

GEOLOGICAL &
GEOCHEMICAL REPORT

on the

Asp

~~VIPER 1-16~~ MINERAL CLAIMS
RECORD NUMBER 44395-44410

in the

OMINECA MINING DIVISION
Ten Miles South of Manson Creek

55° 36' North Latitude
124° 23' West Longitude

93 N 9

OMINECA BASE METALS LTD.

Vancouver, B.C.
August 29th, 1963

W.G. STEVENSON, P. ENG.

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INTRODUCTION

On July 20th and 21st, 1968 I made an examination of the mineralization exposed within a block of mineral claims located 450 miles north of Vancouver and held by Ominica Base Metals Ltd. Based on information collected during this examination, from a review of the government publications having to do with this area and from the study of a report dated November 17th, 1966 by Mr. J.P. Elwell, P. Eng., Consulting Geologist, who examined this property, I recommended a geochemical soil sampling program over this property.

This report is designed to summarize the work accumulated in the past and to show the results obtained during the 1968 exploration.

LOCATION AND ACCESS

The Asp, Boa and Viper Claim groups of Ominica Base Metals are positioned 110 miles north of Fort St. James, 10 miles south of Manson Creek. They extend westerly from Boulder Lake for a distance of 2 miles.

Access to the property can be gained over a gravel road which connects Manson Creek and Fort St. James. This road passes along the Eastern edge of Boulder Lake within 1/2 mile of the property.

Alternate access can be accomplished via float plane from Fort St. James to Boulder Lake.

PROPERTY

Ominica Base Metals holds the mineral rights to a block of 56 mineral claims.

I have reviewed the records in the B.C. Department of Mines Gold Commissioner's Office in Vancouver and the pertinent data is attached as Appendix "B".

While on the property I examined 2 sets of claim posts covering the Ominica Base Metals Ltd. property. These were the initial posts of the Asp number 1, 2, 3 and 4 and the final posts of the Asp 1 and 2. These

posts were properly sized and squared, they were properly tagged and a blazed line marked the direction between these posts. The location of these posts is shown on the attached geological sketch map marked Appendix "C".

During my examination I examined a set of claim posts covering Placer operation on Boulder Creek and 2 sets of claim posts which were located subsequent to the time claims were staked for Ominica Base Metals. These lode claims are likely in contravention, and a survey of the claims block is indicated.

HISTORY

Prior to the nineteen hundreds, Manson Creek and many of the tributaries in this area were tested for gold, and Placer operations have been initiated at several localities. I saw evidence of 3 separate attempts to win gold from the gravels of Boulder Creek. These were modest ventures and it would appear that only minor, if any, gold production was made from this drainage.

The Geological Survey of Canada had a party on the field during 1940 and their map including the area within the claim block was published in 1945.

The Berthold lode-quartz prospect was discovered in 1940 and has been staked at various times during the past 28 years. The present owners staked their claims in 1966 and engaged Mr. J.P. Elwell, P. Eng., to make an examination. He has written a report of the property dated November 17, 1966. Subsequent to Mr. Elwell's report, dozer trenching and a minor amount of geochemical sampling and geological mapping has been accomplished.

GEOLOGY

A regional shear zone named the Manson fault bisects the claim block in a northwesterly direction. This fault forms along the contact between the Ominica Batholith on the West and the sedimentary-metamorphic rocks on the East.

The rocks of the Ominica intrusive batholith are described as granodiorite, quartz diorite and diorite. My examination and the work that has been accomplished was confined to the Eastern part of the property, and I did not observe any of these intrusive rocks.

The rocks that I observed within the property were thinly bedded argillaceous quartzites and quartzitic shales, and a variety of quartzite sericite and chlorite schists. The schists are classified by the Geological Survey of Canada as part of the Wolverine complex of pre-Cambrian age. The quartzites and shales are correlated with the Cache Creek formation of Pennsylvanian age. These layered rocks have an East-West or Northwest-Southeast strike with a gentle dip toward the north.

Irregular quartz bodies which are on occasion mineralized with galena and other sulfides in modest amounts occur within the schists, and sedimentary series. We have not accumulated sufficient information to establish a pattern of these quartz bodies or their relation to the geologic structural and lithologic geological controls. These bodies appear, however, to be associated with northerly trending fissures or shear zones.

MINERALIZATION

The Mineralization that I saw was in every instance associated with quartz veins or silicified zones. It was for the most part lead sulfide with minor amounts of zinc, copper and silver. While on the property I collected four rock samples. The position of these are shown on the attached map marked Appendix "C", and the assay results are shown on the attached certificate marked Appendix "D".

Sulfide mineralization was observed at three localities within the property:

1. Mineralization has been exposed in quartzite beds on the north side of Boulder Creek. The mineralization is associated with a massive quartzite horizon which is interlayered with thin bedded argillaceous quartzite. Dozer trenching has provided good exposures over a lateral extent of 100 feet and over a stratigraphic thickness in excess of 50 feet.
2. An irregular quartz vein is exposed 1,500 feet Southeasterly. This quartz vein is visible on both sides of Boulder Creek. It has a width varying up to 15 feet and is sparsely mineralized with galena, silver and gold.
3. Near the southern limit of the property approximately 2,000 feet south of No. 2 a quartz vein is exposed over a strike length of 30 feet. This zone strikes northwest, has a width varying up to 10 feet and is named the Berthold prospect. The projection of this zone northerly intersects the mineralization exposed on the north edge of Boulder Creek at position number 1 above. The past work has not provided evidence of continuity along strike.

GEOCHEMICAL SURVEY

Two base lines were established over the property. From each of the base lines picket lines at 400 foot intervals have been surveyed and flagged. These picket lines have been flagged at 200 foot intervals. Approximately 17 miles of line have been surveyed.

A soil sampling program has been initiated over this grid and approximately 350 samples have been collected from stations along these lines. These samples have been collected from the "B" horizon immediately below the zone of humus. A hand auger has been used to collect these samples. These samples were collected in paper bags and were dried in the field. They were then submitted to TSL Laboratories here in Vancouver for final drying, screening and assaying. These samples were assayed for lead, zinc and molybdenum.

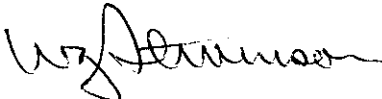
I have attached 3 maps each drawn to a scale of 1"=500', each covering the area with the grid zone that has been sampled. I have the assay values for each of lead, zinc and molybdenum pasted onto these maps. Where these assay values are above lowground they have been contoured and patterned to outline the anomolous areas.

The soil sampling was accomplished by Mr. Colin Wilson. Mr. Wilson is a thoroughly qualified prospector who has accumulated considerable experience during the past 10 years. Mr. Wilson has worked with me on several occasions during the past 6 years and I am satisfied that he is thoroughly qualified to conduct a soil sampling program.

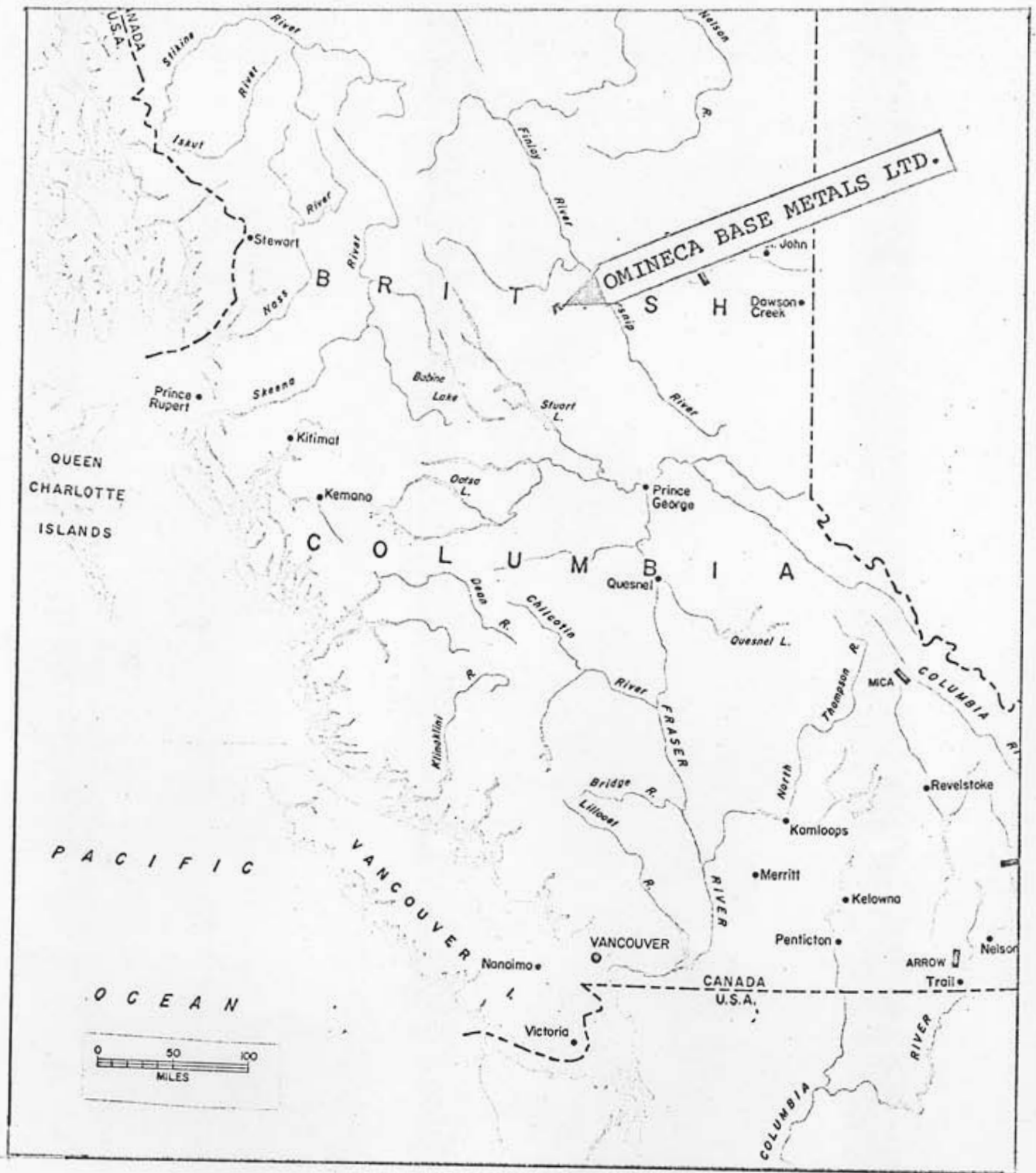
CONCLUSIONS

1. The Geological Survey of Canada Map 876A of Manson Creek shows the Western 3/4 of the Ominica Base Metal claim block to be positioned over rocks of the Ominica intrusion. Little prospecting or mapping has been accomplished in this part of the claim block.
2. The mineral claims held by Ominico Base Metals Ltd. are positioned over the projection of the Northwesterly trending Manson fault.
3. The Geological Survey of Canada Map shows two occurrences of lead within the claim block and 5 others northeasterly beyond the claim limits all associated with the Manson fault.
4. Very little detailed geological work or prospecting has been accomplished beyond the immediate vicinity of the three known mineralized showings.
5. Numerous quartz bodies, many of which are mineralized with galena, molybdenum and other sulfides, have been recognized over the properties. The quartz bodies are irregular, of variable size, and no pattern of frequency or trend has been recognized.
6. Sufficient mineralization is exposed over widely spaced areas to suggest that additional prospecting geochemical sampling and geological mapping is warranted.

Respectfully submitted,
W.G. STEVENSON & ASSOCIATES LTD.


W.G. Stevenson, P. Eng.

August 29th, 1968
Vancouver, B.C.



INDEX MAP
 Showing Location of
 VIPER MINERAL CLAIMS
 OMINECA MINING DIVISION
 BRITISH COLUMBIA
 Scale 1" = 100 Miles

<u>CLAIM NAME</u>		<u>TAG NUMBER</u>	<u>RECORD NUMBER</u>	<u>DATE STAKED</u>	<u>DATE RECORDED</u>
VIPER	1	575961	44395	August 8, 1966	August 23, 1966
VIPER	2	575962	44396	August 8, 1966	August 23, 1966
VIPER	3	575963	44397	August 8, 1966	August 23, 1966
VIPER	4	575964	44398	August 8, 1966	August 23, 1966
VIPER	5	575965	44399	August 8, 1966	August 23, 1966
VIPER	6	575966	44400	August 8, 1966	August 23, 1966
VIPER	7	575967	44401	August 8, 1966	August 23, 1966
VIPER	8	575968	44402	August 8, 1966	August 23, 1966
VIPER	9	575969	44403	August 8, 1966	August 23, 1966
VIPER	10	575970	44404	August 8, 1966	August 23, 1966
VIPER	11	575971	44405	August 8, 1966	August 23, 1966
VIPER	12	575972	44406	August 8, 1966	August 23, 1966
VIPER	13	575973	44407	August 8, 1966	August 23, 1966
VIPER	14	575974	44408	August 8, 1966	August 23, 1966
VIPER	15	575975	44409	August 8, 1966	August 23, 1966
VIPER	16	746159	44410	August 15, 1966	August 23, 1966

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Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEPHONE 688-3504

ASSAYERS
CHEMISTS
GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM MR. W.G. STEVENSON

REPORT NO.

V-4239

SAMPLE(S) OF ROCK

Samples submitted on July 29, 1968.

Sample No.	Gold (Au) oz:ton	Silver (Ag) oz:ton	Copper (Cu) %	Lead (Pb) %	Zinc (Zn) %	Molybdenum (Mo) %
1	trace	0.49	0.02	0.61	0.40	0.06
2	trace	0.20	0.03	13.18	0.01	----
3	0.02	4.51	0.02	0.18	0.35	----
4	trace	0.52	0.02	0.12	0.03	----

oz:ton - Troy ounces per 2,000 lbs.

DATE August 1, 1968.

SIGNED _____

PULP AND REJECTS DISCARDED AFTER 3 MONTHS

DIVISION OF TECHNICAL SERVICE LABORATORIES

APPENDIX G.

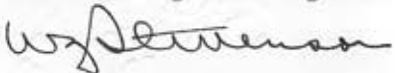
C E R T I F I C A T E

I, William G. Stevenson, do hereby certify:

1. THAT I am a Consulting Geological Engineer with offices at Suite 509 Stock Exchange Building, 475 Howe Street, Vancouver, B.C.
2. THAT I am a graduate of the University of Utah, 1946, with a Bachelor of Science degree.
3. THAT I am a registered Professional Engineer in the Association of British Columbia.
4. THAT I have practised my profession for twenty-two years.
5. THAT this report, dated August 29th, 1968 is based on work that has been accomplished under my direction and on an examination I made of this property July 20th and 21st, 1968.

Dated at Vancouver, British Columbia, this 29th day of August, 1968.

W.G. STEVENSON & ASSOCIATES LTD.
Consulting Geologists



W.G. STEVENSON, P. ENG.

DOMINION OF CANADA:
PROVINCE OF BRITISH COLUMBIA.
To Wit:

In the Matter of the Exploration Program conducted over certain claims called the Lakota Group near Manson Lake in the Omineca Mining Division

I, WILLIAM G. STEVENSON, P. ENG., Consulting Geologist

of 509 - 475 Howe Street, Vancouver, British Columbia

in the Province of British Columbia, do solemnly declare that During 1968 a tape and compass survey was accomplished to establish the position of two base lines. Picket lines were put out at right angles from these base lines at 400 foot intervals, and a series of soil samples were collected from each of these lines.

These samples were assayed for lead, zinc and molybdenum.

I have mapped geology over part of the property, have supervised the exploration program and have prepared a report with maps which provide details of this work. A copy of my report accompanies this declaration.

This program was accomplished during the period July 20 to August 26, 1968. I have spent two days on the property and two prospectors spent ten days on the property.

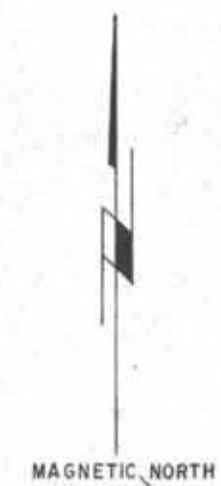
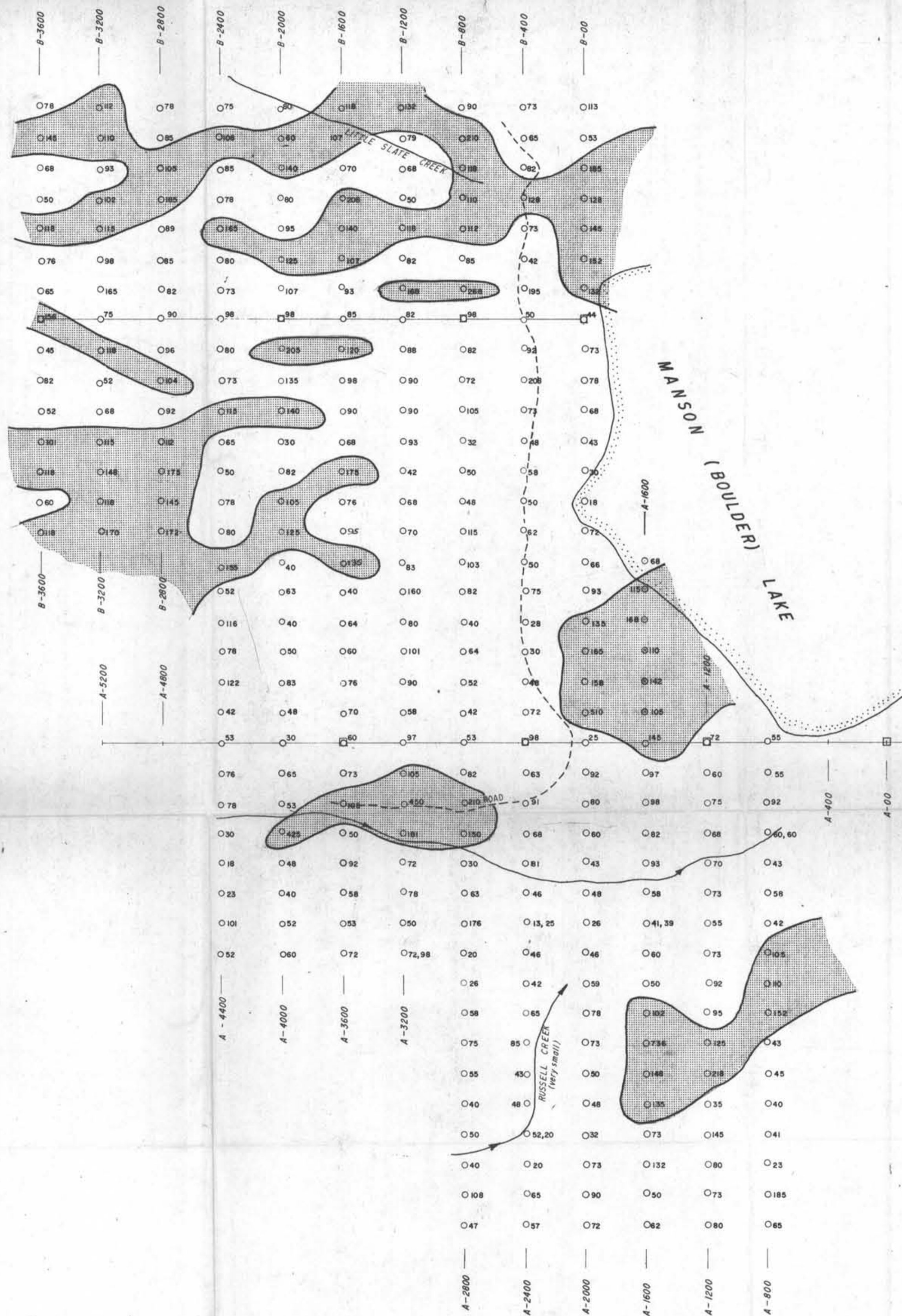
The cost of this program which are attributable directly toward assessment requirements are outlined as follows:

Wages, 2 Men @ \$25.00/day	\$ 500.00
14 days of which 10 were on property	
Expenses on property	170.00
Transportation \$717.00 of which 20%	
is assessed as directly related to the claims group	143.00
Assaying	630.00
Engineering	
Management and Report preparation	500.00
	<u>\$1,943.00</u>

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the City
of Vancouver, in the
Province of British Columbia, this 30th
day of August 1968, A.D.

J. Paul
A Commissioner for taking Affidavits for British Columbia or
A Notary Public in and for the Province of British Columbia.
Sub-mining Recorder



LEGEND
 ● 100 + p.p.m. Zn (anomalous)
 □ Claim Posts

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TOTAL ZINC

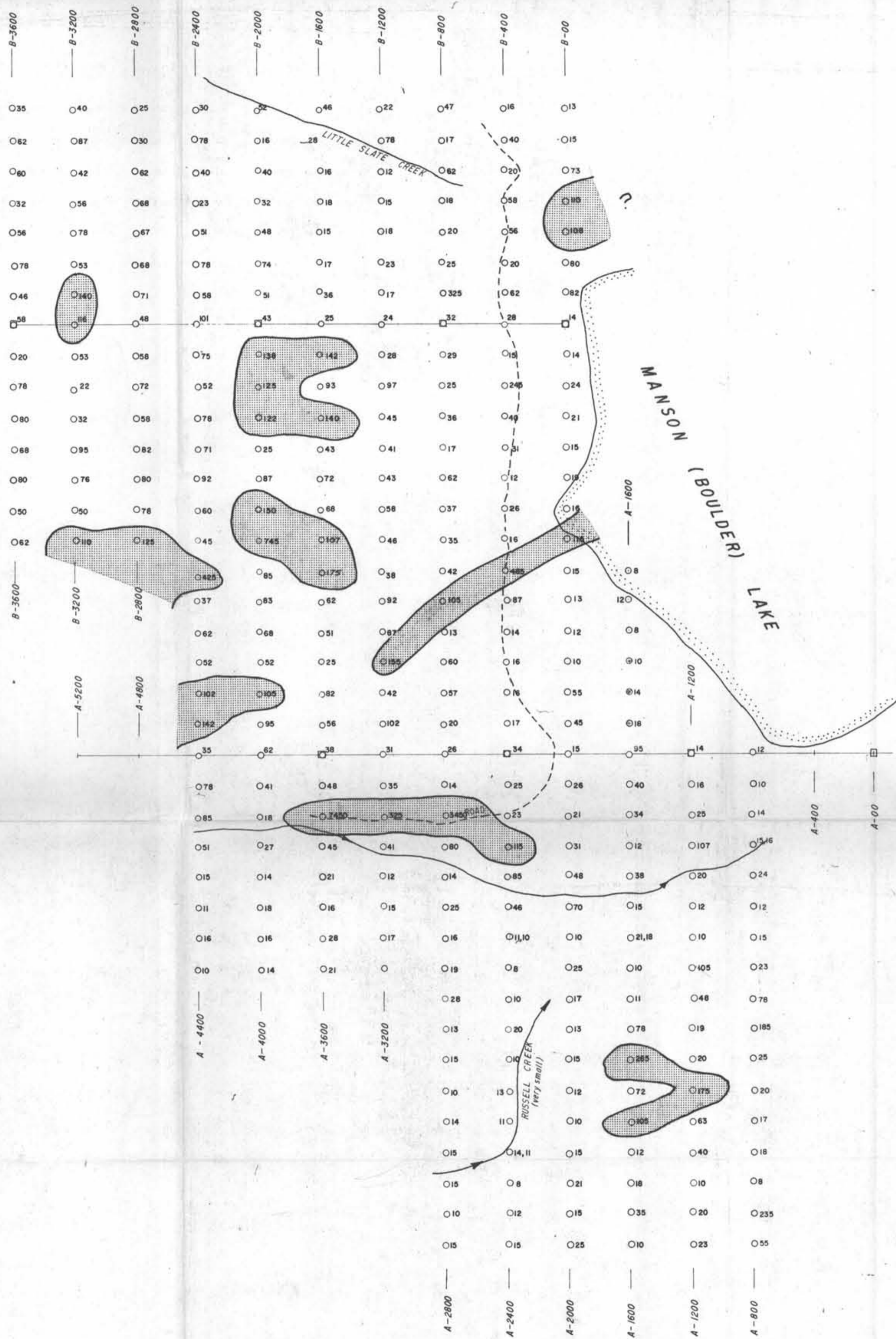
OMINECA BASE METALS LTD.
 OMINECA MINING DIVISION
 BRITISH COLUMBIA

**GEOCHEMICAL MAP
 SHOWING ASSAY VALUES
 IN PARTS PER MILLION**



SCALE
 750 500 250 0 250 500 750

AUGUST 1968 W.G. STEVENSON P. Eng

APPENDIX E



LEGEND

-  100 + p.p.m. Pb (anomalous)
-  Claim Posts

1659 W.G. Stevenson

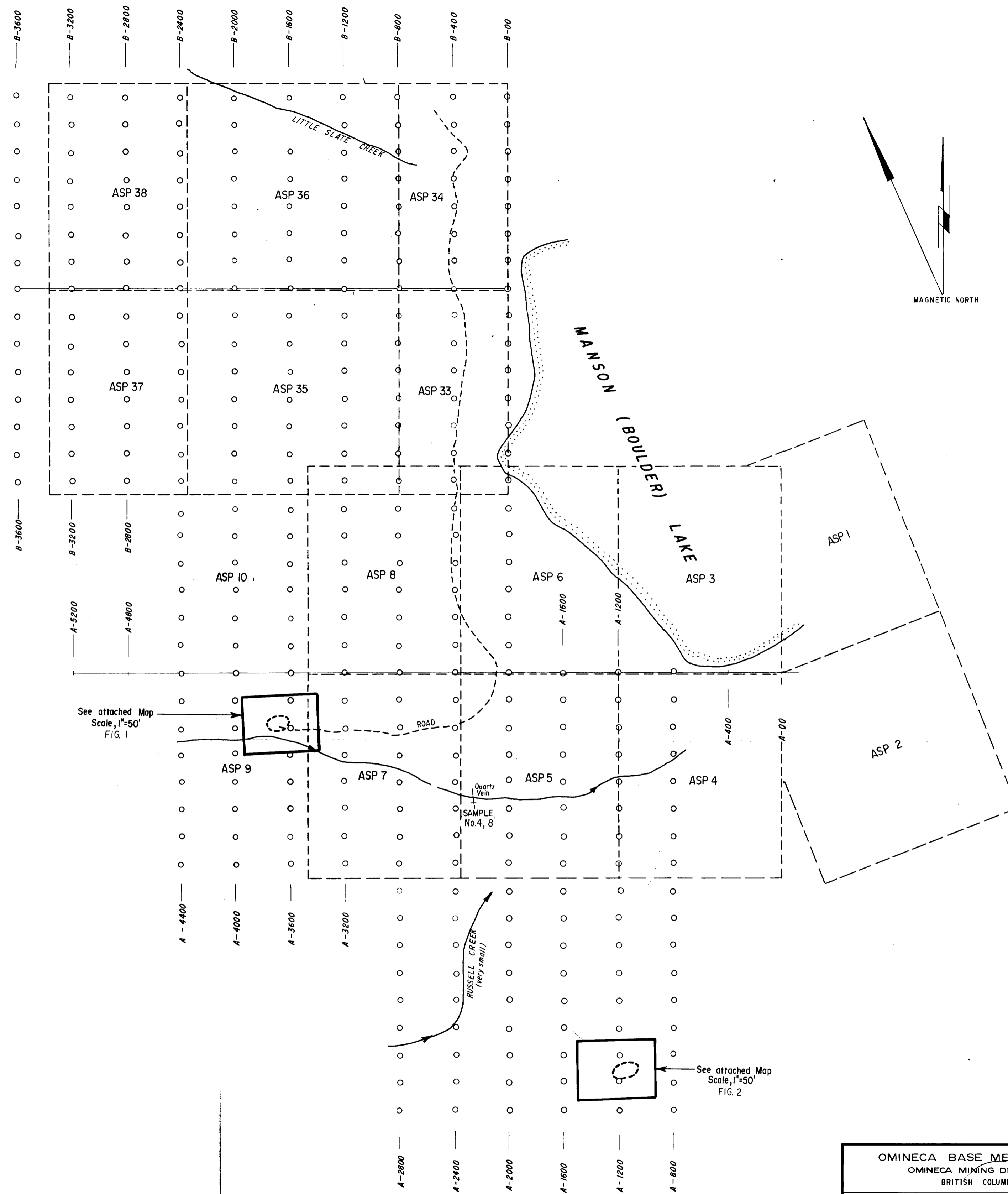
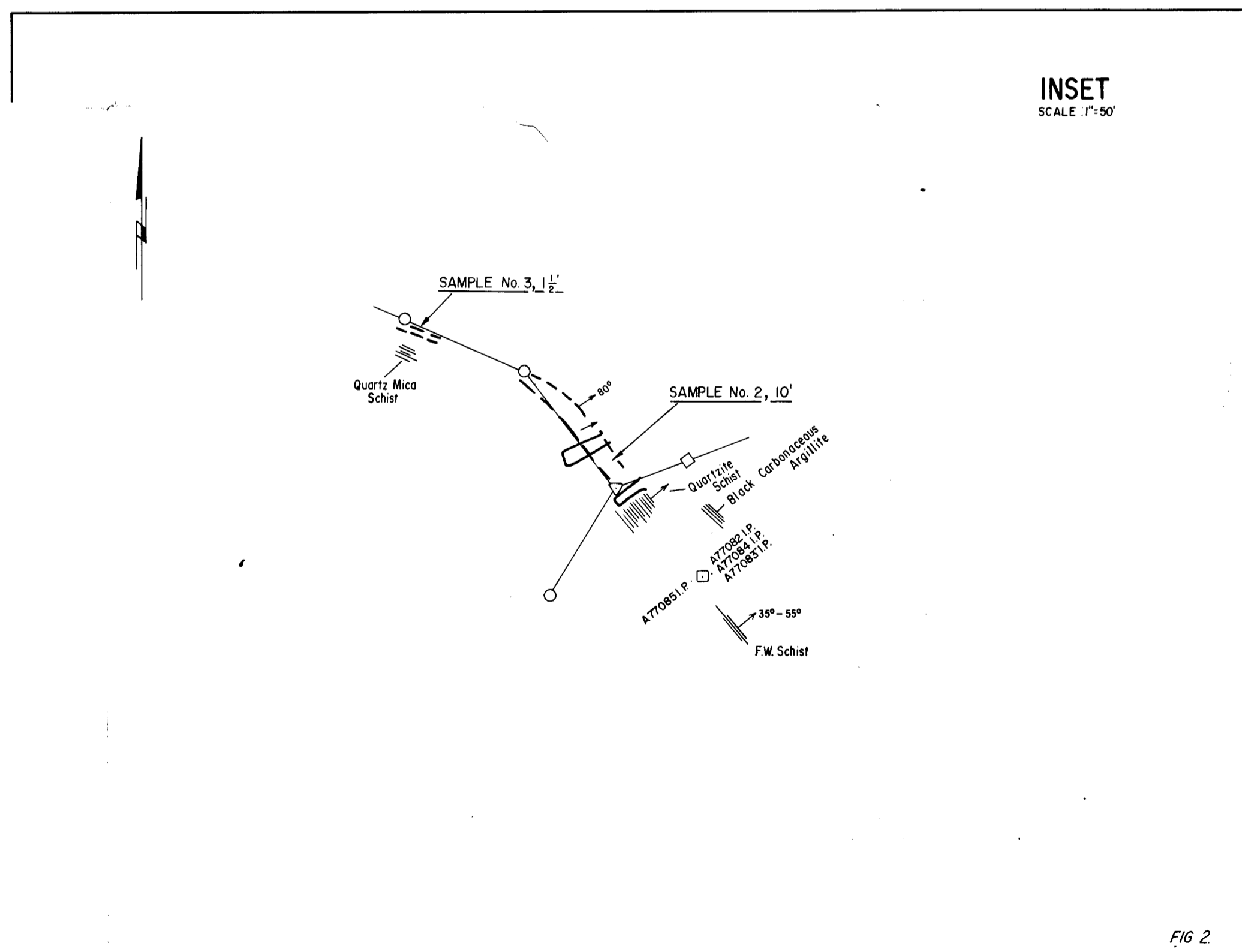
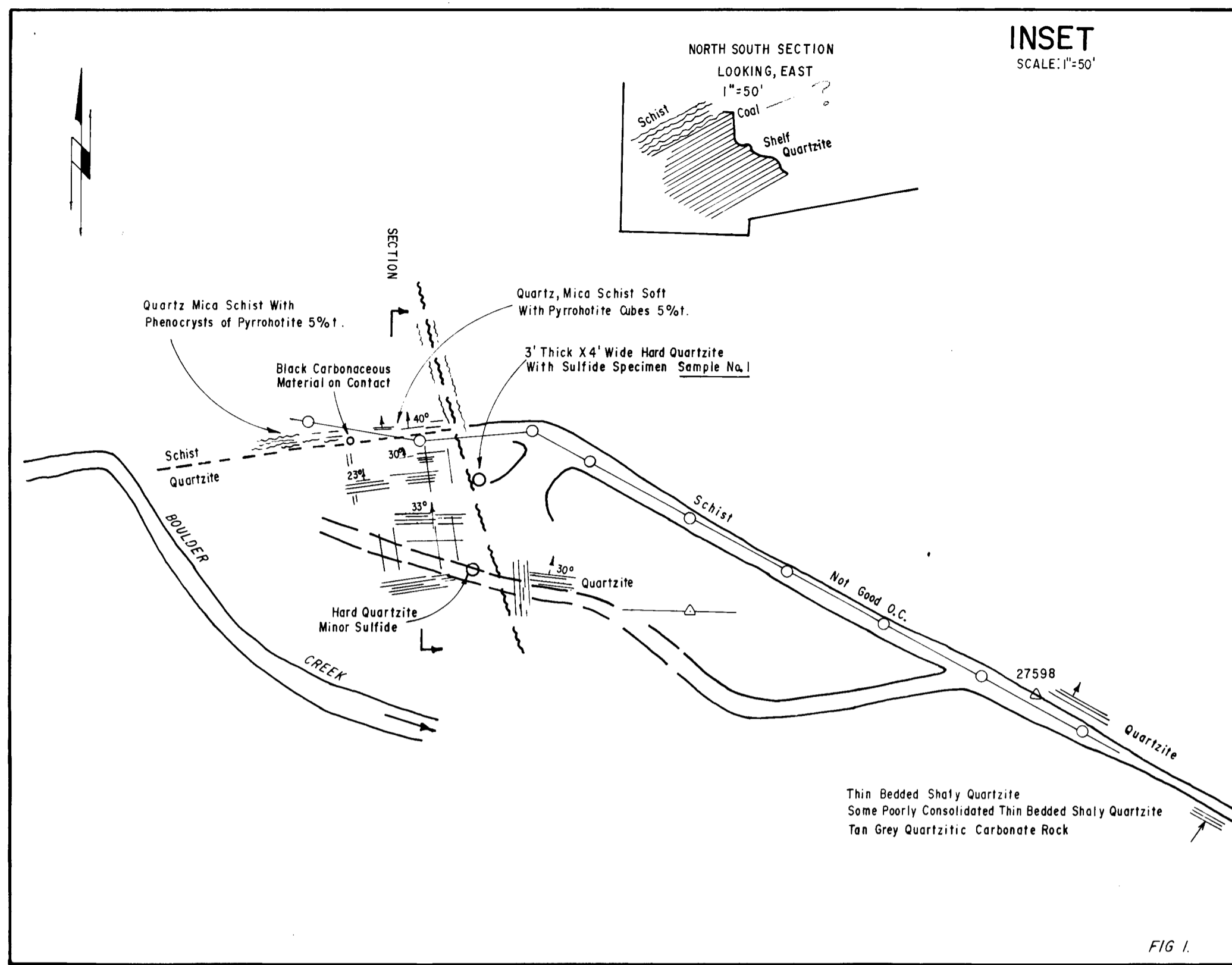
TOTAL LEAD

OMINECA BASE METALS LTD.
OMINECA MINING DIVISION
BRITISH COLUMBIA

**GEOCHEMICAL MAP
SHOWING ASSAY VALUES
IN PARTS PER MILLION**

SCALE
750 500 250 0 250 500 750

AUGUST 1968 W.G. STEVENSON P. Eng.



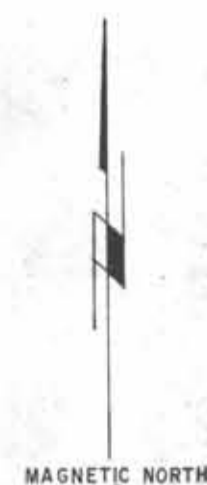
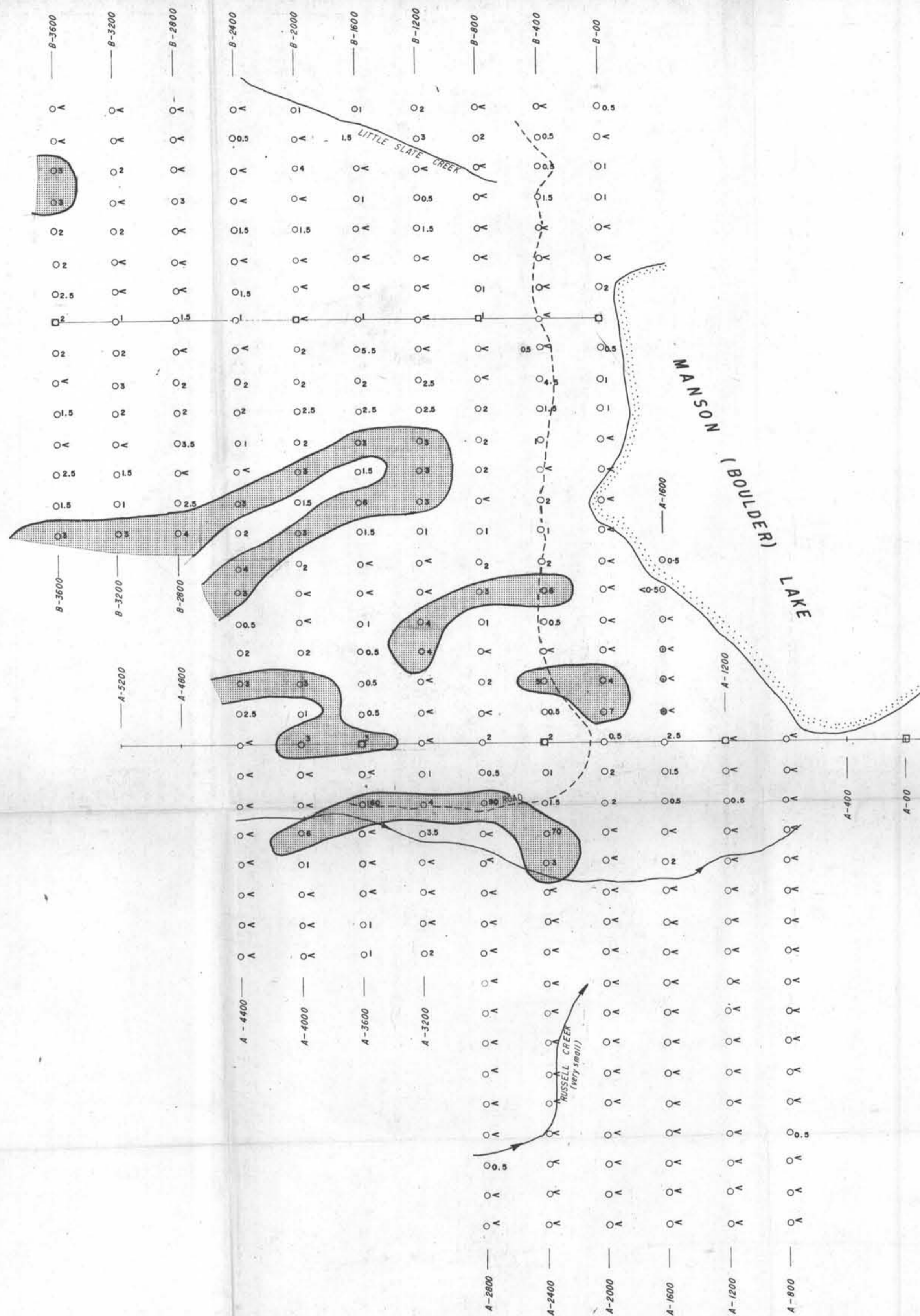
OMINECA BASE METALS LTD.
OMINECA MINING DIVISION
BRITISH COLUMBIA

**GEOLOGICAL SKETCH MAP
SHOWING AREAS STUDIED
IN DETAIL**

SCALE
750 500 250 0 250 500 750

AUGUST 1968 W.G. STEVENSON P. Eng

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LEGEND
 100 + p.p.m. Mo (anomalous)
 Claim Posts

1659

TOTAL MOLYBDENUM
 OMINECA BASE METALS LTD.
 OMINECA MINING DIVISION
 BRITISH COLUMBIA

W.G. Stevenson
GEOCHEMICAL MAP
SHOWING ASSAY VALUES
IN PARTS PER MILLION

SCALE
 750 500 250 0 250 500 750

AUGUST 1968 W.G. STEVENSON P. Eng.

APPENDIX F.