CANADIAN OCCIDENTAL PETROLEUM LTD.

MINERALS DIVISION

REPORT ON DIAMOND DRILLING ON THE GIL-LIG-LI-LG CLAIM GROUP

Claim Sheet No. 82E/4W
Lat: 49°07'
Long: 119°55'

Claims:

GIL	1-26	- Record Numbers	31131-31146
LIG	1-18	- " "	31103-31120
LI	1-20	- " "	31248-31267
LG	1-3	- " "	1-3

by:
Colin C. Macdonald, B.Sc.(Eng.)

Covering Work Completed During the Period
October 24 to October 31, 1977

Contents

SUMMARY

The Gil-Lig-Li-LG claim group is located about seven miles (11 km.) southwest of Keremeos, British Columbia. The 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. Geochemical and geological surveys completed in August, 1975, outlined several anomalies, some of which were diamond drilled in October and November, 1975. It was decided to test the extension of exposed skarn south of Gillanders Creek by drilling one long hole, thus relating the previous smaller holes drilled by Union Carbide Exploration Ltd. This hole, hole 6-77, was completed between October 24 and October 31, 1977, by Connors Drilling Ltd., to a depth of 617 ft. (188 m.), using wireline NQ equipment. The hole intersected a green argillite with some chert interbeds from 0-141.8 ft. (0-43 m.). Calc-silicate skarn is then encountered in lenses and layers up to 1.5 ft. (.5 m.), over a zone from 141.8 - 173.5 ft. (43 - 53 m.). Grey chert continues from 173.5 to 466.0 ft. (53 - 142 m.), with argillite interlayers. The second skarn zone extends from 466.0 to 486.0 ft. (142 - 148 m.), again with layers up to 1.6 ft. thick (.5 m.) in argillite. Interbedded argillite, chert, and some andesite are intersected from 486.0 to 617.0 (148 - 188 m.), the end of the hole. Scheelite is present both as rare crystals in some of the quartz-carbonate-pyrite veins present, and as disseminated crystals in some of the skarn. Geochemical analyses show

generally low values for tungsten, with a high single value of 780 ppm W from 280 - 285 ft. (85 - 86 m.), and the best section from 140-165 ft. (43 - 50 m.), with an average of 287 ppm W over 25 ft. (8 m.). Copper, molybdenum, and zinc values were low for this area with highs of 930 ppm Cu, 72 ppm Mo, and 255 ppm Zn. Further drilling is not necessary at present on the south side of Gillanders Creek, but the required depth to reach the projected skarn layers north of Gillanders Creek was not reached in 1975, and this should be done as the next stage of evaluation.

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 done in November, 1973, and re-staking carried out in August, 1974, all by employees of Canadian Occidental Petroleum Ltd. A 1974 survey outlined a major copper, molybdenum and tungsten anomaly 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. This outlined a major coincident anomaly for Cu, Mo and W in a northwest-trending band roughly 3800 x 2000 ft. (1159 x 610 m.). Diamond drilling of parts of this anomaly was carried out in October and November of 1975. The desired depth was not achieved due to drilling difficulties, however, Cu, Mo and W mineralization was intersected, largely in the quartz veins.

This report will describe the results of a diamond drill hole drilled to intersect the projections of exposed skarn beds south of Gillanders Creek, the same area previously drilled by Union Carbide Exploration.

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 (Figs. 1 and 2). It is accessible by road from Indian Range Reserve No. 13, a distance of 18 miles (29 km.) from Highway #3 south of Cawston.

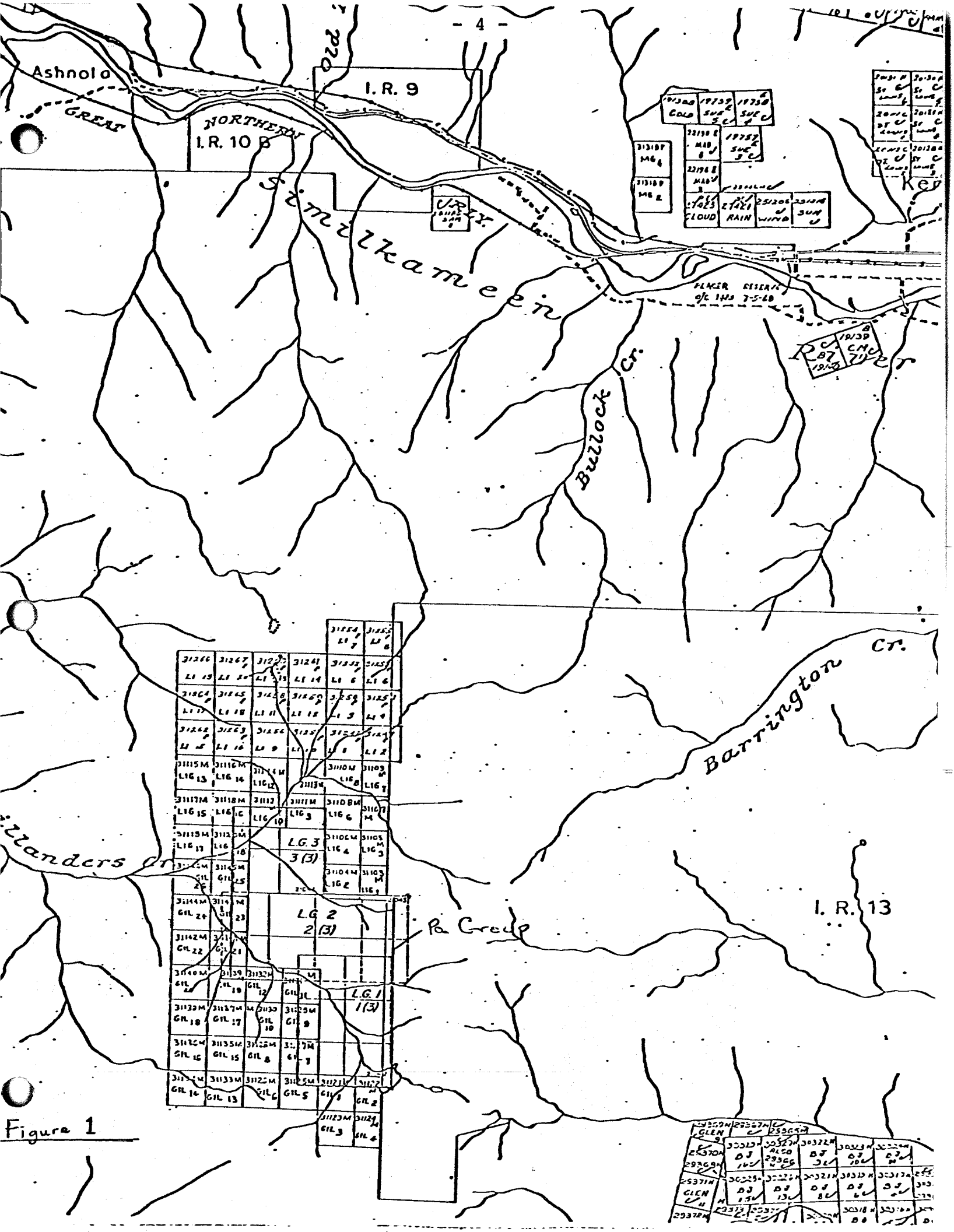
Ashnola
GREAT NORTHERN
I.R. 9
I.R. 10 B
Similkameen
Buzzock Cr.
Barrington Cr.
Allanders Cr.
Pa Creek
I. R. 13
L.G. 3
3 (3)
L.G. 2
2 (3)
L.G. 1
1 (3)

Figure 1

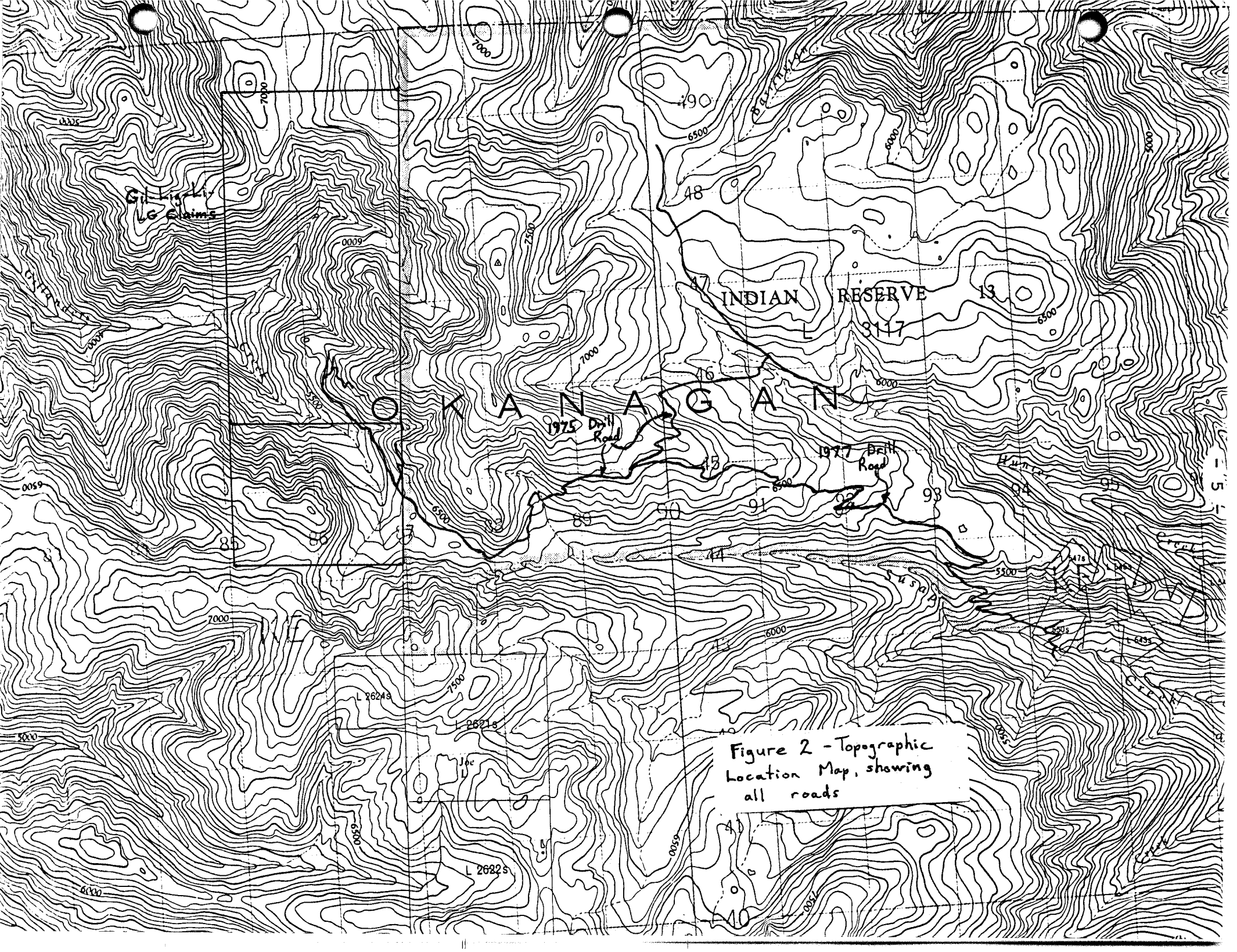

Figure 2 - Topographic Location Map, showing all roads

WORK COMPLETED

Road Building and Site Preparation

A road joining the previously existing access road to Susap Creek (King Edward Crown Leases) to the 1975 access road to the Gil-Lig-Li-LG claims was constructed by George Thompson of Oliver, British Columbia, between September 6 and October 17, 1977, using a Caterpillar D-7F bulldozer. Also constructed during this period was an access road to the site Gil 6-77, and the site itself. Total road miles constructed was approximately 5 miles (8 km.).

Diamond Drilling

A total of 617 feet (188 m.) of wireline NQ diamond drilling was completed by Connors Drilling Ltd. between October 24 and October 31, 1977 on Claim LG-1. The equipment used was a Longyear 25A with hydraulic head and chuck. Geological supervision was by C.C. Macdonald of Canadian Occidental Petroleum Ltd.

Drilling conditions were difficult, primarily due to the extreme hardness of the rock, which is largely a glassy chert. The first bits used lasted only 20 feet (6 m.) on the average, slowing progress due to the numerous bit changes. Subsequent bits worked much better, combined with the use of a cutting oil in the drilling water. Some mud was used throughout the hole, and circulation was maintained to the end. Further problems were caused by the highly fractured nature of the near-surface rock, for about 80 ft. (24 m.)

However, once past this zone, the rock was very competent, with much fewer soft altered zones, shears, and fractures than were encountered in the 1975 drilling. Two 12-hour shifts were employed, with the average shift footage being 44.0 ft./shift (13.5 m./shift) and the average daily footage being 88.1 ft./day (27 m./day).

Water was pumped from Gillanders Creek where it meets the road, and actual (uphill) distance of about 1000 feet (305 m.), and a rise in elevation of 450 feet (137 m.).

Logging and Sampling

The core was logged and split by C.C. Macdonald, with the logging completed on the property while drilling was in progress. Splitting and sampling was carried out using the facilities of the Canadian Occidental Petroleum Ltd. warehouse at 171 Estabrook Avenue, Penticton, B.C. The entire core was split, and five-foot (1.5 m.) lengths were sampled and sent for analysis.

Geochemical Analysis

The samples were sent by Greyhound Bus to Chemex Labs Ltd., 212 Brooksbank Avenue, North Vancouver, for analysis for Cu, Zn, Mo and W. Tungsten is analysed colourimetrically, and the remaining metals by atomic absorption.

GEOLOGY

For a detailed description of the geology of the Gil-Lig-Li-LG group, see report by C.C. Macdonald, dated September, 1975.

DRILLING RESULTS

Hole GIL 6-77

This hole was collared at Line 61+30E/31+40S, drilled vertically on claim LG-1 to intersect all skarn zones present south of Gillanders Creek.

The hole was collared in bedrock, but severely fractured ground for the first five feet (1.5 m.) resulted in virtually no recovery for this section. This surficial fracturing extends to about 80 ft. over this section. From 5.0 to 29.0 feet (1.5 to 9 m.), the core consists of dark green argillite, with occasional small epidote lenses. After a section of chert, this green argillite with skarn lenses is intersected again from 49.0 to 87.9 ft. (15 to 27 m.). White-to-grey chert with interbedded argillite is at between 87.9 and 141.8 feet (27 to 43 m.). The first skarn bed is encountered from 141.8 to 143.2 ft. (43 to 44 m.), and two others from 148.7 to 149.9 ft. (45 to 46 m.) and from 154.5 to 156.0 ft. (47 to 48 m.), with chert between these layers. Scheelite is fairly abundant in these skarn layers as evenly-separated tiny crystals, usually in the grossularite zones. Chert with varying proportions of interbedded argillite is intersected between 156.0 and 424.5 ft. (48 to 129 m.). Scheelite is only occasionally present here, usually in minor amounts with quartz veins, but at 283-284.2 ft.(1.2 ft.) [84.9 - 85.3 m.(0.4 m.)], disseminated scheelite makes up about 5% of this section of chert cut by random epidote fractures.

A green argillite is intersected at 424.5 ft. (129 m.), with minor epidote lenses throughout. Skarn layers are found from 466.0 to 467.6 ft. (142 to 143 m.), 477.9 to 479.0 ft. (146 to 147 m.), 480.8 to 481.5 ft. (146.6 to 146.8 m.), and 484.4 to 486.0 ft. (147.7 to 148.2 m.), with green argillite between the beds. This argillite continues to 551.3 ft. (168 m.), where an interbedded series of argillite, chert and porphyritic andesite continues to the end of the hole. Scheelite is again found in small amounts in the skarn beds, but more often in the quartz veins, with carbonate and pyrite. Compositional layering in the hole is quite consistent, at about 65-70° LCA. The hole was stopped at 617 ft. (188.2 m.), sufficient depth to intersect the skarn layers.

The geochemical values (Appendix II) show generally low copper, molybdenum and zinc values, with high values of 930 ppm Cu at 170-175 ft. (52-53 m.), 72 ppm Mo at 45-50 ft. (14-15 m.), and 255 ppm Zn at 160-165 ft. (49-50 m.). Tungsten corresponds well to the skarn layers, especially from 140-165 ft. (43-50 m.). This is the best overall section for tungsten, averaging 287 ppm over 25 ft. (8 m.). Elsewhere, tungsten values are related to scheelite-pyrite-quartz veins, regardless of rock type. The lower skarn sequence, from 466-486 ft. (142-148 m.), contains less tungsten, with only one anomalous value of 280 ppm W from 465-470 ft. (142-143 m.). The single highest, tungsten

value of 780 ppm W, from 280-285 ft. (85-86 m.) corresponds to the 2.2 ft. (0.7 m.) section of epidote-laced chert with disseminated scheelite. There is a fairly good correlation between Zn and W in the samples, and some correlation between Cu, Mo and Zn.

CONCLUSIONS

The diamond drilling described in this report has confirmed the presence of tungsten-bearing skarn layers extending up to 300 ft. (91.5 m.) down-dip from similar intersections from previous drilling. This supports the model of a continuous, stratiform occurrence of skarn over the extent of the original limestone beds prior to thermal and regional metamorphism. Geochemical analyses showed the skarn intersected did not contain economically interesting tungsten levels.

RECOMMENDATIONS

The diamond drilling described here supports the geochemical evidence that the main tungsten-bearing source is on the north side of Gillanders Creek. The 1975 drilling here intersected much higher tungsten and base metal values than did hole 6-77, even though the depth required to intersect the projected skarn layers was not reached. Hence this must be achieved as the next stage of evaluation, using NQ machinery, similar to that used for hole 6-77 set up near hole 5-75, where outcrop is present, or by drilling from the north side of the ridge, enabling a more perpendicular drilling of the skarn.

Respectfully submitted

C.C. Macdonald, B.Sc.(Eng.)

TORONTO
Nov. 22, 1977

CANADIAN OCCIDENTAL PETROLEUM LTD.

MINERALS DIVISION

DIAMOND DRILL RECORD

APPENDIX I

LOCATION L61+30E/31+40S DIRECTION - DIP 90° HOLE No. 6-77

LOGGED BY C.C.Macdonald CASING 0-5' SHEET No. 1

STARTED Oct. 24, 1977 CORE SIZE NQ CORRECTED TESTS

FINISHED Oct. 31, 1977

PROPERTY GIL

FROM	TO		DESCRIPTION
0	5'		Cased overburden and very broken bedrock, virtually no recovery.
5.0'	29.0'		Dark green argillite, with little original sedimentary structure visible. Occasional isolated lenses of calc-silicate, composed largely of epidote, with minor grossularite, quartz, and calcite. These show tiny isoclinal folds in detail. Rare Py in the calc-silicate lenses. Quite highly fractured section.
29.0'	49.0'		White-to-grey chert, sometimes translucent, with some interbedded green-to-dark grey argillite. Very little epidote, and this as random stringers. Quartz veins are very rare. 30.3 - tiny scheelite crystals strung out along a fracture, 27° LCA. 32.4 - minor scheelite, Mo in an epidote stringer. 40.0 - Compositional layering - 63° LCA. 41.5 - 1 mm. scheelite crystals in an epidote-coloured stringer. 47.6 - tiny scheelite crystals in a fracture.
49.0'	87.9'		Dark green argillite with occasional small (<5 cm) calc-silicate lenses and stringers. Pyrite more abundant in parts of this section, usually as small lenses which lie on fractures. At 56.0 feet, the argillite shows a foliated crystalline texture, with foliation 50° LCA. Quartz veins quite sparse - about one per five feet of core. 58.0, 71.1 - 2 mm. scheelite crystals in a rusty fracture zone. 52.8 - minor fine-grained scheelite, in a skarn lens 69.8 - two 3 mm. crystals of scheelite on a narrow rusty carbonate fracture.
87.9'	141.8'		White-to-grey chert, with about 30% well-layered interbedded brown-to-grey argillite as above. Much less pyrite than previous section. 89.0 - compositional layering - 60° LCA. 95.0 - compositional layering - 64° LCA. 110.6 - Poor recovery here, only three rock chips, but they contain epidote-rich calc-silicate lenses. 117.5 - compositional layering - 67° LCA. 139.0 - compositional layering - 61° LCA.

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DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. 6-77

LOGGED BY_____ CASING_____ SHEET No. 2

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY GIL

FROM	TO		DESCRIPTION
			69.8 - two 3 mm. crystals of scheelite on a narrow rusty carbonate fracture.
87.9'	141.8'		White-to-grey chert, with about 30% well-layered interbedded brown-to-grey argillite as above. Much less pyrite than previous section. 89.0 - compositional layering - 60° LCA 95.0 - compositional layering - 64° LCA 110.6 - poor recovery here, only three rock chips, but they contain epidote-rich calc-silicate lenses. 117.5 - compositional layering - 67° LCA 139.0 - complsitional layering - 61° LCA
141.8'	143.2		Calc-silicate skarn, largely composed of siliceous epidote, with some chert lenses,and about 10% irregular grossularite lenses. Cut by a 3 mm. quartz-pyrite-Mo-sphalerite vein, contains a few tiny scattered scheelite crystals.
143.2'	148.7		Chert with interbedded argillite as above.
148.7'	149.9		Calc-silicate skarn, showing good mineral zoning, with the central 8 inches being largely brown grossularite, rimmed by epidote and chlorite-stained argillite. Again, a quartz-Py vein cuts the skarn. A number of scattered 1 mm. scheelite crystals are throughout the grossularite zone.
149.9'	154.5		Glassy chert, with random epidote and chlorite stringers and fracture stains, and occasional skarn lenses (<1 cm., <3%). Also about 5% brown argillite, highly deformed around the chert. Pyrite and pyrrhotite are present up to 4% as random stringers.
154.5'	156.0		Calc-silicate skarn, with about 40% interfingered glassy chert, minor scheelite.

CANADIAN OCCIDENTAL PETROLEUM LTD.

MINERALS DIVISION

DIAMOND DRILL RECORD

6-77

LOCATION_____ DIRECTION_____ DIP_____ HOLE No._____

LOGGED BY_____ CASING_____ SHEET No. 3

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY GIL

FROM	TO		DESCRIPTION
156.0'	173.5		Glassy Chert as above, with 5-10% brown argillite, serving as interstitial material between the lenticular chert. Occasional poorly-developed skarn sections, all approximately 5 cm. except where noted below: 158.1, 159.4 - minor scheelite in hairline fractures. Skarn sections at: 157.7 - with a few specks scheelite 158.5 159.0 159.5 - with some scheelite 161.7 - (8 cm.) - abundant tiny scheelite crystals 165.0 165.9 171.9 - with a few 1 mm. crystals scheelite 172.6 - (13 cm.)
173.5'	190.3		White-to-glassy chert, with very little of anything else, only about 3% argillite. Two short sections 175.4-175.8, and 178.4-178.8, are composed of a gritty grey finely laminated rock, with scattered quartz clasts - likely a dacitic tuff. Very little veining or fracturing. Poor recovery (~35%) from 179-184 ft., due to very broken ground. 174.0 - compositional layering - 66°LCA.
190.3'	424.5		Whtie-glassy grey chert, but with a greater porportion of grey-tobrown argillite, 10-40%. Chert often displays the lenticular texture, especially in the thinner beds, with the argillite filling the interstices. Veining and fracturing fairly sparse in this section, listed below:

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MINERALS DIVISION

DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. 6-77

LOGGED BY_____ CASING_____ SHEET No. 4

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY GIL

FROM	TO		DESCRIPTION
			200.8, 202.3, 207.1, 210.0, 215.8, 216.2 223.6, 228.2, 255.0, 263.5, 264.4, 281,6, 296.1 Quartz-pyrite veins, about 3-5 mm. width, usually <3% pyrite, core angles consistently 30-40° LCA. 220.6 - hairline fracture, lines with quartz-pyrite and six large (5 mm.) but hairline-thin scheelite crystals. 224.0 - compositional layering - 71° LCA 293.0 - compositional layering - 68° LCA 286.9 - Scheelite in narrow quartz-filled fracture 283.0-284.2 - this section of chert is laced with epidote stringers, which make up only 2%, however, also carry hundreds of tiny specks of scheelite. 313.0, 318.2 - narrow quartz-pyrite-scheelite vein 35° LCA. 320.0 - compositional layering - 71° LCA 325.2 - only a few chips recovered but contain calc-silicate lenses over 5 cm. 335.1 - narrow quartz-pyrite-scheelite vein 338.0 - undulating quartz-carbonate vein, with minor Py 345.0 - long 5 mm. quartz-pyrite vein,with a few 1 mm. scheelite crystals, 15° LCA 356.4 - 1 cm.-wide quartz-pyrite vein, 20° LCA, a few scheelite crystals ~1 mm. 360-395 - this section , still within the chert, has a noticeable increase in the density of hairline fractures, both quartz and carbonate-filled, of all core angles. 365.2 - compositional layering - 65° LCA 379.5 - 6 mm.-wide quartz-pyrite-scheelite vein, 20° LCA, still <1% scheelite in the vein
424.5	466.0		Green argillite, siliceous in sections, hornfelsed throughout. Well-banded, with alternating silty and softer argillaceous material. Small (<5 cm.) calc-silicate lenses, largely epidote, are scattered throughout, about one per three feet of core, and usually contain some Py. Relatively sparse veining.

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MINERALS DIVISION
DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. 6-77

LOGGED BY_____ CASING_____ SHEET No. 5

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY GIL

FROM	TO		DESCRIPTION
			425.0 - compositional layering - 68° LCA 434.5 - 4 mm. quartz-pyrite vein, 26° LCA 442.7 - minor scheelite in a quartz-filled fracture. 457.0 - this 7 cm. skarn lens has a deep red hematite stain through parts of it.
466.0	467.6		80% epidote-rich skarn, with intermixed green argillite; quite rich in pyrite ~3%. Also two indistinct quartz veins, or segregations, which localize the scheelite, up to 7 mm. crystals, making up to 2% of the section.
467.6	477.9		Green argillite with skarn lenses as above.
477.9	479.0		Epidote-grossularite skarn, cut by a 2 cm.-wide quartz vein, 35° LCA
479.0	480.8		Green argillite with occasional skarn lenses as above.
480.8	481.5		Epidote-rich calc-silicate skarn, minor Py
481.5	484.4		Green argillite as above
484.4	486.0		Epidote-grossularite skarn, minor intermixed green argillite bands. Contains two low-angle quartz-pyrite veins.
486.0	551.3		Green argillite as above, some minor chert interbeds near the bottom of the section. 505.3 - 5 mm. quartz-carbonate-Py-ssheelite vein. 506.4, 507.7 - tiny scheelite crystals in quartz segregations. 531.7 - 514.3 - carbonate -quartz-pyrite vein breccia, not related to any skarn development. 514.3 - 517.5 - a softer, altered seciton, quite broken up due to many hairline fractures. 544.1 - minor scheelite in a fracture.

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MINERALS DIVISION
DIAMOND DRILL RECORD

LOCATION_____ DIRECTION_____ DIP_____ HOLE No. 6-77

LOGGED BY_____ CASING_____ SHEET No. 6

STARTED_____ CORE SIZE_____ CORRECTED TESTS_____

FINISHED_____

PROPERTY GIL

FROM	TO		DESCRIPTION
551.3	574.5		White-to-grey chert, with very little interbedded argillite, moderately fractured. 558.1 - minor scheelite in a quartz fracture.
574.5	581.3		Green porphyritic andesite, with dark elongate mafic phenocrysts to 2 mm. in a green fine-grained groundmass. Cut by two major low-angle quartz-Py veins. 575.0 - minor scheelite in a narrow quartz vein.
581.3	591.7		Interbedded white chert and dark grey-brown argillite, with occasional lenses and stringers of epidote. Becomes progressively more thinly-layered and more argillic towards 591.7. 588.5 - compositional layering - 71° LCA
591.7	595.2		Finely-layered dacitic tuff, with alternating tuffaceous and grey argillic layers. Cut by irregular small epidote-rich skarn lenses.
595.2	603.4		Green andesite as above, with finely disseminated pyrite throughout. Cut by low-angle (~20° LCA) quartz-pyrite veins at 596.4, 597.1, 602.3. 602.3 - scheelite crystals up to 3 mm. in quartz vein.
603.4	617.0		About equal proportions interbedded white chert and grey-to-green argillite, with variable thicknesses. 614.0 - compositonal layering - 69° LCA 617.0 = END OF HOLE

APPENDIX II

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. 42507
INVOICE NO. 22601
RECEIVED Nov. 7/77
ANALYSED Nov. 10/77

TO: Canadian Occidental Petroleum Ltd.
Minerals Division
801 - 161 Eglinton Ave. East
Toronto, Ontario
ATTN: P.E. Nichols

cc: Mr. McDonald
PROJECT GIL
ROCKS

SAMPLE NO. :		PPM Copper	PPM Molybdenum	PPM Zinc	PPM Tungsten
38426	5-10	198	3	86	14
38427	10-15	118	3	68	4
38428	15-20	110	4	118	4
38429	20-25	120	4	106	6
38430	25-30	104	3	66	4
38431	30-35	68	4	68	280
38432	35-40	66	4	40	8
38433	40-45	64	8	66	420
38434	45-50	920	72	68	170
38435	50-55	114	5	54	16
38436	55-60	270	15	60	22
38437	60-65	20	2	56	2
38438	65-70	120	7	74	4
38439	70-75	120	17	60	10
38440	75-80	94	5	76	6
38441	80-85	120	15	60	10
38442	85-90	220	5	88	4
38443	90-95	80	5	80	4
38444	95-100	108	6	98	4
38445	100-105	72	7	84	4
38446	105-110	86	7	60	6
38447	110-115	88	3	80	4
38448	115-120	98	4	90	4
38449	120-125	110	5	94	10
38450	125-130	82	4	78	2
38451	130-135	76	6	68	4
38452	135-140	78	7	74	4
38453	140-145	164	9	118	135
38454	145-150	210	33	148	330
38455	150-155	230	10	104	210
38456	155-160	126	5	108	290
38457	160-165	104	4	255	470
38458	165-170	184	3	62	14
38459	170-175	930	25	166	440
38460	175-180	106	2	66	28
38461	180-185	70	6	76	12
38462	185-190	130	7	66	10
38463	190-195	76	3	66	20
38464	195-200	64	7	76	8
38465	200-205	66	6	68	30
STD.		90	9	128	8

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: A.P. Chapman

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

CHEMEX LABS LTD.

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 42508
INVOICE NO. 22601
RECEIVED Nov. 7/77
ANALYSED No. 9/77

TO: Canadian Occidental Petroleum Ltd.
Minerals Division
801 - 161 Eglinton Ave. East
Toronto, Ontario

ATTN: P.E. Nichols

PROJECT GIL

SAMPLE NO. :		PPM Copper	PPM Molybdenum	PPM Zinc	PPM Tungsten	Rocks
38466	205-210	52	3	30	60	
38467	210-215	118	5	40	60	
38468	215-220	52	26	64	130	
38469	220-225	64	9	82	250	
38470	225-230	66	5	50	230	
38471	230-235	72	4	62	8	
38472	235-240	74	3	48	20	
38473	240-245	78	2	62	12	
38474	245-250	72	2	52	8	
38475	250-255	54	3	58	10	
38476	255-260	32	1	44	8	
38477	260-265	48	2	64	14	
38478	265-270	52	2	52	18	
38479	270-275	92	1	44	16	
38480	275-280	78	3	56	20	
38481	280-285	80	4	240	780	
38482	285-290	54	4	62	40	
38483	290-295	60	5	74	4	
38484	295-300	74	15	80	6	
38485	300-305	76	5	54	6	
38486	305-310	78	3	90	4	
38487	310-315	96	5	32	12	
38488	315-320	72	4	90	150	
38489	320-325	56	11	62	8	
38490	325-330	82	1	50	22	
38491	330-335	66	4	68	70	
38492	335-340	98	10	42	12	
38493	340-345	68	8	68	45	
38494	345-350	92	16	90	30	
38495	350-355	50	4	60	16	
38496	355-360	76	22	80	40	
38497	360-365	142	10	64	24	
38498	365-370	106	3	54	28	
38499	370-375	58	3	74	20	
38500	375-380	96	7	70	85	
38501	380-385	96	5	54	20	
38502	385-390	92	7	52	18	
38503	390-395	102	7	112	24	
38504	395-400	74	3	82	22	
38505	400-405	112	3	84	12	
STD.		90	9	128	10	

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: H P Sharpe

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. 42509
INVOICE NO. 22601
RECEIVED Nov. 7/77
ANALYSED Nov. 9/77

TO: Canadian Occidental Petroleum Ltd.
Minerals Division
801 -161 Eglinton Ave. East
Toronto, Ontario

ATTN: P. Nichols ROCKS PROJECT GIL

SAMPLE NO. :		PPM Copper	PPM Molybdenum	PPM Zinc	PPM Tungsten
38506	405-410	150	8	82	20
38507	410-415	66	5	52	20
38508	415-420	104	5	56	22
38509	420-425	196	8	58	20
38510	425-430	110	6	92	10
38511	430-435	205	5	102	65
38512	435-440	70	8	76	2
38513	440-445	225	4	90	16
38514	445-450	136	4	72	16
38515	450-455	68	1	76	4
38516	455-460	250	2	100	4
38517	460-465	116	3	80	6
38518	465-470	200	6	86	280
38519	470-475	122	3	98	10
38520	475-480	220	1	78	14
38521	480-485	330	2	84	6
38522	485-490	330	3	82	8
38523	490-495	28	8	82	24
38524	495-500	108	18	80	16
38525	500-505	130	13	106	14
38526	505-510	68	16	86	230
38527	510-515	76	15	78	35
38528	515-520	114	17	128	240
38529	520-525	170	5	100	4
38530	525-530	230	2	94	65
38531	530-535	136	28	106	6
38532	535-540	92	6	100	28
38533	540-545	245	4	102	580
38534	545-550	96	4	94	60
38535	550-555	80	3	64	16
38536	555-560	72	11	26	16
38537	560-565	82	4	38	30
38538	565-570	116	3	50	22
38539	570-575	104	5	52	190
38540	575-580	255	2	74	8
38541	580-585	210	2	58	20
38542	585-590	130	3	96	16
38543	590-595	176	4	102	310
38544	595-600	265	5	54	140
38545	600-605	285	12	64	210
STD.		92	10	128	8

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: A P Sharpe

CHEMEX LABS LTD.

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. 42510
INVOICE NO. 22601
RECEIVED Nov. 7/77
ANALYSED Nov. 9/77

TO: Canadian Occidental Petroleum Ltd.
Minerals Division
801 - 161 Eglinton Ave. East
Toronto, Ontario

cc: Mr. McDonald

ATTN: P.E. Nichols Rocks PROJECT GIL

SAMPLE NO. :		PPM Copper	PPM Molybdenum	PPM Zinc	PPM Tungsten
38546	605-610	128	5	78	32
38547	610-617	122	5	68	20

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: H.P. Heffer

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6557

DEPARTMENT OF MINES
AND PETROLEUM RESOURCES

FORM B (*Section 51*) MINERAL ACT

Mining Recorder
Penticton
Dec. 20/77

Affidavit on Application to Record Work

1. I, Roger H. Wallis (Name)
801-161 Eglinton Ave. E. (Address)
Toronto, Ont. M4P 1J5
Free Miner's Certificate No. 155483
Date issued Nov. 29, 1977

Agent for Canadian Occidental Petroleum Ltd (Name)
801-161 Eglinton Ave. E. (Address)
Toronto, Ont. M4P 1J5
Free Miner's Certificate No. 155570
Date issued Dec. 29, 1977

MAKE OATH AND SAY:

2. I have done, or caused to be done, work on the LG #1, LG #2, Gil 1-26 Mineral Claim(s)

Record No.(s) 1,March,2 March, 31121-46 Sept., Inclusive

Situate at Gillanders Creek in the Osoyoos Mining Division,

to the value of at least 26,407.65 dollars. Work was done from the 24 day

of October 19 77, to the 31 day of October 19 77

3. The following is a detailed statement of such work done in the 12 months in which such work is required to be done.

(COMPLETE APPROPRIATE SECTION(S) A, B, C, D, BELOW)

A. PHYSICAL (Trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails)

(Give details as required by regulations)	COST
TOTAL	

I wish to apply $ of this work to the claims listed below. CM BW
(State number of years to be applied to each claim and its month of record)

(For B, C, and D sections please turn over)

B. DRILLING

(Details as per report submitted)	COST
see C.C. Macdonald's report attached	26,407.65

I wish to apply $ 10,400. of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

GIL 1-26 inc. Sept., 2 years x $200 $10,400.

C. PROSPECTING

(Details as per report submitted)	COST

I wish to apply $ _____ of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

D. GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL (Includes line cutting)
(State type of work)

	COST
TOTAL	

I wish to apply $ _____ of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

NOTE—Dollar value of work done under A, B, C, or D sections, totalling $200, may be applied as one year's work.

Who paid for the above-described work? Name Canadian Occidental Petroleum Ltd.
Address 801-161 Eglinton Ave. E.,
Toronto, Ont. M4P 1J5

If you intend to claim a refund of cash in lieu under the provisions of the *Mineral Act*, you must make application on this affidavit under A, B, C, or D sections as applicable.

4. That I have not and will not use the work declared herein in any way for the purposes of obtaining tax exemption on a Crown-granted mineral claim under the terms of the *Mineral Land Tax Act*.

SWORN and subscribed to at TORONTO
this 19 day of December
19 77, before me
*

PATRICK E. NICHOLLS
Notary Public, Province of Ontario, for
Canadian Occidental Petroleum Ltd.
Expires February 12, 1979.

* This affidavit may be taken by a person empowered to take affidavits by the *Evidence Act* of British Columbia.

STATEMENT OF EXPENDITURES

GIL-LIG-LI-LG CLAIM GROUP

N.T.S. 82 /E 4W

Salaries - M.P. Henrick, C.C.Macdonald 50 man days at 62.43/man day	$ 3,121.29
Drilling	20,253.38
Road Construction	9,571.00
Blasting	2,481.23
Geochemical Analysis 122 samples, 488 determinations	660.08
Camp Costs	1,806.24
Transportation	378.61
Reporting Costs	188.05
	$38,459.88

Breakdown:	Lig-Li-Group -	$12,052.23
	Lg 1-2, Gil 1-26	26,407.65
		$38,459.88

GEOLOGY

SYMBOLS

- Diamond Drill Hole (Vertical)
- Diamond Drill Hole, with dip
- Compositional layering
- Limestone Bed (known, inferred)
- Foliation
- Ravine
- 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

DDH Location

CANADIAN OCCIDENTAL PETROLEUM LTD
MINERALS DIVISION

GIL-LIG-LI-LG CLAIMS

OSOYOOS MINING DIVISION, BRITISH COLUMBIA — 82-E-4W

GEOLOGY AND DRILL HOLE LOCATIONS

DECEMBER 1977 — SCALE IN FEET 400 0 400 800 — PLAN 1

LEGEND

- Chert
- Chert, with Argillite Interlayers
- Argillite, with Chert Interlayers
- Argillite
- Skarn, Layer and Lenses
- Dacitic Tuff
- Andesite
- Diamond Drill Hole
- Vein or Fracture
- Direction of Compositional Layering
- Inferred Geological Contact
- Projected Skarn Layers
- □ Scheelite
- △ Molybdenite
- ○ Sphalerite

VERTICAL SCALE
1" = 50'

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION

PROJECT GIL

OSOYOOS MINING DIVISION, BRITISH COLUMBIA — 82-E-4/W

GEOLOGICAL AND GEOCHEMICAL SECTION

(TAKEN ALONG 305°T, LOOKING NORTHEAST)

DECEMBER, 1977 PLAN 2

L 60E

L 64E

Gillanders Creek

4a

2

1

CANOXY
Channel Sample
1 0·04% over 45'
2 0·15% over 30'
3 0·03% over 25'

N

U.C. 12

U.C. 8

U.C. 4

4 0·5% over 10'

5 1·0% over 10'

GIL 6-77

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION

GIL-LIG-LI-LG CLAIMS

OSOYOOS MINING DIVISION, BRITISH COLUMBIA— 82-E-4/W

DETAILED PLAN OF LG-1 SKARN

SCALE 1"=50'

LEGEND

- OUTCROP
- COMPOSITIONAL LAYERING
- GEOLOGICAL CONTACT-INFERRED
- MAIN CALC-SILICATE SKARN BED

ROCK UNITS

- 1 ..... CHERT, WITH SOME ARGILLITE INTERBEDS
- 2 ..... ARGILLITE, WITH SOME CHERT INTERBEDS
- 4a ..... CALC-SILICATE SKARN

- UNION CARBIDE DDH
- CANOXY DDH

DECEMBER 1977 - PLAN 3