

6516

DRILLING REPORT

on the

CAT Mineral Claims

(CAT #1-14 units)

(CAT #2-14 units)

and

BET #1 Mineral Claim

Owned and Operated by

BP MINERALS LIMITED

Oslinka River Area

Omineca Mining Division

NTS 94C/3

Located 9.5 km WSW Uslika Lake, B.C.

56°03' Lat., 125°22' Long.

C.D.S. Bates
C.D.S. Bates
October, 1977

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S U M M A R Y

CAT and BET Claims

Diamond Drilling - Longyear 34-BQ core
Wright Drilling Limited - Kamloops, B.C.

Diamond drill hole CD-77-1 507 feet(154 m)-57° west
grid location 99.5N/108E

Diamond drill hole CD-77-2 530 feet(161 m)-58° east
grid location 100.5N/106E 315

Elevation of CD-77-1 5480 feet (1661 m)
CD-77-2 5470 feet (1658 m)

Diamond drill core stored on the property.

Total costs applied \$26,000

Claim credit apportionment: -

1 year @ \$100/year to CAT #1 of 14 units	\$ 1,400
1 year @ \$100/year to CAT #2 of 14 units	1,400
4 years @\$200/year to CAT #1 of 14 units	11,200
4 years @\$200/year to CAT #2 of 14 units	11,200
4 years @\$200/year to BET #1	<u>800</u>
	<u>\$26,000</u>

STATEMENT OF COSTS

Summary - Diamond drilling - June 2-June 26, 1977
Wright Drilling Invoice #146

A) Direct Drilling	\$12,492.75
B) Indirect Drilling	3,704.75
C) Mobilization/Demobilization	<u>9,808.00</u>
	<u>\$26,005.50</u>

A) Detail of Direct Drilling - \$12,492.75

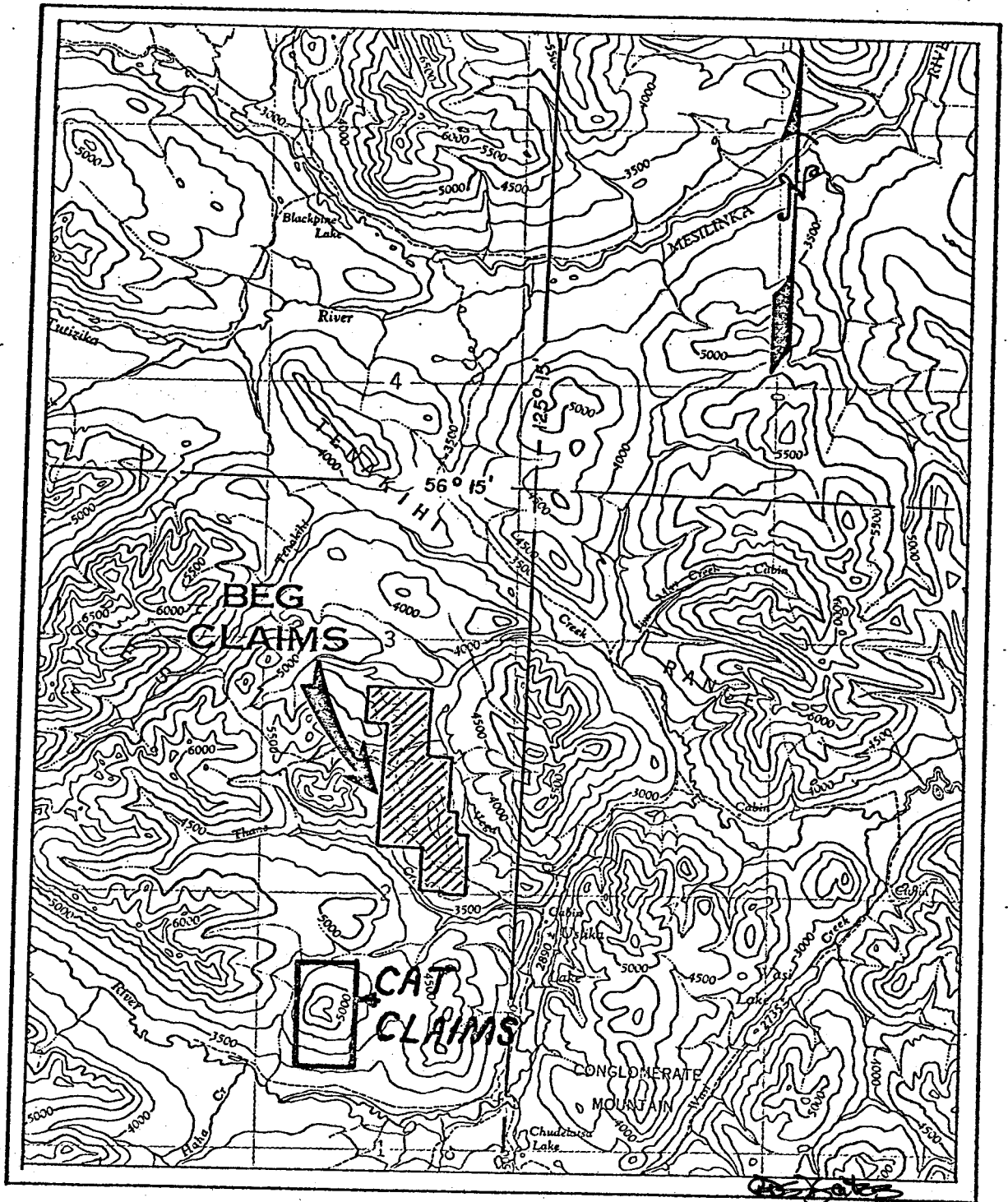
Diamond drill hole CD-77-1			
Casing	0'-2'	@ \$12.75/ft	\$ 25.50
Coring	2'-500'	@ 12.00/ft	5,976.00
	500'-507'	@ 12.75/ft	<u>89.25</u>
			\$6,090.75
Diamond drill hole CD-77-2			
Casing	0'-26'	@ \$12.75/ft	\$ 331.50
Coring	26'-500'	@ 12.00/ft	5,688.00
	500'-530'	@ 12.75/ft	<u>382.50</u>
			\$6,402.00

B) Detail of Indirect Drilling - \$3,704.75

Moving from CD-77-1 to CD-77-2		
38 hrs @ \$16.00/hr		\$ 608.00
Reamong 12 machines hrs @ \$37.00/hr		444.00
Equipment lost		886.50
Tractor rental		960.00
BP personnel - meals		600.00
44 core boxes		<u>206.25</u>
		\$3,704.75

C) Detail of Mobilization/Demobilization - \$9,808.00

Kamloops-Discharge Point-Kamloops		\$ 2,400.00
Moving equipment from Discharge Point		
to CD-77-1	289 man hrs @ \$16.00	4,624.00
Moving equipment from CD-77-2 to		
Discharge Point	174 man hrs @ \$16.00	<u>2,784.00</u>
		\$9,808.00

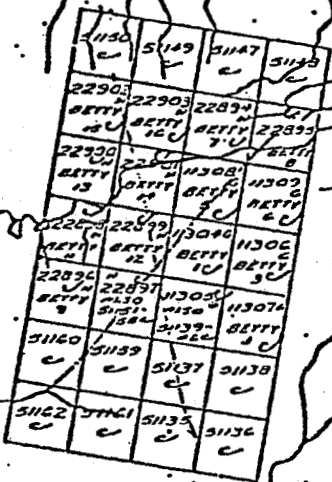


LOCATION MAP FIGURE 1
 CAT PROPERTY

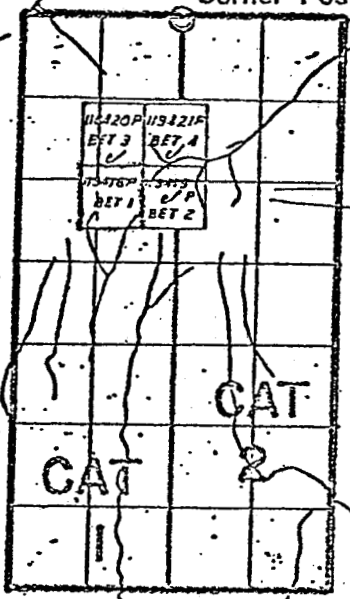
SCALE: 1:250,000
 DATE: JULY 1975

NTS 94 C 3
 GMD

THANE CREEK



Legal Corner Post



River

50-12224
50-12225
50-12226
50-12227
50-12228
50-12229
50-12230
50-12231
50-12232
50-12233
50-12234
50-12235
50-12236
50-12237
50-12238
50-12239
50-12240



BP Minerals Limited *BP Logo*

OSILINKA RIVER PROPERTY CAT CLAIMS

SCALE	1" = 1/2 mile, 1:31,680	NTS 94 C-3	FIG. 2
DRAWN	DATE	PROJ.	

To accompany report:

INVOICE

WRIGHT DRILLING LTD.
 1510 - WINDWARD PLACE
 KAMLOOPS, B.C.
 V2E 1A6

INVOICE NO. 146

SOLD TO

SHIPPED TO

B. P. MINERALS LTD.
 1199 - WEST PENDER ST.
 VANC. B.C.
 V6E 2R1

OMINECA MINING
 DISTRICT

DATE 29 June 77	ORDER NO.	SALESMAN	TERMS 15 DAYS	SHIPPED VIA	PPD.	COLL.
QUANTITY	DESCRIPTION			PRICE	AMOUNT	

DIAMOND DRILLING JUNE 8-26

\$ 26,005.50

B P Minerals Limited

RECEIVED

JUL 5 1977

Vancouver, B.C.

APPROVED FOR PAYMENT
 CHARGE 80031
 DATE 5/7/77 INTLS.

440-25,199.25
 431-600.00
 430-206.25

TOTAL

\$ 26,005.50

MOBILIZATION & DEMOBILIZATION — EQUIPMENT

\$2400.00

MOVING EQUIPMENT FROM TRUCK DISCHARGE
POINT TO #1 DRILL SITE289 MAN HRS @ \$16.00

\$4624.00

DRILLING HOLE #1

CASING 0-2-2' @ \$12.75 = 25.50CORING 2-500-498' @ 12.00 = 5976.00500-501-1' @ 12.75 = 12.75

\$6,090.75

MOVING FROM HOLE #1 TO HOLE #2

36 HRS @ \$16.00

\$608.00

DRILLING HOLE #2

CASING 0-26-26' @ \$12.75 = 331.50CORING 26-500-474' @ 12.00 = 5688.00500-530-30' @ 12.75 = 382.50

\$6,402.00

REAMING

12 MACHINE HRS @ \$37.00

\$444.00

MOVING EQUIPMENT TO TRUCK LOADING AREA

174 MAN HRS. @ \$16.00

\$2,784.00-

EQUIPMENT LOST OR DAMAGED

50% OF 2 B.Q. BITS

\$785.50 x .50%

\$392.75-

✓ 1 COM-A-LONG

99.50

✓ 1 2' - B.W. CASING

17.75

✓ 1 20' CHAIN

27.50

✓ 2 B.W. CASING SHOES

\$147.00 x 2

294.00

828.50-

B.C. SALES TAX @ 7%

58.00

\$886.50-

TRACTOR RENTAL 16 DAYS @ \$60.00

960.00-

MEALS B.P. PERSONEL 100 @ \$6.00

600.00-

1/4 CORE BOXES @ \$7.26 (INCL. AIDS + FREIGHT) \$181.50 + 10%

206.25

TOTAL

\$26,005.50

BP Minerals Limited

RECEIVED

JUL 2 1977

Vancouver, B.C.

STATEMENT OF QUALIFICATIONS

C.D.S. Bates - BA (Oxon), MA (Oxon), MSc, DIC.

- 1968 BA Oxford University
(Honours Degree Geology)
- 1970 MSc Royal School of Mines, Imperial College,
London University
(Mineral Exploration)
- 1970 DIC Royal School of Mines, Imperial College,
London University
(Mineral Exploration)
- 1975 MA Oxford University

BETWEEN: BP MINERALS LIMITED

a body corporate duly incorporated under the laws of the Province of British Columbia, and having its head office at VANCOUVER, B.C.

(hereinafter called the Company)

AND: WRIGHT DRILLING LTD., a body corporate duly incorporated under the laws of the Province of British Columbia and having its Registered Office at Suite 305 - 186 Victoria Street, Kamloops, British Columbia

(hereinafter called the Contractor)

WHEREAS:

A. The Company has requested the Contractor to complete a minimum one thousand feet of drilling and related services as hereinafter set forth on the property of the Company in the Omineca Mining Division.

B. The Contractor has agreed to do the said Diamond drillin and to perform the related services requested upon the term conditions and provisos hereinafter contained:

NOW THEREFORE THIS Agreement witnesseth that in consideration of the payment of the amounts stipulated herein and mutual promises and covenants herein contained, it is understood and agreed by and between the parties as follows:

1. SCHEDULE OF RATES - CORING

The Company hereby employs the Contractor to drill a series of bore holes on the said property using a BQ core barrel producing a core of approximately 1 7/16 inches . The Company agrees to pay the Contractor on a footage basis for all drilling according to the following schedule of rates:

<u>Coring</u>	<u>From</u>	<u>To</u>	<u>Price/foot</u>
	0'	500'	\$12.00
	500'	800'	\$12.75
<u>Overburden</u>			
	0'	25'	\$12.75
	25'	50'	\$13.50
	50 plus		Field cost

2. TRANSPORTATION AND MOVES

A. It is agreed that the moving of drill and camp equipment, supplies and personnel to the transport discharge point and return from the transport loading point, shall be the Company's account at a lump sum of twenty-four hundred dollars with seventy-five percent (75%) payable upon completion of the move in and the remaining twenty-five (25%) payable upon completion of the minimum footage.

B. In the event access to the drilling area cannot be realized with the Contractor's truck, moving from the truck discharge point to the drilling area will be for the Company's account at the specific labour rate.

C. The Contractor agrees to erect a suitable camp for the purpose of providing room and board for personnel associated with the drilling operation. Erection and dismantling of the camp will be for the Company's account at the specified labour rate.

D. It is agreed that moves between drill sites shall be at the agreed labour rate. Moving time shall be from the time of completion of pulling to set - up time at the next drill site. No machine rental charge will be made unless the rig is used to move itself. Moving between properties will carry out on a field cost basis.

3. WATER SUPPLY

If the source of water supply is at a greater distance than two thousand (2000) feet from the drilling site, or over three hundred (300) feet vertical lift, the Contractor will be paid the extra cost of supplying water to the drill site in addition to the other contract charges.

4. MUD AND ADDITIVES:

If ever required to help penetrate the overburden and or aid in core recovery, would be supplied at cost on the job site plus ten percent. Time spent mixing mud and stabilizing the hole would be charged on a field cost basis.

5. REAMING CASING AND CEMENTING:

If ever necessary to help prevent cave-ins, would be performed on a field cost basis.

6. DIRECTIONAL AND CONTROLLED DRILLING:

It is mutually agreed that directional drilling to change the direction of a bore hole and controlled drilling to maintain the angle of a bore hole shall not be part of this agreement.

7. SECURITY

The Contractor will not give out any information regarding drill results or access to any person other than to the Company's representative.

8. BOARD AND LODGING

The Contractor agrees to provide board and lodging for its own men at its own expense, and to provide meals to a limited number of the Company's representatives at the rate of \$6.00 per meal.

The Company agrees on fly-in jobs that all transportation and expediting costs be charged to the Company's account.

9. CORE BOXES

It is mutually agreed, that if requested, core boxes would be supplied on the job site at cost, plus ten percent (10%).

10. STANDBY

It is agreed that standby, dip testing, delay time or other time which the Contractor's crews are performing services for the Company, not otherwise covered herein, shall be performed at a field cost basis.

11. HELICOPTER PROJECTS AND REMOTE AREA

The Company agrees that on helicopter jobs they will supply all fuels and transportation cost from truck discharge point to drill sites at no cost to the Contractor. All fuels on remote area projects are charged to the Company's account.

12. DRILLING SITES

The Contractor agrees to case and drill on the sites and at angles and azimuths selected by the Company representative and to follow the instructions of the said representative relating to place and time of drilling.

13. CAVES

In the event that cavities or loose and caving materials are encountered of a nature as to prevent the successful completion of any hole, the Contractor does not, under such conditions, guarantee to drill to a predetermined depth and, in the event that it becomes necessary to abandon the hole, the Company agrees to pay for such uncompleted holes at the rate herein specified for all footage completed.

In the event it becomes necessary to resort to cementing, reaming of casing or mud circulation in bedrock, the Company agrees to reimburse the Contractor at field cost.

Wherever pipe or casing is lost or left in a hole on the instruction of the Company's engineer, the Company agrees to pay the Contractor for such pipe or casing at cost, f.o.b. drill site.

14. TRACTOR

If required, the Contractor will supply at the Company's cost a tractor for the construction and maintenance of access roads, drill site preparation and cleanup and the moving of the diamond drill. Tractor rental of \$1,800.00 per month, plus cost of operator when used.

15. FIELD COST

It is agreed that the hourly rate shall be interpreted here and hereinafter to be thirty-seven dollars per hour, per drill outfit. It is also agreed that the Contractor shall include in the hourly rate the cost of supplying a regular two man drill crew, supervision and maintenance as required, drilling machinery and associated equipment, fuels, and board and lodging for the drill crew.

In the event labour over and above the regular two man crew and supervision are required, the Contractor agrees to supply such additional labour at the rate of sixteen dollars per man per hour.

It is further agreed and understood that when the Contractor is working at the field cost rate, the cost of pipe or casing lost or left in the hole, diamond articles and materials and supplies consumed in the work shall be for the Company's account at cost, plus 10%

16. PAYMENT

The Company agrees to pay the Contractor, in Canadian funds the above prices. Payment to be made within 15 days of the date of the account rendered. Invoices shall be submitted twice monthly.

17. COMPENSATION AND INSURANCE

The Contractor agrees that the men employed by him in the performance of this Contract shall be fully covered under Worker's Compensation laws according to the Province of British Columbia and will keep such men covered and will pay the assessment required and will protect the Company from any action arising therefrom, excluding however, claims arising out of any negligent act or omission of the Company, its servants or agents.

The Contractor shall, at his own cost, maintain Liability and Property damage insurance in the amount of five hundred thousand (500,000.00) dollars.

The Contractor carries an all perils insurance policy limited to \$20,000.00 per drilling outfit at his own cost. The Company agrees that additional insurance cost incurred for flying or barging of equipment will be to their account.

18. RIGHT OF ENTRY AND REMOVAL OF EQUIPMENT.

Company will provide at its own expense, all rights of way, both ingress and egress, and the peaceable possession of all real property that may be required in connection with said work including real property upon which all necessary temporary buildings and other facilities may be erected, or placed, and will save the Contractor harmless from any and all damages, claims, demands, costs or charges of whatsoever kind or character incident to the occupation and use of said real property.

Upon completion of such work by the Contractor, the Contractor shall have the right to remove, within a reasonable length of time, all temporary buildings and other fixtures, trade fixtures, machinery, equipment, appliances and facilities furnished by and placed upon such real property by Contractor.

19. LIENS

The Contractor shall be responsible for and will pay promptly all costs and charges, incurred by itself for labour, machinery, tools and supplies used in completing the work hereunder so that no lien or other such charge relative to the Contractor, may be registered against the Company or the property.

20. FORCE MAJEURE

Neither party to the agreement shall be liable for any loss or damage caused by reason of strikes, acts of God, action of the elements, or any other causes beyond its control.

21. LAWS APPLICABLE

This agreement shall be interpreted and any dispute arising hereunder shall be determined in accordance with the laws of the Province of British Columbia.

22. ASSIGNMENTS

This agreement shall be binding upon and shall inure to the benefit of the parties hereto, their respective successors and assignees, provided, however, that the same shall not be assignable by either party until the consent in writing of the other shall have first been had and obtained thereto.

IN WITNESS THEREOF, this agreement has been executed by the parties hereto the day and the year first herein written.

By _____

B.P. MINERALS LIMITED

By D. Wright

WRIGHT DRILLING LTD.

DRILL LOG

SHEET NO.

LOCATION CAT CLAIMS		CO-ORDINATES		NORTH	EAST	ELEVATION		HOLE NO. CD		
				99.510	108E	5480'		1 of 11		
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE	TOTAL DEPTH	D.D.H.		
JUNE 15/77		June 18/77		-57° due west		BQ	507	77-1		
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log
From	To	Length	%Rec				F	V/Ft	F/Ft	
0'	10'	6'	60%	Broken core throughout, go probably to 5'! Rock appears to be andebasaltic augite porph- 40% augite phenos up to 1/4" in size. No clasts evident.	Minor thin fr-fill by the soft white mineral (zeolite?). Wk to mod chlorit ² of augite phenos. 1 thin qtz vein noted.	* 1% dissemin magnetite 1-2% fg to blebby dissemin pyrite.	0-10° 50° 85°			
10'	20'	7'	70	Rock more solid. Same rock type - ande-bas augite porph, no clasts evident. Potassic alt ⁿ From 10-13', rest of section is mod chlorit ² and some epidot ² along fractures.	From 10-13' pervasive pink alteration (k-spar?) of gm microlites. Also thin 85° qtz-k-spar veinlets. Some calcite veining and fr-fill	At 10' pyrite-mag in blebby calcite-epidote to patches (amygdule?) 2-3% dissemin and fr-fill pyrite.	35- 40° 55°	1	4	
20'	30'	9 1/2"	98	At ~ 25' rock becomes clastic, gradational From flow. Clasts are lapilli to agglom-sized of same material, subangular to subrounded.	Calcite pervasive in thin veins and fr-fill, also with pink mineral (not k-spar?). Mod perv chlorit ² , minor epid on fract.	2-3% fg dissemin pyrite, also in calcite veinlets.	80° 20° 50°	2- 3	5	
30'	40'	7 1/6"	75	Same rock: lapilli tuff to agglom with flow clasts ~ 20-30%, finer clasts and flow make up groundmass. Thin pink veins ± pyrite continue, possible sec biotite associated.	Calcite still prominent ± epidote. Augite mod alt to chlorite.	1-2% dissemin and fr-fill pyrite.	0° 70°	1- 2	5	
40'	50'	10'	100	6" gouge section at 41', ~60°; also at 47'6". Same rock, some finer-grained sections may be large clasts, difficult to tell.	Calcite prominent as fr-fill. Pervasive k-spar and sericite(?) begins ~ 43'.	Chalcopyrite as fract-fill with calcite over 6" adjacent to gouge at 41' (1-2%). 3% diss. Py, trace Cp at 47'. Py increases near end.	70° 40°	2- 3	5- 6	

91516



DRILL LOG

983

SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO. CD	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		D.D.H. 77-1	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION		STRUCTURE			
From	To	Length	%Rec					F	V/FI	F/FI	Graph Log
50'	60'	9'6"	95	Same rock? - clasts not obvious, finer-grained. Pervasive pink alteration of gm is sporadic. Pink calcite also evident. Rock may be fg tuff.	Calcite fr-fill still prominent. Some strong epidote in fract envelopes. Some pervasive pink alt ⁿ of gm at 55' → end	2-3% py predom Fract-fill but also dissem.	80° 20°	1-3 2	4		
60'	70'	10'	100	Same rock - mainly fg, but some clasts evident.	Calcite prominent, some large fract envelopes. Minor perv epid, minor k-spar fr-fill.	1-2% pyrite (decreas)	80° 40°	2	4		
70'	80'	10'	100	Same rock. Bleaching (albitization?) begins at 71', goes to 50° gouge zone at 77'.	Pervasive k-spar(?) and bleaching to light green begins at 71'. Calcite prominent.	3% pyrite predom on sub// 50-70° Fract. Fract-fill magnetite at 73'.	45° 70°	2	4-5		
80'	90'	10'	100	Same rock . Rock looks less like a flow and more like a fg tuff, augite phenos absent.	Calcite prominent. K-spar fr-fill/veins ~ 1/4" narrow but some perv alt ⁿ adjacent	Gen < 1% Fr-fill pyrite	45° 75°	2	4		
90'	100'	9'	90	Same rock, fg tuff. Broken ground at 100'	Calcite prominent. Some envelopes of pink alt ⁿ .	< 1% py	30° 40°	2	4		

151



DRILL LOG

SHEET NO. 3 of 11

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO. CD D.D.H. 77-1			
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE BQ		TOTAL DEPTH		STRUCTURE F V/FI F/FI		Graph Log	
DEPTH From	DEPTH To	CORE Length	CORE %Rec										LITHOLOGY
100'	110'	9'	90	Broken ground 100'-101', 103-104'. Same rock, fg tuff.		Calcite (and pink calcite) prominent as veins and fr-fill. Also k-spar veins <1/ft.		< 1% pyrite. At 106'6" is 3-4% dissem py and fr-fill magnetite adj to k-spar fr-envelope.		20° 55°	2-3	5	
110'	120'	10'	100	Gouge zone from 110'6" - 111'6", ~40°? Same rock but coarser gr clasts - lapilli tuff locally. Local bleaching and k-spar. Pyrite back to 2-3+ %.		Calcite prominent. Local bleaching (sensit ² or albit ²) along fract envelopes. At ~113-114' get strong perv k-spar and calcite.		2-3% fg dissem and fr-fill py		60° 20°	2	5-6	NN
120'	130'	8'	80	Gouge zones 121-122', 128-130' (tube not locking). Same rock. From 128-130' only 3" piece of core recovered = zoisite(?) - mag - Augite phenos more evident in epidot ² calcite or k-feld ² sections.		Local epid in fr env not . Calcite prominent in non-gouge sections. Mod perv k-spar adj to gouge zones.		Small 4" zone of epidot ² , chlorit ² (augite) rock with 1% Cpy at 120'6". Gen 1% py as fr-fill adj to shears		40° 1-2	5-6	NN NN	NN
130'	140'	8'	80	Broken core 138-140', 0-10° Fracture. Same rock? - sections where augite phenos very prominent may be clasts. From 133- END rock is very fractured; infilled with k-spar, epidote, calcite, 5-8% pyrite, and magnetite. Fract-fill material is often deformed.		Strong calcite-epid-k-spar from 133-end.		Sub-massive pyrite up to 10%, also mag up to 5% in altered, fract section. Possible trace Cpy.		10° 50°	2-3	5-9	NN NN
140'	150'	16"	15	Tube not locking - low recovery. Epid-calcite pyrite section appears to continue to 148. Rock becomes solid at 148, appears to be tuff with augite porph clasts (or matrix?), unfract; minor perv k-feld ²		Strong epid-calcite pyrite appears to continue to 148.		Up to 10% pyrite in broken section 140-148 (only 9" recovery though).		60°	3-9		L O S T C O M P

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO. ^{CD}	
DATE STARTED		DATE COMPLETED		SURVEYS						D.D.H. 77-1	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log	
From	To	Length	%Rec				F	V/FI	F/FI		
150'	160'	1'6"	15'	Ground core 150-159, tube not locking. 159-160 is same rock - lapilli tuff with augite porph clasts.	159-160 is intensely fractured and filled with calcite. Calcite fillings have k-spar selvages.	159-160 has only trace py.	20° 60°	-	-	10	LOST CORE
160'	170'	10'	100	Same rock. Gouge zone at 162'6", 60°. Well-fract section continues to ~166'. Some agglom-sized augite porphyry clasts evident; show stronger perv epidot ^z .	Calcite still prominent. Local epid fr env. Weak perv k-spar.	1-2% pyrite, principally with epidote	85° 45°	2	6-7	11	~
170'	180'	10'	100	60° gouge 172-173'. Small gouge sections throughout. Core becomes more solid at ~175'.	Strong calcite fr-fill, lots of gouge. Light pink mineral with calcite maybe zeolite.	1-2% pyrite as blebs or fr-fill locally.	60° 25°	-	8	12	~
180'	190'	10'	100	Prominent 5° fracture. Same rock.	Strong calcite ± light pink zeolite(?) Minor k-spar veinlets Some stronger chlorit ^z along 5° fracture.	2% pyrite mainly along hairline fractures.	5° 70°	3	6		
190'	200'	10'	100	Same rock. Gouge zone at 197'6" - 198'6", 10-20°(?). Rock is generally fig.	Calcite less strong. Local epid-zeolite-magnetite ± py along 0-10° fracture.	Py ± 2% on fine fractures. Coarser py in shear zone with calcite-epid-hematite.	10° 60°	-	6	13	SS

BP

DRILL LOG

038

SHEET NO.

LOCATION		CO-ORDINATES		NORTH	EAST	ELEVATION		HOLE NO. CD		
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE	TOTAL DEPTH	D.D.H. 77-1		
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log
From	To	Length	% Rec				F	V/Ft	F/Ft	
200'	210'	10'	100	Rock is f.g. tuff. Gouge zone (50°?) From 201-202', 205'6" - 206'6" (20°). From 207-208'6" get 20-30° fracture envelope with chbrite-sericite(?) - massive mag-pyrite-calcite	Calcite only mod prominent on fractures. Some thin epid and chlorite fr-fill.	Gen < 2% py. Massive mag at 207-208'6" in fract envelope.	55° 20°	< 1	5	mm mm
210'	220'	7'6"	75	Same rock. Small narrow shears 1/2 ft. From 217-221 tube not locking, only 6" recovered.	Calcite mod prominent. At 215' is calcite-epidote envelope + py + mag with pervasive k-spar adjacent, 20°.	Gen 1% py as fine fract-fill.	0-5° 70°	1	5	1 5 5000
220'	230'	9'6"	95	220-221 is broken core. Same rock.	Calcite strong on fractures. Minor peru k-spar	From 222-223' is strongly fract section with calcite-k-spar pyrite-xstall magnetite (Fr ~ 30°) Gen 1% py.	30° 60°	3	5-6	
230'	240'	10'	100	Same rock. 230'6" - 231' is calcite-epidote-magnetite ± py envelope at 20°. Rest of section is relatively uninteresting.	Mod calcite Fr-fill, falls off downsection. Minor epidote envelopes.	Gen < 1% py	20° 60°	1-4-2	5	
240'	250'	8'6"	85	10° gouge zone at 247'. Some agglom sized clasts evident (10% of rock?)	Mod calcite in fract, minor k-spar adj to fract envelope	At 247'6" is 10° fract env with epid-calcite-magnetite and some pervasive k-spar along selvages. Gen < 1% py.	10° 60°	1	5-6	5

NB
mag-epid
± py envelope
at 207-208'
5-20°



DRILL LOG

088

SHEET NO.

6 of 11

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		7 of 11	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO. CD D.D.H. 77-1	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Groph Log	
From	To	Length	%Rec				F	V/FI	F/FI		
300'	310'	10'	100	Solid core - no fractures. Good agglom. clasts are 100% flow clasts, comprise ~ 30% of rock. Clasts cut by calcite.	Wk calcite, no epidote, no k-feld?	Wk ~ 1% py predom as fine fract-fill	70° 40°	<	1	0 0 0	
310'	320'	10'	100	Solid core. Same rock - good agglom with flow clasts	Wk calcite. Some irreg sericite? Fract-fill, also minor white-feld fract-fill.	1-2% pyrite dissem around clasts, also in sericite fr-fill.	60°	<	<	0 0 0	
320'	330'	10'	100	Same rock.	More calcite fr-fill, some 1" - 1/4" infillings. Minor feld fr-fill.	1-2% pyrite dissem.	30° 65°	1	1-2	0 0 0	
330'	340'	10'	100	Same rock. 1/4" wide calcite fract-filling subll core axis runs from 330' - 337', some k-spar along margins.	Mod calcite fr-fill. Irreg sericite fract-fill run to calcite (cut by calcite).	2% pyrite as dry fr-fill	0° irreg 50°	1	2-3	0 0 0	
340'	350'	10'	100	Same rock - py increases with sericite.	Mod calcite and zeolite? or k-spar fr-fill. Irreg fr-fill and perv sericite mod to locally strong (341')	Py 2-4%, increases with sericite, also mag-py assoc.	70° 40°	<	1	0 0 0	

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		8 of 11	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO. ^{QCB} D.D.H. 77-1	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log	
From	To	Length	% Rec				F	V/Ft	I/Ft		Log
350'	360'	10'	100	Same rock - good agglom. Lighter coloured clasts may be sericitized. Some good dissem and fr-fill pyrite.	Wk-mod calcite, minor epidote fr-fill. Minor k-spar fr-fill. Some thin qtz (feld?) veining evident	3-4% pyrite as dissem and fract-fill. Good dissem Py in sericit(?) clasts.	35°	1	1	0	
360'	370'	10'	100	Same rock - ~45° gouge zone 5" long at 363'6".	Wk-mod calcite fr-fill. More intense fracturing adj to shears is sericitized, chloritized and minor k-spar evident.	3-4% dissem and fract-fill py.	55° 30°	1- 2	1- 2	0 0	
370'	380'	10'	100	Same rock. Unfractured.	Wk calcite, some thin qtz ± ser veinlets evident. More fr-fill and dissem epid + py.	2-3% py dissem with epidote and on fine fractures.	20° 30°	1- 2	2	0 0	
380'	390'	10'	100	Same rock. Unfractured.	Gen very weak alt ⁿ . Minor epidote.	1% pyrite on fine fractures.	70° 80°	1	1- 2	0 0	
390'	400'	10'	100	Same rock. Clasts distinct but margins are fuzzy. Some epidote ² flow clasts.	Wk-mod calcite fracture-fill. Wk pervasive epidote	1-2% dissem and fine fr-fill py. At 395' get py and tr sp in thin epid fr-fill.	20°	1- 2	1	0 0	

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO. CD	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		D.D.H. T1-1	
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE	
From	To	Length	%Rec							F	V/Fi
400'	410'	10'	100	Same rock - very poorly-fractured		Wk alt ⁿ , minor epid, minor irreg qtz veins.		1% pyrite on fine Fract ± epidote.		20°	<1
										75°	
410'	420'	10'	100	Same rock - 7' section of solid core. Glasts are subang - subround.		Same. At 417' is 6' zone of epidote - k-par - py between two 30-40° fracture envelopes of calcite - zeolite.		Gen <1% py, except where epidote occurs.		40°	<1
420'	430'	10'	100	Same rock. Most fractures healed with calcite		Mod calcite on fractures. Minor thin chlorite veins.		1-2% py dissem and fine fract-fill		10°	1
										80°	2
430'	440'	10'	100	Same rock.		Wk calcite, minor calcite-epid on fractures		<1% pyrite		75°	<1
										35°	
440'	450'	10'	100	Same rock.		Wk calcite, minor qtz-feld veinlets.		<1% dissem py		70°	

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DRILL LOG

SHEET NO. 10 of 11

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO. 06			
										HOLE SIZE	TOTAL DEPTH	D.D.H. 77-1	
DATE STARTED		DATE COMPLETED		SURVEYS						BQ	507		
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			Graph Log
From	To	Length	% Rec							F	V/Ft	F/Ft	
450'	460'	10'	100	Same rock		Minor calcite Fr-Fill		<1% py		25°			
										45°	1	1	
460'	470'	10'	100	Same rock		Gen unaltered.		466' a few blebs of dissem Qz. <1% py		85°	<1	1	
470'	480'	10'	100	Same rock. 20° Fract-filling of calcite-chlorite-k-spar at 475'		Mod calcite fract-Fill. Minor epid.		10% py locally adj to fract. env.		20°	2	2-3	
										80°			
480'	490'	10'	100	Same rock		Mod calcite ± epid Fract-Fill		<1% Py		10°	<1	2	
490'	500'	10'	100	Same rock. 10° calcite-chlorite envelope at 493'.		Mod calcite-chlorite Fract-Fill.		41% Py		10°	<1	1	



DRILL LOG

SHEET NO. 11 of 11

LOCATION		CO-ORDINATES		NORTH	EAST	ELEVATION	HOLE NO. CD					
				99.5N	108E	5480						
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE	TOTAL DEPTH	D.D.H. T-1				
June 15/77		JUNE 18/77		-57° W		36	507					
DEPTH		CORE		LITHOLOGY		ALTERATION	MINERALIZATION		STRUCTURE			Graph Log
From	To	Length	%Rec						F	V/FI	F/FI	
500	507	7'	100	Same rock.		wk calcite fr-fill.	Traces of dissem Cpy, little or no Py		20°	<		⊙
				END HOLE					80°			0

6516

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO. CD	
CAT CLAIMS				100.5 N		106 E		5470 ft.		1 of 11	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		D.D.H. 77-2	
JUNE 19/77		JUNE 22/77		-58° due east		BQ					
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE	
From	To	Length	% Rec							F	V/Ft
0'	19'	-	-	0/B. - rounded volcanic material		-		-		-	-
19'	30'	7'	64	22'6"-26' is 9" of ground core, rest of section is broken. Rock is andesitic lapilli tuff to agglom. Distinct clasts are predom augite porph. Pyrite heaviest in irreg 45° fract envelopes with calcite-epid-zoisite.		Mod to strong calcite ± epid Fract-fill. Also black (zoisite) mineral in calcite-epid envelope.		Pyrite ~ 3-4% as med gr blebby dissem and fract-fill (with calcite-epid) material.		50°	1-4
30'	40'	10'	100	Same rock - badly broken along 45° and 20° fractures. (surface fractures healed with calcite) Some local small shears.		Mod calcite-epid ± k-spar fract-fill.		Py 2-4%, dissem blebs but heaviest in fract envelopes with calcite-epid ± k-spar		45°	1-5
40'	50'	9'	90	Same rock - more of a lapilli tuff - finer gr clasts than CD 77-1. Clasts comprise ~ 50-60% of rock. Matrix is light green colour (andesite).		Wk calcite fract-fill. Minor epid-k-spar Fr-fill. Some irreg light green (sericite?) Fract-fill.		Py 2-4% as blebby dissem in matrix. and on fractures.		0°	4-
50'	60'	9'4"	93	Same rock - very light colour (dacite?). At 58' is 3" wide irreg zone of pervasive epidote, calcite Fr-fill and minor k-feld ² adjacent. Py and <u>Cpy</u> (Py > cp) occur as blebby dissem.		Wk - mod calcite. Local perv dissem epidote. Minor k-spar on fractures.		2-3% blebby dissem Py. Cp-Py at 58'		60°	1 5-6

6516



DRILL LOG

cjsB

SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		SHEET NO.				
										2 of	11			
DATE STARTED		DATE COMPLETED		SURVEYS				HOLE SIZE BQ		TOTAL DEPTH		HOLE NO. CD		
												D.D.H. 77-2		
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			Graph Log	
From	To	Length	%Rec							F	V/F	F/F		
Tr Cpy	60'	70'	86"	85	Same rock but some agglom-sized clasts evident. Amygdular flow clasts prominent. At 64' is ~12" long amygdular clast with pyrite and magnetite (some may be chalcocite?) in amygdules. At 69' is zoisite vein (irreg) with pyrite and minor cpy disseminated along.		Weak calcite fr-fill. K-spar becoming more prominent.		1-3% pyrite dissem. Strongest pyrite in amygdular clasts.		30° 60°	<1	4-5	
Cpy	70'	80'	96"	95	Same rock - best cpy section yet. Cpy assoc with epid-py fract-fill; highly irreg but ~30° trends. Rock between min fractures contain 1-2% dissem blebby pyrite. Total Cp <1%.		Irreg calcite-epidote fracture fill with assoc py- <u>cpy</u> ± magnetite. Pervasive k-spar more evident.		At 75' is irreg ~1/4-1/2" fracture fill of solid cpy and minor py. at ~30°. ~5% epid-py- <u>cpy</u> irreg fracture fill over this interval.		30° 50°	1	5	
Tr Cpy	80'	90'	10'	100	Same rock - 3 epid-pyrite-tr Cpy from 2" & 6" in length fr-envelope zones. Cpy <1%.		Mod to strong calcite Fract-fill. Local zones of strong epidot ² . Some K-feld ² evident.		1% dissem py between envelopes of epid-py- <u>cpy</u> .		45°	1	5	
	90'	100'	10'	100	Same rock - only 1 epid-py (no cpy) zone noted (~2" long).		Wk calcite, minor k-spar on fractures, minor epidote.		1% dissem py.		40° 70°	<1	5	
	100'	110'	10'	100	At 101' sharp, slightly sheared 60° contact with syenite(?) porphyry. Near contact intrusive is fine-gr subvolcanic, becomes coarser grained porphyry ~105'. Pink phenocrysts, some with whiter centres; strongest pink colouration adj. to fractures		Mod to strong calcite fr-fill. Weak dissem epidote, mafics relatively fresh.		<1% fg dissem py, trace(?) cpy.		60°	2	3	



DRILL LOG

CASSB

SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		3 of 11			
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO. C.D. D.D.H. 11-2			
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			Graph Log
From	To	Length	% Rec							F	V/FI	F/FI	
110'	120'	10'	100	Same rock - syonite(?) porphyry. Relatively unfractured. Pink alt ⁿ (colouration) of phenocrysts is fracture-controlled as unfractured rock is med grey-green in colour. Dissem blood-red cinnabar at 115'.		Weak sericitization of phenos, weak chlorit ² of mafics. Wk calcite fr-fill.		Dissem cinnabar <1% <1% dissem by and fr-fill by pyrite.		60°	1	2-3	
120'	130'	10'	100	Same rock - grey-green except where better fractured as it is pink coloured.		Weak sericit ² of phenos, weak chlorit ² of mafics. Med. calcite fr-fill.		No pyrite Cinnabar on some 30° fractures ± calcite.		30°		3-4	
130'	140'	10'	100	Same rock.		Same alt ⁿ . Minor dissem epidote.		<1% dissem and fr-fill cinnabar. No pyrite.		30°	1	3-4	
140'	150'	10'	100	Same rock - predom grey-green.		Mod calcite fr-fill. Weak sericit ² and chlorit ² . Minor epidote fr-fill.		No pyrite. Traces cinnabar on fractures.		30°	1	3-4	
150'	160'	10'	100	Same rock - predom grey-green		Mod calcite fr-fill. Pink colouration is fr-controlled. Weak sericit ² and chlorit ²		No pyrite pyrite Trace dissem cinnabar		20-30°	1	3-4	



DRILL LOG

CSB

SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO. CD	
										HOLE SIZE	TOTAL DEPTH
DATE STARTED		DATE COMPLETED		SURVEYS							
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log	
From	To	Length	%Rec				F	V/Ft	F/Ft		Log
160	170	10'	100	Same rock to 163'6" - sharp but fractured and calcite fr-filled contact with lapilli tuff-agglom. Porphyry is very fg adj to contact. Fracturing increases in volc.	Strong calcite ± k-spar Fract-fill in volc. Strong perv chlorite ² near contact	1-3% Fract Fract-fill py in volc.	0° 20° irreg	1-4- 26			
170	180	10'	100	Same lapilli tuff/agglom. From 171-172' is tectonic breccia along 0-20° fract system. Heated by calcite and fg black mineral; also k-feld ² in places.	Local strong calcite Fract-fill.	1% py overall gn in fine fractures.	0° 20° irreg	26			
180	190	10'	100	From 180' → rock is mid grey ash tuff with < 10% agglom or lapilli sized clasts. Gradational. NB. 4% dissem fg pyrite.	Weak calcite, chlorite fr-fill.	3-4% dissem and fine fr-fill fg py.	30° 45°	<1	4		
190	200	10'	100	Agglom-sized chsts become more prominent. Clasts are predom flow clasts but at 193' clasts appear intrusive	Wk calcite fr-fill.	Fine-gr dissem and fr-fill py 2-4%	40°	4	2-3		
200	210	10'	100	Same rock. From 201-203' strong calcite and minor pervasive epid over better fractured section. Clasts comprise ~ 40-60%.	Locally strong calcite, minor perv epidote.	2-4% fg and blebby dissem py.	45°	<1	3-4		



DRILL LOG

CJSB

SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		5 of 11			
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO. CD			
										D.D.H. 77-2			
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			
From	To	Length	% Rec							F	V/F1	F/F1	Graph Log
210	220	10'	100	Same rock but clasts < 25%, predom of fg tuff. From 219-224 rock is mod stained along 0-10° fracture - broken core.		Mod calcite fr-fill, minor epidote, chlorite.		2-4% fg dissem py.		0-10°	1	3-4	S
220	230	10'	100	Same rock - broken along 0-10° fract to 224! Predom fg tuff.		Mod calcite, wk epidote-chlorite fr-fill.		2-4% fg dissem py.		0-10°	1	4	S
230	240	10'	100	Same rock but clasts more prominent.		Local perv epidote and chlorite. Local calcite fr-fill.		2-3% dissem py.		45°	1	3-4	
240	250	10'	100	Same rock - better fracturing.		Mod to strong calcite fr-fill. 1 epid env ~1" wide.		2-3% py.		50°	2	6-7	
250	260	10'	100	Same rock.		Locally pervasive wk to mod epid. Mod calcite.		3-4% fg dissem py.		45°	2	6	



DRILL LOG

CSB

SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		6 of 11					
DATE STARTED		DATE COMPLETED		SURVEYS				HOLE SIZE BQ		TOTAL DEPTH		HOLE NO. CD D.D.H. 77-2			
DEPTH		CORE		LITHOLOGY				ALTERATION		MINERALIZATION		STRUCTURE			Graph Log
From	To	Length	% Rec									F	V/F	F/F	
260	270	10'	100	Same rock - lapilli tuff - agglom				strong but local white fr. fill		2-3% dissem py.		10°	1	4	
270	280	0'	100	Predominantly lapilli tuff.				Same. Minor epidote fr. envelopes		3-4% dissem py		20°	1	4	
280	290	10'	100	Lapilli tuff - agglom.				Same alt ⁿ (weak)		3-4% dissem py		20°	1	4	
290	300	10'	100	Same rock.				Same alt ⁿ		3% dissem py.		20° 45°	1	4	
300	310	10'	100	Same rock. At 308' is 3/4" wide tectonic bx at 20° healed with white feldspar.				A large irreg (3" wide) epid ² envelope at 300'		Trace of dissem Cpy in clast at 304' 2-3% dissem py		10-20° 45°	1	4	



DRILL LOG

SHEET NO. 7 of 11

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO. CD D.D.H. 77-2	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE BQ		TOTAL DEPTH		STRUCTURE	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION		STRUCTURE		Graph Log	
From	To	Length	% Rec					F	V/Fi		F/Fi
310	320	10'	100	Same rock - becomes predom fg tuff near end of section; clasts not prominent. Py increases in finer gr rock.	Some 1/2" wide calcite fr-fill on 20° fract. Minor chlorite on fract.	2-3% dissem py	0° 20°	1	4		
320	330	10'	100	Same fg tuff - clasts not prominent.	Same alt ⁿ	4% dissem fg py	10° 75°	1	3		
330	340	10'	100	Same rock - fg. tuff	Mod calcite ± chlorite (?) fr-fill. Wk pervasive chlorit ²	4% fg dissem py	20° 75°	1	3		
340	350	10'	100	Same rock - becomes coarser gr to lapilli tuff near end of section. Minor 1/8" irreg qtz veining	Wk calcite, wk perv chlorit ² adj to fractures	4% dissem py Some py along margins of qtz veining	45° 70°	1	2		
350	360	10'	100	Block Agglom-sized, clasts evident. From 358'6" to 360+ is flow clast.	Mod calcite, minor irreg qtz veining (3/10 ft)	3-4% dissem and fr-fill py.	30° 45°	1	2-3		



DRILL LOG

888

SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		8 of 11	
DATE STARTED		DATE COMPLETED		SURVEYS				HOLE SIZE	TOTAL DEPTH	HOLE NO. CD	
										D.D.F. 77-2	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log	
From	To	Length	% Rec				F	V/F	F/F		
360	370	10'	100	360-361' is shear zone sub// core axis. Better fracturing related to minor shears. Rock is lapilli tuff - agglomerate; clasts difficult to distinguish.	Most fracturing is healed with calcite, very minor qtz.	Cinnabar with calcite in 2 fr. fill. Cinnabar on most shear surfaces. <1% pyrite.	45°	2	7-8		
370	380	10'	100	Same rock, clasts indistinct. Matrics (augite) are weakly chloritized.	Barren irreg qtz veining 4/10 ft. Minor calcite fr-fill.	Cinnabar smeared on some shears. ~1% dissem and fr-fill py, trace dissem cpy.	20°	45°	6		
380	390	10'	100	Same rock - clasts indistinct. Augite prominent. Calcite less prominent on fractures; qtz or white feldspar more prominent.	Wk. vent ² of matrics, some patchy pervasive pink alt ⁿ . Qtz veining more prominent.	Traces of dissem cpy. <1% py. Cinnabar on fracture smears.	45°	30°	2 5		
390	400	10'	100	Same rock.	Locally strong calcite fr-fill. Some dk pink alt ⁿ adj to fractures may be cinnabar stain.	1% dissem and fr-fill py. Cinnabar on smears.	70°	30°	2 5		
400	410	10'	100	Same rock.	Stronger perv chlorit. Minor qtz veining, minor white fr-fill.	Traces of fr dissem cpy. 1% dissem and fr-fill py. Cinnabar on smears.	20°	30°	45°	1 5	



DRILL LOG

98B

SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		9 of 11			
DATE STARTED		DATE COMPLETED		SURVEYS				HOLE SIZE 80		TOTAL DEPTH		HOLE NO. CD	
												D.D.H. 77-2	
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			
From	To	Length	%Rec							F	V/Ft	F/Ft	Graph Log
410	420	10'	100	Broken core 411'-412'6" (60° fract) and 418-419'. Same rock.		Same - wk chlorit ^z , minor calcite, qtz veining.		< 1% pyrite. Cinnabar on fractures		2-10°	< 1	5-7	
420	430	9'	90	Broken core 422-423', 425'6"-426' Same rock - stronger fracturing		chlorite and calcite on most fractures. Minor qtz veining.		< 1% pyrite Cinnabar on fractures.		10°	< 1	8-5	
430	440	10'	100	Same rock. At 434' is 3" wide 40° bx zone healed with calcite and chlorite.		Same alt ⁿ .		< 1% py Cinnabar on fractures		40°	< 1	5	
440	450	10'	100	Same rock		Calcite fract-fill mod prominent. Minor epidote on fractures with calcite.		Trace of diatom Sp of at 442'. ~ 1% py. Cinnabar on fractures		30°		2-5	
450	460	10'	100	Same rock - From 458-460' shearing along 10° Fracture.		Same alt ⁿ		1% py Cinnabar on fractures		10°		1-5	



DRILL LOG

CMB


SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.			
										10 of 11			
DATE STARTED		DATE COMPLETED		SURVEYS				HOLE SIZE		TOTAL DEPTH		HOLE NO. CD	
												D.D.H. 77-2	
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			Graph Log
From	To	Length	% Rec							F	V/FI	F/FI	
460	470	10'	100	Broken core from 462-464' along 0° fracture. Same rock - chlorit ² strongly pervasive. Traces of Fe and fine fract-fill py ($Py \gg Cpy$)		Strong pervasive chlorit ² . Calcite-chlorite common on fractures. Epidote more prominent		Py - 2-3%, some heavy py on fractures with chlorite, trace Cpy also. Minor is cinnabar		0'	100'	5-8	
470	480	10'	100	Same rock - chlorit ² continues, less pyrite.		Med calcite fr-fill. Pervasive chlorit ² . No epidote.		~1% py as py diss.		60'	100'	5-6	
480	490	10'	100	Same rock - strong chlorit ² continues, strong py in irreg fractures in strongest chlorite/calcite zones.		Same alt ² . Minor k-spar veinlets.		3-4% pyrite predom on irreg fractures. Minor cinnabar.		70'	100'	5-6	
490	500	9'6"	95	Same rock to 494' - sharp 45° contact with pink porphyry. Volc adj to contact are strongly fractured with pervasive k-spar, calcite, pyrite, minor epidote. Porphyry has numerous hairline fractures. Contact is marked by Broken core 491-492' 1" wide banded calcite-chlorite.		Strong chlorite/calcite/k-spar(?) in vde. Weak to med porv and fracture-fill epidote in porphyry. Pink coloration is fracture controlled		41% py in porphyry. Cinnabar on fractures in porphyry. 3% fr-fill py in vde adj to contact.		45'	100'	8	
500	510	10'	100	Porphyritic syenite(?): pink coloration of phenocrysts is fracture controlled. Matrix indistinct. From 506-509' phenocrysts not evident, rock looks volcanic.		Epid and light green clay(?) prominent on fine fractures. \pm calcite		4% pyrite predom Fr-filling \pm cinnabar.		45'	100'	6	



O DIAMOND DRILL LOCATION

Scale and elevation datum based on limited ground control resulting in good relative, but uncertain absolute map accuracy.
 Compiled from aerial photography at an approximate scale of 1 inch equals 6,000 feet flown in 1971

B P MINERALS 6516	
OSILINKA RIVER <i>OSILINKA</i>	
ORTHOPHOTO MAP Fig. 3	
 McElhanney Surveying & Engineering Ltd. 1200 West Pender Street, Vancouver B.C. Canada	Scale 1" = 1,000'
	Contour Interval 50'
	Date MAY 1975
	Job No. 06175-0
Sheet No. 1 OF 1	