

COMINCO LTD.

EXPLORATION
NTS: 82E/12

WESTERN DISTRICT
February 3, 1981

ASSESSMENT REPORT 1980
LINE CUTTING AND SOIL GEOCHEMISTRY
ON THE GLEN PROPERTY

(Glen Claim)

MUNROE LAKE AREA, OSOYOOS M.D., B.C.

(Work performed August 12 - 20, 1980)

LATITUDE: 44⁰44'N

LONGITUDE: 119⁰58'W

REPORT BY:

M.J. OSATENKO

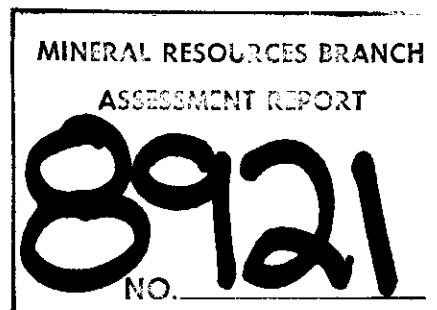


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SUMMARY

The Glen property is located 53 km northwest of Summerland, B.C. and 17 km south of the Brenda Mine. It adjoins Canadian Occidental's Mun property on the west.

Work in 1980 consisted of re-establishing 11.2 km of old grid and conducting 2.4 km of soil sampling on two new grid lines on the west side of the old grid. The soil work extended the existing Mo-Zn soil anomaly 800 feet (244m) to the west where it is still open. Detailed geological mapping is recommended over the whole property as is further sampling to better define the soil anomaly.

INTRODUCTION

The Glen property was staked in 1980 to protect Mo silt and soil anomalies and Mo showings reported by Canadian Occidental in 1974. Work in 1980 by Cominco consisted of re-establishing part of the old Canadian Occidental grid (11.2km) and doing 2.4 km of soil sampling (42 samples) on two new lines on the west side of the old grid.

LOCATION

The Glen property is located 53 km northwest of Summerland, B.C. and 1 km south of Eneas Lake Park (Plate 1). It is accessible by truck from Summerland first to Darke Lake and then by 4-wheel drive along the Eneas Lake Park road.

PROPERTY AND OWNERSHIP

The Glen property is 100% owned by Cominco Ltd. and consists of the following claim:

<u>CLAIM</u>	<u>RECORD NUMBER</u>	<u>NUMBER OF UNITS</u>	<u>DUE DATE</u>
Glen	1162	9	July 15/84

PREVIOUS WORK

The following description of previous work is from Carr(1967) and an assessment report by Canadian Occidental(5318). The property was first discovered by A. Burton in 1966 from geochemical indications(silt?). Work on the property in 1966 was done by Bren Mac Mines Ltd., Brenda Mines Ltd.(under option) and by Lakeland Base Metals Ltd., and included trenching, about 2000 feet of percussion drilling in 100 ft. deep, 45°S inclined holes situated at 100 ft. intervals in the trenches, and soil sampling. Work in 1967 by Lakeland Base Metals Ltd. consisted of soil sampling which is reported not to have extended the previously known soil anomaly.

The property is presumed to have been dormant until it was restaked in July, 1970 by Copper Range Exploration Company Inc., under the name of the Hen group. Work at this time, according to Copper Range personnel, is thought to consist only of staking after a stream silt program. The property was probably not worked on from 1970 until it was staked by Canadian Occidental in 1973. Their work included detailed geological mapping, soil geochemistry, ground magnetics and four diamond drill holes. They defined a large Mo-Zn soil anomaly, 2500 x 1000 m, that is in part coincident with a quartz stockwork that contains traces of pyrite, chalcopyrite and molybdenite. Their limited drilling failed to encounter significant mineralization and as a result they became discouraged and dropped the west half of the porphyry system in 1977.

REGIONAL GEOLOGY

The oldest unit in the area is a sequence of basic, volcanic rocks and sediments of the Upper Triassic Nicola group(Little,1961). Cutting these rocks are granodiorites of the Jurassic Okanagan granitic complex. The mineralization on the Glen property and at the Brenda Mine is in these rocks but at the Glen the mineralization may be related to early Tertiary calc-alkaline plugs. This is based mainly on the fact that at other locations, where abundant sphalerite is present, the rocks are of this age(Whiteman and Tuzo Creeks and Carmi in B.C. and Mt. Tolman in Washington State).

LINE CUTTING

The old Canadian Occidental grid, that now lies in part on our property, was re-established by blazing and by adding new flagging to the lines(11.2 km). In addition the coordinates for each station were marked on aluminum tags that were then nailed to the pickets.

SOIL GEOCHEMISTRY

The soil survey(42 samples) extended the old Canadian Occidental survey 800 feet(244 m) to the west. Samples were collected from the B horizon at a depth of from 10-20 cm and at intervals of 200 feet(61 m) on the lines. All samples were then analyzed for Cu, Zn and Mo at Cominco's laboratory in Vancouver. Cu and Zn were determined by atomic absorption spectrophotometry after a 20% HNO₃ digestion while Mo analyses were obtained using a Zn dithiol colorimetric procedure after a HClO₄-HNO₃ digestion. The coefficient of variation for Cu

and Zn is 10% while for Mo it is 15%. Histograms and previous experience in the area suggest that the thresholds of anomaly for Cu, Zn and Mo are 50, 150 and 5 ppm respectively. Appendix "A" on page 4 gives all the soil data.

Plate 2 gives the Mo and Zn soil values for each station. The 5 ppm or greater Mo soil anomaly, that was found by Canadian Occidental, is extended an additional 800' to the west and is open in this direction as is the strong Zn soil anomaly. Copper values for the most part are all background.

CONCLUSIONS

The data at hand points to a large, poorly tested porphyry Mo(Cu) system. The high sphalerite content is typical of the top of a porphyry system and suggests that the best mineralization is to be found at depth or just to the west of the main trenches in the area of best developed sericite alteration and quartz veining.

RECOMMENDATIONS

1. Detailed mapping over the whole property.
2. Soil geochemistry on the west side of the property to better define the existing Mo-Zn soil anomaly.

REFERENCES

1. Carr, J.M., 1967, B.C.D.M., p. 213-214
2. Little, H.W., 1961, G.S.C. Map 15 - 1961

Reported by: M. Osatenko
M.J. Osatenko
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F.L. Wynne
Senior Geologist

Approved for
Release by: G. Harden
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Western District Exploration

MJO/sw

Distribution:

Minister of Mines(2)
Western District File(1)
Vernon Office File(1)

APPENDIX "A"

Cu, Zn and Mo in soil from the Glen Property

<u>LOCATION</u>	<u>Cu</u>	<u>ppm</u>	
		<u>Zn</u>	<u>Mo</u>
L4W 20 N	6	181	2
L4W 22 N	6	107	2
L4W 24 N	4	61	2
L4W 26 N	15	177	12
L4W 28 N	9	211	7
L4W 30 N	3	173	3
L4W 32 N	5	310	6
L4W 34 N	9	271	5
L4W 36 N	13	236	7
L4W 38 N	10	166	11
L4W 40 N	5	241	9
L4W 42 N	18	546	10
L4W 44 N	8	610	11
L4W 46 N	18	592	14
L4W 48 N	13	256	6
L4W 50 N	8	119	2
L4W 52 N	6	105	2
L4W 54 N	8	78	4
L4W 56 N	8	158	4
L4W 58 N	18	206	25
L4W 60 N	23	325	4
L8W 20 N	9	522	3
L8W 22 N	8	164	2
L8W 24 N	5	121	4
L8W 26 N	11	101	7
L8W 28 N	23	161	7
L8W 30 N	3	235	2

<u>LOCATION</u>	<u>Cu</u>	<u>ppm</u>	
		<u>Zn</u>	<u>Mo</u>
L8W 32 N	8	320	4
L8W 34 N	73	490	13
L8W 36 N	12	293	4
L8W 38 N	11	185	5
L8W 40 N	11	433	15
L8W 42 N	7	498	4
L8W 44 N	11	563	9
L8W 46 N	34	395	6
L8W 48 N	18	228	9
L8W 50 N	5	94	2
L8W 52 N	9	128	2
L8W 54 N	9	105	2
L8W 56 N	16	119	10
L8W 58 N	96	720	7
L8W 60 N	20	565	8

APPENDIX "B"

STATEMENT OF EXPENDITURES

FOR THE GLEN PROPERTY

SALARIES

M.J. Osatenko	Aug. 12, 1980 Report writing(2 days)	\$ 205. 410.
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B.G. Ames	Aug. 12-16, 18-20, 1980 (8 days @ \$82/day)	656.
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D. Pauls	Aug. 12-16, 18-20, 1980 (80 hours @ \$6.50/hour)	520.
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TRUCK

	1 for ½ month	250.
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ANALYSES

	42 soil samples for Cu,Zn,Mo @ \$4.10/sample	172.
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DOMICILE

	8 days for 2 men @ \$40/day	320.
		<u>\$ 2,533.</u>

APPENDIX "C"

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

I, MYRON J. OSATENKO, OF THE CITY OF VERNON, BRITISH COLUMBIA, HEREBY CERTIFY:

1. THAT I AM A GEOLOGIST, RESIDING AT 7702 SAGE DR., VERNON BRITISH COLUMBIA WITH A BUSINESS ADDRESS AT 4405 - 28th STREET, VERNON, BRITISH COLUMBIA.
2. THAT I GRADUATED WITH B. SC. AND M. SC. DEGREES IN GEOLOGY FROM THE UNIVERSITY OF BRITISH COLUMBIA IN 1965 AND 1967 RESPECTIVELY.
3. THAT I HAVE PRACTISED GEOLOGY WITH COMINCO LTD. FROM 1967 TO PRESENT.

DATED THIS 3rd day of February 1981 at Vernon, British Columbia.

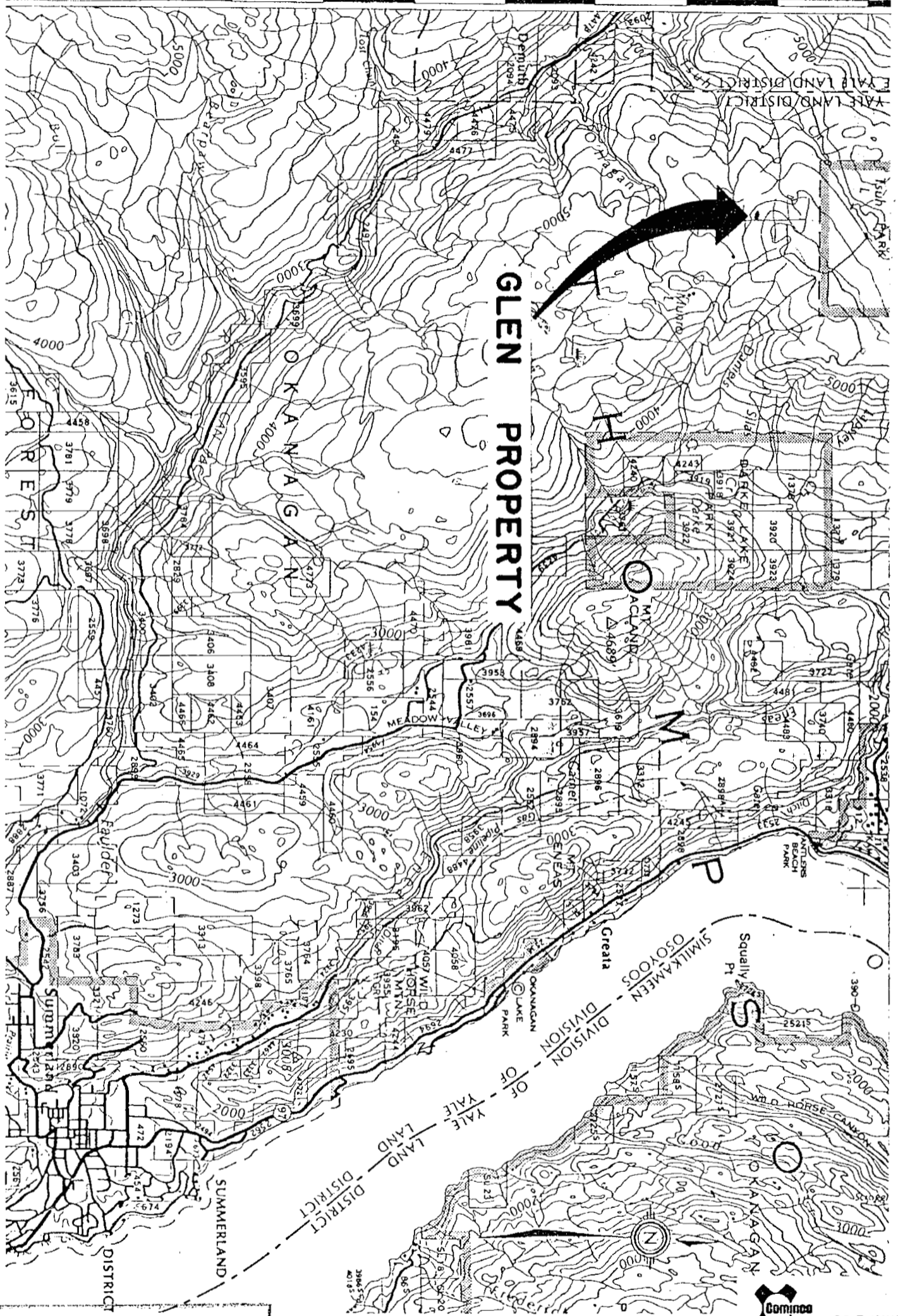
SIGNED

m. Osatenko


Myron J. Osatenko, M.Sc.

To Princeton - 72 miles To Princeton

45



MINERAL RESOURCES BRANCH			
Drawn by:	Traced by: RAR		
Revised by:	Date	Revised by:	Date
1268			

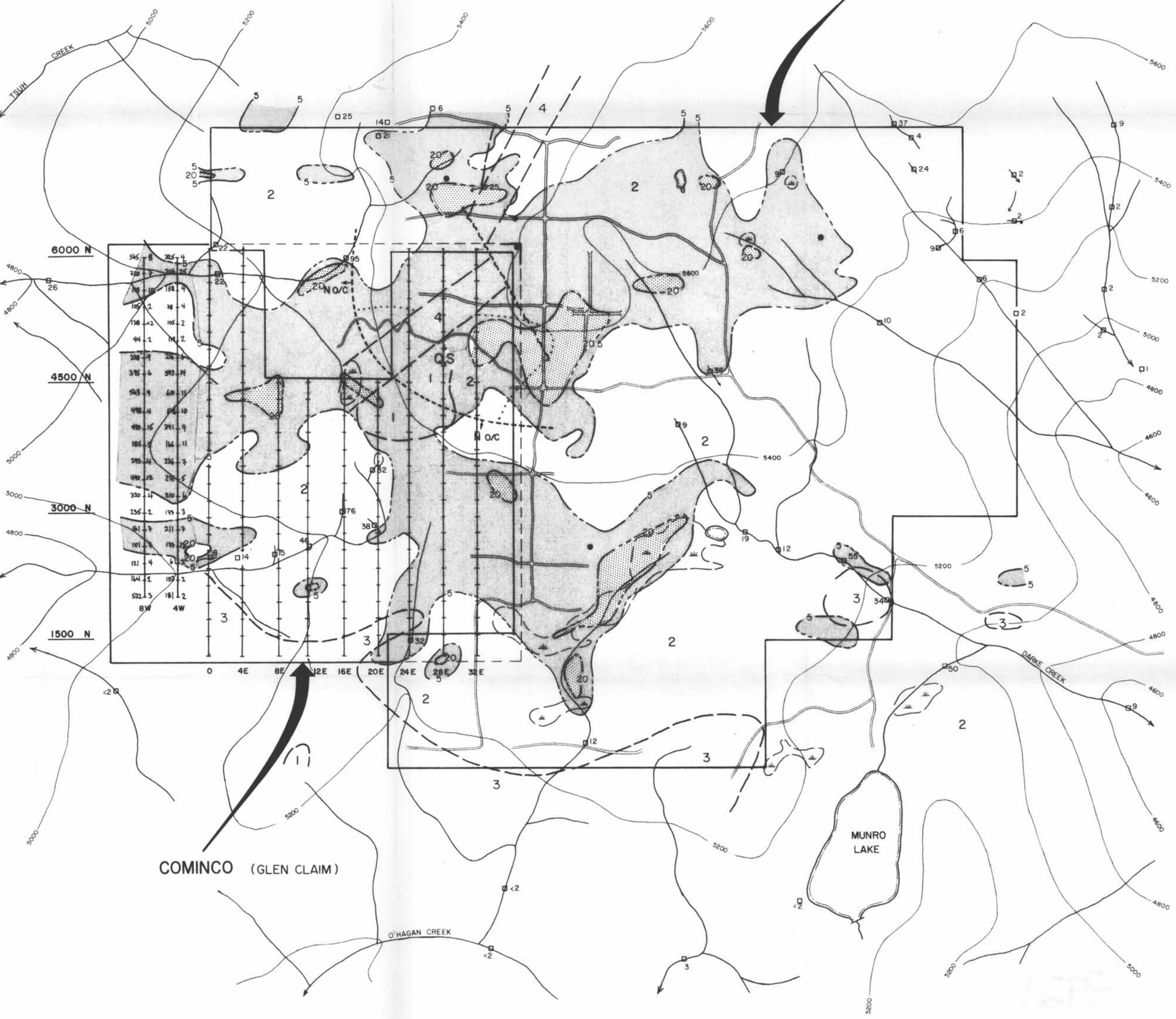
 82 E/NW

LOCATION MAP
GLEN PROPERTY

Scale: 1:100,000 Date: June 26, 1980 Plate: 1



CANADIAN OCCIDENTAL



LEGEND

- UPPER JURASSIC (?)
- 4 Quartz latite porphyry
 - 3 Quartz monzonite
 - 2 Porphyritic granodiorite
 - 1 Grey granodiorite

SYMBOLS

- Geological contact
- Fault
- Boundary of rock outcrop
- Mo soil geochemistry contour
- Mo stream silt value
- Area of quartz sericite alteration
- Diamond drill hole (Can. Occ.)
- Trench

1980 LINES (Cominco)

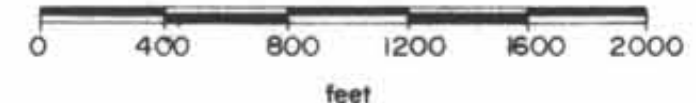
- Mo in soil (ppm)
- Zn in soil (ppm)

OLD LINES (Can. Occ.)

- re-established in 1980

Data from assessment reports 5318, 6399 and 6558

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8921
NO.



m. Ostens

GLEN PROPERTY		82-E-12	
Drawn by: BGA	Traced by:	GEOLOGY and SOIL and SILT GEOCHEMISTRY	
Revised by:	Revised by:	Scale: 1" = 615'	Date: 1 JULY 1980
			Plate: 2