0				of sulphides @ 60°CA								
39.0				of sulphides @ 60°CA								
39.0				of sulphides @ 60°CA								

PROBABLY
TRANS

PROBABLY
TRANS

CHLORITE?

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
40.0				<p>41.0-43.0 <u>SERICITE SCHIST - FELSIC FLOW?</u> INTENSELY SERICITIC, Lt grey-yellow <1mm - 1-2% fine feld. phenos - POSSIBLE FELSIC FLOW</p>							
43.0				<p>43.0-53.5 <u>SHARP BANNED SERICITE SCHIST</u> SIMILAR TO 35.2-52.2 SECTION IN 88C 83-2. BANNED SERICITE/ SERICITE - qtz ± py / qtz - FELDSPAR ± py, cpy, spn, qn SUBSEQUENCE.</p>							
45.0				<p>2x @ 65° - 43.0-43.3 SUB-BRECCIATED CHANCREL @ 60°C - 45.2-46.2 CURVATED / CRACKLE BRECCIATED TEXTURE @ 65°C tr. CARBONACEOUS MATERIAL - 47.0 comp. banding @ 60°C - 47.7-48.1 / 48.7-49.6 / 49.8-50.6 FRACTURED MINOR gouge. 50.0 py-galena BAND @ 60°C SLIPWIDE 50.9-51.0 qtz py (5%) SER V @ 40°C comp. BD. 51.0 comp. banding @ 65°C</p>							
50.0				<p>68° 53.5-64.0 <u>SERICITE SCHIST - FELSIC FLOW?</u> mlr grey - locally cracked BRECCIATED FELSIC VOLCANIC. CHRT. LOSTS SHARP BANNED TEXTURE AS FROM 43.0-53.5 m. Poor FOVIATION DEVELOPMENT. - 55.5m COMPOSITIONAL BANDING @ 60°C - 56.0-56.08 qtz - qn v. @ 60°C - 59.3-64.0 MINOR TRACES OF CHLORITE NOTED WITHIN SERICITIC BAND.</p>							
55.0				<p>SLIPWIDE 70°C 59.3 5mm qtz - feld - cpy (10%), qn (3%) py (20%) BANDS 10° OFF FOVIATION @ 70°C</p>							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	% 900 Cu	% 900 Pb	% 900 Zn
		39.8	41.0	1.2	14256	.002	.10	.048	.004	.018
<i>41.0-43.0 5% py to sph along fine pyrite bands @ 60% Ca</i>		41.0	43.0	2.0	14257	.002	.23	.034	.050	.125
<i>43.0-44.2 3-5% py, to sph & sph.</i>		43.0	45.2	2.2	14258	.001	.07	.062	.009	.34
<i>45.2-50.8 1-3% py to sph & gn.</i>		45.2	47.1	1.9	14259	.001	.03	.030	.004	.058
<i>50.8-53.5 3-4% py to sph & gn.</i>										
		50.8	53.5	2.7	14260	.001	.03	.017	.011	.081
<i>53.5-59.3 to -1% py</i>										





DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B <i>CHLORITE</i>	C	D	E		
60.0				<p>60.24 1.2cm MASSIVE SPH, (50%) qpy (5%) qn (10%) py (15%) BAND @ 60°C</p> <p>60.7-64.0 VEIN ZONE: q-py-zer. I qn/spn @ 60.9-61.1 @ 65°C 61.2-61.7 @ 50°C 63.2-64.0 @ 30°C</p>							
65.0				<p>64.0-65.1 <u>CHLORITE SCHIST - SUNNIDE TUFF</u> Lt. grey green, mod. chloritic AS IN 32.5-41.0 SECTION UP HOLE. UNIT COMPOSED OF 70-80% CHLOR-SILICA ± SERICITE BANDS AND 20-30% MASSIVE pyrite (20-30%) BANDS & 1-2mm mod. SPHERULIC BANDS @ 55°C AT 4.8m</p>							
70.0				<p>65.1-67.4 <u>SERICITE SCHIST - FELSIC TUFF?</u> Lt. yellow/well banded, faulted -probable felsic tuff by sharp banded nature - 67.0 comp. banding @ 60°C 69.0 comp. band. + spn/qn/py bands @ 60°C</p>							
75.0				<p>67.4-73.9 <u>SERICITE & CHLORITE SCHIST</u> - pale green - slight increase in chlorite content from above section - well banded - probable intermediate tuff. py is evenly dist.</p>							
75.0				<p>73.9-78.2 <u>SERICITE SCHIST - FELSIC TUFF?</u> similar to 65.1-67.4 section</p>							
80.0				<p>78.2-83.5 <u>FAULT ZONE - SERICITE SCHIST</u> AS IN ABOVE SECTION. 78.2-78.7 fractured minor gouge 78.7-80.2 gouge</p>							


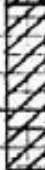

probable trend

85
86
87
88
89
90



FAULT ATTITUDE NOT KNOWN

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	%	%	%
								980 Cu	910 Pb	900 Zn
58.3-60.9 3% py (VARIABLE BASE METALS)		58.3	60.9	1.6	14261	.001	.32	.041	.46	.47
60.24-60.7 3% Zn, 1% Pb, 3% py										
60.9-61.1 - 1% py										
61.1-61.2 - 8% py 3% po										
61.2-61.7 - 1% py										
61.7-63.2 - 2% py to po, 5% py, 9% po		60.9	64.0	3.1	14262	.001	.02	.011	.030	.044
63.2-64.0 - 2% py to 9% po, 5% po										
64.0-64.3 5% py										
64.3-65.1 20-30% py to SPN (BANDS)		64.0	65.1	1.1	14263	.002	.11	.018	.042	.19
65.1-69.4 2-5% py, to 2% po with minor banded SPN (9% py) from 69.1-69.4		65.1	69.4	2.0	14264	.001	.01	.004	.002	.011
		67.1	69.4	2.3	14265	.001	.02	.003	.044	.023
69.4-71.5 to py										
71.5-73.9 2% py 2-3% po		71.5	73.9	2.4	14266	.002	.06	.012	.016	.036
73.9-76.4 1% py to po										
76.4-78.2 2% py to 1% po										
78.2-88.9 1% py to po										

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Am	Ag	% 900 Cu	% 900 Pb	% 900 Zn
<i>100.2 - 103.4 2-3% py</i>										
<i>103.4 - 109.7 1-2% py tr - 1/2% po</i>										
<i>109.7 - 114.6 tr py</i>										
<i>115.4 - 120.9 tr py</i>										

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS %				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
<i>120.9 - 123.6 2% py</i>		<i>120.9</i>	<i>122.8</i>	<i>1.9</i>	<i>14269</i>	<i>.001</i>	<i>.01</i>	<i>.004</i>	<i>.002</i>	<i>.005</i>
<i>123.6 - 125.8 5% py 1-3% po</i>		<i>123.6</i>	<i>125.8</i>	<i>2.2</i>	<i>14270</i>	<i>.002</i>	<i>.02</i>	<i>.012</i>	<i>.002</i>	<i>.005</i>
<i>125.8 - 128.0 1-2% py 1% po</i>										
<i>128.0 END OF HOLE.</i>										

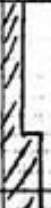
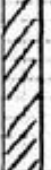








DRILL LOG

PROJECT <i>BARRIER 2189</i>	GROUND ELEV. <i>1795 m</i>
HOLE NO. <i>BBC 84-1.</i>	BEARING —
LOCATION <i>Barrier # 6 Grid 3+00W 20+75N</i>	DIP <i>-90°</i>
	TOTAL LENGTH <i>134.4 m</i>
LOGGED BY <i>J.M MARR</i>	HORIZONTAL PROJECT —
DATE <i>3 Aug 1984.</i>	VERTICAL PROJECT <i>134.4 m</i>
CONTRACTOR <i>CORE ENTERPRISES LTD. CLINTON, B.C</i>	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE <i>NQ.</i>	
DATE STARTED <i>1/AUG/1984</i>	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED <i>4/AUG/1984</i>	
DIP TESTS —	
COMMENTS	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
20											
				1cm Quartz vein ⊥ schy.							
25	90% +			Continues in same light grey very homogenous calcareous sericite schist - representing altered ? flow material							
			-	Minor epq on fracture No sign of phenocrysts.							
30											
				36-60 <u>fine grained, locally graded intermediate tuff</u>							
35	70%		55	30 cm of compacted grey sericite clay (fault zone) Orientation unknown							
			55	36-37.5m Contorted graphitic and sericite graphite fault zone							
40				37.5-39.3 Faulted section 30° to c.a. in massive homogenous siliceous unit.							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
<i>persistent fine disseminated or wispy pyrite parallel to the foliation.</i>									
<i>36-37.5 Silica lenses with irregular blebby pyrite</i>									

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
40				<p>Finely foliated light grey to tan schistose intermediate tuff</p> <p>Grading 40.2 - 42.9m indicating tops up.</p> <p>Much very fine veining</p>							
45				<p>Mo in Qtz veins</p> <p>Fine grained intermed. tuff or volcaniclastic with streaky to wispy zones of yellowish schists - locally pink (hematitic)</p>							
50				<p>49.2m 2cm of argillite</p> <p>Silicified zones</p>							
55	90%			<p>Same pale schist as above</p>							
60				<p>ends gradually at 60m mark.</p>							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Cu	Pb	Zn	Ba	Ag oz/t.	Au oz/t.
Fine pyrite again parallel to foliation. 40.2-42.9 3-5% pyrite		40.2	41.2	1.0m	9220	0.037	0.01	0.01	0.01	0.06	0.001
		41.2	42.2	1.0m	9221	0.023	0.01	0.01	0.01	0.03	0.001
		42.2	43.2	1.0m	9222	0.010	0.01	0.01	0.01	0.03	0.001
Persistent disseminated and stringer pyrite throughout 2-3%											
Pyrite concretions locally common.											
locally < 10% pyrite over 1 metre.											
											
											
											
											
											
											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Cu	Pb	Zn	Ba	Ag oz/t	Au oz/t
thin pyrite trails and grains											
		84.6	85.6	1.0	9228	0.13	0.01	0.01	0.01	0.05	0.001
Disseminated pyrite Granular to banded magnetite		96.3	97.3	1.0	9229	0.008	0.01	0.01	0.01	0.06	0.002
		97.3	98.3	1.0	9230	0.007	0.02	0.01	0.01	0.04	0.002

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
<i>irregular pyrite laminae</i>									
<i>Stellate disseminated and stringer pyrite</i>									

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
120				very broken core							
	40%			Continues in this foliated schist unit - homogeneity suggests							
125											
	35%										
130				Qtz carb veining Starts in a complex mixed zone with some chilled looking rock (base of unit above) and zones of quartz - carbonate veining.							
				Coarser well foliated flow with carbonate - altered feldspars							
				132.9 - 134.4 <u>Grey green chlorite - sericite - schist (section of bedded tuffs)</u>							
				134.4 End of Hole							

