

7323

DIAMOND DRILL HOLE REPORT FOR
HOLES CHEM NO. 1 TO 6 ON THE
BRENT 1, QQ 1, OAK 2 AND 3 AND
VV CLAIMS IN THE
NANAIMO AND VICTORIA MINING DIVISIONS

NTS 92 B 13 e and f
Lat. $48^{\circ} 53'$ to $49^{\circ} 00'$
Long. $123^{\circ} 45'$ to $124^{\circ} 00'$

By
R. Somerville, P.Eng.
July 1979

For
Esso Minerals Canada
#314 - 1281 West Georgia Street
Vancouver, B.C. V6E 3J7

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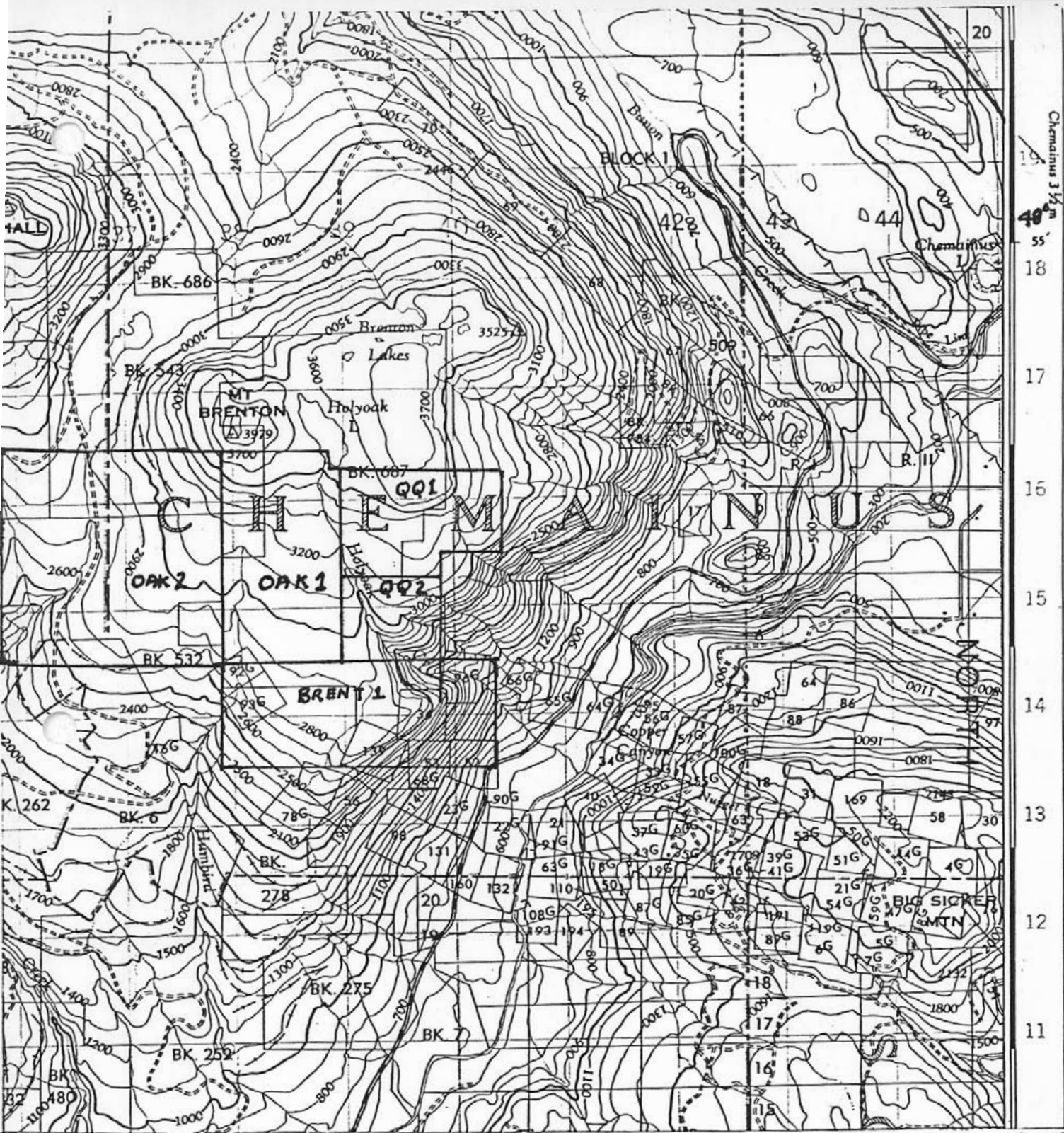
DIAMOND DRILL HOLE REPORT FOR
HOLES CHEM NO. 1 to 6 ON THE
BRENT 1, QQ 1, OAK 2 AND 3 AND
VV CLAIMS IN THE
NANAIMO AND VICTORIA MINING DIVISIONS

INTRODUCTION

In April of 1977 an area encompassing Mt. Brenton, Mt. Hall and Coronation mountain was flown with a Scintrex airbourne electromagnetic and magnetic system. As a result of this survey, a number of claims were staked as shown on Location Maps No. 1, 2, and 3. Ground geophysical crews in the same year established the location of a number of anomalies on the ground and on September 7, 1978 a drill was moved onto the first hole.

LOCATION AND ACCESS

The Brent 1, QQ 1 and Oak 1 claims are located about 13 air kilometers south-southwest of the town of Ladysmith on Vancouver Island. This group of claims lies on the south-facing slope of Mt. Brenton at an elevation of 2000' to 3500' (610 m to 1070 m). They are easily accessible by an industrial logging road along the Chemainus River and then by the Holyoak Lake access road.

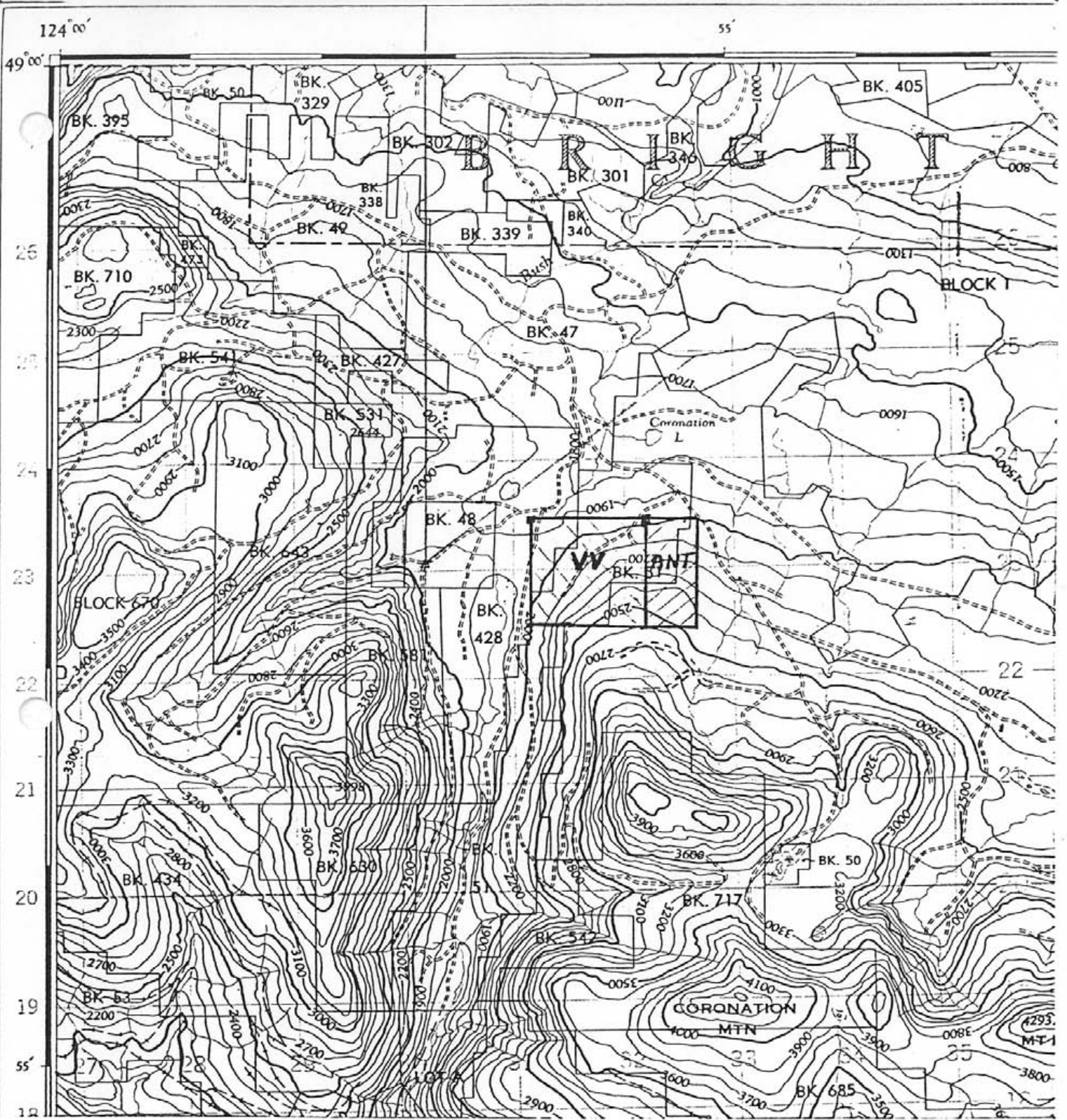


123°45'

LOCATION MAP NO. 1
CHEMAINUS - EAST

Scale 1: 50,000

NTS 92 B 13



LOCATION MAP NO. 2
CHEMAINUS - WEST

Scale 1: 50,000

NTS 92 B 13

The Oak 2 and 3 claims lie southwest by west of Ladysmith some 16 air kilometers on the south-facing slopes of Mt. Brenton and Mt. Hall. The VV claim is about 10 air kilometers southwest of Ladysmith on the north slope of Coronation Mountain. The access to these claims is by logging roads leading south from Ladysmith, maintained by Crown Zellerbach.

GEOLOGY

All the holes were drilled in rocks believed to belong to the Sicker volcanic and sedimentary complex.

Chem No. 1 intersected a series of quartz eye and quartz chlorite schists. These schists are pyritic (up to 10%) and contain minor values in copper. The hole was drilled to test an anomaly discovered in a ground self-potential survey.

Chem No. 2, 3, 4 and 5 were drilled in a series of badly fractured and silicious, thin, rhyolite and dacite tuffs and fragmental flow rocks containing minor graphitic tuff horizons. All these holes were drilled to test anomalies found by horizontal loop ground electromagnetic surveys.

Chem No. 6 was drilled to test combined ground magnetic and electromagnetic anomaly. This hole encountered a minor amount of graphitic argillite at bedrock and then passed into a sequence of very siliceous tuffs which have been altered in various degrees by garnet skarnification, including the development of very strongly altered skarn breccia associated with up to 15% sulphides including pyrite, pyrrhotite, minor chalcopyrite and traces of molybdenite.

INTERPRETATION

It is possible that the sulphides encountered in Chem No. 1 account for the SP anomaly but the evidence is not conclusive.

The graphitic tuff and/or argillite encountered in Chem No. 2 to 6 would certainly account for the electromagnetic anomalies located in the ground surveys. The magnetic anomaly in hole Chem 6 can probably be explained by the moderate to heavy pyrrhotite encountered in the footwall of the argillite.

DIAMOND DRILLING

Six B.Q. diamond drill holes were completed for a total footage of 1469 feet (448 meters). The footages are as follows:

Chem No. 1	306'	(93 m)
Chem No. 2	257'	(78 m)
Chem No. 3	154'	(47 m)
Chem No. 4	247'	(75 m)
Chem No. 5	198'	(60 m)
Chem No. 6	307'	(95 m)

The drilling was completed on December 14, 1978.

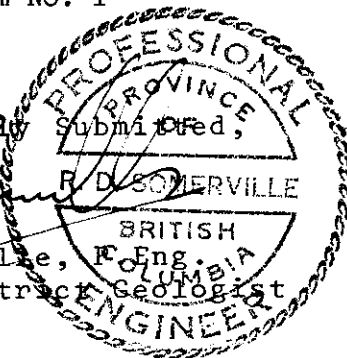
Great difficulty was encountered in drilling most of the holes. The rock was in general very siliceous and very badly fractured. Drill bits and rods showed extreme wear and the holes generally had a bad tendency to collapse resulting in considerable cementing, re-drilling and loss of down-the-hole equipment.

The core is currently stored as follows:

Chem No. 1	3 - 6	#314-1281 West Georgia St., Vancouver
Chem No. 2		at the camp site adjacent to the hole site for Chem No. 1

Respectfully Submitted,


R. Somerville, P. Eng.
Senior District Geologist



A P P E N D I X

April 17, 1979

149

Esso Minerals Canada Limited
314 - 1281 West Gerogia Street
VANCOUVER, B.C.
V6E 3J7

Attention: Mr. C. Arid

Dear Sirs:

STATEMENT - Re: Chemainus Drilling Project

Mobilization from Summerland to first site	\$	500.00
Demobilization from last site to Summerland		500.00

FOOTAGE

Chem - 1 - 306½ ft. @ \$12.50 per foot	3,831.25
Inclinometer test - 2 hrs. @ \$35.00 per hr.	70.00
Chem - 2 - 178 ft. @ \$12.50 per foot	2,225.00
Chem - 6 - 238 ft. @ \$12.50 per foot	2,975.00

FIELD COST

761½ hrs. @ \$35.00 per hr. (as per shift reports)	26,652.50
88 man hrs. @ \$10.00 per hr. (additional as per shift reports)	880.00
Standby November 21 & 24, - 32 hrs. @ \$35.00 per hr.	<u>1,120.00</u>
	\$38,753.75 ✓

FIELD COST SUPPLIES

EW casing shoes 18 @ \$186.31	3,353.58
BQ 200 series bits 8 @ \$344.80	2,758.40
BQ 100 series "TC" bits 14 @ \$533.84	7,473.76
BQ 100 series bits 2 @ \$471.68	943.36
BQ Imp. Comb. bits 1 @ \$311.88	311.88
Tricone 1 @ \$156.50	156.50
BQ reaming shells 6 @ \$253.21	1,519.26
10' core barrels 3 @ \$63.15	189.45
5' core barrels 1 @ \$40.37	40.37
5' core tubes 2 @ \$93.71	187.42
BQ adaptor couplings 3 @ \$25.14	75.42
BQ locking couplings 5 @ \$117.75	588.75
BQ stabilizers 4 @ \$17.48	69.92

... /2

APR 26 1979

APPROVED: _____

BY: *[Signature]*

See page 3 & letter page 4

25/4

FIELD COST SUPPLIES cont'd

BQ landing rings 2 @ \$7.19	14.38
BQ core springs 10 @ \$5.40	54.00
BQ core lifter cases 6 @ \$16.80	100.80
BQ waterswivel spindles 2 @ \$61.42	122.84
BW stuffing box 1 @ \$231.52	231.52
Hydraulic pressure gauge 1 @ \$81.50	81.50
Pump gauge, sub and gaskets	95.76
Pump cups	23.96
Plastic hose and fittings	548.62
6 mil. plastic	51.45
Truck spring repair	53.20
Briggs and stratton engine repair (2)	200.00
Drive chain	110.72
Rod grease 4 cans @ \$24.00	96.00
Propane	53.00
Diesel Fuel	251.90
Propane heater repair	30.48
Tire repair	16.50
Freight	91.65
Field cost groceries	1,572.82
Oil 2 cases @ \$22.24	44.48
Gas	673.56
Wrench jaws 3 sets @ \$22.26	66.78
Telephone	1,395.07
Meals	722.72
Field cost accommodation	1,181.74
Cement	385.77
Drilling mud and additives	721.18
Water	436.00
D5 cat	320.00

RODS AND CASING DAMAGED BEYOND USE

10' BQ rods - 10 @ \$46.14	461.40
10' BW casing - 1 @ \$54.49	54.49
5' BW casing - 1 @ \$30.55	30.55
2' BW casing - 1 @ \$18.74	18.74

DEPRESSION WEAR

10' BQ rods - 20 @ \$46.14 - 50%	461.40
10' BQ rods - 20 @ \$46.14 - 25%	230.70
10' BW casing - 1 @ \$54.49 - 50%	27.24
5' BW casing - 7 @ \$30.55 - 50%	53.46

28,942.98 ✓
 2,894.29 ✓
 31,837.27 ✓

Plus 10%

2014

Total footage and field cost (from page 1)	\$38,753.75 ✓
Total field cost supplies, rods and casing damaged beyond use and abrasion wear (from page 2)	<u>31,837.27 ✓</u> 70,591.02 ✓
Less amount paid	60,000.00 ✓
Less bit recovery received by us	<u>1,770.56</u>
Balance due and owing	<u>5,000.00</u>
Less agreed loss figure	<u>3,820.46</u>
	<u>\$ NIL</u>

Diamond recovery will be forwarded as soon as it is received. ?

THANK YOU,

Ronald Mraz
RONALD MRAZ

APPROVED FOR PAYMENT

BY *[Signature]*

CHARGE 02-025-420-2130-203-3201 = 5000.00
ONLY

Final Invoice

APR 26 1979

INTERIOR DIAMOND DRILLING LTD.

RR NO 2 SUMMERLAND BC VCH 170

PHONE 494-3756

444

APR 20 1979

April 14, 1979

Esso Minerals Canada Limited
314 - 1281 West Georgia Street
VANCOUVER, B.C.
V6E 3J7

ATTENTION: Mr. C. Arid

Dear Mr. Arid:

Pursuant to the discussions of April 11th between yourself, Mr. Sommerville, my father and I, we are presenting a revised edition of our final invoice for the Chemainus project.

It was agreed that apart from the unusually difficult drilling problems, a force majeure existed due to floods and resultant access problems. Since Clause 20 of the drilling contract says neither company is liable for situations beyond its control, it was agreed that the two companies would share the cost of the unpaid portion of the contract billing as follows:

Total contract billing	70,591.02
Less: amount paid	<u>60,000.00</u>
Unpaid portion	10,591.02
Esso's share	5,000.00
Interior's share	<u>5,591.02</u>
	10,591.02

In addition it was agreed that Esso would forego the diamond recovery credit of \$1,770.56.-

The attached invoice has been adjusted accordingly and I trust that it will meet with your approval.

Yours truly,

R. Mraz
R. Mraz

RM/lm

FEB 15 1979 FEB. 15 1979

MESSO MINERALS CANADA LTD.,

314-1281 WEST GEORGIA ST.

In Account With
Doit A

INTERIOR DIAMOND DRILLING LTD.,

R.R. #2, SUMMERLAND, B.C. V0H 1Z0.

Terms / Conditions

INTERM PAYMENT CHEMAINUS DRILLING PROJECT	\$ 35,000.00
INVOICED BY	
<i>Ronald May</i>	
THANK YOU.	
APPROVED FOR PAYMENT	
BY: <i>D. A. [Signature]</i>	
CHARGE 02-025-420-2130-203-32d	
<u>NB Check 1978 liabilities</u>	

*Invoice dated 2/17/79
Lang Willis
important sent out*

Sent to Edm.

Feb. 26/79

INVOICE (E)

DEC 28 1978

MESSO MINERALS CANADA LTD,
314-1281 WEST GEORGIA ST.

In Account With
Doit A INTERIOR DIAMOND DRILLING LTD,
R.R. #7, SUMMERLAUD, B.C. V0H 20

Terms/Conditions

	<p>INTERIM PAYMENT CHAMALUS DRILLING PROJECT.</p> <p>JAN 2 RECD</p> <p>INITIATED BY <i>Ronald May</i></p> <p>THANK YOU.</p> <p>NB check 1978 liabilities APPROVED FOR PAYMENT BY <i>W. Starnie</i></p> <p>CHARGE 02-025-420-2130-203-3201</p>				<p>15,000.00</p>
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Chq sent out by Calgary - Jan. 25/79

INTERIOR DIAMOND DRILLING LTD.
RR. 2, SQUAM-LAND, B.C.

TO/A
ESSO MINERALS CANADA LTD.
314 - 1281 WEST GEORGIA ST.,
VANCOUVER, B.C. V6E 3J7.

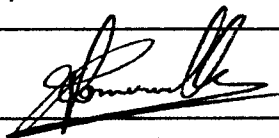

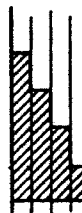
Terms / Conditions









Date OCT. 20 1978

	<p>INTERIM PAYMENT CHEMAINUS DIAMOND DRILLING PROJECT —</p>		<p>\$10,000.00</p>
<p>THANK YOU <i>Ronald May</i></p>			
<p>APPROVED FOR PAYMENT BY <i>M. H. [Signature]</i> CHARGE 02-025-420-2180-203-3201</p>			

OCT 25 1978

DRILL LOG

PROJECT <i>CHEMAINUS PROJECT</i>	GROUND ELEV.
HOLE NO. <i>CHEM # 1</i>	BEARING <i>020 Az</i>
LOCATION <i>on SHARDN GRID on LSW at 30^m North of 2+005 (1+105) on BRENT #1 CLAIM</i>	DIP <i>45° 20'</i>
	TOTAL LENGTH <i>306'</i>
LOGGED BY <i>R Somerville</i> 	HORIZONTAL PROJECT
DATE <i>SEPT 1978</i>	VERTICAL PROJECT
CONTRACTOR <i>INTERIOR DIAMOND DRILLING</i>	ALTERATION SCALE  absent slight moderate intense
CORE SIZE <i>B. Q.</i>	TOTAL SULPHIDE SCALE  traces only < 1% 1% - 3% 3% - 10% > 10%
DATE STARTED <i>SEPT 8 178</i>	
DATE COMPLETED <i>SEPT 18 178</i>	
DIP TESTS	
COMMENTS <i>collar 3' at 45° from ground level.</i>	LEGEND <i>lt - light m. - medium sl - slightly chl. - chloritic poss. - possibly bx^d - brecciated vfg - very fine grained fg. - fine grained m.g - med. grained c.g - coarse grained</i>

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%		COMPOSITE ASSAYS
		10							
		20							
25'-25.5 6" 5% py									
		30							
35'-36 5' 6" disseminated py over 6"									
strong pyrite along fracture @ 35° vuggy		40							
		50							
		60							
61-61.8 10% py along fractures mainly at 35°, occ at 50° traces of dark mineral - may be bornite									
		70							
66-67 5% disseminated py occ along fracture planes									
69-72 3% disseminated py occ along fracture planes									
70 dark mineral at 70' 60°									
74-75 10% py + dark min 60°		80							
75-93 3-5% py disseminated and conc on fractures at 15° to 50°									
		90							

DEPTH (FT)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					SER	CHLOR				
					A	B	C	D	E	
93-127				heavy hematite stain along fracturing - largely braided						
93-				predominant direction of fracturing @ 25°						
104				" " " " @ 45°						
101-112				core badly broken, vuggy and rusty						
106-112				lt grey to m. green (under lam) poss. sl chlc						
115'				predom angle of fracturing at 55°						
120-127				core mod broken						
127-5-136.5				<u>ANDESITE</u> sig to v. sig m. green streaked with leucoxene int. qtz crystals						
127-142				core badly broken						
136.5-149				<u>QUARTZ EYE SCHIST</u> as above rusty lt. grey						
136.5-151.5				badly stained						
145.5-146.5				bx'd fault zone cemented together with hematite						
149.5				1" fault as in 145.5-146.5 at 65°						
157.5-168				lt grey green - m. grey green st. chlc						
168-169				rusty brown bx'd						
169-173.5				banding at 35° - 70°						
169-173.5				<u>CHERTY TUFF</u> v. sig lt. grey siliceous cherty 1 cm banded v. py contorted in drag folds						
173.5-				<u>SERIKITE-QUARTZ SCHIST</u> v. sig lt. grey						

PAGE 4 OF 8		PROJECT: CHEMPINGS					HOLE NO. CHEM-1				
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	oz/Ton	oz/Ton	COMPOSITE ASSAYS	
					Cu	Zn		Ag	Au		
93-106 < 3% disseminated py											
dissem											
		100									
106-110 3-5% disseminated py											
		110									
110-127 < 3% disseminated py											
		120									
127-137 1% disseminated py											
		130									
137-144 < 1% py											
		140									
144.5-145.5 15% banded py @ 35°			1	1507	0.017	0.07		0.10	0.007		
145.5-151.5 5-10% py											
151.5-152.5 0.5 + 1.5" heavy py tr cp? bands at 40° & 20°			1	1308	0.022	0.08		0.05	0.005		
152.5-168 3% py											
		160									
168-174 10% banded py - some dissem											
		170									
174-180 3% disseminated py, occ (1/4") band 1/4"-1/2" mass py											
		180									


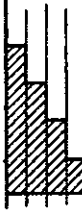
DEPTH (FT)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					SERICITE A	B	C	D	E	
173.5-292.5				badly broken core SERICITE - QUARTZ SCHIST vsg, lit. grey, well schistose core appears in "buttons" quartz monocrystals are small and not too frequent. soft and somewhat friable 6" rusty hematite staining						
189				badly broken core						
175-182				broken & "buttoned"						
182-199				strongly br ^d hematite stained						
198-201				very sericitic and poss some clay development vaguely fragmental						
201-236				badly broken core						
199-206				badly broken core some obviously lost						
209-213										
223				strongly br ^d hematitic stained fracture zone fault?						
226-268				strongly altered - clay sericite strongly shd - hematite sul ^d light grey totally bleached						
237-244				badly broken core - some patches of hematite staining						
244-248				Smashed core - muddy fault gouge - major shear zone						
250.5-256				as in 244-248						
268-292.5				mod altered lit grey bleached						

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%		oz/Ton		COMPOSITE ASSAYS
					Cu	Zn	Ag	Au	
180-205 3-5% dissem py some banding evident	/								
184 banding in py at 90° irreg 184 banding in py at 30° along fractures	/	190							
187, 188 splash cpy 190.5 splash cpy 193 splash cpy 196-197 20% py banded at 60°	/	200							
205 - 2" @ 20% dissem py 205-209 5% dissem and banded at 45° + 30° py 209-218 < 3% py	/	210							
218-228 3-5% py	/	220							
225 - 1.5" massive py @ 70°	/								
228-236 < 3% py	/	230							
236-237 2x1" massive py @ 30° 237-250 3-5% py	/	240							
250-250.5 5" 60% py @ 40° 250.5 - 259 5% py mainly dissem 257 - 267	/	250		101309	0.192	0.08	0.11	0.004	
259-261.5 heavy 25% - 75% pyrite 261.5 - 292.5 generally 5% py with short seqs of 10-30% py in bands	/	260							
	/	270							

DEPTH (FT)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					SERICITE A	CHLORITE B	C	D	E	
280	96									
290	98									
300	98			<p>292.5-306.5 Chloritic Quartz Eye Schist 5.5 m. grey-green mod to well schistose good quartz eyes uniformly chloritic with bright green patches in and around sulph. 292.5-306.5 L-390 py 306.5 END</p>						

PAGE 8 OF 8	PROJECT: <i>CHEMAINUS</i>					HOLE NO. <i>CHEM 2</i>				
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	oz/Ton	oz/Ton	COMPOSITE ASSAYS
					Cu	Zn		Ag	Au	
<i>276-277 heavy sulph - waxy bands at 40°</i>										
		280								
<i>281-282 as in 276-277</i>										
<i>284-285 as in 276-277</i>										
<i>286-287 as in 276-277</i>										
<i>291.5-292.5 5" massive py</i>		290		<i>1310</i>	<i>0.393</i>	<i>0.07</i>		<i>0.16</i>	<i>0.002</i>	
<i>297.5-306.5 3 1/2" py</i>										
		300								
		310								

IMPERIAL OIL LIMITED
MINERALS SECTION
DRILL LOG

PROJECT <i>CHEMAINUS - 2130</i>	GROUND ELEV.
HOLE NO. <i>CHEM # 2</i>	BEARING <i>027°</i>
LOCATION <i>collar on L 4W @ 2123N</i> <i>ON QRI CLAIM</i>	DIP <i>45°</i>
	TOTAL LENGTH <i>257'</i>
LOGGED BY <i>R. SOMERVILLE</i>	HORIZONTAL PROJECT <i>182</i>
DATE	VERTICAL PROJECT <i>182</i>
CONTRACTOR <i>INTERIOR DIAMOND DRILLING</i>	 <p>ALTERATION SCALE</p> <p>absent slight moderate intense</p>
CORE SIZE <i>BQ</i>	
DATE STARTED <i>SEPT 18/78</i>	 <p>TOTAL SULPHIDE SCALE</p> <p>traces only < 1% 1% - 3% 3% - 10% > 10%</p>
DATE COMPLETED <i>SEPT 30/78</i>	
DIP TESTS	
COMMENTS	LEGEND

DEPTH (F T)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
0-35				Overburden - very difficult to drill - glacial boulders and gravel						
35-43										
35-43				Andesite fg turning m green uniform texture not conductive -recovery only small fragments and rounded "marbles" - may not be o/c						
43-47	25%			5" core recov						
43-97.5	11%			GRAPHITIC TUFF black, vfg, laminar bedding at 55°, v strongly fractured and laced with thin quartz filled fractures & QC veinlets						
47-68	8%			only fragments of core recovered and those are very siliceous unable to scratch with knife but approx 60% are v. conductive graphite smeared on fracture surfaces						
73-88	65%			good bedding at 45° - pyritic some individual laminae 1-5 mm thick over half the laminae are st to very conductive						
88-97				6" core recovered						
97.5-101	< 1%			DACITE fg sugary texture uniform appearance. It is very well fractured - all fractures coated with py - st. turned conductive						

30

40

50

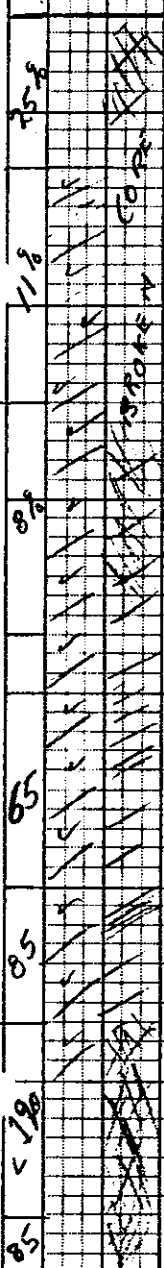
60

70

80

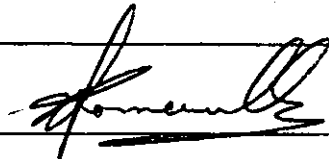

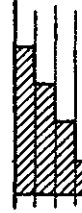
90

100



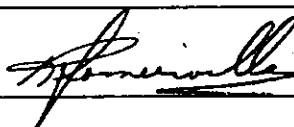


MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%		COMPOSITE ASSAYS
		30							
43-84 to py aligned along bedding planes and particularly concentrated in lt. coloured siliceous bands		40-50							
		60							
		70							
84-88 - 1-3% py in blebs and fine beds up to 2-3 mm	✓	80-90							
75-101 5% py disseminated throughout rock in fine blebs and fine structure fillings of pyrite 1-3 mm.	✓	90-100							

DRILL LOG

PROJECT <i>CHEM AINWS - 2130</i>	GROUND ELEV.
HOLE NO. <i>CHEM No 3</i>	BEARING <i>012°</i>
LOCATION <i>collar is 0+56' north of B.L.'B'</i> <i>on L48 W ON OAK No 2 CLAIM</i>	DIP <i>45°30'N</i>
	TOTAL LENGTH <i>154</i>
LOGGED BY <i>R. SOMERVILLE</i> 	HORIZONTAL PROJECT <i>108'</i>
DATE	VERTICAL PROJECT <i>110</i>
CONTRACTOR <i>INTERIOR DIAMOND DRILLING</i>	 <p>ALTERATION SCALE</p> <p>absent</p> <p>slight</p> <p>moderate</p> <p>intense</p>
CORE SIZE <i>BQ</i>	
DATE STARTED <i>SEPT 30 1978</i>	 <p>TOTAL SULPHIDE SCALE</p> <p>traces only</p> <p>< 1%</p> <p>1% - 3%</p> <p>3% - 10%</p> <p>> 10%</p>
DATE COMPLETED <i>OCT 5 1978</i>	
DIP TESTS	
COMMENTS <i>VERY BADLY FRACTURED ROCK</i> <i>VERY DIFFICULT drilling</i>	LEGEND

DEPTH (FFFT)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
0-23				CASING						
20				23-47 ANDESITE f. gray to brown to migren only recovered as <1" pebbles and angular fragments - chloritic						
40				40-47' 6" massive chert recovered						
				47-57 LOST CORE black graphitic sludge GRAPHITIC ARGILLITE?						
60				57-61 a few fragments of black cherty ARGILLITE - high conductivity						
				61-68 ANDESITE as above						
				68-75 Cherty Tuff m. grey, v. fg, v. siliceous, strongly fractured sl. pyritic						
80				75-112 ANDESITE f. g. to mig. migren chloritic						
				95' 1" Quartz vein @ 30° - traces of realgar						
100				112-124 Black Cherty Tuff black, v. fg, v. siliceous sl bedded strongly fractured						
120				124-154 CHERT m. grey v. strongly fractured very siliceous v. fg to ghsay occ section with faint tuffaceous bedding at 70° rarely well-bedded & pyritic						
				124-130 370 Py						
140				130-154 190 Py						
				END NOTE: all rocks very well fractured at many angles containing v. fine veinlets and hairline quartz fillings						
160										
180										

DRILL LOG

PROJECT <i>CHEMAINUS</i>	GROUND ELEV.
HOLE NO. <i>CHEM # 4</i>	BEARING <i>003°</i>
LOCATION <i>10 + 75' North on L112W to collar. on ORK No 3 CLAIM 2.5' @ 45° from collar to ground</i>	DIP <i>- 45°</i>
	TOTAL LENGTH <i>247'</i>
LOGGED BY <i>R. SOMERVILLE</i> 	HORIZONTAL PROJECT <i>175'</i>
DATE	VERTICAL PROJECT <i>175'</i>
CONTRACTOR <i>INTERIOR DIAMOND DRILLING</i>	 <p>ALTERATION SCALE</p> <p>absent slight moderate intense</p>
CORE SIZE <i>BQ</i>	
DATE STARTED <i>OCT 12 1970</i>	 <p>TOTAL SULPHIDE SCALE</p> <p>traces only < 1% 1% - 3% 3% - 10% > 10%</p>
DATE COMPLETED <i>OCT 29 1978</i>	
DIP TESTS	
COMMENTS <i>hole repeatedly cemented</i>	LEGEND

DEPTH (FEET)	% Co. Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
0-15				Overburden sand and boulders - very difficult to drill						
15-26				<u>Altered Gabbro ??</u> - recovery negligible						
26				at 26' white drilling cement the string wedged off and started a new hole						
26-57				<u>Altered Gabbro</u> - rusty brown to olive green granular v. soft. All feldspars etc completely altered to clay. Mafics to epidote						
57-59				No recovery						
59-174				<u>Graphitic Cherty Amphibolite</u> drill return water turns black at 59' only fragments up to 1" recovered. In occ. disc recovered bedding evident at 60-70° - black v. cherty generally sl. graphitic 154-170 v. graphitic good - fair conductor shattered and fractured in most sections and infused with Q veinlets at many angles						

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%				COMPOSITE ASSAYS
		10									
		20									
		30									
		40									
		50									
		60									
59-172.5 as fine bands in argillite bed or as fine disseminations											
		70									
		80									
		90									



DEPTH (FT)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
100	✓	✓								
120	✓	✓								
140	✓	✓								
174	✓	✓		contact sharp at 80°						
174-176.5	✓	✓		Silicified Cherty Tuff v.s. gray patches to light gray strongly fractured and infused with vfg. py.						
176.5-177	✓	✓		Graphitic Cherty Tuff epiclastic well bedded fragmental tuff. Sags - sil ^d chert and black chert and quartz in black matrix of fine ash. 176.5 contact sharp at 65° bedding at 60°-65°						
177-220	✓	✓		Rhyolite Tuff f.g. to vfg well bedded with fine laminae of ash - some of which exhibit first stages of welding or ash flow tuff thin beds of pyrite common at 180 but decreasing up to 200 After 190 siliceous nature decreases sl and colour changes to lt. tanned green becomes more chloritic. More prevalent at 200 - Ductile Tuff						
240	✓	✓								
260	✓	✓								

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%			COMPOSITE ASSAYS
		100								
		120								
		140								
		160								
177-180 10% good bedded pyrite up to 1/2" massive bands		180								
180-193 3-5% bedded py with occ stringer py along fine quartz str		200								
193-200 3% - 1% py bedded 1/2" in str.		220								
200-210 - 1% py		240								
210 < 1% to trace py		260								

DEPTH (FT)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
				acc fine quartzite $\frac{1}{4}$ or less at acute angles normally along bedding bedding at 65-75°						
				210 colour changes from uniform m. green to alternate m. green and m. purple-grey as some portions with tuff appear to be hematite stained sl						
				220-221 irreg contacts Siderite <u>gabbro-diorite</u>						
				236-247 75% core is hematitic purple-grey tuff - sub arial?						
				247 END						

Sampler	Footage	PPM Cu	PPM Pb	PPM Zn	PPM Ag	PPb Ad
R1	67-77'	180	39	200	28	25
R2	77-84'	195	56	250	58	20
R3	92-97'	142	37	320	40	15
R4	97-107'	159	18	360	36	25
R5	107-113'	138	40	340	31	60
R6	117-121'	126	25	320	28	20
R7	127-137'	300	37	425	32	10
R8	137-147'	270	23	310	31	5
R9	147-157'	225	29	210	24	15
R10	157-167'	167	55	126	18	15
R11	170-177'	168	46	134	100	25
R12	177-187'	325	27	178	84	25

IMPERIAL OIL LIMITED
MINERALS SECTION
DRILL LOG


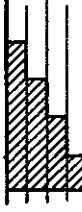
PROJECT <i>CHEMAINUS</i>	GROUND ELEV.
HOLE NO. <i>CHEM NO 5</i>	BEARING <i>360°</i>
LOCATION <i>L 132W 5+00' North of BLC' or 15+00N ON OAK No 3 CLAIM</i>	DIP <i>- 45°</i>
	TOTAL LENGTH <i>198'</i>
LOGGED BY <i>R. SOMERVILLE</i>	HORIZONTAL PROJECT <i>140'</i>
DATE <i>APRIL 9, 1979</i>	VERTICAL PROJECT <i>140'</i>
CONTRACTOR <i>INTERIOR DIAMOND DRILLING</i>	<p style="text-align: center;">ALTERATION SCALE</p>  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE <i>B. Q.</i>	<p style="text-align: center;">TOTAL SULPHIDE SCALE</p>  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE STARTED <i>NOV 12 1978</i>	
DATE COMPLETED <i>NOV 18 1978</i>	
DIP TESTS	LEGEND
COMMENTS	

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%		COMPOSITE ASSAYS
31-47 2% py - mainly along fractures	/	30							
47-57 3-5% py mainly along fractures	/	40							
57-67 2.1% py	/	50							
67-85 5-10% py	/	60							
	/	70							
	/	80							
85-100 3% py in fracturing in siliceous rock and along bedding	/	90							
100-142 1-3% py gradual decrease from above	/	100							
	/	110							

DEPTH (FT)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
120	95			approx 30 fractures to the foot @ many angles, most predominant are 30° 20° 0° 70°						
				130-150 Bedding constant @ 50°-55°						
				125-130 Bedding increasing from 35°-50°						
130	98									
				micro faults at 45° - offset 1/4" - 3/4" - 1 or 2 / foot						
140	99			138-140 frequent small (1mm) elongate white fragments						
				147-155 bedding very distinct at 50°-55° - 1 or more						
160	97			155-198 RHYOLITE END sharp irregular contact at approx 50° vs. maroon-grey colour v. light grey silicification following old structures well fractured at many angles structures lined with carbonate.						
170	91			157.5-162.5 mgrey-green clastic as in 85-155						
180	95									
				162-197 alternating bands of maroon coloured silica (silicification?) and buff brown, lt green, dark green, olive green, lt grey, m. grey v. strongly fractured & carb filled - bedding constant at 60°-65°						
190	96			191-198 clay altered - related to "fault"?						
200	95			197-198 Fault gouge. 198 End.						

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%		COMPOSITE ASSAYS
		120							
		130							
		140							
142-156 390 - 590 py - mainly following fracture but 1% dissemin. occ patch of heavy py on 1"	/	150							
156-198 - 1-390 py.	/	160							
		170							
		180							
		190							
		200							

DRILL LOG

PROJECT <i>CHEMAINUS</i>	GROUND ELEV.
HOLE NO. <i>CHEM #6</i>	BEARING <i>040°</i>
LOCATION <i>ON CLAIM VV LAW @ 200' south of B.L.V</i>	DIP <i>45°</i>
	TOTAL LENGTH <i>307</i>
LOGGED BY <i>R. SOMERVILLE</i>	HORIZONTAL PROJECT <i>217</i>
DATE <i>MARCH 28, 1979</i>	VERTICAL PROJECT <i>217</i>
CONTRACTOR <i>INTERIOR DIAMOND DRILLING</i>	<p>ALTERATION SCALE</p>  <p>absent slight moderate intense</p>
CORE SIZE <i>B.Ø</i>	
DATE STARTED <i>Nov 27 1978</i>	
DATE COMPLETED <i>DEC 13, 1978</i>	
DIP TESTS	<p>TOTAL SULPHIDE SCALE</p>  <p>traces only < 1% 1% - 3% 3% - 10% > 10%</p>
COMMENTS	LEGEND

DEPTH (FEET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY #/bit	
					CaCO3 A	GARNET B	CHLORITE C	BIOTITE D	SILICA E		
0-64				<u>Overburden</u> boulder till - boulders consist mainly of Hornblende G.D and basalt (Karmutsen?) + a number (10%) of smaller frags of cherty tuff							
64-65.5				<u>BLACK ARGILLITE</u> vfg black siliceous graphitic pyex along bedding at 30° in op. dir.							
65.5-73				sharp contact at 65.5 marked by 3 cm thick thin bedded chert <u>DACITE TUFF</u> f.g - v.f.g m. grey to dark grey green well bedded at 20-35° some thin beds are partly or almost completely skarnified to a red brown, f.g. garnet skarn gradual to a breccia							
73-108				<u>SKARN BRECCIA</u> fragments angular to subrounded generally at least partly skarnified strongly silicified matrix f.g - v.f.g m. grey alt. diorite							
76-79				subhedral development in red brown garnets giving spotted appearance to the core							
65.5-92				25-30% garnet skarn							
92-108				10-20% garnet skarn							
73-108				see large - small patches of biotite alteration - purple-brown - pass after fragments, see patch (one cm 2') of development of secondary(?) K spn puffy streaks of calcite? QL veins @ 2/ft							
108-122				<u>Altered Silicified Breccia</u> 108-114 - v.f.g m. grey mottled strongly silic - cherty, banding @ low angles to core 5-10% skarn parallel to bedding(?) cut by diorite dykes @ 100% angle to 60° to 0°							
114-122				bit, vuggy 50% patchy devel of secondary K spn & garnet skarn							
122-125				<u>DIORITE</u> f.g. m. grey, brownish-purple tints see. biotite cut by cherty str @ 0°							

140

PAGE 2 OF 6		PROJECT: CHEMAINLS - 2130				HOLE NO. CHEM No 6			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS	
					Cu	Mo		Au	Ag
64-65.5 15% pyr in 1-5mm bands parallel to bedding @ 60°-65° to bedding		60							
65.5 - 73 10-15% pyr & py frequently bedded, less commonly dissem - concentrated around heavy skarn patches		70							
68' speck e py									
73-108 - 10-15% pyr & py py more dissem pyr freq in situ v. f. sulph		80							
		90							
		100							
108-114 5-10% pyr to py		110							
114-122 vuggy 10-15% pyr 5% py trace sp		120	8	1355	0.022	0.003		0.001	0.08
122-125 5% pyr & py									
125-128 10% pyr & py									
128-133.5 10% pyr 5% py Some good splashes epy in bleached skarn & mass garnet patches		130							
33-5-155.5-10% pyr (2:1) py			5.5	1356	0.117	0.004		0.005	0.09
@ 150' good splash epy									
		140							

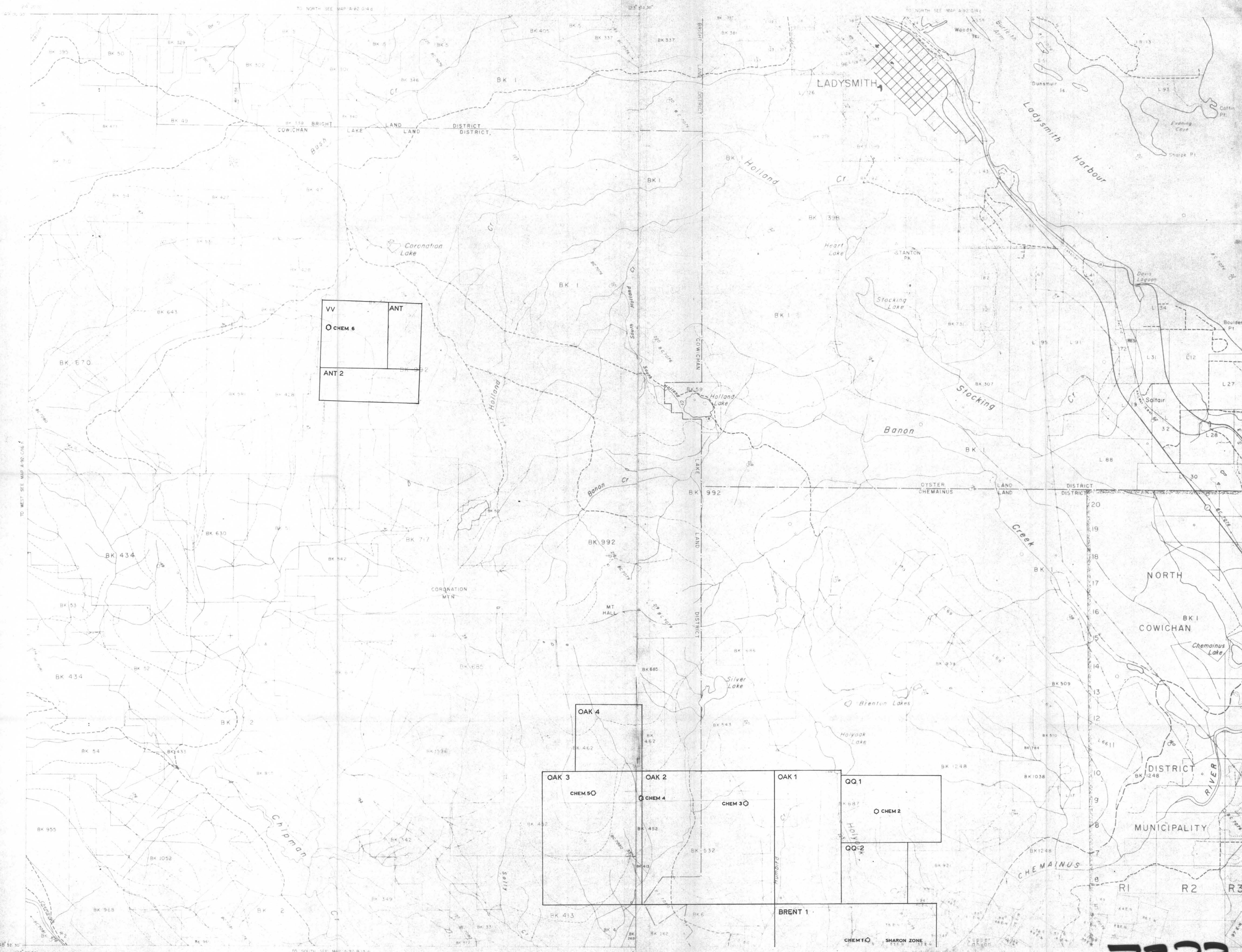
DEPTH (FT)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						
					Ca (O ₃) A	SMALITE B	CHLORITE C	BIOTITE D	STAUER E	FRACT INTENSITY	
125-128				<u>DACITE TUFF</u> dark grey to m. grey, v. siliceous cherty - well bedded, py parallel to bedding planes							
128-192				<u>STARN BASSALT</u> fig. lt. grey green to m. grey matrix with irregular altered patchy fragments, coarse irreg patches of bright reddish brown garnet - up to 25% in some areas some patchy lt colored bleaching and some patchy brown purple biotite							
137				Replaced fragments up to 8 cm fresh coarse garnet veinlet along core cutting several 2 to 3 cm patches of lt. rusty orange garnet and biotitic pyroclastic "fragments", veinlet lined with lt. green to bleached white siliceous "reaction rim" (albite?)							
127-187				Albite common rimming coarse garnet patches and lining fracture walls, frequently associated with late garnet. Albite appears to cause retrograde chlorite reaction with biotite frags							
171-192				matrix changed abruptly to m. green chls coincident with decrease in Albite and garnet							
192-235				heavy secondary biotite 195-198 near massive biotite							
197-231				original texture of core largely obscured by biotite alteration but occasional sections with light alteration suggest that the dynamic brecciation apparent above in the Starn has been replaced by...							
192-231				<u>FRAGMENTAL TUFF</u> fig. m. grey green to m. grey fragments are rounded to angular, dark green chls to bone white and siliceous. some larger fragments of white siliceous composition have been observed with cores of garnet and some with wavy chlorite texture							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%			COMPOSITE ASSAYS	
					Cu	Mo		Au	Ag
133.5 - 155.5 5-10% pyr & py 2:1									
150' - good splash of cpy		150							
152.5 good scattered malghden over 3"			35	1337	0.028	0.015		0.001	0.07
152.0 - 155.5 several small scattered patches & specks of MoS ₂ 5% pyr & tr py		160	6.5	1338	0.024	0.006		0.001	0.06
155.5 - 162 - rare specks MoS ₂ 3-5% pyr									
162 - 175 - 3% pyr & tr py									
175 - 192 - 1-3% pyr & tr py									
		170							
179 - 181 good splashes of cpy in skarn (garnet)		180							
185 - one patch of garnet skarn with splash cpy.									
		190							
192 - 217 1% or less pyr & py with occ patch of 3% sulphides									
		200							
		210							
217 - 232 < 1% - with occ patches of 3% pyr & py									
		220							
227 small 1/4" fracture at 80° laced with cpy and a few specks of pyr & py.		230							

214-207 258a but found some from

DEPTH (FT)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					Calcite A	B	Epithermal C	D	Biotite E	
230				200-210 slightly fragmental appearance 210-214 v little tuffaceous or frag'l appearance sl. development of garnet 214-217 bands of dark biotite and lighter mg-green chlorite on about 2mm spacing @ 80° at 214 decrease to about 30° - healed fracturing on pass bedding						
240				217-219 heavy biotite 219-231 as in 200-210 231-241 near massive biotite 241-252 med sheared @ 65°, 60°, 40° irregular patchy heavy biotite in a mg-green green chloritic matrix						
250				Low angle weak late fractures at 0-30° 241-252 Andesite contact at 252' @ 35° v. sharp						
26				252- FRAGMENTAL TUFF 2mm @ 35° 3cm @ 80° QL frag matrix mg-green green fragments on shreds varying from subrounded brown large biotite to white, or green with white rims and smaller (1-2mm) biotite fragments up to 5cm, occ sections of dark green chlorite fragments in the 1m to 1cm range						
270				small (1-2mm) xals of chlorite, augite (?) are evident throughout						
280				252-274 mainly small fragments v. little biotite 274-307 25% biotitized large fragment low angled veins of calcite with late development of garnet also matrix replacement (?) with calcite						
290				274-280 and 293-307						
300				307 END OF HOLE						

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%		COMPOSITE ASSAYS
	/								
	/								
	/								
	/								
	/	230							
232-252 L 19% pyr & py some sections have no noticeable sulphides heavily biotitized sections have 1-3mm blebs of pyrr scattered throughout	/								
	/								
	/	240							
	/								
	/								
	/	250							
	/								
	/								
	/	260							
	/								
	/								
	/	270							
274-280 19% coarse py in calcite assoc with garnet	/								
	/								
	/	280							
	/								
	/								
	/	290							
	/								
	/								
	/	300							
299-307 as in 274-280	/								
	/								
	/								
End of hole	/								



- SYMBOLS**
- Drift-covered area: [Symbol]
 - Rock outcrop, area of outcrop, float: [Symbol]
 - Geological boundary (defined, approximate, interpreted): [Symbol]
 - Bedding, tops known (horizontal, inclined, vertical, overturned, dip unknown): [Symbol]
 - Bedding, tops unknown (inclined, vertical, dip unknown): [Symbol]
 - Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown): [Symbol]
 - Lineation, axes of minor folds (horizontal, inclined, vertical): [Symbol]
 - Drag fold (arrow indicates plunge): [Symbol]
 - Fault (defined, approximate, interpreted): [Symbol]
 - Fault (inclined, vertical): [Symbol]
 - Fault (solid circle indicates downthrow side, arrows indicate relative movement): [Symbol]
 - Thrust fault (approximate, interpreted): [Symbol]
 - Shearing and dip: [Symbol]
 - Joint (horizontal, inclined, vertical, dip unknown): [Symbol]
 - Syncline (defined, approximate): [Symbol]
 - Anticline (defined, approximate): [Symbol]
 - Anticline and syncline (overturned): [Symbol]
 - Intensity (weak, moderate, strong): [Symbol]
- Trench: [Symbol]
 - Adit or tunnel: [Symbol]
 - Rock dump or tailing: [Symbol]
 - Quarry or mine: [Symbol]
 - Shaft, raise, winze: [Symbol]
 - Diamond-drill hole: [Symbol]
- Contours: 2500 C.I.
 - Stream or creek (Perennial, intermittent): [Symbol]
 - Marsh: [Symbol]
 - Lake: [Symbol]
 - Road: [Symbol]
 - Jeep Road: [Symbol]
 - Trail: [Symbol]
 - Trees: [Symbol]

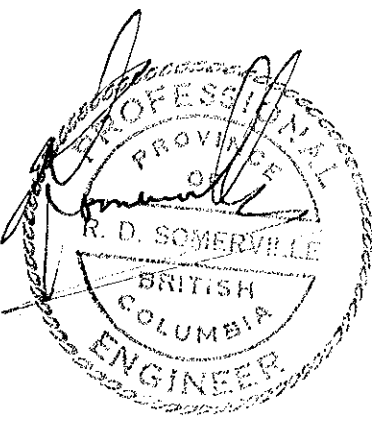
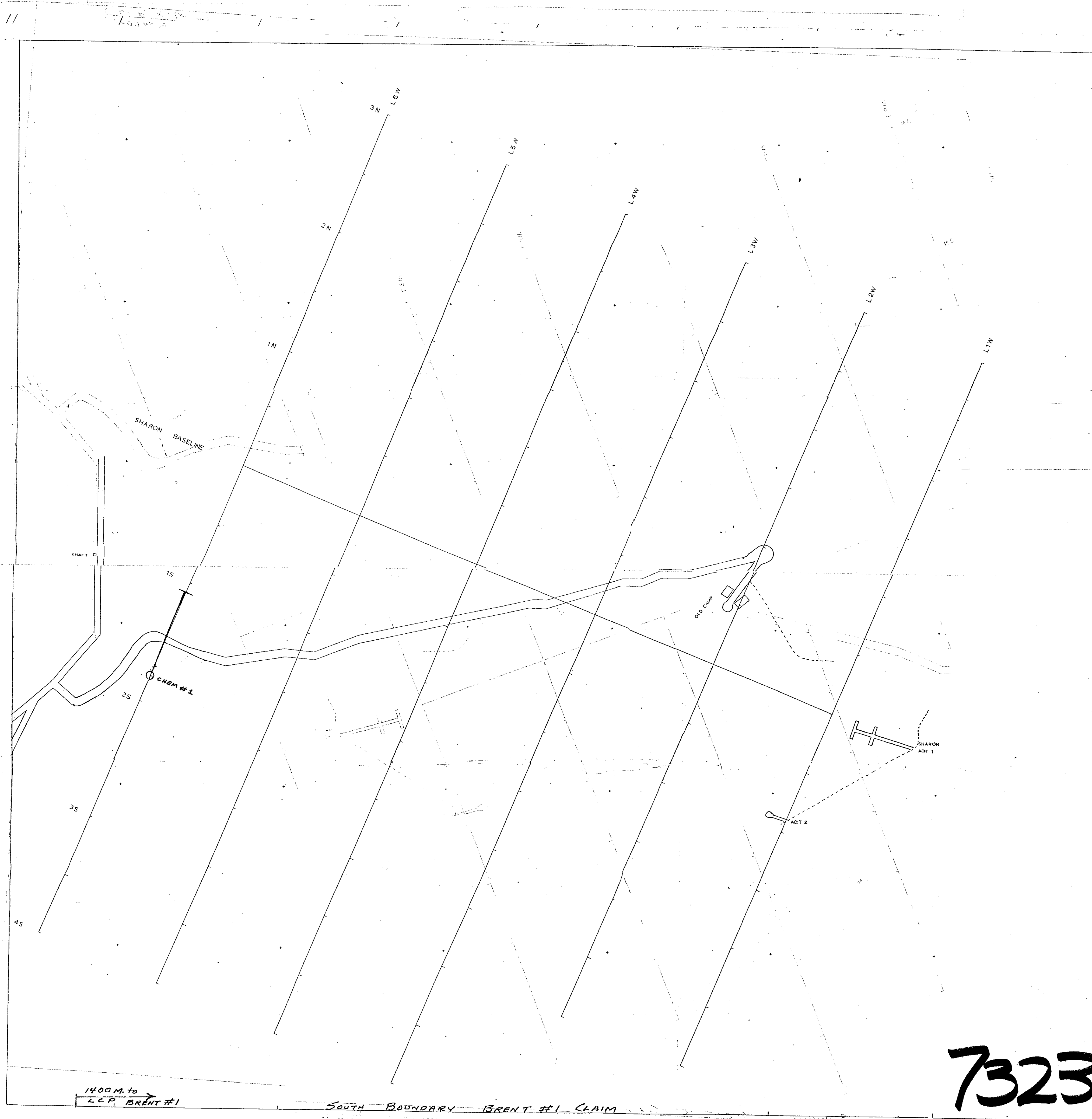
IMPERIAL OIL LIMITED - MINERALS
CHEMAINUS CLAIMS LOCATION
 NANAIMO VICTORIA
 Project No. 2130 Mining Division
 Latitude 48° 53' Longitude 123° 45'
 NTS 92B 13e&f
 To Accompany A Report By **R. Somerville**
 Dated **July 1979** Map No. **3**

7323

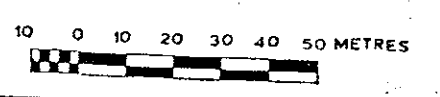
92B/13e

92B/13f

92B/13f



- SYMBOLS**
- Drift-covered area
 - Rock outcrop, area of outcrop, flow
 - Geological boundary (defined, approximate interpreted)
 - Bedding, tops known (horizontal, inclined, vertical, overturned, dip unknown)
 - Bedding, tops unknown (inclined, vertical, dip unknown)
 - Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown)
 - Lineation, axes of minor folds (horizontal, inclined, vertical)
 - Dragfold (arrow indicates plunges)
 - Fault (defined, approximate, interpreted)
 - Fault (defined, vertical)
 - Fault (fault circle indicated downthrow side, arrows indicate relative movement)
 - Thrust fault (approximate, interpreted)
 - Shearing and dip
 - Joint (horizontal, inclined, vertical, dip unknown)
 - Syncline (defined, approximate)
 - Anticline (defined, approximate)
 - Anticline and syncline (overturned)
 - Inequality (weak, moderate, strong)
-
- Trench
 - Adit or tunnel
 - Rock dump or tailing
 - Quarry or mine
 - Shaft, raise, winze
 - Diamond-drill hole
-
- Contours — 2500 — C.I.
 - Stream or creek (perennial, intermittent)
 - Marsh
 - Lake
 - Road
 - Jeep Road
 - Trail
 - Trees



IMPERIAL OIL LIMITED - MINERALS

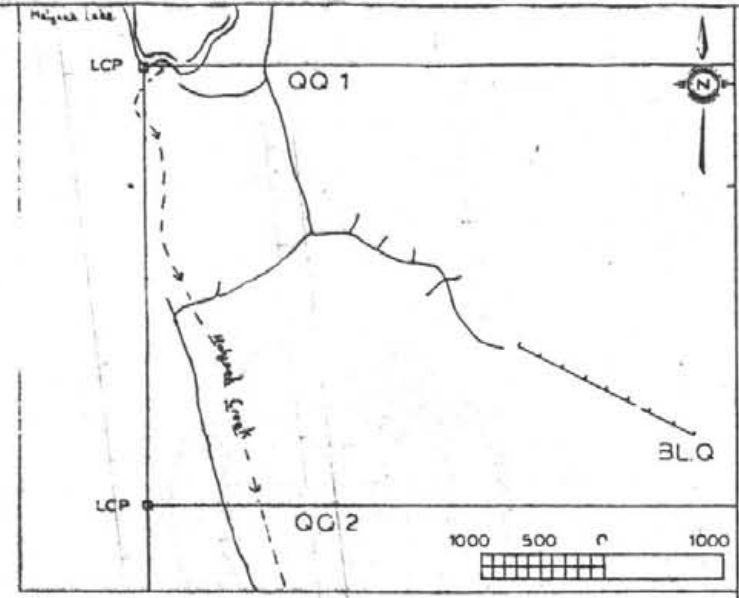
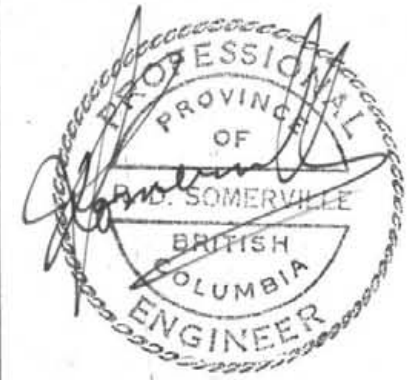
**CHEMAINUS - SHARON ZONE
DDH CHEM # 1 LOCATION**

Project No. 2130 Mining Division VICTORIA
 Latitude 48° 57' Longitude 128° 50'
 NTS 92 B/13
 To Accompany A Report By: R. Somerville P. Eng.
 Date: July 79
 Map No. 4

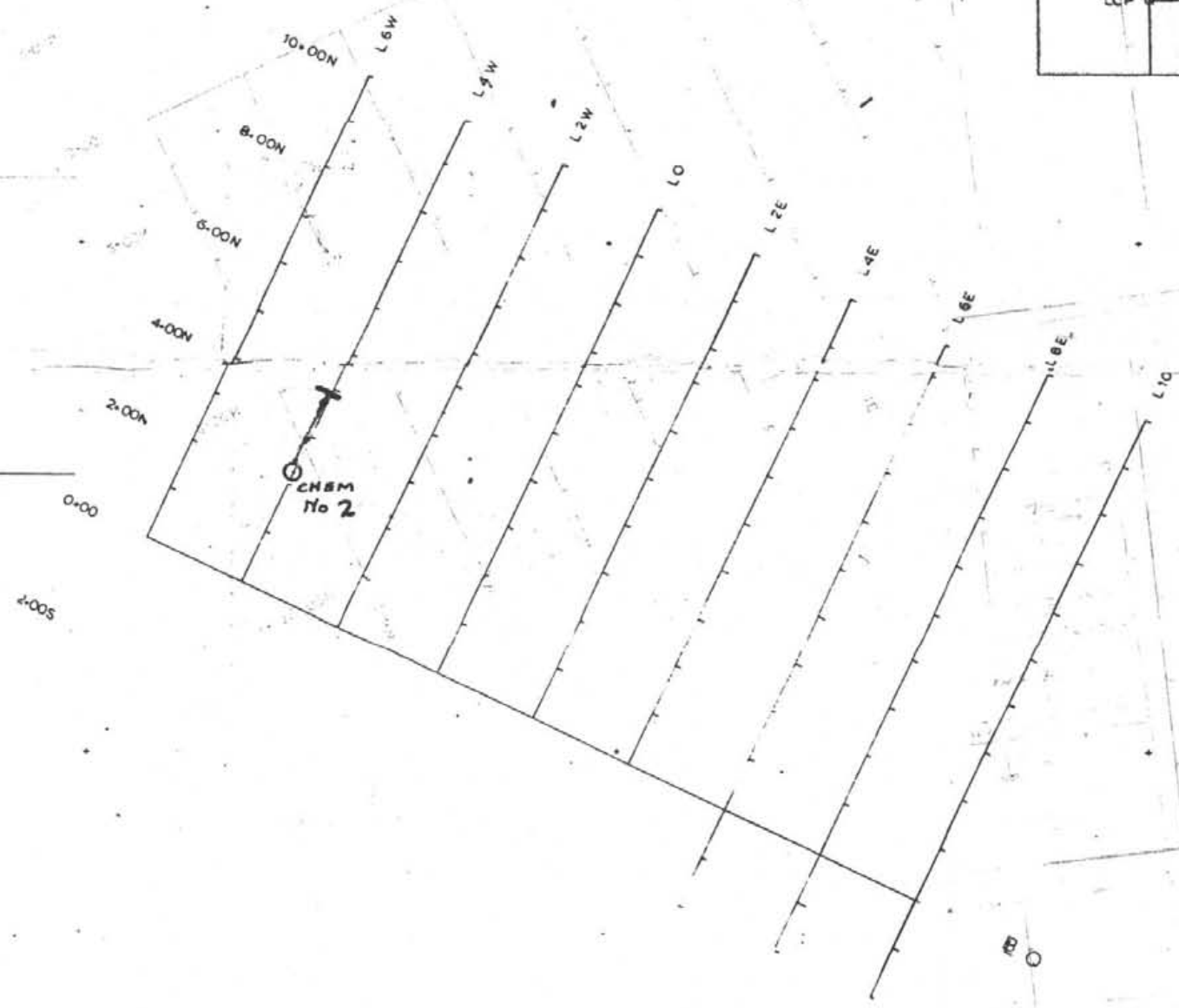
7323

1400 M. to
LCP BRENT #1

SOUTH BOUNDARY BRENT #1 CLAIM



- SYMBOLS**
- Dirt covered area [Symbol]
 - Rock outcrop area of surface fault [Symbol]
 - Geological boundary (approximate interpretation) [Symbol]
 - Bedding line (approximate interpretation) [Symbol]
 - Bedding type unknown (inclined vertical dip unknown) [Symbol]
 - Bedding type unknown (inclined vertical dip unknown) [Symbol]
 - Sedimentary processes (change feature) (approximate interpretation) [Symbol]
 - Linear axis of minor folds (horizontal, inclined vertical) [Symbol]
 - Drift field terrain (approximate) [Symbol]
 - Fault (approximate interpretation) [Symbol]
 - Fault (inclined vertical) [Symbol]
 - Fault (inclined vertical) [Symbol]
 - Thrust fault (approximate interpretation) [Symbol]
 - Joint (horizontal, inclined vertical) (approximate interpretation) [Symbol]
 - Syncline (inclined approximation) [Symbol]
 - Anticline (inclined approximation) [Symbol]
 - Anticline and syncline (approximate) [Symbol]
 - Intensity lines, moderate strong [Symbol]
 - Trench [Symbol]
 - Add of tunnel [Symbol]
 - Rock dump or taling [Symbol]
 - Quarry at mine [Symbol]
 - Shaft, rock, water [Symbol]
 - Diamond-drill hole [Symbol]
 - Contour 7500 [Symbol]
 - Stream or creek (Personal interpretation) [Symbol]
 - Marsh at [Symbol]
 - Lake [Symbol]
 - Road [Symbol]
 - Zone Road [Symbol]
 - Trail [Symbol]
 - Tree [Symbol]
- 200 100 0 200



7323

IMPERIAL OIL LIMITED - MINERALS

CHEMAINUS-00 CLAIMS
DDH CHEM NO. 2 LOCATION
 Project No 2130 Mining Division VICTORIA
 Latitude 48° 53' Longitude 123° 50'
 92 B/13 v.
 NTS

To Accompany & Refer to R. SOMERVILLE P. ENG
 Dated JULY 1979
 Map No 5

L20N



SYMBOLS

- Drift covered area
- Rock outcrop, area of outcrop floor
- Geological boundary defined, approximate, unstratified
- Bedding, low angle, horizontal, normal, vertical, overturned
- Bedding, steep, vertical, horizontal, normal, vertical, overturned
- Bedding, steep, vertical, horizontal, normal, vertical, overturned
- Schistosity, planar, steep, horizontal, normal, vertical, overturned
- Schistosity, planar, steep, horizontal, normal, vertical, overturned
- Lineation, steep, of minor folds, horizontal, normal, vertical
- Deep fold, large, planar, steep
- Fault, defined, approximate, unstratified
- Fault, defined, normal
- Fault, defined, normal, dip-slip, strike-slip, thrust, or reverse
- Fault, defined, normal, dip-slip, strike-slip, thrust, or reverse
- Thrust, fault, unstratified, unstratified
- Shearing and slip
- Joint, horizontal, normal, vertical, or with dip
- Syncline, defined, approximate
- Anticline, defined, approximate
- Anticline and syncline, unstratified
- Intensity, weak, moderate, strong

- Trench
- Ade or tunnel
- Rock dump or taling
- Quarry or mine
- Shaft, rock, wire
- Diamond-drill hole

- Contour: 2500 - C1
- Stream or creek (Perennial, intermittent)
- Marsh
- Lake
- Road
- Jump Road, unstratified
- Trail
- Trees



IMPERIAL OIL LIMITED - MINERALS

CHEMAINUS

DDH CHEM No. 3 - LOCATION

Project No. 5001 Mining Division Victoria

Latitude 48 50 Longitude 123 50

NTS 92B-3W

To accompany A Report by N. D. Somerville

Dated JULY 1979 Map No. 6

2900 to LCP of
HOLY 1 - HOLY 2
from 1/8"

CHEM No 3

HOLY 2

HOLY 1

7323

L10S

B "B"
0+00

L10S

L72W

L68W

L64W

L60W

L56W

L52W

L48W

L44W

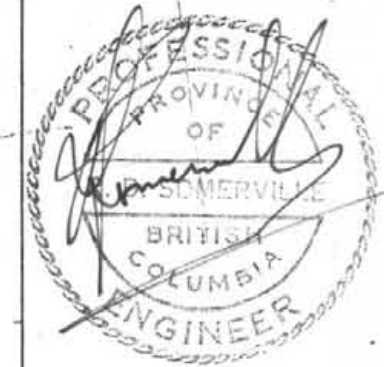
L40W

L36W

L32W

L28W

L24W



SYMBOLS

Diffusion area	⊘
Rock outcrop	⊘
Geological boundary	⊘
Bedding	⊘
Structure	⊘
Fault	⊘
Thrust fault	⊘
Shearing zone	⊘
Joint	⊘
Stratigraphic contact	⊘
Artificial contact	⊘
Artificial and stratigraphic contact	⊘
Intensity fault, material strong	⊘

Trench	⊘
Adit or tunnel	⊘
Rock dump or barge	⊘
Quarry or mine	⊘
Shaft, rock core	⊘
Diamond drill hole	⊘

Contours 250 - 01

Stream or creek (Perennial intermittent)

Mark in a. a.

Line

Road

Imp Road

Tree

Scale 1" = 400'

200 100 0 100 200

7323

IMPERIAL OIL LIMITED - MINERALS

CHEMAINUS

DDH CHEM 4 & 5 LOCATION

Project No. 0107 Mining District 1002204

Latitude 49° 53' Longitude 123° 50'

NYS 22B-126

To Accompany A Report By D. Somerville

Dated JULY 1975

Map No. 7