

REPORT ON DIAMOND DRILLING AND FOLLOW-UP GEOCHEMISTRY ON THE

GIL-LIG-LI-LG CLAIM GROUP

Claim Sheet No. 82E-4W Lat.: 49007' Long: 119055'

#### Claims:

Gil 11-12, 19-26: 31131-31132,31139-31146

Lig 1-18: 31103-31120 Li 1-20: 31248-31267

1-3 (Units 6, 8, 4) LG 1-3:

> by: Colin C. Macdonald, B.Sc.

Covering Work Completed During Period October 7th, 1975 to November 15th, 1975

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#### SUMMARY

The Gil-Lig-Li-LG claim group is located about seven miles (11 km.) southwest of Keremeos, British Columbia. property was staked in August and October, 1974, and March, 1975, to more fully investigate the cause and extent of a major copper-molybdenum-tungsten soil geochemical anomaly outlined as part of a previous survey completed in 1974 on claims Gil 1-26. In August, 1975, a geological and geochemical survey was carried out on a grid covering the northern 3/4 of the property by employees of Canadian Occidental Petroleum Ltd. The coincident high points indicated by the soil geochemistry on the 1975 survey were diamond drilled between October 7, 1975, and November 15, 1975, by employees of Interior Diamond Drilling Ltd. Five different drill set-ups were attempted, with 840 ft. (254 m.) of core being recovered from the final three holes only. The first two holes were abandoned due to the thickness, hardness, and high porosity of the cherty talus overburden. Because of this, the last three holes were set up on or very near bedrock, and were drilled to intersect an inferred bed of calc-silicate skarn projected from known outcrops.

The core consisted of interbedded chert and argillite for holes 75-3 and 75-4, cut by frequent quartz-pyrite veins sometimes containing scheelite crystals. Hole 75-3 was drilled to 100 ft. (29 m.), and hole 75-4 to 256 ft. (76 m.) Hole 75-5 consisted of tectonic breccia cut by frequent wide quartz veins, again with scattered scheelite crystals, and was drilled to 484 ft. (148 m.) Molybdenite was much less common than scheelite

and copper mineralization very rare, in all three cored holes

The average metal values for Cu, Mo and W, respectively were Hole 75-3 - 208 ppm, 87 ppm, 323 ppm; Hole 75-4 - 186 ppm, 127 ppm, 190ppm; Hole 75-5 - 171 ppm, 70 ppm, 160 ppm.

In DDH 75-3 the highest values obtained were as follows:

W, 0.23% over 5 ft. from 68-73 ft.

Cu, 700 ppm over 5 ft. from 23-28 ft.

Mo, 180 ppm over 5 ft. from 68-73 ft.

In DDH 75-4 the highest values obtained were as follows:

W, 0.59% over 5 ft. from 215-220 ft.

Cu, 482 ppm over 5 ft. from 95-100 ft.

Mo, 410 ppm over 5 ft. from 190-195 ft.

In DDH 75-5 the highest values obtained were as follows:

W, 0.18% over 5 ft. from 130-135 ft.

Cu, 600 ppm over 5 ft. from 225-230 ft.

Mo, 240 ppm over 5 ft. from 165-170 ft.

Even though the required depth for intersection of the inferred skarn bed was not achieved, the observed vein scheelite mineralization could be an encouraging sign, and at least one deeper hole is recommended to determine whether or not higher-grade skarn exists at depth.

#### INTRODUCTION

In 1973, the Gil (1-26) claims were staked to investigate the cause of a Cu-Mo anomaly detected during the 1973 Princeton regional stream sediment project. The original staking was carried out in November, 1973, and re-staking was done in August, 1974, all by employees of Canadian Occidental Petroleum Ltd. A major soil anomaly for copper, molybdenum and tungsten was outlined in the northern part of the claim group. To more fully investigate the extent of this anomaly and a tungsten-bearing skarn found late in the 1974 survey, additional ground was acquired to the north. This consisted of claims Lig 1-18, Li 1-20, and LG 1-3. In August, 1975, a geological and geochemical survey was carried out on a 400-foot(122 m.) grid covering the northern 3/4 of the property by employees of Canadian Occidental Petroleum Ltd. This showed the area to be underlain by a tightly folded succession of argillite, chert, greenstone and limestone, which has been thermally metamorphosed to produce areas of scheelite-bearing calc-silicate skarn. A major coincident soil anomaly for Cu, Mo and W was outlined in a northwest-trending band roughly 3800 x 2000 ft. (1159 x 610 m.) Four diamond drill sites were selected using the geological and

geochemical data. This report will describe the results of this diamond drilling carried out in October and November, 1975. The work was done to determine the location, type, and grade of inferred mineralization giving rise to the major coincident anomaly.

#### LOCATION AND ACCESS

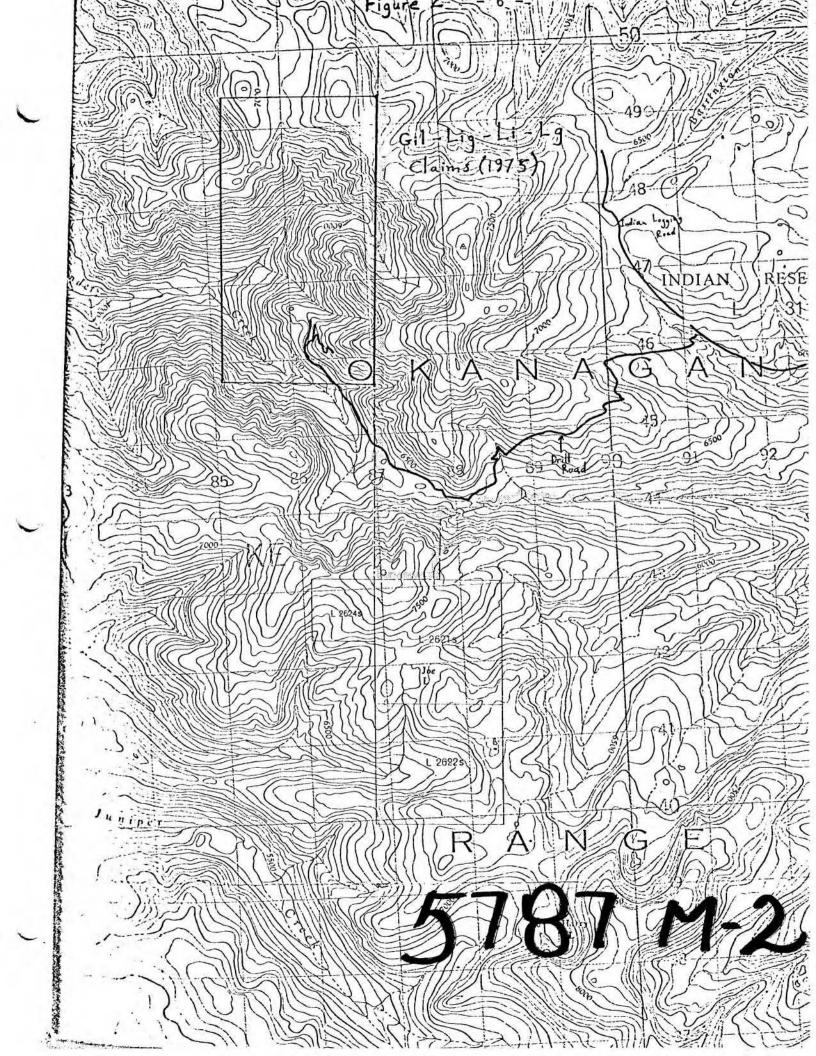
The Gil-Lig-Li-LG claim group is recorded on claim map 82-E/4W in the Osoyoos Mining Division, British Columbia.

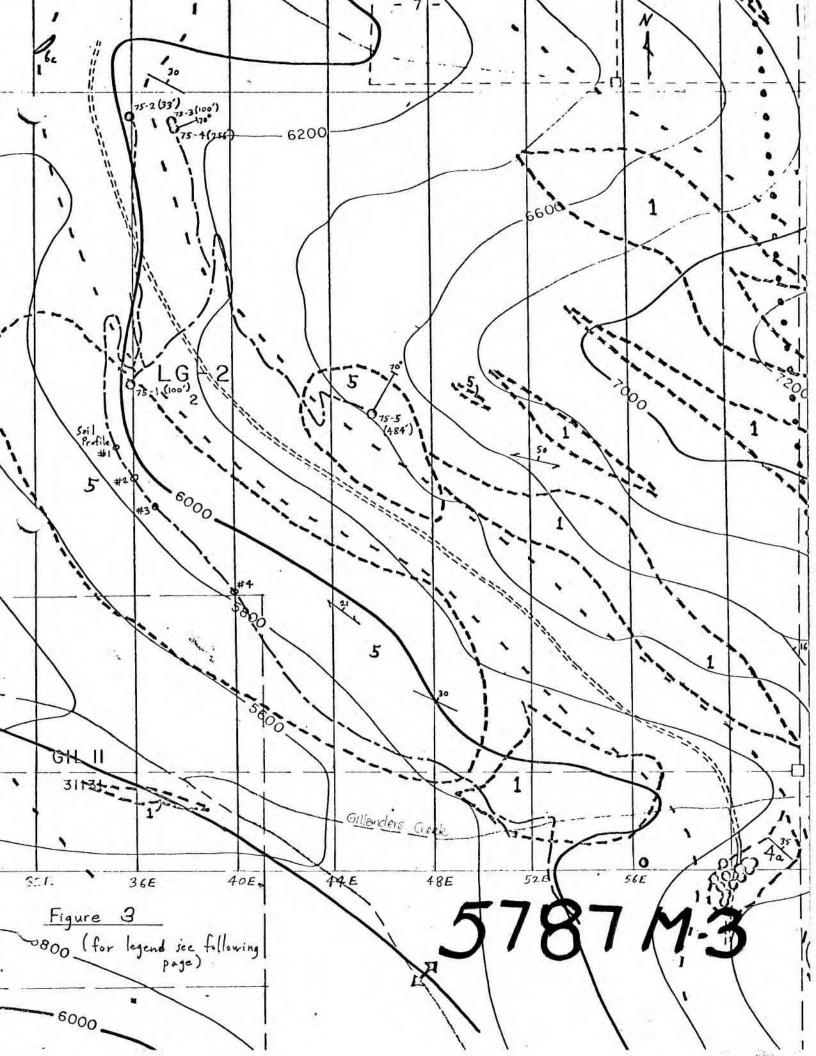
The property is located about seven miles (11 km.) southwest of Keremeos, and adjoins the western boundary of Indian Range Reserve No. 13 (Fig. 1, 2). It is accessible by road from Indian Range Reserve #13, a distance of about 25 miles (40 km.) from Highway #3.

#### PREVIOUS WORK

Union Carbide Exploration Ltd. staked claims PA 1-18 on parts of the Gil-Lig-Li-LG property. Information from assessment summaries and communications with the company indicate that Union Carbide were prospecting for tungsten only, and carried out mapping at 1" = 80 ft. (1 cm. - 96 m.) over PA 1-18; detailed mapping at 1" - 50 ft. (1 cm. - 6 m.) over PA 1-6; a limited geochemical survey; and 13 diamond drill holes totalling 839 ft. (251 m.) on PA 1. However, the positions fo the PA claims as determined by the actual claim posts







### LEGEND

#### SYMBOLS

. • •	Diamond Drill Hole (Vertical)
0-170	Diamond Drill Hole, with dip
	Compositional layering
	Limestone Bed (known, inferred)
~10 ×	Foliation .
~~~	- Roads
	Outer Limit of Hornfelsed Rocks
	- Approximate extent of calcareous sediments
	Geological contact, inferred
	Geological contact, known
	Antiform axis

#### ROCK UNITS

- 1. Chert, with some argillite interbeds
- 2a. Argillite, with some chert interbeds
- 2b. Sandstone
- 2c. Conglomerate
- 3a. Greenstone flows
- 3b. Greenstone pyroclastics
- 4a. Calc-silicate skarn with argillite interbeds
- 4b. Limestone
- 5. Tectonic breccia
- 6a. Quartz porphyry
- 6b. Quartz-feldspar porphyry
- 6c. Feldspar porphyry
- 6e. Felsite
- 6f. Microdiorite

indicate that the drilling was in fact done on PA 5. The Union Carbide claims cover most of the obvious skarn observed on the property. This area was also staked for Kennco (Western) Exploration by R. Stevenson in 1960; no records of any work carried out by Kennco have been located.

#### WORK COMPLETED

#### Bulldozing.

The road from the Indian Range Reserve #13 logging road at Mile 16 to the drill site (about 10 miles) as well as the drill sites themselves, were prepared by George Thompson of Oliver, British Columbia, using a Caterpillar D-7 bulldozer. Total operating hours spent were 280 hours.

#### Diamond Drilling

A total of 840 feet (254 m.) of wireline BQ diamond drilling was completed by Interior Diamond Drilling Ltd. between October 7th and November 15th, 1975. The equipment used was a truck-mounted B.B.S. 2 with a hydraulic head, powered by a Ford 17A diesel. Geological supervision was by C.C. Macdonald, of Canadian Occidental Petroleum Ltd. All drill sites and roads to drill sites were constructed by George Thompson of Oliver, B.C., using a Caterpillar D-7.

Five different drill setups were attempted, but only the last three produced core. Holes Gil 75-1 and 75-2 were abandoned at 100 ft. (30 m.) and 33 ft. (10 m.) respectively because of very difficult drilling conditions due to the hard, angular talus overlying bedrock, and a lack of drill fluid

circulation.

The last three holes, 75-3, 75-4, and 75-5, were drilled to depths of 100, 256 and 434 ft. (29, 76, 148 m.) respectively. Once again, drilling conditions were difficult, due to the hardness of the rock itself and its fractured occurrence, with frequent cavities and shear zones, resulting in poor circulation. These factors limited drilling to an average of 39.6 ft/day (12 m./day) (for cored holes only), despite 24-hour shifts. Water was pumped from Gillander's Creek, a distance of at least 2500 ft. (762 m.) for all holes. Despite dual water heaters installed in the lines, freeze-ups did occur, further slowing the drilling progress.

#### Logging and Sampling

The core was split and logged by C.C. Macdonald, using the facilities at Canadian Occidental Petroleum's warehouse at 171 Estabrook Ave., Penticton, B.C. Five-foot (1.5 m.) sections of split core were sampled, except where extremely poor recovery necessitated longer sections to obtain sufficient sample material. The samples were sent by Greyhound express to Chemex Labs Ltd. in Vancouver for analysis for Cu, Mo and W.

#### Geochemical Analysis

The rock samples are crushed and pulverized to -200 mesh. 0.5 grams of this material is digested in 5 ml. of a 3:2 mixture of 70% HClO<sub>4</sub> and concentrated HNO<sub>3</sub>, for 2.5 hours at 200°C. The final volume is adjusted to 25 ml. with demineralized water. This solution is then analysed for Cu and Mo using a Tectron Mk. V-VI atomic absorption spectrometer. For tungsten, a 5 gram sample of pulverized sample is fused with pyrosulphate flux in a furnace. This fused material is leached with HCl,

and complexed with a zinc dithol reagent. Analysis is done colourimetrically on a spectrophotometer.

#### REGIONAL GEOLOGY

This area was mapped regionally by Bostock1, of the Geological Survey of Canada. The property is shown to be underlain by Triassic or older rocks of the Old Tom and Shoemaker Formations. Further mapping, at 1" = 400 feet, was carried out by J. Schindler (1974) and C.C. Macdonald, J.R. Hill, J.C. Harrison and R.H. Wallis in 1975, as part of surveys completed by Canadian Occidental Petroleum Ltd. claims were found to be underlain by a tightly folded succession of interbedded argillite, chert, greenstone and limestone. rocks trend east-west to northwest and lie on the limbs of a north-plunging, reclined, closed fold, which itself has been folded around an antiform axis running roughtly coincident with Gillanders Creek. The regional metamorphic grade is upper greenschist-lower amphibolite; but superimposed on this is a thermal metamorphism related to an inferred intrusive at depth. This contact metamorphism has resulted in a hornfels texture in the rocks, best shown by the argillite and the limestone, which has recrystallized into a calc-silicate skarn. Felsic dykes of various compositions, presumably related to the intrusion, are also present. A tectonic breccia, composed of fragments of chert, argillite, and intrusive rock in an argillaceous matrix, may be either stratigraphically or structurally controlled, as it occurs in a wide zone crudely

<sup>&</sup>lt;sup>1</sup>Bostock, H.S. - G.S.C. Map 341A, 1940

parallel to the regional foliation.

Copper and molybdenum mineralization is relatively rare, with most molybdenite found in talus fragments associated with quartz veins and/or dykes. Tungsten is found as scheelite in the skarn, with one outcrop sample from one of the three calcareous horizons found assaying at 5.18% WO3. This particular horizon is inferred to strike northwest over an area with no outcrop, dipping moderately northeast and would therefore account for the major coincident anomaly. As the most promising bed, it was also therefore the target for the drilling described in this report.

#### DRILLING RESULTS

A brief summary of the results of each drill hole is given in the following section:

Hole Gil 75-1. This hole was collared at Line 36E/12S, drilled vertically to determine the cause of a major coincident anomaly for Cu, Mo and W. Although the hole was only a few metres away from outcrop, 100 feet (30 m.) of casing was run without a sign of bedrock. Since further drilling would have risked serious equipment damage due to the tight, blocky and hard overburden conditions, the hole was abandoned at 100 feet (30 m.).

Hole Gil 75-2. This hole was collared at Line 36E/1S, drilled vertically to determine the cause of another coincident anomaly lying at the base of a cliff at B.L./38E. However, this anomaly was in very coarse, angular cherty talus, with no outcropping bedrock, so that drilling was even more difficult than with hole 75-1. Mud was used unsuccessfully in trying to

gain some circulation, as was cement, Kwik-Seal and other materials, but the angular talus would not hold any of these due to its high porosity. This resulted in extremely slow drilling and a high frequency of bit, casing shoe, and casing rod failure. Hence this hole was also abandoned at 33 feet (10 m.). Hole Gil 75-3. This hole was collared in bedrock at Line 37+70E/1+50S, drilled vertically to determine the presence of mineralization giving rise to the coincident anomaly unsuccessfully drilled in Hole75-2. This location is about half-way up a fairly steep cliff, and the fracturing visible on the side of the cliff extended to depth far enough to make drilling difficult, and kept recovery low (68.9%). At 100 feet (29 m.), a cavity was reached which prevented further drilling, so the hole was abandoned. The core consisted of interbedded argillite and chert, with the chert occasionally being brecciated enough to be classed as a tectonic breccia. The interbeds of either major lithology varied widely in thickness, from less than one cm. to over 10 feet (3 m.). Measured compositional layering averaged 55° L.C.A., which, since the hole is vertical, should correspond to a 55° NE dip.

Pyrite was abundant throughout the hole, most often in argillaceous beds; either disseminated or associated with quartz veins. Hematitic and/or limonitic alteration of the pyrite is fairly common throughout the hole. The quartz veins, which range from <0.5 mm. to 3 cm. in this hole, tend to be concentrated in clusters roughly 10-15 feet (3-4.6) apart.

Five occurrences of scheelite were observed in the core fairly evenly distributed along the 100 feet (29 m.), with this mineral usually being associated either with quartz-pyrite veins or with the small calc-silicate skarn lenses. These were also randomly scattered through the core, with the first at 13 feet (4 m.) and the last skarn at 94 feet (28 m.). Molybdenite was found in seven locations, again fairly evenly scattered through the core, and always as a very fine-grained dusting on hairline fractures. Copper mineralization was limited to a few specks of malachite associated with a calc-silicate lens at 93.5 feet (28 m.).

Geochemically, the analytical values for Mo and W correspond fairly well with the observed mineralization, showing a general increase in Mo towards the middle of the hole, and erratic highs for W. The highest values for Cu, Mo and W were 700 ppm, 180 ppm, and 2500 ppm respectively. This high tungsten sample later was assayed to .23% WO<sub>3</sub>. Copper showed its highest value at a shallow depth; 23-28 feet (7-8.5 m.), but the rest of the values were considerably lower (Plan 1). The average values for Cu, Mo and W were 208 ppm, 87 ppm, and 323 ppm respectively. Above average footages were obtained as follows: Cu - 0-28, 43-48, 58-63, 68-73; Mo - 48-63, 68-73, 83-87; W - 23-28, 53-58, 68-73.

Hole Gil 75-4. This hole was collared in the same location as was Hole 75-3, at L37+70E/1+50S, but was drilled 070°T at 70° dip, in order to avoid the surficial zone of fracturing encountered in Hole 75-3. To a great extent this succeeded as the hole was drilled to 256 feet (76 m.), and recovery was up to 92.4%. The core consisted of widely varying interbeds of chert and argillite, with occasional short brecciated sections and two areas of calc-silicate lenses (34 feet, 96 feet (10, 29 m.)).

Measured compositional layering averaged 57°L.C.A., but was not consistent in the core, suggesting some undulations in the layering.

Quartz veins were more abundant than in hole 75-3, most being associated with pyrite, and ranging from hairline to 5 cm. Pyrite is also abundant throughout the core as anhedral disseminations, largely in the argillaceous beds. Scheelite is also more abundant than in hole 75-3, largely as euhedral crystals averaging 1 mm. scattered very sparsely in the larger (>3 mm.) quartz-pyrite veins. It is also found associated with both areas of calc-silicate lenses, and more rarely as single isolated crystals in argillite. Molybdenite is rare up to 170 feet (52 m.), but at this depth starts to become more common as a fine-grained outer vein wall coating on the larger quartz veins. The only signs of copper mineralization were a few specks of chalcopyrite with pyrite at 22.4 feet (6.8 m.), and minor malachite in epidote-quartz veins at 50.7 feet (15 m.).

The geochemical profiles (Plan 2) show an erratic copper distribution, with one of the high points corresponding to the only observation of chalcopyrite, and another peak being associated with the largest of the two calc-silicate lens occurrences. Except for these peaks, however, the copper values are generally not exceptional for this rock type. Molybdenum shows fairly high values for any rock, with a high of 410 ppm in the section containing the most obvious molybdenite (190-195 ft. (58-59.5m.)). The increase in occurrences of the molybdenite

past 170 feet (52 m.) is not as apparent in the geochemical profiles as it seemed in the rock; there being enough erratic peaks up to 170 feet (52 m.) to even out the distribution. The high values of tungsten (Plan 2) correspond very well with the scheelite occurrences, with a high of >2250 ppm, later assayed to .59% WO<sub>3</sub>.

The average values for Cu, Mo and W were 186 ppm, 127 ppm, and 190 ppm, respectively. Above-average footages were obtained as follows: Cu - 20-45, 75-80, 85-90, 95-110, 170-175, 195-220, 230-240; Mo - 40-45, 60-70, 75-85, 95-100, 105-110, 115-120, 135-150, 160-165, 170-180, 190-195, 215-220; W - 25-30, 45-50, 75-80, 95-100, 105-110, 140-145, 165-175, 190-195, 215-220.

Hole Gil 75-5. This hole was collared at L45+70E/13+30S, drilled 030°T at 70° dip. The purpose was to investigate the cause of a major coincident Cu-Mo W anomaly, and if possible to penetrate the inferred zone of calc-silicate skarn striking northwest and dipping moderately northeast. In order to do this, the hole had to be on the order of 600 feet (183 m.) long, but due to a sandy pocket at 494 feet (148 m.), drilling stopped here. The drill rig was set up as close as possible to bedrock, so overburden was only 10 feet (3 m.) deep.

The entire hole consisted of the tectonic breccia unit, with angular fragments of chert, quartz, and occasionally argillite and intrusive rocks in a matrix of argillite. Most of the fragments were small enough to be contained in the core, from 1 mm. to 5 cm., but much larger fragments could also be inferred from their intersections with the core. Quartz veins

are again abundant, though not always associated with pyrite as in holes 75-3 and 75-4. However, there is much more volume percent quartz in this hole, due to their extremely large size in places. A section from 97 feet to 215 feet (30-66 m.) contains the largest concentration of veins over 6" (15 cm.), some up to 2.5 feet (.8 m.) in width. For the first time intersections of dyke material were noted, a microgranite dyke at 149 feet (45 m.), and a feldspar porphyry dyke at 163.5 feet (50 m.), both unmineralized.

Pyrite is present throughout most of the core, but most notably in a section from 185.5 to 215 ft. (57-66 m.)

This section, still within the quartz vein-rich section, has pyrite as very fractured euhedral crystals up to 6 cm. long. Only two occurrences of molybdenite were seen, at 354.8 and 390.7 feet (108 and 119 m.), and no copper mineralization was noted. Scheelite though present in the same associations and amounts as it was in hole 75-4, is not as evenly distributed over the core length. There is very little scheelite before 185 feet (56 m.), a slight concentration of scheelite-bearing quartz veins from 185-335 feet (56-102 m.), and very little scheelite from 335-484 feet (102-148 cm.).

The geochemical profiles (Plan 3) show this observed scheelite cut-off, but indicates that the scheelite concentration starts sooner, at 90 feet (27 m.), with the highest value at 1800 ppm W. This provides a total of 245 feet (75 m.) of higher-than-average tungsten mineralization. Molybdenum shows a similar distribution, with the highest values in the middle of

the core, from 140 to 225 feet (43-69 m.). The actual values, however, all fall short of the highest values obtained from hole 75-4, with the highest value being 240 ppm Mo. Copper shows a fairly erratic pattern, with the highest value at 600 ppm Cu, but it shows the same cut-off in values in the last hundred feet of core as do Mo and W.

Average values for Cu, Mo and W were 171 ppm, 70 ppm, and 160 ppm respectively. Above-average footages were obtained as follows: Cu - 35-40, 45-50, 70-75, 90-100, 175-230, 235-285, 315-325, 335-340, 350-380, 400-405; Mo - 40-45, 50-65, 70-75, 90-100, 110-120, 140-185, 190-195, 200-225, 245-250, 275-280, 315-320, 330-355, 360-380; W - 35-45, 55-60, 90-100, 110-125, 130-160, 175-190, 19-5-200, 220-225, 240-245, 285-295, 315-320.

#### CONCLUSIONS

Due to the difficult drilling conditions encountered, and the fact that the topography necessitated drilling down-dip to the inferred calc-silicate target bed, the required depth based on projections of known outcrops was not achieved. With this in mind, the results of the completed diamond drill program are nevertheless encouraging. Tungsten, and to a much lesser extent molybdenum mineralization was discovered associated primarily with quartz-pyrite veins of varying widths, in all three holes from which bedrock core was obtained, holes Gil 75-3, 75-4, and 75-5. It is possible that this vein-related mineralization represents a hydrothermal system associated

with the same inferred intrusion causing the thermal metamorphism, or perhaps it is related to the skarn itself with the quartz being a by-product of the metamorphic reactions involved. This latter interpretation would mean that the abundance of quartz veins is a rough indicator of the proximity of the skarn bed.

#### RECOMMENDATIONS

It is recommended that the claims be retained by filing the completed assessment work. To confirm the presence of a calc-silicate bed, an attempt should be made to drill through the bed's inferred position, either by the use of special drilling techniques enabling longer holes to be drilled, or by drilling more perpendicularly to the dip by starting from the north side of the ridge.

Respectfully submitted,

January 16, 1976 TORONTO

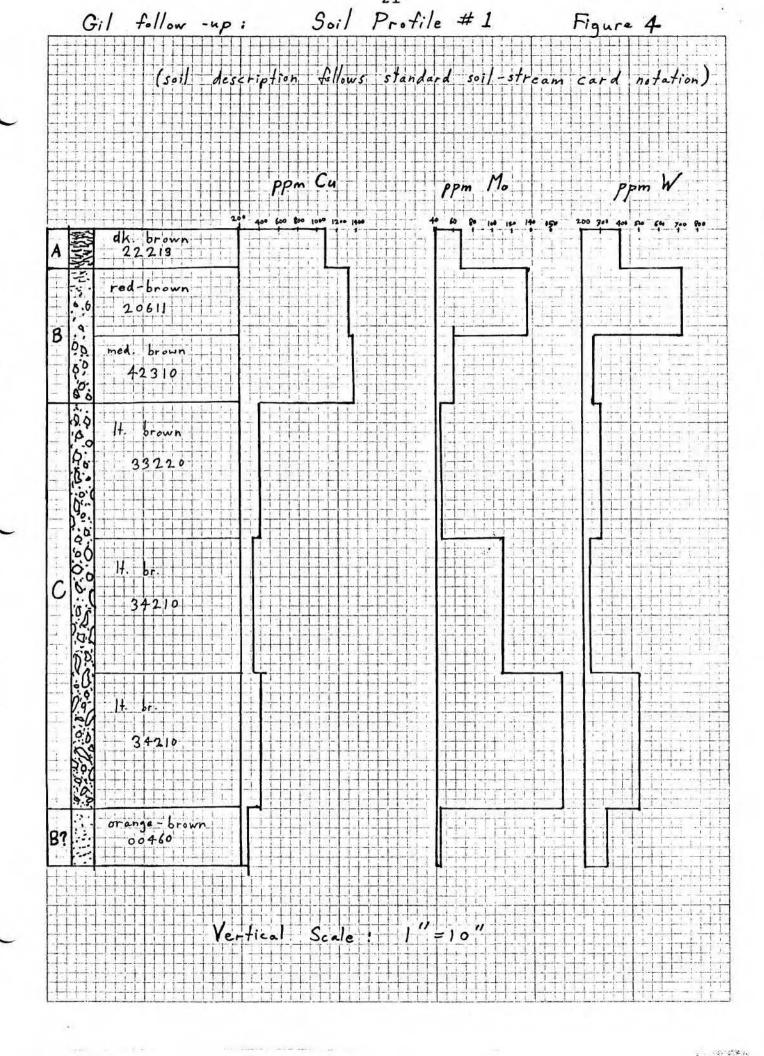


#### APPENDIX I

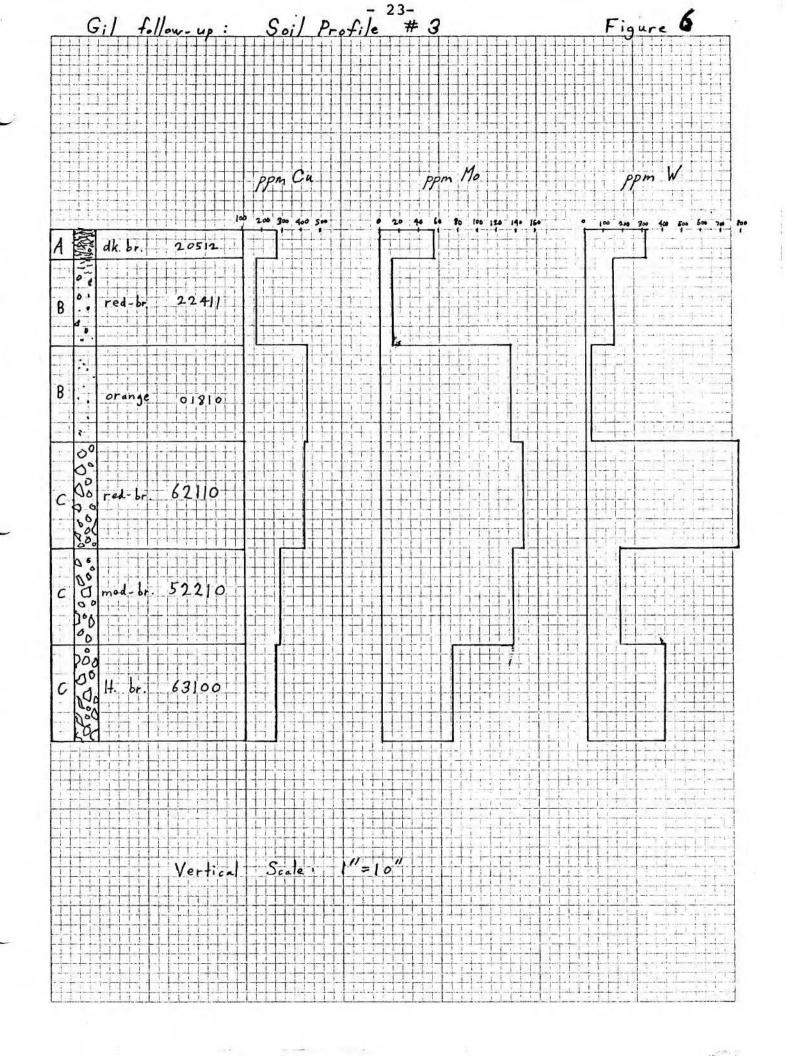
#### Geochemical Follow-Up

Between October 13 and 17, 1975, a small geochemical follow-up survey was carried out on the Gil-Lig-Li-LG claims. First, the picket lines sampled near the occurrence of skarn drilled by Union Carbide (at L80E.31S) were extended roughly 800 feet (244 m.) by pace and compass, and simultaneously soil sampled, using the B-horizons. This was to re-check the metal levels in this area of known mineralziation, which was previously only slightly higher than average. As shown in Figure 8, the results of this sampling show a definite anomaly centred at about L60E/31S, with a high value of 1400 ppm W, using the anoamlous levels established during the 1975 survey.

Also, four soil profiles were sampled from road cuts made during construction of the main drill road. These were chosen to verify major anomalies outlined during the 1975 survey, and to determine the metal distribution with depth. Locations are shown on Figure 3, and the completed profiles on Figures 4-7. These show a definite tendency towards a bi-modal distribution, with metals concentrated in both B and lower C horizons. This is not consistent, however, as some profiles show only one level of concentration. This could be due to the mechanically-derived nature of these soils, since all profiles were on steep slopes. Successive talus-slides could conceivably result in re-adjustments of the soil horizon development and this observed multi-level concentration of metals.



	Gil	follow-up:	Soil	- 22 Profile	<b># 2</b>	Figure 5
A		30313 dh be	ppm Cu	¢o.	PPM Mo	200 310 the 500 the 100 200 200
В		2 15 1 1				
	0.0	72320				
0	00000	rel-br. - 32410				
	300000	red-br.				
	\$2000 B	33310				
			rtical Sco	le: 1" =	10"	

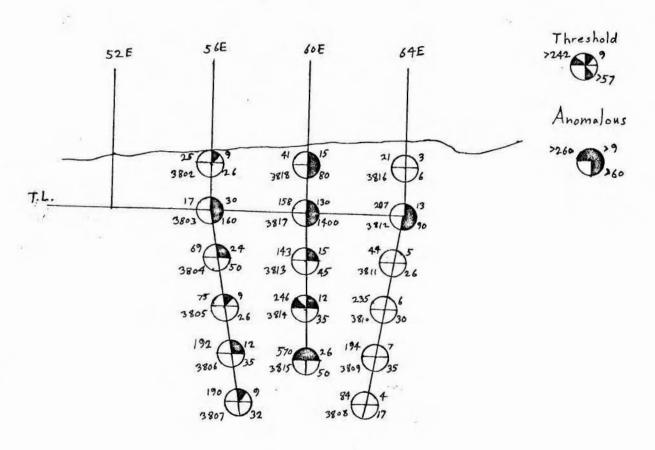


Gil-

Continuation of 3 Soil Lines over U.C. skarn.

Figure 8

Sample No. - W



### CANADIAN OCCIDENTAL PETROLEUM LID. MINERALS DIVISION

LOCATION_L36E/12S				DIRECTION_		DIP 90	O HOLE No.75-1
LOGGED B	Y C.C.	Macd	onald	CASING	0-100'	-	SHEET No. 1
STARTED	Oct.	14,	1975	CORE SIZE_	BQ	CORRECTED TE	STS
FINISHED_	Oct.	17,	1975				

FROM	то		DESCRIPTION
0	100'		Angular talus and overburden, composed of chert and tectonic breccia. No sign of approaching bedrock, and drilling casing becoming extremely difficult at this depth, so hole abandoned on October 17, 1975.
*			Problem was mainly lack of circulation, and hardness of talus, so that by the time the casing had reached the required depth, the shoe was ruined, requiring a complete casing pull.
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CANADIAN OCCIDENTAL PETROLEUM LIT

MINERALS DIVISION

LOCATION_L36E/1S	DIRECTION_	DIPHOLE No.75-2
LOGGED BY C.C. Macdonald	CASING 0-33'	SHEET No1
STARTED_Oct. 18, 1975	CORE SIZE_BQ	CORRECTED TESTS
FINISHED Oct. 21, 1975		

FROM	то				DESCRI	PTION		
0	33'	1	very po Drille to no a barely exceed:	orous, he rs tried avail, as turn in ingly slo	ence no de mud, cent even at the hole ow and de	lar chert drill flument, kwill 20' the Drill: estructive ctober 21	id circul c-Seal, e casing w ing becom e to equi	ation. etc. but ould ning
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						9		

#### CANADIAN OCCIDENTAL PETROLEUM LTD. MINERALS DIVISION

L37+50E/1+50S

LOCATIO	)N		DIR	ECTION		DIP 900 HOLE No. 75-3
LOGGED	BY_C.C	.Macdor	ald CAS	ING		SHEET No. 1
STARTEC	oct.,	1975	COF	RE SIZE	_BQ	CORRECTED TESTS
FINISHE	D				-	
PROPERT	ryGI	L(68.9%	recovery	7)		•
FROM	то	sample interv		Мо	W	DESCRIPTION
0	23'	0-23'	321	. 29	45	fractured ground (16%). Dark grey-green argillite with inter- bedded chert, sometimes deformed to tectonic breccia (Footages
						estimated from full 23 ft. length)  ~4' - thin chert interbeds by by 2 mm. quartz-carbonate vein, 40 LCA, with isolated blebs of Py at the vein walls
						<pre>~5' - core piece includes a small     fragment of quartz-molybde-     nite-hematite vein.  5-12' - tectonic breccia, dissemi-     nated Py as small (&lt;1 mm.)</pre>
						blebs and cubes, and in fractures.  12-15' - fine-grained conglomerate (Unit 2C), with quartz pebbles up to 3 mm. in a fine-grained, dark matrix. Also small calc-silicate lenses. One zoned lens at 14' contains a grey metallic mineral at its core (not Moly).  15' - Py associated with quartz veins trending 25° and 55° LCA
23'	27.8	23-28	700	72	1100	Dark green, heterogeneous-looking argillite, cut by frequent quartz-pyrite veins at 20-30 LCA.  25.4 - 1 mm. speck of scheelite in quartz-pyrite vein.  27.1 - small lens of chert, pyrite, and a soft, black mineral forming the matrix (sphalerite?).

# CANADIAN OCCIDENTAL PETROLEUM LTD. MINERALS DIVISION

LOCATION	DIRECTION	DIP	HOLE No. 75-3			
LOGGED BY	CASING		SHEET No	2		
STARTED	CORE SIZE	CORRECTED	TESTS			
FINISHED	•					

FROM	то <sup>S</sup>	ampled nterva	Cu	Мо	₩ .	DESCRIPTION
27.8	28.5	28-33'	175	48	8	Dark grey chert.
28.5	34	33-38	146	82	35 .	Dark green argillite, with chert interbeds, hematite on fractures.
34	42.8	38-43	74	70_	1	Light to dark grey chert, with argillite interbeds.
					ž	36' - fine-grained Molydenite in hairline fracture, and partially disseminated in the chert.
			**			39.2 - Fine grained molybdenite as above.
42.8	48	43-48	419	74	65	Tectonic breccia, with abundant P largely in the green argillaceous matrix.
		48-53	134	172	30	45.7' - 9 crystals of scheelite exposed on quartz-hematite-pyrite vein.
48	58	53-58	74	112	200	Buff-lightgrey-dark grey chert, with scattered concentrations of quartz-pyrite stringers, usually 30-40 LCA.
					*	51.5 - very fine-grained molybde- nite on hairline quartz vei
						54.5 - 2 mm. crystal of scheelite in quartz vein.
58	61.3	53-63	270	138	32	Green argillite, with little veining and very minor pyrite.
			ħ			60.0 - very fine grained moly- bdenite on rusty fracture.
						60.2 - 2 mm. crystal of scheelite not on any obvious fracture or vein.

## CANADIAN OCCIDENTAL PETROLEUM LTD. MINERALS DIVISION

LOCATION	DIRECTION	DIP	HOLE No
LOGGED BY	CASING	1	SHEET No. 3
STARTED	CORE SIZE	CORRECTED T	TESTS
FINISHED	•	· · · · · · · · · · · · · · · · · · ·	

FROM	то s	ampled iterval	Cu	Мо	W	DESCRIPTION
61.3	67.3	63-68	134	86	85	Grey-white chert, with argillite partings
67.3	68.1					Green argillite, with a few 1" lenses of calc-silicate (primarily epidote)
68.1	75.5	68-73	262	180	<b>≥</b> 2500	Chert with argillite interbeds.
		73-78	90	39	. 55	7.0- 4% pyrite disseminated in argillaceous chert, but concentrated around a fracture. Also a few tiny specks of molybdenite and scheelite.
		-78-83 83-87	92	62 100		71.9 - one thin finger of calc- silicate in chert, containing a scheelite cluster 10 x 12m
75.5	96.2	78-88				Green argillite, with occasional- chert interbeds, and pyrite on quartz-pyrite veins.
		92-96	2 138	36	. 22	86.0 - very fine disseminated Mo on hematite-quartz fracture O LCA.
					•	93.5-95.0 - small calc-silicate lenses, with clots of pyrite, and a few specks of malachite
						END OF HOLE.

# CANADIAN OCCIDENTAL PETROLEUM L'ID.

#### DIAMOND DRILL RECORD

LOCATION L37+70	E/1+50S	_DIRECTION_	070°	DIP	70°	HOLE No. 75-4
LOGGED BY C.C.	Macdonald	_CASING			SI	HEET No. 1
STARTED	,1975	_CORE SIZE		CORRECTED	TESTS_	
FINISHED		•		·		

FROM	то	sampled interva		Мо	W	DESCRIPTION
. 0	7'		13 *	9		Argillite with chert interbeds, and occasional small, brecciated chert lenses.
				K		~2.0' - 4 1 mm. crystals of scheelite within a quartz-pyritehematite vein.
		0-15	68	33	100	
. 7	19'	15-20	82	24	70	White to dark grey chert, with argillite interbeds, and minor Py usually associated with the argillite. Poor recovery (30%) for first 20'.
19	127'	20-25	22.737.198	2000		Green-dark grey argillite with occasional chert interbeds.
		20-23	465	38	22	21-30' - concentration of quartz-P veins with various angles, however much Py also in argillite as clots up to lcm
		25-30	222	62	380	22.4'- a few tiny specks of Cp associated with isolated patches of Py.
						26.5' - 3 mm. wide composite quartz-pyrite-carbonate-scheelite vein, undulating but ~0°LCA.
						29.5' - quartz-limonite-pyrite- scheelite vein, 20 LCA.
		30-35	1304	27-	130	33.8-34.6' - small calc-silicate lenses in argillite, with scattered scheelite crystals within these lenses.
		35-40	203	54	35	narran suede menosar
		40-45	191	172	24	
						49.7 - small concentration of quartz-pyrite-scheelite vein
1.0		45-50	114	. 76	292	quartz pyrite-scheerice vern

### CANADIAN OCCIDENTAL PETROLEUM LTD.

## MINERALS DIVISION DIAMOND DRILL RECORD

LOCATION.	DIRECTION	DIP	HOLE N	75-4
LOGGED BY	CASING		SHEET No	2
STARTEO	CORE SIZE .	CORRECTED	TESTS	

	Y					
FROM	то	sampled interval	Cu	Мо	W	DESCRIPTION
		50-55	170	38	- 8	50.7 - narrow epidote-quartz veins show a few specks of malachit
					٠	56.7-57.3 - quartz-pyrite-hematite- scheelite veins, 20-30 LCA
		55-60	144	82	20	58.0- 2 cm. with quartz-carbonate- pyrite vein, but no scheelite pyrite from this vein tends t tarnish to a brassy-gold.
		60-65	88	290	60	61.8 - 3 cm. lens of brecciated argillite in matrix of quartz and molybdenite, all cut by non-mineralized quartz-Py vein.
. +		65-70	110	152	80	64.6 - one tiny chip from very fractured ground contains part of a quartz-scheelite vein, with scheelite cluster 1 cm x 1 cm.
						70.8- small chips contain part of a quartz-hematite-pyrite-scheelite vein.
		70-75	152	86	24	
Х		75-80	235	186	1100	77.2 - 3 mmwide quartz-scheelite vein contains several clusters of euhedral scheelit
		80-85	72	210	30	crystals, up to 6 mm x 6 mm.
		85-90	235	122	55	86.8-87.8 - a few tiny specks of scheelite associated with narrow lenses and stringers
		90-95	128	120	12	of calc-silicate.
		95-100	482	200	990	95.7-99.6 - occasional calc-silicat
		100-105	405	128	65	lenses up to 10 cm. thick with scattered scheelite crystals and clots of pyrite

MINERALS DIVISION

LOCATION	DIRECTION	DIP	HOLE N	75-4
LOGGED BY	CASING		SHEET No	3
STARTED	CORE SIZE .	CORRECTED TES	STS	
FINICUED				

FROM	то	sampled interval	Cu	Мо	W	DESCRIPTION
		105-110	295	240	250	109.0- quartz-pyrite-scheelite
		110-115	108	66	135	vein, 35°LCA
		115-120	116	172	18	112.0 - quartz-pyrite-scheelite vein, 20°LCA.
127'	142	12'0-130	46	86	25	White-dark grey chert, with argillite interbeds.
		130-135	80	86	26	
		135-140	228	158	30	137.1 - quartz-pyrite-scheelite vein, 30°LCA.
142'	250'	140-145	131	210	250	Largely green to dark grey argilli- with interbeds of chert, occasion- ally brecciated to tectonic brecci
*				-		147.6 - quartz-pyrite-scheelite vein, with only minor specks of scheelite.
		145-150		230	85	149.6-151 - Unit 2C conglomerate
		150-155		108	4.0	interbed, with small quartz
		155-160 160-165		122 160	45 24	pebbles up to 2 mm. in a dark grey, silty matrix.
		165-170	138	110	292	170.0 - 1 cmwide quartz-scheelite vein, with many 1 mm. crystals of scheelite in pure quartz.
		170-175	392	290	810	172.1 - very fine-grained molybde- nite on hairline fracture.
		175-180	86	200	60	173.7 - 2 cmwide zoned quartz
		180-185	128	100	24	<pre>vein, with epidote and fine-grained molybdenite at the outer vein walls and</pre>
		185-190	186	56	15	disseminated a few cm. into the surrounding argillite with some scheelite and
						much pyrite.

THE PROPERTY OF THE PROPERTY IN LEGISLATION TO THE PROPERTY IN THE PROPERTY IN

MINERALS DIVISION

LOGGED BY		No. of California			DIPHOLE No.75-4		
		С	ASING.		SHEET No. 4  CORRECTED TESTS		
STARTED			CORE SIZE .				
FINISHED_			•				
PROPERTY							
FROM	то	sampled interval	Cu	Мо	W	DESCRIPTION	
		190-195	74	410	180	191.5 and 192.4 - 2 cmwide quartz-pyrite veins with abundant fine moly on the vein walls only. Inferred carbonate in vein now leached	
1		195-200	191	42	22	out.	
		200-205	222	58	8		
		205-210	209	98	18		
		210-215	250	38	12	217.6 - 2 cmwide quartz-scheelit moly-pyrite vein, with one scheelite crystal 1 x 1 cm.,	
		215-220	275	78 4	2250	and fine-grained moly smear only on outside vein walls.	
						<pre>220.0 - 1 cmwide quartz-carbonat     pyrite-scheelite-moly vein.</pre>	
		220-225	108	70	20		
		225-230	160	32	100	226-250' - very heavily fractured ground, with resulting poor	
1		230-240	385	130	24	recovery for this section (54%). Presence of	
		240-250	160	250	20	<pre>clay-rich gouge and slicken- sides on some joint planes suggests movement.</pre>	
						END OF HOLE.	
				•	3.50		
						**	
		1.					
						(4)	
						•	

### DIAMOND DRILL RECORD

LOCATION	L45+70E/13+30S	DIRECTION_	0300	DIP70 <sup>O</sup>	HOLE No	75-5
LOGGED E	BY C.C.Macdonald	CASING	0-10'		SHEET No	7
STARTED_	Nov.5,1975	CORE SIZE	BQ	CORRECTED TES	Acid test	at 000
FINISHED	Nov.14,1975				484	= 80

A STATE OF THE PARTY OF THE PAR	то	[sampid ppm					
FROM		interv.	Cu	Мо	W	DESCRIPTION	
0	10'					Cased overburden	
10	14'					Heavily fractured tectonic breccia, with angular chert fragments in a green-grey argillaceous matrix.	
14.	22'	0-20'	51	42	35	White - lt. grey chert, with occasional argillite interbeds, heavily fractured to 19'. Recovery on 0-19' only 17%.	
22	484'					Tectonic breccia, as above	
		20-25	90	52	45	23.8 - small fragment of calc- silicate and carbonate, partially leached out, in tectonic breccia.	
		25-30	108	58	30	29.5 - one 3 mm. crystal of scheelite floating in the tectonic	
		30-35	112	46	28	breccia.	
		35-40	440	40	320	38.2-38.7 - fragments of carbonate- rich rock in tectonic bredcia, with most now as leached cavities coated with limonite and jarosite.	
rit.		40-45	96	96	400	47.6 - few specks of scheelite near, but not in a quartz vein.	
		45-50 50-55 55-60 60-65 65-70	175 54 54 124 76	28 86 84 88 44	75 180 130 100	61.8 - mini-goade, ~ 4 cm. diameter, with euhedral quartz coated with limonite	
		70-75	275	74	115	72.5 - a few large scheelite crystals near(not in) quartz-pyrite veins.	
		75-80	108	68	150	74.0 - this section has abundant intersections of pure quartz, probably representing metamorphosed	
		80-85	84	46	110	quartz veins. These now are cut by rusty joints and hairline fractures, which penetrate the surrounding tectonic breccia. Some calcsilicate inclusions present in the quartz, and usually limonite and jarosite, often in tiny vugs.	

DIAMOND	DRILL	RECORD

LOCATION	DIRECTION	DIPHOLE No
LOGGED BY	CASING	SHEET No
STARTED	CORE SIZE	CORRECTED TESTS
FINISHED		

1	The Party of the P	sampld	MONTH AND	ppm	A STORY OF THE SECTION OF			
FROM	то	interv.	Cu	Мо	M	DESCRIPTION		
		85-90	72	50	70	88.8 - a 5 cmthick quartz vein shows miarolitic quartz, coated wit jarosite		
		90-100	180	88	400			
		100-110	82	50	150			
		110-120		84	280	90-122' - heavily fractured tectonic breccia (34% recovery)		
		120-125		52	630			
		125-130		28	100	i a		
- 3		130-135		60				
		135-140		40	630			
		140-145		98		148.8-154.5 - fine-grained micro- granite dyke, non-porphyritic,		
		150-155	70	136	450	very bleached looking and criss- crossed by many limonitic hairline fractures.		
		155-160	134	230	500			
		160-165		155	60	163.5-164.5 - slightly bleached an altered feldspar porphyry dyke.		
		165=170		240				
		170-175		155				
		175-185	295	120	200	177-185 - very heavily fractured ground with some chips recovered being composed of a khaki-colored, very soft, mudcake-like rock, with euhedral pyrite - probably result of extreme alteration near a shear zone.		
		185-190	295	50	520	185.5-215' - this section, still in the overall quartz-vein-rich		
		190-195	180	195	100	section, has abundant pyrite as euhedral (but very fractured) crystals in the quartz - usually ~1 cm, but observed up to 6 cm.		
						Parts of this section are so riddled with quartz as to be a vein breccia - a "tectonic brecciabreccia".  Scheelite crystals are present throughout this section, though still 1%.		
	,	195-200	310	62	50 <b>0</b>	198.5 - 2 crystals of scheelite floating in the quartz		
		200-205	470	175	70	THE STATE OF THE S		
		1						

### DIAMOND DRILL RECORD

LOCATION	DIRECTION	DIP	HOLE No
LOGGED BY	CASING		SHEET No
STARTED	CORE SIZE	CORRECTED	TESTS
FINISHED		**	* * * * * * * * * * * * * * * * * * *

	sampld ppm				PONT OF THE COURT OF THE PROPERTY OF THE PROPE		
FROM TO	interv	Cu	Мо	W	DESCRIPTION		
	205-210	230	110	150	207.0 - several 1-3 mm. crystals of scheelite in a quartz-carbonate vein. The carbonate is slightly		
	210-215 215-220		210 94	100 16	pinkish-white, and is not calcite, since it reacts slowly with HCl.		
84	220-225		140	350	221.6-226.0 - 4 small quartz veins, all having a few scheelite crystals		
	225-230	600	56	70			
	230-235	131	64	20	236.0,236.6 - small occurrence of scheelite with quartz		
	235-240 240-245		25 52	65 540	241.5 - a 3 x 2 cm. cluster of scheelite crystals, not in a quartz vein but in the breccia matrix		
	245-250 250-255 255=260 260-270 270-275 275=280	2-5 175 275 153 555	104 38 50 56 40 88	70 24 22 26 85 22			
	280-285 285-290		58 64	35 320	285.9 - one 3 x 2 cm. scheelite crystal forming one half of a quartz lens in the tectonic breccia		
			13.4		286.5-292.2 - concentration small quartz veins, three of which have small amounts of scheelite.		
	295-300 309-305 305-310 310-315	96 148	38 43 38 46	24 20 24 45	295.8,302.8, 313.5,324.5 small amounts of scheelite in quartz veins.		
	315-320	268	92	170	320.0-321.4 - small calc-silicate (epidote) lenses with associated		
	320-325 325-330		56 46	1250 22	scheelite.		
	330-335 335-340	555	80 70	20 24			
	340-345 345-350		68 78	20 35	346.0-349.5 - concentration of calc-silicate, as fragments of siliceous epidote-coluured rock in the tectonic breccia.		

### DIAMOND DRILL RECORD

LOCATION	DIRECTION	DIPHOLE No.	
LOGGED BY	CASING	SHEET No	
STARTED	CORE SIZE	CORRECTED TESTS	
EINICHER			

	~~	sampld ppm				
FROM	то	interv.		MO	M	DESCRIPTION
		350-355	230	84	15	354.8 - fine-grained Mo in hairling fractures, associated with some deep-red hematite.
1		355-360	144	46	18	acop 100 monaco200.
		360-370		78	70	
		370-380		84	24	
		380-390		56	45	359-390.5 - extremely fractured ground, with only 24% recovery. Largely tectonic breccia, butwith
		390-395	62	36	55	abundant epidote and epidote- coloured clay-rich gouge material.
						390.4 - two inches of extremely altered and crumbly core are shot through with very fine-grained gre black Mo.
		395-400		30	70	390.4-396.0 - tectonic breccia as
		400-405	190	30	50	above, but this section has a very
1		405-410	96	30	45	bleached matrix, now white-yellow
		410-420		26	22	instead of the usual green.
		420-425		28	18	1
		425-430		30	24	*
		430-435		20	24	
		435-440		17	. 8	436.2,472.0 - small ( 1 mm.) schee
		440-445		52	8	lite crystals associated with
		445-450		40	14	quartz veins and segregations.
		450-455		12	10	
*		455-460		40	28	
		460-465		28	18	
1		465-470		28	20	404 0 7 1 5 W 1 - G - 1 G - G - G
		470-475	108	28	22	484.0 - End of Hole -Sandy Ground
		475-480 480-484	152	46	20	2 1 7 7 1 000
		480-484	74	46	6	Acid Test = $80^{\circ}$



#### APPENDIX III

212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 985-0648 AREA CODE: 604 TELEX: 043-52597

# CHEMEX LABS LTD.

. ANALYTICAL CHEMISTS

GEOCHEMISTS

REGISTERED ASSAYERS

#### CERTIFICATE OF ANALYSIS

CERTIFICATE NO.

36471

TO:

Canadian Occidental Petroleum Ltd.,

801 - 161 Eglinton Ave. East

Toronto, Ont.

INVOICE NO.

15864

RECEIVED

Nov. 27/75

P.E.Nicholls

ANALYSED

SAMPLE NO :	PPM	PPM	PPM	
SAMPLE NO. :	Copper	Molybdenum	Tungsten	Rock Geochem
8601	88	290	60	
8602	110	152	80	
8603	152	66	24	
8604	235	186	1100	
8605	72	210	30	
8606	235	122	55	
8607	128	120	12	
8608	482	200	990	
8609	405	128	65	
8610	295	240	250	
8611	108	66	135	
8612	116	172	18	
8613	46	86	26	
8614	80	86	30	
8615	228	158	280	
8616	131	210	250	
8617	131	230	85	
8618	118	108	40	
8619	120	122	45	
8620	124	160	24	
8621	138	110	292	
8622	392	290	810	
8623	86	200	60	
8624	128	100	24	
8625	186	56	15	
8651	74	410	180	
8652	191	42	22	
8653	222	58	8	
8654	209	98	18	
8976	344	29	45	
8977	700	72	1100	10 10 1 10 10 10 10 10 10 10 10 10 10 10
8978	175	48	8	
8979	146	82	35	
8980	74	70	18	
8981	419	74	65	
8982	134	172	30	THAT A THE STATE OF THE STATE O
8983	74	112	200	
8984	270	138	32	đ
8985	134	86	85	
8986	262		> 2500	
Std,	72	26	20	



CERTIFIED BY:



212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 985-0648
AREA CODE: 604
TELEX: 043-52597

. ANALYTICAL CHEMISTS

. GEOCHEMISTS

. REGISTERED ASSAYERS

#### CERTIFICATE OF ANALYSIS

CERTIFICATE NO.

36472

TO:

Canadian Occidental Petroleum Ltd.,

INVOICE NO.

15864

801 - 161 Eglinton Ave. East Toronto, Ont.

RECEIVED

Nov. 27/75

ATTN:

P. E. Nicholls

C. MacDonald Project Gil

ANALYSED

Dec. 2/75

1977 A 403 (124-00) Santo O (1000) (10)	 PPM	PPM	PPM		
SAMPLE NO. :	Copper	Molybdenum	Tungsten	Rock Geochem	
8987	90	39	55	The same of the sa	
8988	92	62	40		
8989	92	100	110		
8990	138	36	22		
8991	68	33	100		
8992	82	24	70		
8993	465	38	22		
8994	222	62	380		
38995	304	27	130		
8996	203	54	35		
8997	191	172	24		
8998	114	76	292		
8999	170	38	8		
9000	144	82	20		



212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 985-0648

RECEIVED DEC 1 9 1975

J. J. B.

. ANALYTICAL CHEMISTS

GEOCHEMISTS

REGISTERED ASSAYERS

#### CERTIFICATE OF ANALYSIS

CERTIFICATE NO.

36481

Canadian Occidental Petroleum Ltd.,

INVOICE NO.

AREA CODE:

15923

Minerals Division

801 - 161 Eglinton Ave. East

RECEIVED

Dec. 9/75

Toronto, Ont.

G	il Projec	t	ANALYSED	Dec. 15/75
PPM	PPM	PPM		
Copper	Molybde	num Tungsten	Ro	ck Geochem
168	25	65		
283	52	540		
320	104	70		
205	38	24		
175	50	22		
275	56	26		
153	40			
555	88			
260	58			
100	64			
118				
134				
		and the second s	1-001	
				The state of the s
	PPM Copper 168 283 320 205 175 275 153 555 260 100	PPM Copper Molybde  168 25 283 52 320 104 205 38 175 50 275 56 153 40 555 88 260 58 100 64 118 56 134 38 96 43 148 38 114 46 268 92 168 56 62 46 98 80 555 70 104 68 131 78 230 84 144 46 342 78 500 84 131 56 62 36 134 30 190 30 96 30 153 26 80 28 66 30 74 20 70 17 116 52 141 40 104 12 114 40	Copper         Molybdenum Tungsten           168         25         65           283         52         540           320         104         70           205         38         24           175         50         22           275         56         26           153         40         85           555         88         22           260         58         35           100         64         320           118         56         500           134         38         24           96         43         70           148         38         24           196         43         70           148         38         24           114         46         45           268         92         170           168         56         1250           62         46         22           98         80         20           555         70         24           104         68         20           131         78         35           230 <t< td=""><td>PPM PPM PPM PPM Copper Molybdenum Tungsten Ro  168 25 65  283 52 540  320 104 70  205 38 24  175 50 22  275 56 26  153 40 85  555 88 22  260 58 35  100 64 320  118 56 500  134 38 24  114 46 45  268 92 170  168 56 1250  62 46 22  98 80 20  555 70 24  104 68 20  131 78 35  230 84 15  144 46 18  342 78 70  500 84 24  131 56 45  62 36 55  134 30 70  190 30 50  96 30 45  153 26 22  80 28 18  66 30 24  74 20 24  70 17 8  116 52 8  141 40 14  104 12 10</td></t<>	PPM PPM PPM PPM Copper Molybdenum Tungsten Ro  168 25 65  283 52 540  320 104 70  205 38 24  175 50 22  275 56 26  153 40 85  555 88 22  260 58 35  100 64 320  118 56 500  134 38 24  114 46 45  268 92 170  168 56 1250  62 46 22  98 80 20  555 70 24  104 68 20  131 78 35  230 84 15  144 46 18  342 78 70  500 84 24  131 56 45  62 36 55  134 30 70  190 30 50  96 30 45  153 26 22  80 28 18  66 30 24  74 20 24  70 17 8  116 52 8  141 40 14  104 12 10

CERTIFIED BY:



212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 985-0648

AREA CODE:

604

. ANALYTICAL CHEMISTS

GEOCHEMISTS

. REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO.

36482

TO: Canadian Occidental Petroleum Ltd.,

INVOICE NO.

15923

Minerals Division 801 - 161 Eglinton Ave. East

RECEIVED

Dec. 9/75

Toronto, Ont.

ATTMAP 1J5

Gil Project

ANALYSED

Dec. 15/75

SAMPLE NO. :	PPM	PPM	PPM	
	Copper	Molybdenum	Tungsten	Rock Geochem
38081	108	28	18	
38082	116	28	20	
38083	108	28	22	
38084	152	46	20	
38085	74	46	6	

CERTIFIED BY: 1000 DOW



212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 **TELEPHONE: 985-0648** 

AREA CODE:

. ANALYTICAL CHEMISTS

GEOCHEMISTS

. REGISTERED ASSAYERS

### CERTIFICATE OF ANALYSIS

CERTIFICATE NO.

36483

TO: Canadian Occidental Petroleum LTD.,

INVOICE NO.

15923

Minerals Diy.

801 - 161 Eglinton Ave, East Toronto, Ont,

RECEIVED

Dec. 10/75

Dec. 15/75 ANALVSED

TTN: TOPONEO, OHC.	Project Gil			ANALYSED	Dec, 15/75
SAMBLE NO.	PPM	PPM	PPM		***************************************
SAMPLE NO. :	Copper	Molybde	enum Tungsten	Rock	Geochem
8655	250	38	12		
8656	275	78	> 2250		
865 <b>7</b>	108	70	20		
8658	160	32	100		
8659	385	130	24		
8660	160	250	20		
38001	134	230	500		
38002	52	155	60		
38003	168	240	30		
38004	175	155	30		
38005	295	120	200		
38006	295	50	520		
38007	180	195	100	9	
38008	310	62	500		
38009	470	175	70		
38010	230	110	450		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
38011	320	210	100		
38012	175	94	16		
38013	310	140	350		
38014	600	56	70		
38015	131	64	20		
38051	51	42	35		
38052	90	52	45		
38053	108	58	30		
38054	112	46	28		
38055	440	40	320	*******	
38056	96	96	400		
38057	175	28	75		
38058	54	86	50		
38059	54	84	180		
38060	124	88	130	**************************************	
38061	76	44	100		
38062	275	74	115		
38063	108	68	150		
38064	84	46	110		
38065	72	50	70		
38066	180	88	400		
38067	82	50	150		
38068	63	84	280		
38069	94	52	630		
Std.	72	24	18		





212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 985-0648

AREA CODE:

604

· ANALYTICAL CHEMISTS

· GEOCHEMISTS

. REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO.

36484

TO:

Canadian Occidental Petroleum Ltd.,

INVOICE NO.

15923

Minerals Division

THE REAL PROPERTY OF THE PARTY OF

Division Wash

801 - 161 Eglinton Ave. East Toronto, Ont.

RECEIVED

Dec. 10/5

ATTN:

Gil Project

ANALYSED

Dec. 15/75

		GILLIL	Jeec	
action and	PPM	PPM	PPM	
SAMPLE NO. :	Copper	Molyb denur	n Tungsten	Rock Geochem
38070	88	28	100	:V
38071	62	60	1800	
38072	100	40	630	
38073	126	98	300	
38074	131	155	300	
38075	70	136	450	

### APPENDIX IV

### Statement of Expenditures

## LG Claims - 82-E-4W

1)	Salaries, Oct. 1-Nov. 30, 1975, Jan.12-20,1976	\$ 2,072.66
	C.C. Macdonald  Average cost per man day \$30.03	,
2)	Food & Accommodation	1,947.22
3)	Transportation  Motor vehicle usage \$ 290.70  Helicopter 231.65	522.35
4)	Geochemistry - 190 samples, 566 elements analysed	857.00
5)	Report preparation - reproduction, draftsman	225.18
6)	Diamond Drilling	38,642.12
7)	Other costs Camp & Equipment costs Consultant - C.F.Gleeson - 2day Road building Communications 1,212.04 125.00 9,593,75 98.64	11,029.43
	Total	\$55,295.96

