

DIAMOND DRILL HOLE REPORT
FOR GROUP VIII SUPP. ON JEFF 74,
80-89, 91-100, 117-134 AND
REX 2 Fr. MINERAL CLAIMS

Liard Mining Division
104 I / 1W
58° 12' N; 128° 21' W

for

Esso Minerals Canada
#314-1281 W. Georgia
Vancouver, B.C.

by

Dane A. Bridge

November 8, 1978

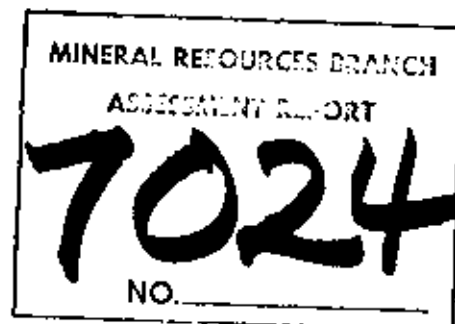


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DDH 85	34 pages
DDH 87	38 pages
DRILL HOLE LOCATION MAP	in pocket

DIAMOND DRILL HOLE REPORT
FOR GROUP III SUPP. ON JEFF 74,
80-89, 91-100, 117-134 AND
REX 2 Fr. MINERAL CLAIMS

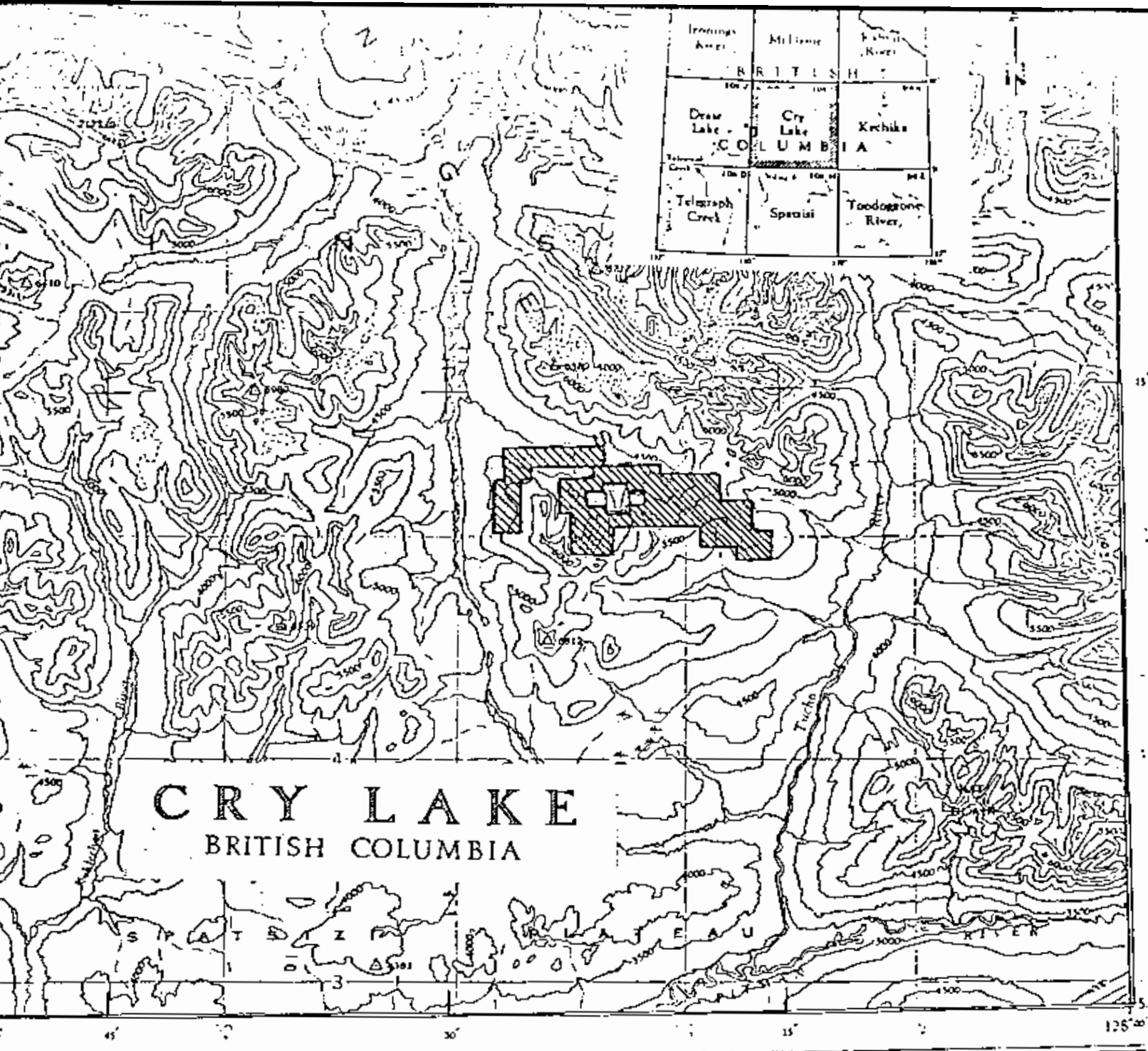
INTRODUCTION:

The Kutcho Creek property is located in mountainous terrain in the Cassiar Mountains. The exploration camp is located at an elevation of 1530 m on the south side of a tributary of Kutcho Creek. Exploration is done at or above tree line from elevations of 1500 to 1650 m.

The property is centered about 21 km south-south-east of Rainbow Lake and 9 km east-south-east of the Kutcho Creek airstrip. Access is by plane to the airstrip from Watson Lake, Yukon and from the strip to camp by helicopter. The location of Esso Mineral's claims is shown on Index Map No. 1.

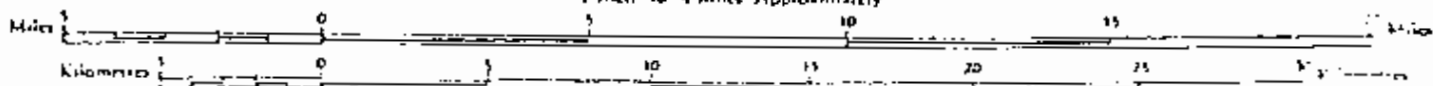
The property is owned and operated by Esso Minerals Canada, a division of Esso Resources Canada Limited.

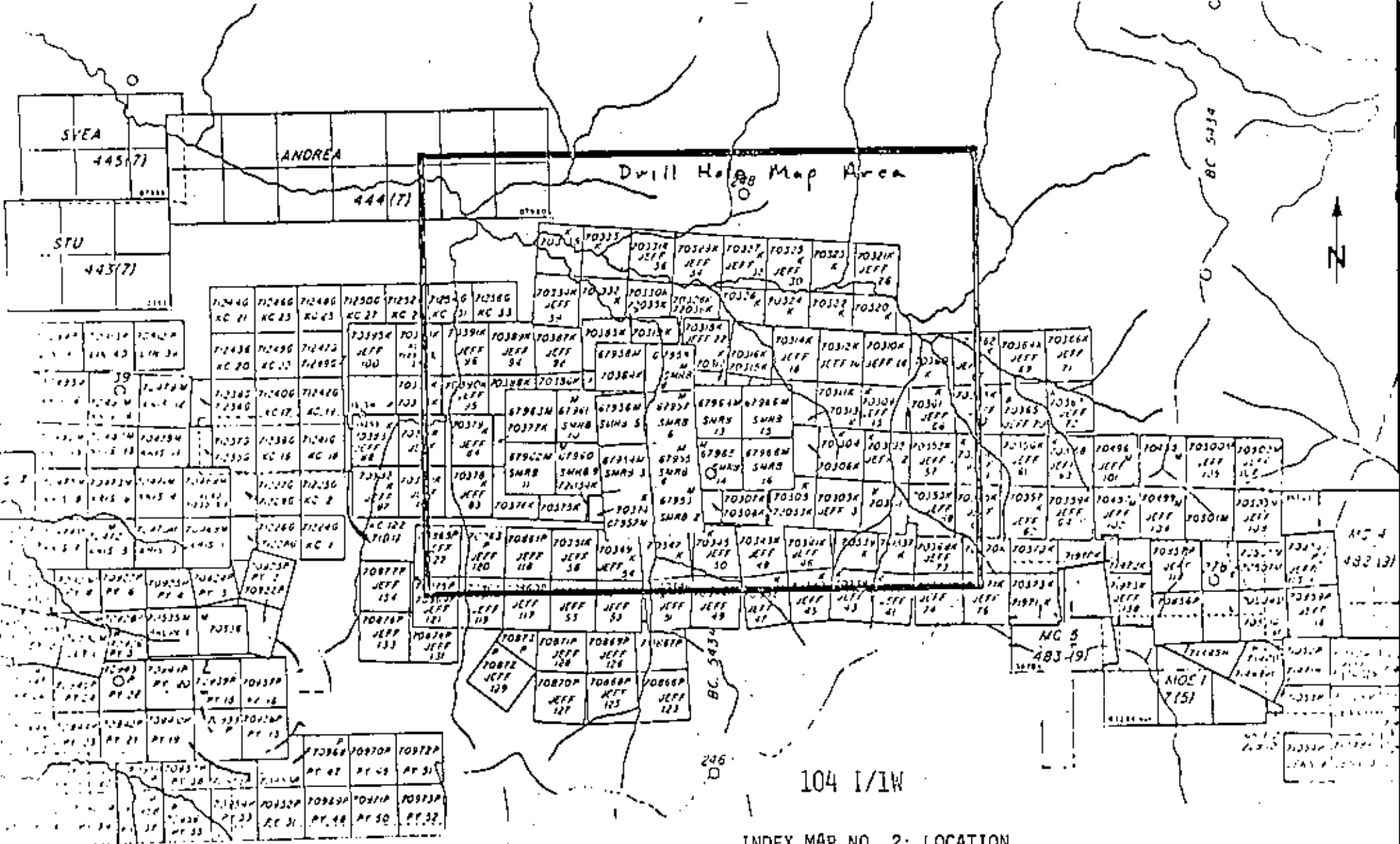
This report documents 968.65 m of BQ diamond drilling in 2 holes drilled from the same set-up on JEFF 91 mineral claim.



INDEX MAP NO. 1: LOCATION OF ESSO
MINERALS CANADA'S KUTCHO CREEK
MINERAL CLAIMS IN 104 1.

Scale 1 : 250,000
1 Inch to 4 Miles Approximately





INDEX MAP NO. 2: LOCATION
MAP FOR DIAMOND DRILL HOLE
LOCATION MAP.

GEOLOGY

Mineralization at Kutcho Creek consists of stratiform, volcanogenic massive pyrite with base metal sulphides. The sulphides occur near the transition from volcanic to mixed volcanic and sedimentary rocks within the Triassic or older Kutcho assemblage.

The following is a description of the lithologic units encountered in drilling on the Kutcho property. They are arranged from youngest to oldest which is the sequence in which they are encountered in drilling. The quoted thicknesses are the maximum apparent true thicknesses encountered in drilling prior to 1978 or an estimate:

Limestone, 125 m

Massive recrystallized limestone.

Conglomerate, 100 m

Strongly foliated polymictic conglomerate composed of clasts derived from the volcanic pile.

Tuff Argillite Unit, 350 m

This unit represents a transition from the underlying silicic volcanic rocks to graded water-lain tuffs, argillite, siltstone and epiclastic rocks. It consists mainly of quartz [±] chlorite [±] sericite schist with abundant 1 to 3 mm

and up to 10 mm quartz phenocrysts. This is interbedded with fine argillaceous laminations to thick sections of graphitic argillite. Higher in the unit the main lithology is fine-grained and is probably a siliceous siltstone containing minor biotite.

Metagabbro, variable thickness

A group of rocks loosely called metagabbro and including hornblendite, chlorite-actinolite-sericite schists and feldspar porphyries, has intruded the section from the base of the conglomerate to slightly below the massive sulphide horizon. It is most abundant within the tuff argillite unit and commonly occupies > 50% of that stratigraphic interval.

Rhyolite Tuff Unit, 135 m

A rhyolitic to dacitic lapilli tuff consisting of closely-packed elongate fragments. Minor quartz phenocrysts occur throughout and locally the unit contains crystal tuffs. Colors vary from cream to medium green and from pink and purple to hematite.

Quartz Feldspar Crystal Tuff, 200 m

A homogenous quartz ⁺ feldspar + sericite ⁺ chlorite ⁺ carbonate schist with abundant quartz phenocrysts, commonly up to 1 cm, and fewer small plagioclase phenocrysts.

The quartz phenocrysts are sub-rounded and partly replaced by dolomite. The plagioclase phenocrysts are heavily altered to sericite and dolomite.

Locally the unit consists of a coarse breccia with fragments up to 1 meter. The fragments and matrix are texturally similar to crystal tuff. Clinozoisite and epidote are commonly abundant in the breccia phase.

The quartz feldspar crystal tuff unit and rhyolite tuff unit occur at a similar stratigraphic level and probably interfinger. Crystal tuff is more common directly overlying massive sulphide lenses. Rhyolite tuff commonly occurs north of the massive sulphide lenses and in part overlies the crystal tuff unit.

Sericite Schist, 300 m

A rhyolitic lapilli tuff metamorphosed to quartz + sericite + chlorite + carbonate schist. The unit consists of lustrous, white to medium green schists with a relict fragmental texture and rare, fine quartz phenocrysts.

A quartz-chlorite schist and a rhyolite breccia horizon have been observed near the middle of the sericite schist unit.

Dolomite lenses are common within the upper 30 m of the sericite schist unit and at the top of the massive sulphide horizon.

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Dolomite lenses are common within the upper 30 m of the sericite schist unit and at the top of the massive sulphide horizon.

Massive Sulphide Horizon, 29 m

A main massive sulphide lens and thin, discontinuous, hanging wall lenses occur near or at the top of the sericite schist unit. Mineralization consists of massive and disseminated pyrite with disseminated sphalerite, chalcopyrite, bornite and chalcocite.

Disseminated pyrite with a very minor base metal content occurs in the sericite schists below the massive sulphide body.

DIAMOND DRILLING

The purpose of the drill holes discussed in this report was to intersect the massive sulphide horizon. A brief description of the geology and results of each hole is given. The detailed drill logs are in the Appendix.

The drill core is stored on the property. The massive sulphide intersections are stored at 1281 West Georgia Street, Vancouver.

DDH 85:

0.0	-	5.5 m	Overburden
5.5	-	326.7	Tuff-Argillite Unit and Metagabbro
326.7	-	373.6	Quartz Feldspar Crystal Tuff
373.6	-	409.0	Metagabbro or Basic Crystal Tuff
409.0	-	419.7	Rhyolite Lapilli Tuff
419.7	-	420.8	Sericite Schist
420.8	-	425.3	Massive Sulphide Horizon: minor disseminated sulphides in sericite schist
425.3	-	449.9	Sericite Schist

Mineralization:

420.8 - 425.3: 0.06% Cu, 0.04% Zn, 0.01% Pb,
0.09 oz/ton Ag, 0.006 oz/ton Au

DDH 85 intersected the massive sulphide horizon
up-dip from, or to the south of economically significant
sulphide mineralization.

DDH 87:

0.0	-	4.9 m	Overburden
4.9	-	422.6	Tuff Argillite Unit and Metagabbro
422.6	-	471.2	Quartz Feldspar Crystal Tuff
471.2	-	477.2	Rhyolite Lapilli Tuff
477.2	-	478.3	Quartz and Dolomite
478.3	-	495.6	Massive Sulphide Horizon: disseminated sulphides in schist and dolomite
495.6	-	518.8	Sericite Schist

Mineralization:

478.3 - 495.6: 0.81% Cu, 0.17% Zn, 0.01% Pb,
0.48 oz/ton Ag, 0.008 oz/ton Au

DDH 87 intersected disseminated mineralization
within or along the east end of a massive sulphide zone.

COST STATEMENT

Dates Drilled: September 13 - October 2, 1978

Holes Drilled: DDH 85 and 87

Direct Drilling Costs:

1000'	@	\$ 12.20/ft.	\$ 12,200.00
1000'	@	12.70/ft.	12,700.00
976'	@	13.20/ft.	12,883.20
202'	@	13.70/ft.	2,767.40

Mini-Deve Core Barrel:

3178'	@	\$ 0.85/ft.	2,701.30
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Labour and Standby:	216.5 hr.	@ \$15.50/hr.	3,355.75
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Machine Standby:	79.0 hr.	@ \$ 9.00/hr.	711.00
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Casing in Hole:			673.20
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Assay Costs:	9 @	\$26.90	242.10
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Fuel:	1035 gals.	@ \$2.25	2,328.75
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Helicopter:	32 hrs.	@ \$250.00/hr.	8,000.00
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Helicopter Fuel:	720 gal.	@ \$2.25/gal.	1,620.00
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Geologist:	14 days	@ \$65.00	910.00
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Assistant:	7 days	@ \$35.00	245.00
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First Aid Person:	7 days	@ \$53.00	371.00
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Camp Costs:	80 man-days	@ \$20.00	1,600.00
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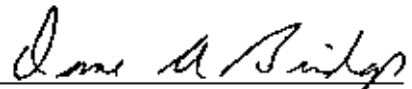
TOTAL:			\$ 63,308.70
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Rene A. Bridg

STATEMENT OF QUALIFICATIONS

I, Dane A. Bridge, of West Vancouver, British Columbia, hereby certify the following qualifications:

- (a) I obtained a B.Sc. Hons., in 1969, and a M.Sc., in 1972, in geology from the University of Manitoba, Winnipeg, Manitoba
- (b) I have been practising my profession as a geologist in Canada for ten years.



Dane A. Bridge, Geologist
Esso Minerals Canada

I, Paul A. Godkin, of Morris, Manitoba, hereby certify the following qualifications:

- (a) I obtained a B.Sc. Hons., in 1977, in geology from the University of Manitoba, Winnipeg, Manitoba
- (b) I have been practising my profession as a geologist in Canada for one year.



Paul A. Godkin, Geologist
Esso Minerals Canada

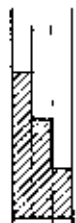

LEGEND FOR DETAILED DRILL LOGS

The detailed drill logs are at a scale of 1 inch to 10 feet. All main units have been converted to metres.

The following is a list of abbreviations used in the drill logs:

aph	aphanitic	ls	limestone
arg	argillite	med	medium
b	bedding	mgb	metagabbro
brn	bornite	pheno	phenocryst
bx	breccia	plag	plagioclase
c > s	schist with chlorite > sericite	po	pyrrhotite
c > > s	schist with chlorite >> sericite	py	pyrite
cal	calcite, calcareous	QFCT	Quartz Feldspar Crystal Tuff
carb	carbonate	qz v	quartz vein
cgl	conglomerate	rhy	rhyolite
clino	clinozoisite	s > c	schist with sericite > chlorite
chl	chlorite	s >> c	schist with sericite >> chlorite
cp	chalcopyrite	s ^ c	schist with sericite ^ chlorite
dac	dacite	ser	sericite
dk	dark	sph	sphalerite
dolo	dolomite	trh	tetrahedrite
ep	epidote	v.f.g.	very fine-grained
fd	folded	w	with
feld	feldspar	xline	crystalline
f.g.	fine-grained		
f	foliation		
fr	fracture		
frag	fragment		

IMPERIAL OIL LIMITED
MINERALS SECTION
DRILL LOG

PROJECT Kuteba Creek	GROUND ELEV. ≈ 1532.4 m
HOLE NO. 85	BEARING 20°
LOCATION ≈ 23, 219.54 N ; 36, 103.86 E claim Jeff 91	DIP -25°
LOGGED BY D. Bridge	TOTAL LENGTH 1476' 94.4 m
DATE Sept 16 - 24, 1978	HORIZONTAL PROJECT 145 m
CONTRACTOR Arctic Diamond Drilling	VERTICAL PROJECT 418.6 m
CORE SIZE 89	ALTERATION SCALE  absent slight moderate intense
DATE STARTED Sept 13, 1978	TOTAL SULPHIDE SCALE  traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED Sept 23, 1978	
DIP TESTS	
COMMENTS collar of 85 and 87 is 3.9 m at 253° from surveyed pin I.P.T.	LEGEND

PAGE		OF		PROJECT:					HOLE NO.									
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION					ALTERATION									
									A	B	C	D	E	FRACT INTENSITY				
0.0 - 5.5				metals														
5.5 - 164.4				malagabba														
				malagabba														
				medium gray sand														
				grained silt w 20% sand small part of silt and clay, abundant in places, since fine grains, commonly 10%														
				avg 2-3% quartz and part of silt and clay, commonly in the plane but also at base of ...														

A. B. ...

DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
80				80- 539.21 meta gabbro						
100										
120										
140										
160										
180										
200										

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DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRAC. INTENSITY
					A	B	C	D	E	
260				8.0 - 539.33 mca gashere						
300										
320										
340										
360										

D. Bailey

PAGE 2 OF		PROJECT:					HOLE NO.			
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
				sec 529.3 ... m... above						
180										
400										
420										
140										

A. Bundy

PAGE 11 OF		PROJECT:				HOLE NO. 95					
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						
					A	B	C	D	E	FRACT INTENSITY	
40				511.0 - 529.3 : meta gabbro							
460											
500											
520			30°	511.0 - 530.3 : Transition to mixed medium green and medium gray - brown with avg 15% moderately chloritized and low biotitized hb phases							
540			45°	avg 5-10% qz veins, thin to 10mm, mainly in foliation, locally up to 50% qz veins over 1 foot.							
500			60°								

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PAGE 3 OF		PROJECT:				HOLE NO. 37				
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					
					A	B	C	D	E	FRACT INTENSITY
164.9 - 179.9	539.3 - 552.0			tuff or siltstone light gray to light greenish gray, aphanitic to fine- grained, siliceous tuff. bedding undistinguished by miner, white, slightly arcuate cross beds locally, in lower 5 mm probably of pheno. contains minor, very fine isom breccia, locally thin breccia-rich bands, rarely thin chlorite-rich bands						
179.9 - 190.2	567.0 - 629.0			tuff transitional into light, greenish gray, fine- grained, hard, siliceous tuff, avg 30% 35-15 mm, commonly 20.5 mm or ? phenocrysts or grains, fine, disseminated and locally concentrated into thin bands						

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PAGE 15 OF		PROJECT:				HOLE NO. 25					
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					A	B	C	D	E		
590.2 - 609.2				629.0 - 630.1 : tuff mixed light gray-green to medium green tuff, very fine grained to aphanitic, avg. 15% 1-2 mm tabular dolomite grains, medium green sections contain up to 50% dolomite grains no definite bedding							
609.2 - 610.6				630.1 - 630.5 : argillaceous tuff mainly black highly argillaceous tuff and minor argillite, avg 20% 1-2mm white-gray subhedral to irregular dol grains							
610.6 - 613.2				630.8 - 639.6 : tuff light greenish gray, aphanitic to fine grained, 15-30% 1-2mm dolomite grains							
613.2 - 615.3				639.6 - 706.4 : feldspar crystal tuff or msh light gray-green w 25% 1-5 mm subhedral plus phenos, 1-2% quartz phenos, 25% cloudy, carbonated grains, trace black hematite							

J. Burdick

PAGE 16 OF		PROJECT:							HOLE NO. 85	
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%			COMPOSITE ASSAYS
670.1 - 690.8 : 1 1/2 py...										
690.8 - 697.0 : 2-3% py										

A. B. Bishop

PAGE 17 OF		PROJECT:				HOLE NO. 35					
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					A	B	C	D	E		
				215.3-220.4 206.0 - 223.0 : tuff very light greenish gray fine grained homogeneous tuff, avg 20% 1mm plagioclase or carbonate grains, 2 1/2% qz phenos up to 5mm, no bedding							
240				220.4-234.0 223.0 - 267.7 : tuff mainly, light to medium green and lesser light gray tuffs, commonly w 10-35% 1mm subvolcanic carbonate grains, local zones w fragments of mid-alk calc-alkalic schist, finely disseminated chlorite and minor qz phenos up to 3mm no bedding, in part epiclastic 265-267 locally sharp textural change with no bedding							
260				255.8-267.7 inter bedded light gray and light green tuff, locally bedded bedding 260.0 striking 70°							
280				272.0-274.0 gauge and broken core							
				274.0-292.3 267.7-295.0 : tuff light gray-green, aphanitic siliceous tuff, 5-10% 1mm silic grains, locally 1-20mm qz and feld phenos							
300				292.3-297.4 295.0-310.0 : feldspar crystal tuff metagabbro							

D. Smith

PAGE 19 OF		PROJECT:			HOLE NO. 35						
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					A	B	C	D	E		
820				817.4 - 818.3 : qz vein							
840				242.3 - 272.4 : 295.0 - 410.0 50% or mgb slgt 2. medium greenish gray rock w. ophanitic, slight, schistose ground mass and avg 30% 1-10 mm subhedral plag plaus, 15% 1-2 mm base-colored scapolite altered grains, avg 1% fisson calc red-green to black hematite sand would normally be logged as bleached malgabbro but appears to be re-formable							
860				253.0 - 265.5 : avg 2% hematite							
880											
900				884.0 - 895.6 : irregular qz- calcite vein in mgb							

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DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
920			40	277.4-283.1 910.0-922.7 : tuff light gray green- and gray, aphanitic, siliceous, hard tuff w. avg 10% 1-2mm rhombs to sub-rhombic dolomite grains						
940			20	287.1-288.3 926.7-946.0 : argillaceous tuff mainly medium gray- green aphanitic tuff w. 10-15% 1-2mm dolomite grains and interbedded w minor black argillaceous tuff						
			15	946.0-946.0 gray, epiclastic tuff w fragments up to 5mm and 2% black argillite fragments.						
960			45 42 45	289.3-295.7 946.0-970.0 : argillite black, calcareous, graphitic argillite, 5% white calcrete laminations, 2% interbedded gray epiclastic tuff						
980			35	295.7-302.1 970.0-1007.6 : tuff very light gray, hard, aphanitic, siliceous tuff, or massive sphyotite, avg 15% 1-2mm fuzzy, probably carbonate altered phenocrysts unit is more translucent and siliceous than normal 57% 3-4mm qz phenos						

D. Bridges

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%		COMPOSITE ASSAYS
<p>910.0 - 915.5 : 2% py</p> <p>915.5 - 928.7 : avg 3-3% po, w. minor pt, trace cp, seams in foliation and minor seams in fractures</p> <p>928.7 - 946.0 : avg 1% po + py</p>									
<p>946.0 - 970.0 : avg 1% po, + 1% py or less</p>									

D. Bridg

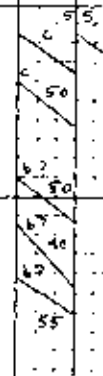
PAGE 23 OF		PROJECT:				HOLE NO. 35					
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					A	B	C	D	E		
1000											
			45 40	302.1-312.3 1007.6 - 1024.7 : argillaceous tuff mixed unit of medium gray tuff to black argillaceous tuff locally contains 5% 1-3 mm qz and qz-carbonate phenos							
1020				312.3-326.7 1024.7 - 1072.0 : tuff mainly light gray, light grey-green, fish green sphenitic tufts, with minor to 15% 1-3 mm qz phenos, locally, 20% 2-4 mm irregular dark gray carbonate augens.							
1040			75 70 65	1032.9 - 1035.0 : medium gray-black slightly argillaceous tuff, possible bedding from argillaceous bands							
				1047.5 - 1053.0 shattered core and minor fault gouge							
1060			75 70	1045.2 - 1072.0 local zones w abundant 1-3 mm qz phenos							
				3267-3236 1072.0 - 1225.7 : GACT							

D. B. Smith

PAGE 29 OF		PROJECT:							HOLE NO. 85	
MINERALIZATION DESCRIPTION		TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS	
			1000							
			1600							
1058.5 - 1068.8: cng 2% seams and grains of coarse textured										
17:										

J. B. Binkley

PAGE 25 OF		PROJECT:				HOLE NO. 25					
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					A	B	C	D	E		
				3267-3736 1072.0 - 1132.5 : GFCT 1072.0 - 1132.5 mainly light to medium gray-green GFCT except as noted, normal texture w avg 25% 1-10 mm sub-rounded qz phenocr, avg <5% 1-3 mm subhedral, light green plagioclase, groundmass is very fine grained, slightly schistose, w very minor fine disseminated chlorite and rare chloritic bands.							
				1094.5 - 1145.0 avg 2% disseminated black hematite							
				1132.5 - 1135.0 : dirty gray-green, more schistose unit w 20% mm milky qz phenocr and minor up to 3mm qz phenocr, 5% fine disseminated chlorite							
				1132.5 - 1182.3 : GFCT as at 1072.0 - 1132.5 and w 5% fine-grained bands, common, 2-6 cm thick.							



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DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
1180				1187.3 - 1195.0: medium greenish gray, QFCT w. 20% 1-3 mm qz phenos, 5% 1-3 mm green plag phenos, 10% irregular to subhombic creamy white carbonate grains						
1200				1195.0 - 1225.7: medium green to medium-dark green chloritic QFCT, avg 20% 2-8 mm qz phenos, commonly 3-5 mm in diameter, avg 10% plag phenos, difficult to distinguish, locally 5% small. Felted chlorite grains, avg 15% dissemin. chlorite, locally heavy chlorite						
1270				1195.0 - 1205.0: 5% 1-2 mm carbonate grains						
				3736-405.2 1225.7 - 13245: meta gabbro or basic feldspar porphyry						
1240				1225.7 - 1226.6: contact zone, med. green, chloritic, deformed mgb w. diffuse, altered, chlorite speckled plag phenos						
				1225.6 - 1245.0: medium-dark green, finer-grained chlorite rich, waxy, schistose matrix w. 35% 1-12 mm, sub-rounded to subhedral and tubular gray plag phenos. avg 2% black hematite color & texture very similar to above QFCT						
1260				1245.0 - 1245.2: 12 cm blacked mgb						

J. Smith

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%		COMPOSITE ASSAYS
		1180							
		1200							
210.8 - 1225.7 - 65% - py									

A. Brindley

PAGE 29 OF		PROJECT:					HOLE NO. 85				
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					A	B	C	D	E		
1280											
300				<p>1299.0 - 1329.5: transitional returned to bleached mgb, rock changes to light greenish gray, groundmass is speckled w 10-20% 1-3mm carbonate ? grains probably replacing both plag phenos and groundmass, avg 15% distinct, light gray rounded to tabular plag phenos</p>							
1320				<p>1299.0 - 1324.3: avg 2% iron 1324.3 - 1329.5: transition to light gray-green plag porphyry w 30% 1-8mm tabular light gray plag phenos</p>							
				<p>405.2-406.8 1329.5 - 1334.5 Feldspar porphyry transitional w. above, 35% tabular plag, 2% qz phenos</p>							
1340				<p>406.8 - 409.0 1334.5 - 1342.0 Feldspar porphyry 30% dilt altered plag, 5% 1-2mm qz phenos, light greenish gray schistose ground mass</p>							
				<p>409.0 - 415.8 1342.0 - 1369.3 rhyolite lapilli, buff (3v, w.s.)</p>							

J. Bailey

PAGE 31 OF		PROJECT:				HOLE NO. 85					
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						
					A	B	C	D	E	FRACT INTENSITY	
1320				very pale greenish-gray to grey - coarse schist, well foliated, minor fragmental texture, avg 5% small to 15 mm irreg white dolomite grains, 2% 1-4mm slightly elongate, rounded qz phenos.							
			418.8-419.2	1344.4 - 1375.4 : rhyolite lapilli tuff (30 grs) medium green slightly granular somewhat qz schist w 20% 2-10 mm qz phenos mainly replaced by irreg cream-colored dol grains, 5% irreg gray rhyolitic fragments							
1380			419.2-419.7	1375.4 - 1377.0 : 30 (wt) creamy green-white w minor fine qz phenos.							
			419.7-420.8	1377.0 - 1380.5 : S > 20, light gray, hard, fractured rhyolite 1380.5 - 1395.0 : S > 20 rhyolite lapilli tuff metamorphosed to coarse quartz schist, consist of small, closely-packed fragments, avg 1-2% 1-2mm qz phenos, rarely 2-4mm.							
1400											
1420											
1440											

D. B. [Signature]



PAGE 32 OF		PROJECT:							HOLE NO. 85	
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	oz / ton		COMPOSITE ASSAYS ppm Cu / Ni
					Cu	Zn	Pb	Ag	Au	
1339.0 - 1369.3 : avg 1% py										
1369.3 - 1380.5 : 1% py		1360								
1380.5 - 1445.4 : avg 5 7/8 fine-grained dissem py		1382.5 1408.4	15.0	4871	.059	.09	.01	09	.006	8 / 15
(925.0-) @ 1394.5 : minor py		1395.4 1425.3								

J. Bridges

PAGE 34 OF 34		PROJECT:						HOLE NO. 85	
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS	
1445.0 - 1451.5: 1% sp									
1451.5 - 1476.0: avg 5% sp									
@ 1460.0: one coarse patch of sp		1480							
1476.0 end									

A. Buisby

DRILL LOG

PROJECT Kutcho creek	GROUND ELEV. = 522.4 m
HOLE NO. 87	BEARING 120°
LOCATION = 23,219.54 N; 36,143.86 E claim: Jeffa	DIP -27°
	TOTAL LENGTH 102' 518.8 m
LOGGED BY D. Bridge	HORIZONTAL PROJECT 94.4 m
DATE Sept 25, 1978	VERTICAL PROJECT 504.8 m
CONTRACTOR Arctic Diamond Drilling	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE B9	
DATE STARTED Sept 23, 1978	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED Oct 2, 1978	
DIP TESTS	
COMMENTS plug at 1169' same collar location as DSH 85	LEGEND

DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
100				160 - 268.5 - meta gabbro						
120										
140				136.5 - 140.5 : irregular chert-like, altered zones around 102 veins						
160										
180										

J. Smith

DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
				100 - 365.5 : meta gabbro						
200			100m qtz 2cm qtz							
				200.3 - 208.0 : slightly bleached, med. gray msb w. chlorite marbling in the foliation						
220										
240										
260										
			80.6 - 95.6	249.5 - 313.5 : mixed and predominantly very dark gray to near black msb w. an						

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PAGE 6 OF		PROJECT:						HOLE NO. 27		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS		
200.2 - 200.4 : aug 10% py, dissem 1-5 mm zones of recrystallized py		200								

D. Bridges

PAGE 7 OF		PROJECT:				HOLE NO. 817					
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					A	B	C	D	E		
294				indistinct, ab-lack quartz mass and 10% fine, veins, stains of white plagi.							
306											
320			45.4 - 12.3	317.5 - 268.5 : light medium gray - sandy, mainly fine-grained and slightly granular, in grains are fully chloritized and indistinct, locally up to 10% small gray plagi phenes.							
342											
360											

J. Birch

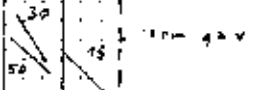
PAGE 8 OF		PROJECT:							HOLE NO.	
MINERALIZATION DESCRIPTION		TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS	
314.0 - 322.0 avg 2% py 1.6% S, on grain 1.0% S, 4500.0 = 92.0% S										

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DEPTH (FEET)	% Core Racy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRAC INTENSITY
					A	B	C	D	E	
360				12.3-13.0 368.5-370.7: tuff or calcstone Fine-grained						
				dirty, gray, biotitic tuff w abundant 0.2-1mm qtz phenos.						
				23.0-23.0 370.7-403.5: metagabbro and tuff 2-90% medium gray mgb commonly w 20% slightly chloritized hb phenos, locally w abundant 1-7mm, interg, gray plag phenos, 10% thin to 1cm bands of fine-grained, gray, biotitic tuff.						
400				23.0-125.5 403.5-411.8: tuff dark gray-green to green-black fine-grained, biotitic, finely laminated and foliated tuff, minor mgb, bedding and foliation probably parallel, sharp contacts w mgb						
420				125.5-125.4 411.8-525.6: metagabbro 411.8-441.3: dark greenish gray, uniform, fine-grained w 10% elongate hb phenos, 1% fine yellow-green epidote grains						
440				441.3-525.6: sharp contact to dark green w 40% chloritized hb phenos and 5-10 % dirty gray plag phenos						

D. B. Smith

PAGE 11 OF		PROJECT:				HOLE NO. 317					
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					A	B	C	D	E		
460				41.3 - 525.6 : metabasite ... containing 1.2% of veins in mgb, veins at 0-5' to 70' re-oriented orientation, rarely visible foliation in mgb.							
490											
500											
520											
540											



D. Bailey

DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					A	B	C	D	E		
560											
580	25			175.4 - 182.5 575.6 - 598.6 : tuff medium brown to green glass scoured volcanic tuff, commonly - minor 400 um to locally 20% 1-2 mm, qz and carbonate grains locally not laminated, bedding and foliation appear ill.							
600	25			182.5 - 207.9 598.6 - 622.0 : metagabbro w/ tuff medium gray ash w. 20% slightly brown-colored biotitized? in places and minor mag. pl. grains weakly to moderately foliated contains avg 5% zones of biotitic tuff parallel to foliation, tuff sections are conformable to irregular, thin to 10 mm thick.							
620	25										

D. [Signature]

DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
640										
660										
680										
700				207.9-216.9 682.0- 711.6 tuff medium to fine-grained, dark brown to brownish green biotitic tuff, avg 10-20% 1mm white qz grains or phenos, locally 1-3mm rounded qz phenos or porphyroblasts bedding massive to local, well defined, local, broken and disturbed						
720				216.9-222.8 711.6- 731.0 : tuff medium green, aphanitic to fine-grained, massive, commonly 10-15% 1mm						

D. B. [Signature]

PAGE 7 OF		PROJECT:				HOLE NO. 8-1					
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					A	B	C	D	E		
				g2 phenos rimmed by biotite, minor biotite in foliation, locally med green, calcitic. 20-25% g2 grains, 10-15% biotite							
740				222.8-229.4 731.0 - 757.7 : tuff very light gray-green aphanitic, hard, siliceous tuff, massive, rare bedding, avg 10% 1-2 mm rhombs dolomite and sub-rounded g2 dolomite phenos.							
760				224.4-235.7 752.7 - 779.2 : tuff unconsolidated light gray-white to light-med green aphanitic tuff, no sharp bedding, commonly w avg 2-16% 1-4 mm g2 and g2 dolomite phenos.							
780				235.7-242.6 773.2 - 809.2 : tuff medium green very fine grained, calcitic, well foliated, avg 15% 1-2 mm pail, carbonate altered g2 phenos							
800				246.4-248.7 809.2 - 816.0 : Transition to medium gray-green g2-field tuff w 2% low.							

D. Bishop

PAGE 19 OF		PROJECT:				HOLE NO. 87					
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRAC INTENSITY	
					A	B	C	D	E		
820			23	2487-2529 816.0 - 840.2 : Feldspar + FF very fine-grained light green-grey schistose ground mass w minor to 20% subhedral plagioclase, minor qtz phenos 816.0 - 840.0 trace hornblende							
840			35	840.0 - 860.7 : avg 2% iron black hornblende, minor inclusions and possible fragments							
				2579-2751 846.2 - 902.6 transition to felsic rock w. avg 20% plagioclase, 5 % Fe to medium chlorite grains which may be derived from lib phenos avg 10% black hornblende to 860.0							
860			35	with transgresses into light green-grey, weakly schistose metagabbro w 5-15% total chlorite lib and 5% grey plagioclase							
880											
900											

J. Bird

DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRAC INTENSITY
					A	B	C	D	E	
275.1 - 278.3				202.4 - 213.0 : buff very dark green chlorite buff speckled w. 50% tan white to gray feldspar and qtz phenocr						
278.3 - 301.1				213.0 - 287.8 : malagabberu medium gray, w green hb to medium green malagabberu - weakly siliceous, very fine grained w 10-20% calc, chloritized hb, minor gray slag						
301.1 - 302.4										
302.4 - 303.7										
303.7 - 305.0										
305.0 - 306.3										
306.3 - 307.6										
307.6 - 308.9										
308.9 - 310.2										
310.2 - 311.5										
311.5 - 312.8										
312.8 - 314.1										
314.1 - 315.4										
315.4 - 316.7										
316.7 - 318.0										
318.0 - 319.3										
319.3 - 320.6										
320.6 - 321.9										
321.9 - 323.2										
323.2 - 324.5										
324.5 - 325.8										
325.8 - 327.1										
327.1 - 328.4										
328.4 - 329.7										
329.7 - 331.0										
331.0 - 332.3										
332.3 - 333.6										
333.6 - 334.9										
334.9 - 336.2										
336.2 - 337.5										
337.5 - 338.8										
338.8 - 340.1										
340.1 - 341.4										
341.4 - 342.7										
342.7 - 344.0										
344.0 - 345.3										
345.3 - 346.6										
346.6 - 347.9										
347.9 - 349.2										
349.2 - 350.5										
350.5 - 351.8										
351.8 - 353.1										
353.1 - 354.4										
354.4 - 355.7										
355.7 - 357.0										
357.0 - 358.3										
358.3 - 359.6										
359.6 - 360.9										
360.9 - 362.2										
362.2 - 363.5										
363.5 - 364.8										
364.8 - 366.1										
366.1 - 367.4										
367.4 - 368.7										
368.7 - 370.0										
370.0 - 371.3										
371.3 - 372.6										
372.6 - 373.9										
373.9 - 375.2										
375.2 - 376.5										
376.5 - 377.8										
377.8 - 379.1										
379.1 - 380.4										
380.4 - 381.7										
381.7 - 383.0										
383.0 - 384.3										
384.3 - 385.6										
385.6 - 386.9										
386.9 - 388.2										
388.2 - 389.5										
389.5 - 390.8										
390.8 - 392.1										
392.1 - 393.4										
393.4 - 394.7										
394.7 - 396.0										
396.0 - 397.3										
397.3 - 398.6										
398.6 - 400.0										

A. Bridges

PAGE 22 OF		PROJECT:						HOLE NO.	
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS	
928.0 - 941.0 - Aug 17/0 py scattered 2-0 number of crystals 2-0 pf.		928							

D. Birdy

PAGE 23 OF		PROJECT:			HOLE NO. 47						
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					A	B	C	D	E		
1000				321.1 - 321.2 987.8 - 1021.1 : tuff mixed light green, med green, gray tuff, well laminated commonly 4 fine qz phenos, local coarser gray zones - qz phenos up to 8 mm bedding and foliation appear to be //							
1026				321.2 - 326.1 1021.1 - 1037.0 barren, aphanitic tuff light green-gray breccia w elongate green tuff fragments and 2-5 mm qz phenos interbedded w minor aphanitic, light green tuff							
1040				326.1 - 329.0 1037.0 - 1079.5 : tuff various tones of light green, aphanitic tuff w avg 5% 1-3 mm qz phenos, well bedded, // foliation							
1066				329.3 - 329.4 1059.1 - 1059.5 : fault gouge							
1080				lim gouge							

J. B. [Signature]

PAGE 25 OF		PROJECT:			HOLE NO. 37						
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					A	B	C	D	E		
				329.0 - 333.0 1079.5 - 1092.9 : tuff aphanitic, light gray to light green-gray tuff, varies from massive cherty to tuff - 10% 2-8 mm sz phenos.							
				333.0 - 422.6 1092.9 - 1336.9 : madagabba							
1170				333.0 - 335.5 1092.9 - 1100.6 : bleached, false madagabba light greenish gray w 15- 20% large subhedral gray plag phenos, 10-15% 1mm irreg chlorite grains sharp contact at 1100.6							
1170				335.5 - 341.4 1100.6 - 1121.2 : false mgb med to dark green w 20% 1-6 mm, subhedral, gray plag phenos, abundant chlorite when hb.							
				341.4 - 351.5 1120.2 - 1133.3 : bleached mgb transitional from above,							
1140				15 core 2 v. light green-gray, false mgb w 20% 1-3 mm to 30% - 8 mm plag grains, irreg, 15% greenish white carbonate grains avg 2% dissem. hematite							
1160				351.5 - 357.3 1133.3 - 1172.4 : false mgb transitional from above, dark green, abundant, indistinct plag phenos, some are rimmed by chlorite apparently no hematite							

O. Bridg

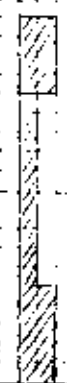
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
180			20	357.3-363.4 1192.9-1192.2: bleached felsic metabasalt, transitional contact w above avg 1-2% hematite, black						
1200			40	363.4-367.2 1192.2-1204.8: bleached felsic metabasalt w zones of siliceous, buff, continuous to the foliation						
1220			40	367.2-416.2 1204.8-1365.9: bleached felsic metabasalt w 2% iron black hematite locally finer grained and buffaceous appearance 25% 1-3 mm slightly carbonate altered plg pieces in v. fig. matrix						
1240			25							
1260			25							

C. Bandy

DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
280				416.2-464.5 1265.1-1327.2: Felsic metagabbro, medium green Felsic mbs w abundant gray to dark green (chloritic) plag phenos, 10-20% chlorite in groundmass						
				286' lost water						
300										
				75' 15 cm at 20'						
320				15 cm at 20'						
340				464.5-482.6 1327.2-1346.4 Felsic metagabbro, transitional medium gray-green mbs w avg 40% 2-8 mm sub-tabular slightly diffused, mid angular, spiditized plag phenos, local plag up to 10 x 15 mm avg 15% partly chloritized kb, distinct black grains w green alteration avg 5% coarse chlorite						

D. Bridge

PAGE 3 OF		PROJECT:			HOLE NO. 87					
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					
					A	B	C Chp	D	E	FRACT INTENSITY
1360										
1380				<p>1371.5 minor gorge</p> <p>1384.2 - 1386.0 minor gneiss</p> <p>1386.0 - 1546.0 : gneiss</p>						
1400				<p>1386.0 - 1546.0 : gneiss</p> <p>1426 - 471.2 1386.0 - 1546.0 : gneiss</p> <p>1426 - 471.2 386.0 - 1410.0 medium greenish gray quartz feldspar crystal luff, massive, hard, compact, siliceous, scall, lighter gray</p> <p>avg 25% 2-3 mm, blue, sub-rounded or planar, commonly no visible feldspar, scall, 25% 1-7 mm medium green subhedral plus planar</p> <p>avg 5%, fine dissemin dark green chlorite grains</p>						
1420				<p>1410.0 - 1414.5 dark green gneiss, 25% dark gray or planar, or weakly schistose, chloritic granofels</p>						
1440				<p>1414.5 - 1486.0 mixed light green, dark green, and greenish red gneiss, dark green scissions are heavily chloritic and finer-</p>						



J. Smith

PAGE 3 OF 3			PROJECT:		HOLE NO.					
DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					
					A	B	C hem	D date	E	FRACT INTENSITY
				swained, chlorite is ubiquitous except locally in light green zones, hematite is ubiquitous, section has overall red-brown tone						
				434.5-437.7 1425.5-1430.0 dark green chlorite rich sections						
				441.5-447.8 1448.0-1469.0 very light greenish white QFST w minor pink to hematite staining in the foliation avg 10-20% 2-10mm rounded qz phenos, 5% 1-8 mm, commonly 1-5 mm light green ring phenos, avg 45% very dolomite patches						
				447.8-453.4 1469.0-1487.5 variably, mainly medium green QFST w 1-3 30% 1-10 mm qz phenos, 5-10% 1-3 mm green plus purple, siliceous groundmass contains minor to abundant talc, minor red to black hematite with contacts transitional						
1500				453.4-467.0 1487.5-1522.2 very light reddish gray QFST, 35% 1-10 mm qz phenos, avg 5% plus phenos uniform, massive, weak, schistose groundmass. overall weak red-pink tint and 2% disseminated black hematite to 1522.2						
				4574-4613 1487.5-1512.5 red-pink tint						
520				461.3-467.0 1512.5-1522.2 trace reddish hematite						

J. R. [Signature]

DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRAC. INTENS.
					A	B	C	D	E	
1500				467.0-471.2 1532.2-1546.0 white to greenish white gneiss, 20-30% 1-8 mm qz phenos, no visible plags, aug. 20% 1-5 mm v. as, white to beige dolomite 470.3-471.2 1543.0-1546.0 qz veins and broken rods						
560				471.2-472.2 1546.0-1545.5 : chlorite lapilli, buff (20-30%) light greenish gray to medium gray sericitic quartz schist, well foliated, aug 10% chloritic and dolomite fragments, 5-10% 2-6 mm oval rutile augans probably after qz phenos, 5% white to beige dolomite nodules						
				472.2-472.9 1565.5-1565.0: massive quartz 472.9-478.3 1562.0-1569.1: dolomite - qz - sericite rock 478.3-495.6 1569.1-1626.1: massive sulphide horizon 478.3-480.8 1569.1-1577.5: granular, recrystallized qz, dolomite, schist and massive qz + sulphides						
1580				480.8-481.8 1577.5-1580.8: S-2C minor granular qz and dolomite 481.8-485.6 1580.8-1626.1: S-2C normal shd gray quartz-sericite schist derived from chloritic lapilli buff, overall fragmental texture, well foliated						
1600										
1620										

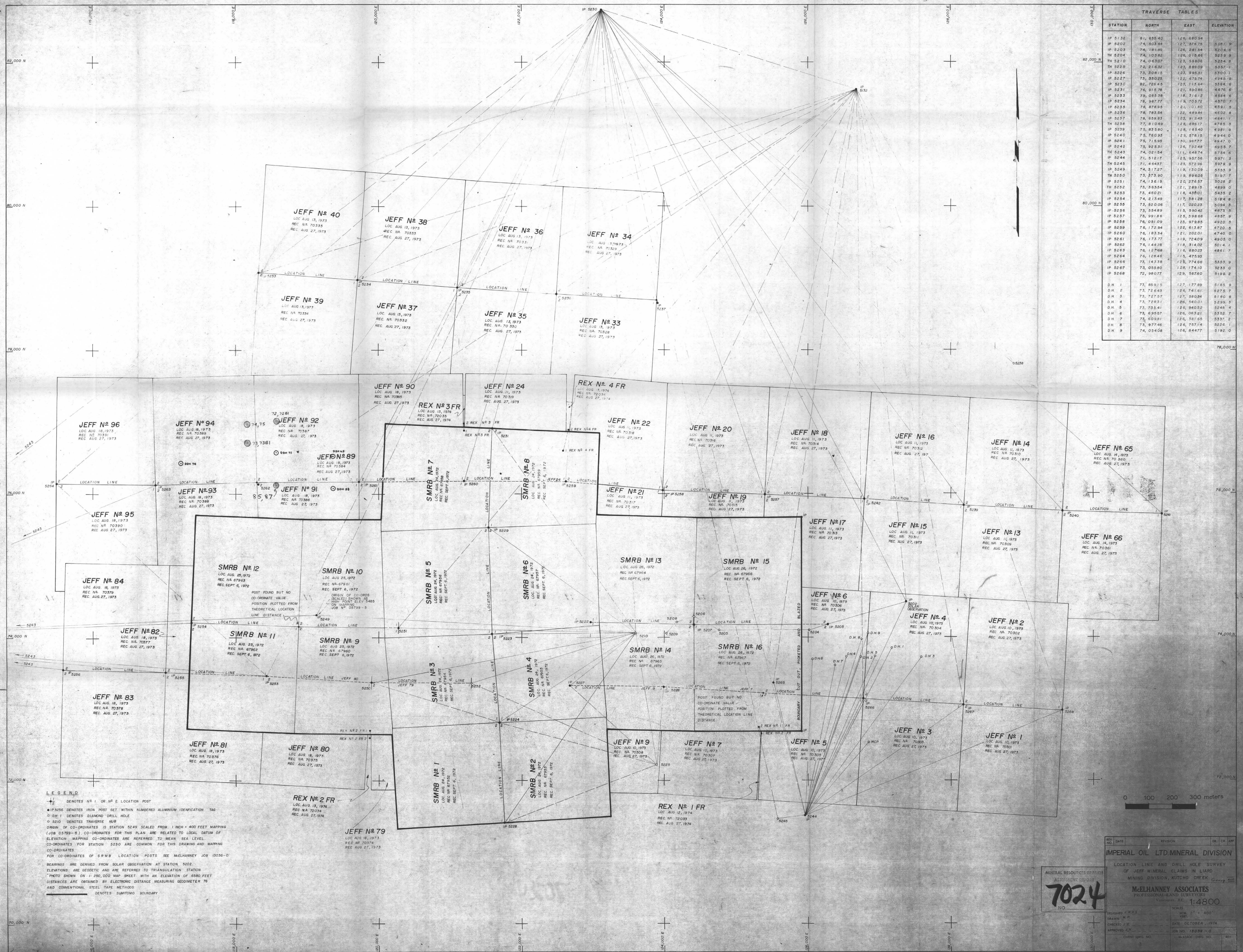
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PAGE 36 OF		PROJECT:						HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	oz./ton		COMPOSITE ASSAYS ppm: Co / Ni	
					Cu	Zn	Pb	Ag	Au		
15370 - 1541.7 minor patches coarse, 1-2% py.		15370									
15460 - 1558.5 avg 1%, coarse, fine-grained dissem py		15460									
1558.5 - 1565.5 avg .2% fine-grained, dissem. py		1560									
1565.5 - 1569.1 avg 1-2% coarse py, trace sph		1565.5	3.6	6890	.078	.08	.01	.07	.003	14 / 23	
1569.1 - 1577.5 20% py, mainly interstitial to granular go, 5% sp, med-course grained		1577.5	8.4	6891	1.840	.04	.01	.27	.004	4 / 21	
1577.5 - 1580.8 20-25% py, 3% sp, trace bornite		1580.8	3.3	6892	1.105	.05	.01	.81	.012	9 / 16	
1580.8 - 1626.7 avg 20%, main fine-grained, locally medium, dissem. Fairly even, in schist, mainly along foliation planes; avg. 6% sp, fine-med- grained patches assoc. w py; trace sph.		1592.0	11.2	6893	0.503	.11	.01	.77	.010	7 / 14	
		1602.0	10.0	6894	.519	.04	.01	.50	.009	8 / 14	
		1612.0	10.0	6895	.703	.16	.01	.32	.008	7 / 15	
		1612.0	11.0	6896	.641	.09	.02	.35	.005	6 / 14	

J. Brindley

DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					A	B	C	D	E		
			71/80	1695.6 - 1698.8 1626.7 - 1702.0							
			74/80	normal quartz- sericite schist, light gray							
140			76/80								
160			60/80								
1650											
1700			65/80								
				1702'							

D. B. [Signature]



TRAVERSE TABLE			
STATION	NORTH	EAST	ELEVATION
IP 5132	81,635.40	126,880.94	5081.9
IP 5202	74,503.44	127,376.75	5081.9
IP 5203	74,181.89	126,281.54	5204.6
TH 5204	74,103.82	126,015.86	5233.9
TH 5210	74,043.07	123,596.06	5234.8
IP 5229	72,216.32	123,889.09	5257.1
IP 5226	73,308.15	123,995.31	5300.1
IP 5227	73,330.25	122,478.74	4945.9
IP 5230	82,720.43	123,115.64	5384.8
IP 5231	76,015.78	121,590.86	4876.6
IP 5233	79,085.38	118,316.12	4554.6
IP 5234	78,987.77	118,705.72	4870.7
IP 5235	78,878.95	121,101.80	4581.9
IP 5236	78,783.54	122,489.84	4602.8
IP 5237	78,659.83	123,912.43	4641.7
TH 5238	77,810.69	128,886.17	4783.3
IP 5239	75,835.80	128,185.40	4981.9
IP 5240	75,750.33	125,578.15	4944.0
IP 5241	75,715.95	130,967.77	4847.0
IP 5242	75,925.31	126,792.48	4955.7
TH 5243	74,021.54	111,648.74	5754.6
IP 5244	71,512.17	125,507.56	5071.3
IP 5245	71,445.57	123,522.96	5079.9
IP 5249	74,317.27	119,130.09	5353.9
TH 5250	73,373.80	119,896.05	5197.7
IP 5251	74,136.19	120,276.57	5028.2
TH 5252	73,363.54	121,289.15	4899.0
IP 5253	73,460.21	118,435.01	5233.2
IP 5254	74,213.49	117,381.28	5194.8
IP 5255	73,520.06	117,020.23	5094.3
IP 5256	73,554.89	115,590.42	4873.3
IP 5257	75,991.86	125,398.66	4897.9
IP 5258	76,059.09	123,578.65	4920.8
IP 5259	76,172.94	122,613.87	4720.5
IP 5260	76,183.34	121,202.01	4740.0
IP 5261	76,173.77	119,724.09	4905.0
IP 5262	76,144.28	119,514.02	5014.7
IP 5263	76,127.88	116,800.23	4861.7
IP 5264	76,126.46	115,475.93	5303.9
IP 5266	73,143.38	128,774.66	5303.9
IP 5267	73,058.80	128,174.10	5233.0
IP 5268	72,980.77	129,582.60	5198.2
DH 1	73,859.15	127,177.89	5185.9
DH 2	73,726.43	126,741.61	5275.7
DH 3	73,727.57	127,580.04	5180.8
DH 4	73,725.31	128,940.01	5259.9
DH 5	73,735.41	126,940.52	5248.4
DH 6	73,695.57	126,053.21	5352.7
DH 7	73,609.81	126,381.65	5337.2
DH 8	73,977.48	126,757.14	5226.1
DH 9	74,054.08	126,844.77	5192.0

LEGEND

- IP 5256 DENOTES IRON POST SET WITH NUMBERED ALUMINUM IDENTIFICATION TAG
- OH 1 DENOTES DIAMOND DRILL HOLE
- 5210 DENOTES TRAVERSE HUB
- ORIGIN OF CO-ORDINATES IS STATION 5249 SCALED FROM 1 INCH = 400 FEET MAPPING (JOB 05799-S). CO-ORDINATES FOR THIS PLAN ARE RELATED TO LOCAL DATUM OF ELEVATION. MAPPING CO-ORDINATES ARE REFERRED TO MEAN SEA LEVEL. CO-ORDINATES FOR STATION 5230 ARE COMMON FOR THIS DRAWING AND MAPPING CO-ORDINATES.
- FOR CO-ORDINATES OF SMRB LOCATION POSTS SEE MELHANEY JOB 13036-D
- BEARINGS ARE DERIVED FROM SOLAR OBSERVATION AT STATION 5202.
- ELEVATIONS ARE GEODETIC AND ARE REFERRED TO TRIANGULATION STATION "PHOTO SHOWN ON 1:250,000 MAP SHEET" WITH AN ELEVATION OF 5386 FEET.
- DISTANCES ARE OBTAINED BY ELECTRONIC DISTANCE MEASURING GEOMETER 76 AND CONVENTIONAL STEEL TAPE METHODS.
- DENOTES SUMITOMO BOUNDARY.



IMPERIAL OIL LTD. MINERAL DIVISION

LOCATION LINE AND DRILL HOLE SURVEY OF JEFF MINERAL CLAIMS IN LIARD MINING DIVISION, KUTCHO CREEK

MELHANEY ASSOCIATES PROFESSIONAL LAND SURVEYORS

7024

DATE: OCTOBER 1974

SCALE: 1" = 400'

MAP NO. 1