

3557

GEOPHYSICAL REPORT 3.
T 1-22 Mineral Claims
49° 19' N - 120° 36' W
Approx. 11 air miles SSW of Princeton, B. C.
Similkameen Mining Division
for 92H/7E
ANCHOR MINES LTD. (N. P. L.)
by
W. S. Read, B. Sc., P. Eng.
Between October 28 and January 31, 1972

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3557 M&P

WAYLAND S. READ, B.S.C., P.ENG.

AREA CODE 604—TELEPHONE 922-1347

Consulting Geologist

860 YOUNETTE DRIVE, WEST VANCOUVER, B.C., CANADA

January 31, 1972

**The Board of Directors,
Anchor Mines Ltd. (N. P. L.),
Ste. 807, 409 Granville Street,
Vancouver 2, B. C.**

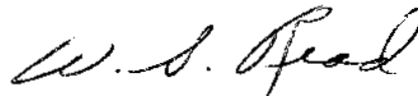
Gentlemen:

At your request I have completed a ground magnetometer survey over your T. Group of mineral claims located about 11 air miles south southwest of Princeton, B. C.

This survey, for assessment purposes, adds new and significant data in the exploration of the property.

The report with map and conclusions is herewith attached.

Yours very truly,



W.S. Read, P. Eng.

**wsr/e
att.**

REPORT ON
MAGNETOMETER SURVEY

ON

T. GROUP MINERAL CLAIMS ('T' 1-22)

49° 19' N - 120° 36' W

Approximately 11 air miles SSW of Princeton, B. C.

for

ANCHOR MINES LTD. (N. P. L.)

in the

SIMILKAMEEN MINING DIVISION

province of

British Columbia

Canada

by

W.S. Read, B.Sc., P. Eng.
860 Younette Drive,
West Vancouver, B. C.

January 31, 1972

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X | MAP 1 - Magnetometer Survey (With Index Map)

Scale 1 inch = 400 feet

LOCATION AND ACCESSIBILITY

The T. Group of 22 mineral claims of Anchor Mines Ltd. (N. P. L.) is situated at about $49^{\circ} 19'$ North latitude and $120^{\circ} 36'$ West longitude about 11 miles south southwest from Princeton, B.C. The claims are mostly in gently rolling country varying in elevation from 3,500 to 4,500 feet above sea level.

The claims lie between the Similkameen River and Whipsaw Creek, west of paved B.C. Highway #3 and southwest of the gravel Kennedy Lake road. From the Kennedy Lake road, the claims are accessible by old logging roads which are passable, or could be easily made passable, for truck transportation.

During the survey the crew found accommodation in Princeton, and with the aid of heavy chains on the truck, was able to get from the Kennedy Lake road to the area of the old shack near the baseline. After additional snow fall, a snowmobile was used to get from the highway to the work area.

The baseline and crosslines were reasonably well cut, but in many instances the pickets were down or in need of remarking the chainage points. Many of the baseline stations were remarked during the course of the survey. With increasing depths of snow fallen cross-line pickets caused location problems.

CLAIMS HELD BY COMPANY

The Company reports that they held the following 22 mineral claims.

<u>Claim Name and Number</u>	<u>Record Number</u>	<u>Anniversary Date</u>
'T' #1 - #22	19535 - 19556	March 13

MAGNETOMETER SURVEY

Type of Magnetometer:

A Sharpe fluxgate magnetometer Model MF-1, serial number 803331, was used for this survey. This is a hand-held instrument requiring only coarse leveling and is not significantly affected by orientation.

The magnetometer measures the vertical component of the earth's magnetic field to 5 gammas on the lowest scale range. The full scale ranges vary progressively from a minimum of plus or minus 1,000 gammas to a maximum of plus or minus 100,000 gammas. The values can be read directly from the scale.

Temperature compensations have been built into the instrument and the only necessary correction to the readings is for the diurnal variation. The variation in each survey loop is assumed to be linear and is determined by subtracting the initial and final readings at any control point. The corrected added to each reading to the loop is the product of the total diurnal variation of the loop and the ratio of time elapsed up to the time of reading, over the total time elapsed for the loop.

Field Procedure:

The instrument was set or zeroed for the area and station 20 + 00 S was given a value of 1000 gammas. The 1.6 mile baseline was

surveyed, corrections in the readings made for diurnal variation, and the stations at the junction of the crosslines with the baseline were used as control points for each survey loop.

Readings were taken every 50 feet on the 1.6 miles of baseline and 15.8 miles of crosslines. Pacing was used to locate chainage points, fallen or with deteriorated markings, and the intermediate points between the pickets. Diurnal variation was low and corrections were treated linearly in respect to elapsed time.

Results:

The corrected readings were plotted on a base map to a scale of 1 inch = 400 feet, to superimpose over data from a previous I. P. survey. Readings were plotted as gammas relative to 20 + 00 S on the baseline. The readings varied from a high of 2300 to a low of 230 gammas. The corrected readings were hand contoured at intervals of 400, 800, 1000, 1200, 1400, 1600, 1800, 2000 and 2200 gammas.

The magnetic variation in general was low and the 500 foot line spacing made detailing between lines more difficult.

In general, there is a decrease in magnetic intensity towards the southwest and an increase towards the east and northeast. This could be explained by northwest trending, chiefly sedimentary rocks, with an igneous body to the northeast causing the increase in magnetic intensity in that direction. There is a strong southwest cross trend

that I would expect to be caused by steeply dipping dykes or series of dykes along zones of weakness in that direction.

The I. P. anomalies are found in areas of relatively flat magnetic intensity. The I. P. anomalies are caused by conducting minerals other than magnetite. This is definitely a favourable condition, although not necessarily caused by economic minerals.

CONCLUSIONS AND RECOMMENDATIONS

The magnetometer survey has determined that the anomalies from a previous I. P. survey were not caused by magnetite. This is definitely a favourable condition, although not necessarily caused by economic minerals. The main magnetic trends are interpreted as being caused by dykes or series of dykes along zones of weakness.

This data should be correlated with geochemical and any geological mapping data that might be available. This geochemical and mapping data should be detailed if found to be too sparse in order to outline, if possible, the most favourable drill targets within the anomalous area.

In the event of a non outcropping mineralised body with a possible pyrite halo, it may be found to be necessary to run selected lines with I. P. to give a better depth detail than is available at present.

PERSONNEL

Wayland S. Read, P. Eng., Mining and Geological Consultant,
860 Younette Drive,
West Vancouver, B.C.

F. L. Schram, Assistant and Instrument Operator,
Nanaimo, B.C.

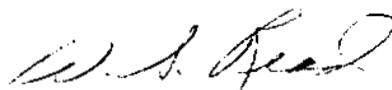
CERTIFICATE OF QUALIFICATIONS

I, Wayland Stuart Read of 860 Younette Drive, West Vancouver,

B.C., do hereby certify that:

1. I am a practising mining geologist and my address is 860 Younette Drive, West Vancouver, B.C.
2. I am a graduate in geology from Acadia University, Wolfville, Nova Scotia, and have been granted the degree of Bachelor of Science in Geology and have been engaged in practising my profession for the past twelve years.
3. I am a member of the Association of Professional Engineers of British Columbia and the Yukon Territory, a Fellow of the Geological Association of Canada and a Member of the Canadian Institute of Mining and Metallurgy.
4. This report is based on my personal work on the property between October 28-29, 1971 and Mr. F. L. Schram, my assistant and instrument operator, between October 28 - November 6, 1971. The compilation of data and preparation of report was done by the writer between October 30, 1971 and January 31, 1972.

Respectfully submitted,



Wayland S. Read, B.Sc., P.Eng.
Consulting Geologist

860 Younette Drive,
West Vancouver, B.C.

January 31, 1972

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

In the Matter of Geophysical Survey

I, W. S. Read, P.Eng.,

of Wayland S. Read, Limited, Geological Consultant,
860 Younette Drive, West Vancouver, B.C.

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

Magnetometer Survey re: report dated January 31, 1972.

Costs:

Truck rental	\$146.76	
Snowmobile		
10 days @ \$18.	180.00	
Magnetometer rental	150.00	
Chain Saw Rental	50.00	
Engineering supplies	15.00	
Meals & expenses	240.26	
Draughting, report, printing.	<u>138.50</u>	920.52

Personnel:

F.L. Schram, Assistant, Instrument man		
October 28 - Nov. 7, 1971. 11 days @ \$35	385.00	
W. S. Read, P.Eng, October 28 - 30.	300.00	
Office: Oct. 31 to Jan. 31,		
Interpretation, report, data preparation.	<u>750.00</u>	<u>1,435.00</u>
		<u>\$2,355.52</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

of _____, in the
Province of British Columbia, this
day of _____, A.D.

[Signature]
Sub - Mining Recorder.

[Signature]

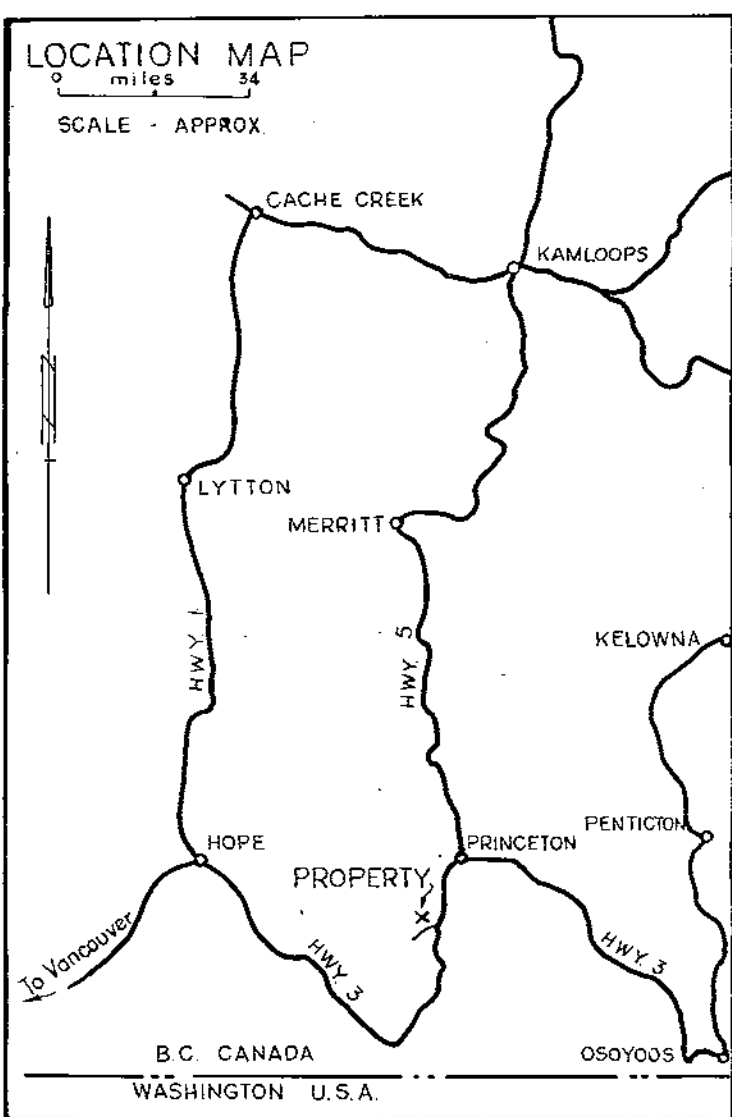
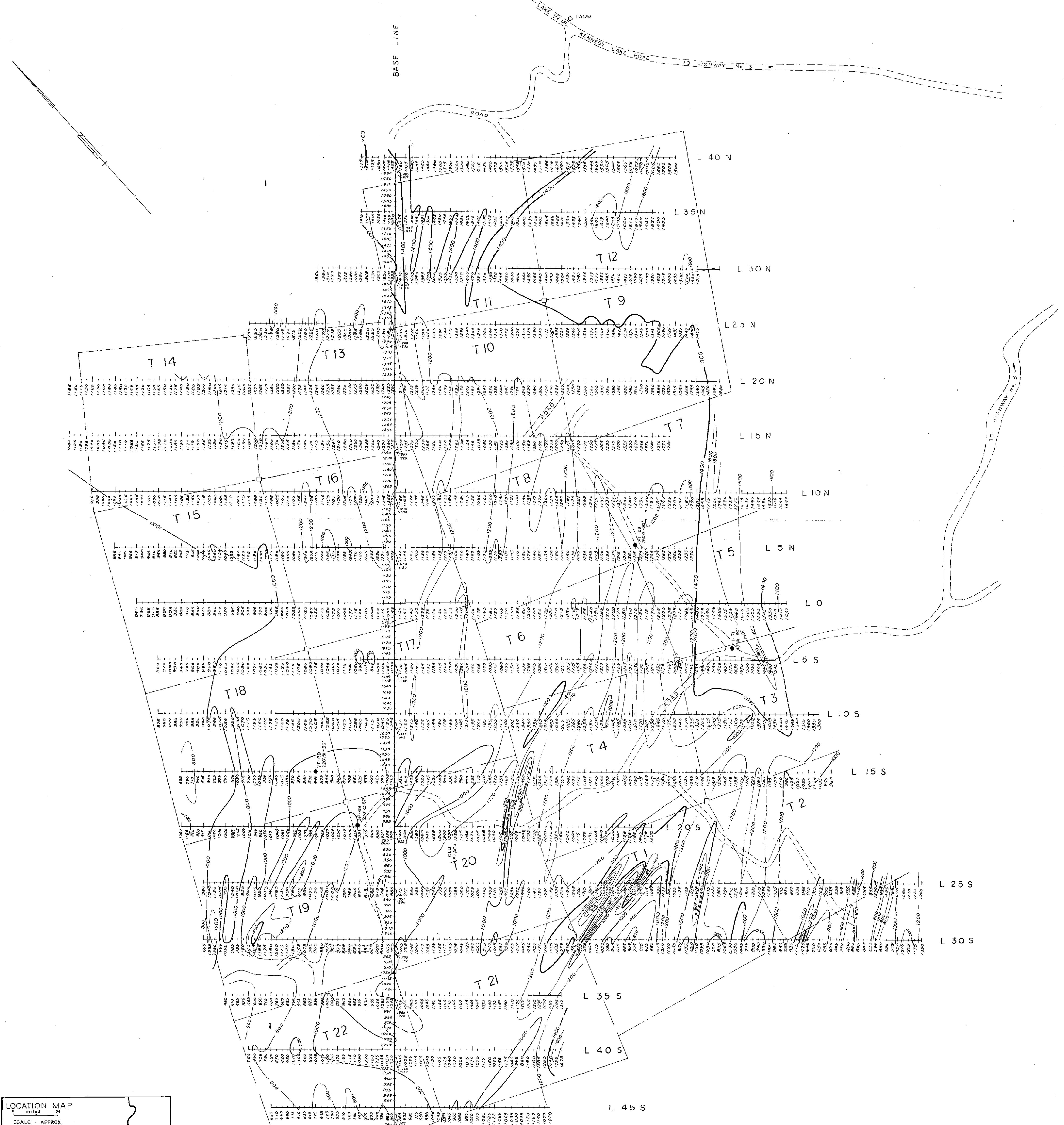
A Commissioner for taking Affidavits for British Columbia or
A Notary Public in and for the Province of British Columbia.

In the Matter of

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.....
.....
.....

Statutory Declaration
(CANADA EVIDENCE ACT)

29W 25W 21W 17W 13W 9W 5W 1W 0 1E 5E 9E 13E 17E 21E 25E 29E 33E 37E 41E 45E



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3557 M-P 4

LEGEND
Magnetometer Readings in Gammas
Instrument - Sharpe MF1 # 803331
Contour Interval - 200 Gammas
Claim, Grid and Drill Location as supplied by Company.

To Accompany Geophysical Report by W.S. Read
Dated January 31, 1972

ANCHOR MINES LTD. (N.P.L.) T GROUP MINERAL CLAIMS PRINCETON AREA (49° 19' N 120° 36' W)		
MAGNETOMETER SURVEY		
SCALE IN FEET 0 200 400 800 1600		
DRAWN BY: J.W.	REVISED	No
DATE: JAN. 31, 1972		1
WAYLAND S. READ P.Eng. Consulting Geologist, West Vancouver, B.C.		

3557 M-1

W.S. Read