

2636

GEOCHEMICAL REPORT

ON

OMINECA QUEEN CLAIMS #3 AND #4

OMINECA M.D.

55° 32' N. / 9E

124° 05' W.

N.T.S. 93-N

Vancouver, B.C.
October 8, 1970

R. B. Band

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 2636 MAP.....

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Omineca Queen claims
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and silver in soils

GEOCHEMICAL REPORT

ON

OMINECA QUEEN CLAIMS #3 AND #4

INTRODUCTION

On September 18th, 1970 a detailed geochemical soil survey was carried out over the main barite zone covered by the Omineca Queen #3 and #4 claims. The purpose of the survey was to determine whether the barite mineralization is characterized by a distinct geochemical expression in the overlying soils, and, if so, to search for possible extensions or parallel barite zones in the immediate vicinity of the known zone.

The Omineca Queen barite property was initially discovered and staked by R. Bjerring in 1966. Work done on the property to date consists of trail construction and trenching.

LOCATION AND ACCESS

The Bjerring property is located seventeen miles southeast of the village of Manson Creek and approximately two miles east of the Lower Gaffney Creek bridge (map OQ 1/70).

Access to the property is by way of the Fort St. James - Manson Creek road and thence by trail from the Lower Gaffney Creek bridge to Barite Creek. The property lies on either side of Barite Creek, approximately ^{700 yards} one-mile above its confluence with Manson River.

METHOD OF SURVEY

Five north-south grid lines, 1000 feet in length and 200 feet apart, were laid out by compass and pacing, giving a grid 800

feet long in an easterly direction by 1000 feet north-south. The relationship of the soil grid to the Omineca Queen claims can be seen in map OQ 2/70. Soil samples were collected at intervals of 25 feet over the inferred position of the barite zone, and subsequently at intervals of 50 feet and 100 feet.

Samples were collected from the "B" soil horizon, at a depth of approximately 12 inches, using grub hoes. The samples were placed in water resistant paper packets on which the following information was recorded: sample number, line number and footage, date, sampling depth, soil colour, horizon and moisture content. The samples were shipped to the Falconbridge Laboratory in Vancouver for analysis.

LABORATORY TECHNIQUES

The samples were dried in a gas-fired hot air drier and hand screened through 80 mesh standard nylon screens. The minus 80 mesh portion of the sample was analyzed for lead, zinc and silver by standard geochemical methods. 1.0 gram of sample was weighed into a calibrated pyrex test-tube and 10 ml. of 10% nitric acid were added. After boiling for one hour the samples were cooled and the volume adjusted to 10 ml. to compensate for losses due to evaporation. The samples were then filtered and the lead, zinc and silver content of the filtrate determined by standard atomic absorption techniques.

GEOLOGY

The property is located near a major fault zone separating rocks of the Wolverine Complex and the Cache Creek Group. It occurs

within an argillaceous unit of the Cache Creek Group which, in the vicinity of the showing, exhibits low to medium grade metamorphism.

In the principal showing the barite zone has been exposed across a width of 50 feet by a series of trenches. The barite is distinctly colour banded, the colour varying from light-grey to cream. An east-west strike and a steep northerly dip are indicated by the colour bands. A second, smaller barite showing is exposed in a pit approximately 400 feet along strike from the main showing.

RESULTS

Lead, zinc and silver contents for the soil samples are shown in map OQ 3/70. The concentration ranges for the various metals are summarized in the table below.

	<u>Background</u>	<u>Possibly Anomalous</u>	<u>Anomalous</u>	<u>Range</u>	
Pb. ppm	< 40	40	N.A.	5-48	11-20
Zn. ppm	< 75	75-120	120	8-195	41-50
Ag. ppm	< 0.7	0.7-1.0	1.0	0.1-2.3	0.3-0.5

Soil samples collected from immediately above the main barite zone have background contents of lead and zinc; one of these samples has, however, a strongly anomalous silver content. Soil samples collected in the vicinity of the second barite showing have background lead, zinc and silver contents.

Strongly anomalous zinc and silver values occur on line 200 E. between 75 feet and 100 feet north of the barite zone. Anomalous zinc values also occur over a wide area on lines 600 E. and 800 E. With the exception of a single high zinc value, all samples on line OE have background lead, zinc and silver contents.

CONCLUSIONS

1. The barite zone on the Omineca Queen property is not characterized by higher than normal lead and zinc contents in the overlying soil, although a single high silver value was obtained over the main barite showing. It is concluded that in the present instance that soil geochemistry is not an effective method of locating barite mineralization. *Why no barium analyses?*
2. The silver-zinc anomaly on line 200 E. may be due to sulphide mineralization related to, but not intimately associated with, the barite zone. This anomaly warrants more detailed examination. Some further work is also justified on the wider zinc anomaly between lines 600 E. and 800 E.

R. B. Band

R. B. Band

Vancouver, B.C.
October 8, 1970

DOMINION OF CANADA:
PROVINCE OF BRITISH COLUMBIA.

In the Matter of

GEOCHEMICAL REPORT ON
OMINECA QUEEN #3 MINERAL CLAIM

To Wit:

I, David H. Brown

of #504 - 1112 West Pender Street, Vancouver, B.C.

in the Province of British Columbia, do solemnly declare that the following work was done:

Band, R. B.	Geochemist Sept. 18/70 - 1/2 day @ \$100.00	\$ 50.00
Dawson, A. W.	Geochemical Party Chief Sept. 18/70 - 1/2 day @ \$50.00	25.00
Bjerring, R.	Prospector-sampler Sept. 18/70 - 1/2 day @ \$50.00	25.00
Laboratory charges:	47 samples @ \$3.50	<u>164.50</u>
		\$264.50 *****

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 15th
day of October, A.D.
1970.

David H. Brown

G. Phillips
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

SUB-MINING RECORDER

DOMINION OF CANADA:

PROVINCE OF BRITISH COLUMBIA.

To WIT:

In the Matter of

GEOCHEMICAL REPORT ON
OMINECA QUEEN #4 MINERAL CLAIM

I,

David H. Brown

of

#504 - 1112 West Pender Street, Vancouver, B.C.

in the Province of British Columbia, do solemnly declare that the following work was done:

Band, R. B.	Geochemist Sept. 18/70 - 1/2 day @ \$100.00	\$ 50.00
Dawson, A. W.	Geochemical Party Chief Sept. 18/70 - 1/2 day @ \$50.00	25.00
Bjerring, R.	Prospector Sept. 18/70 - 1/2 day @ \$50.00	25.00
Laboratory charges:	48 samples @ \$3.50	<u>168.00</u>
		<u>\$268.00</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 15th
day of October, A.D.

D.H. Brown

1970.

[Signature]

A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

FALCONBRIDGE NICKEL MINES LIMITED

1112 WEST PENDER STREET

VANCOUVER 1, B.C., CANADA

TELEPHONE: 682-6242

TELEX: 04-5938

October 8, 1970

The Mining Recorder
Omineca Mining Division
Smithers, B.C.

Dear Sir:

This is to certify that the geochemical work on the Omineca Queen No. 3 and No. 4 mineral claims was done under my supervision.

Mr. A. H. Dawson is a qualified geochemical party-chief employed by Falconbridge Nickel Mines Limited. He has a B.Sc. in Geology from Washington State University.

Mr. R. Bjerring is an experienced prospector and has worked in the Omineca Mining District for the past 12 years. He was employed by Falconbridge Nickel Mines Limited for the 1970 field season.

The field sampling, analyses and evaluation of the results were done under the direction of Dr. R. B. Band, Assistant Geochemist for Falconbridge Nickel Mines Limited. Dr. Band received his Doctorate in Applied Geochemistry from the Royal School of Mines, Imperial College, London, England.

Yours very truly,

FALCONBRIDGE NICKEL MINES LIMITED



D. H. Brown, P. Eng. (B.C.)

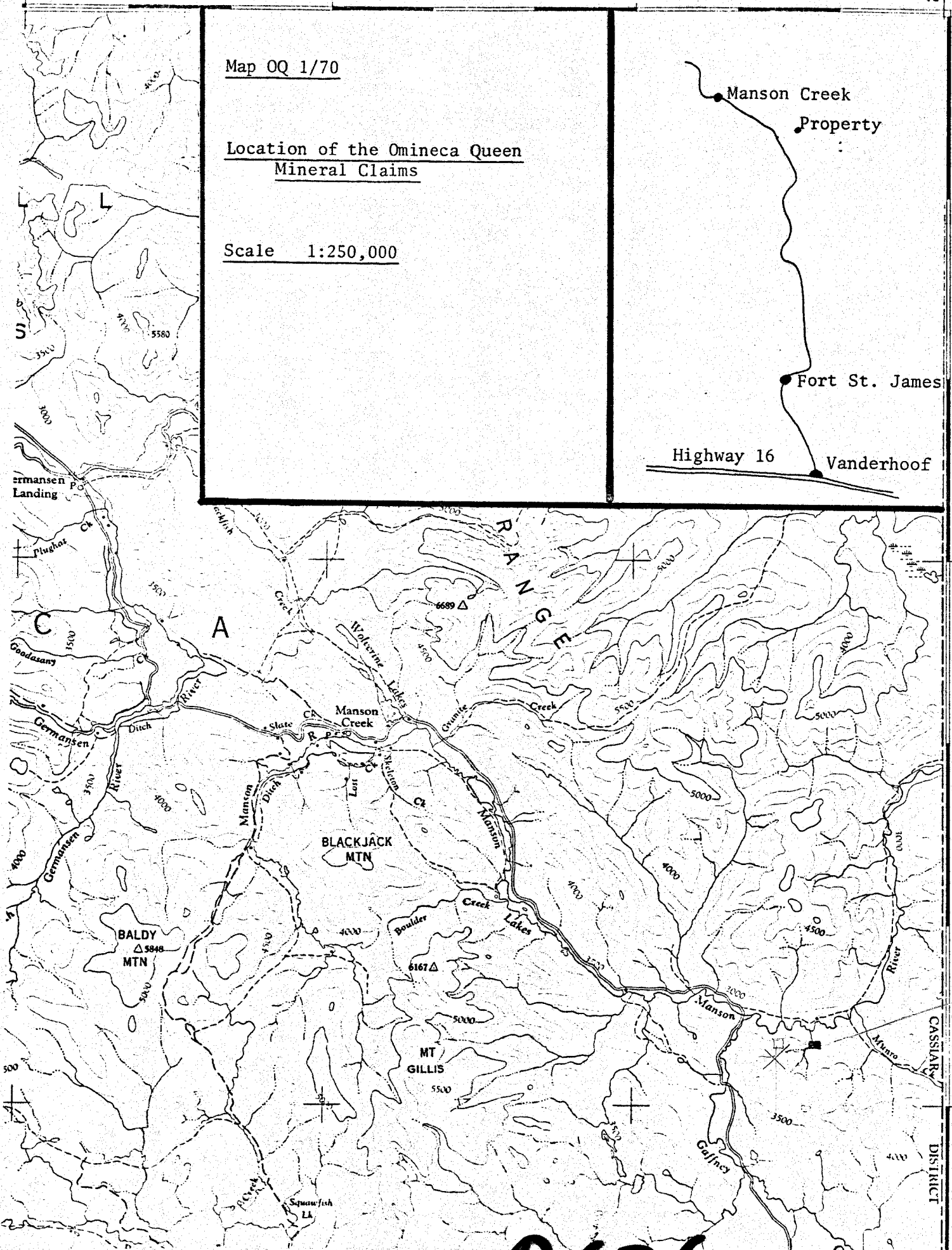
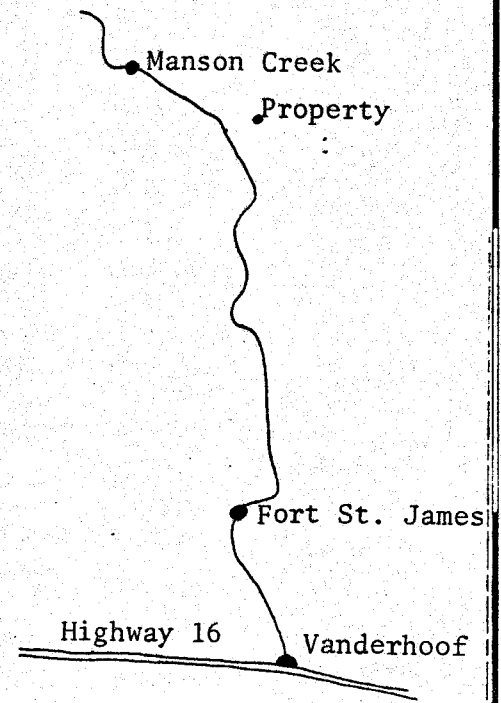
DHB:fn



Map OQ 1/70

Location of the Omineca Queen
Mineral Claims

Scale 1:250,000

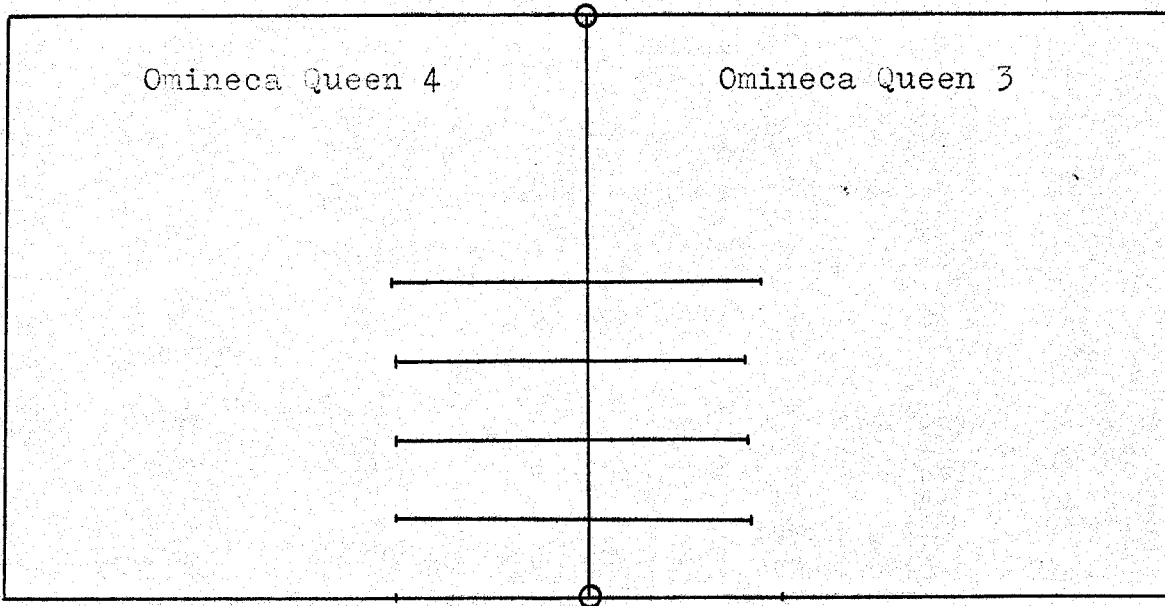


2636 from claim maps
nr. Omineca

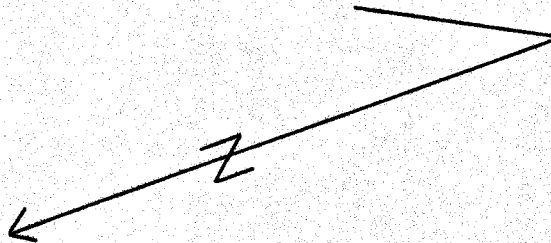
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 2636 MAP # 2

Map OQ 2/70 Sketch map showing relation of
soil grid to Omineca Queen Claims.



Scale: 1" = 500 ft.









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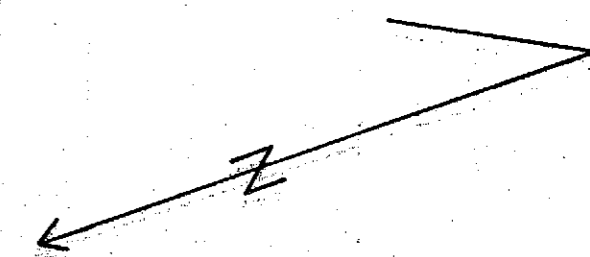
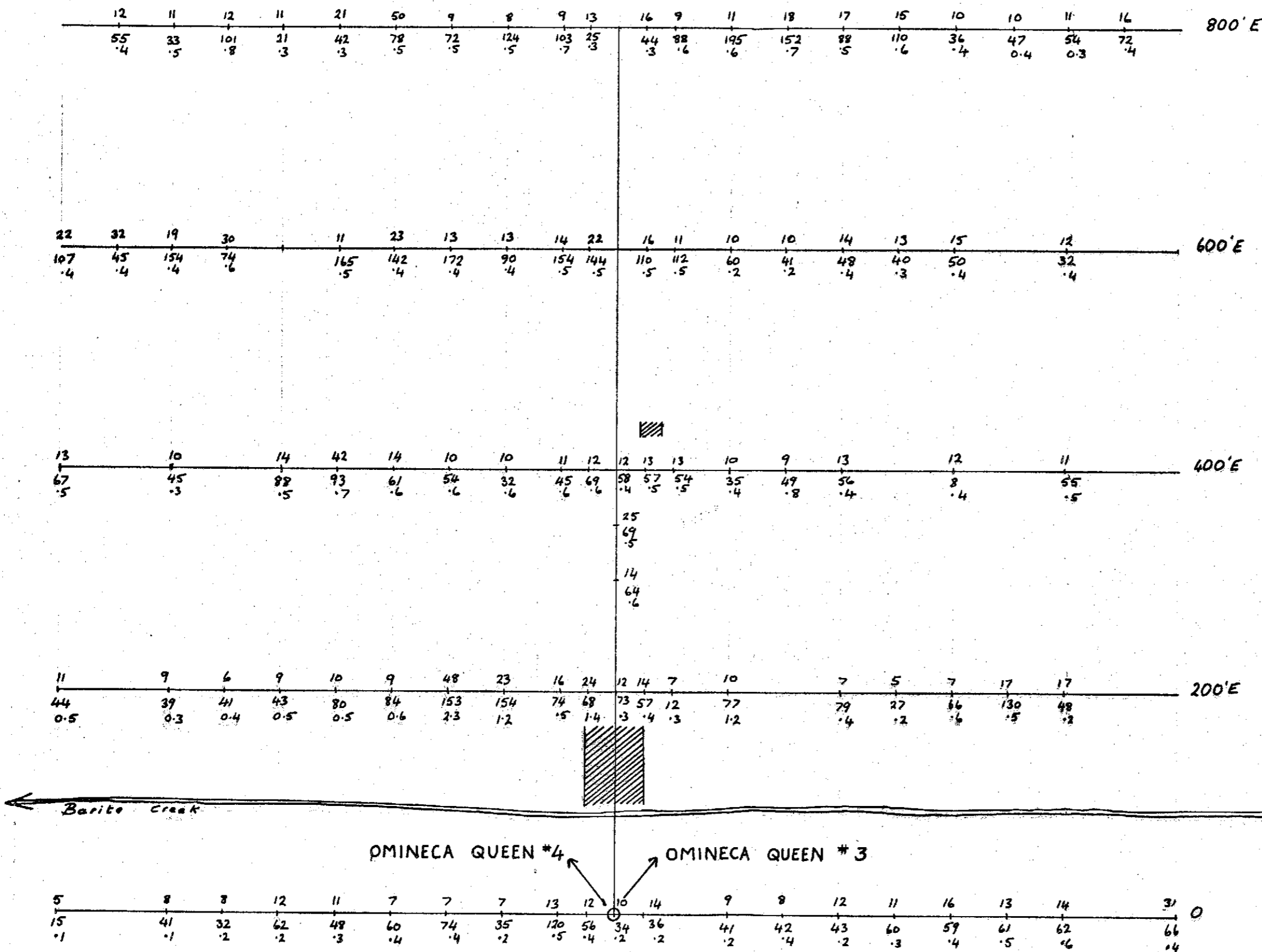
DH Brown

MAP REF. No.: OQ 3/70

N.T.B.: 93 N

KEY

-  Sample site
-  Pb p.p.m.
-  Zn p.p.m.
-  Ag p.p.m.
-  barite showing
-  Omineca Queen claim post and number



FALCONBRIDGE NICKEL MINES LTD.

PROPERTY: Omineca Queen

LOCATION: Manson River, B.C.

TYPE OF MAP: Pb, Zn, Ag in soils

BASED ON: Soil grid

DATE OF WORK: Sept 18 1970

DATE: Oct 1 1970

DRAWN BY: R.B. Band



SCALE: 1 INCH TO 100 FEET

2636 *R.B. Band*