

2599

REPORT ON

GEOPHYSICAL (MAGNETOMETER) SURVEY

ON THE

ANV MINERAL CLAIM GROUP

CORRAL CREEK, BRITISH COLUMBIA

IN THE

SIMILKAMEEN MINING DIVISION

FOR

J. S. CHRISTIE

JUNE 13 - JUNE 23, 1970

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 2599 MAP

OCTOBER 1, 1970

M. P. STADNYK, B.Sc.

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(Rear) MAPS:- #1 Location 1" = 136 MILES
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 #4 Magnetometer Survey Scale 1 inch to 400 "

INTRODUCTION

The ANV mineral claim group consists of fifteen contiguous mineral claims situated north of Corral Creek in the Similkameen Mining Division, British Columbia.

These claims were staked by J. S. Christie in 1969 on the basis of aeromagnetic data. A ground magnetometer survey was conducted over the property in 1970 as recommended by Mr. R. Philp, P. Engineer. Work performed consisted of line cutting and a magnetometer survey.

LOCATION, ACCESS AND PHYSIOGRAPHY

The property lies approximately one-half mile north of Corral Creek, and 8 miles southwest of Princeton, British Columbia.

Co-ordinates are $120^{\circ} 40'$ ³⁷ west longitude, $49^{\circ} 22'$ north latitude.

A logging road passes through the southwestern tip of the property and connects with the Hope-Princeton Highway near the Whipsaw River Bridge, a distance of some six miles eastwards.

An old rough forestry access road, which connects with the logging road, winds through the western portion of the claim block.

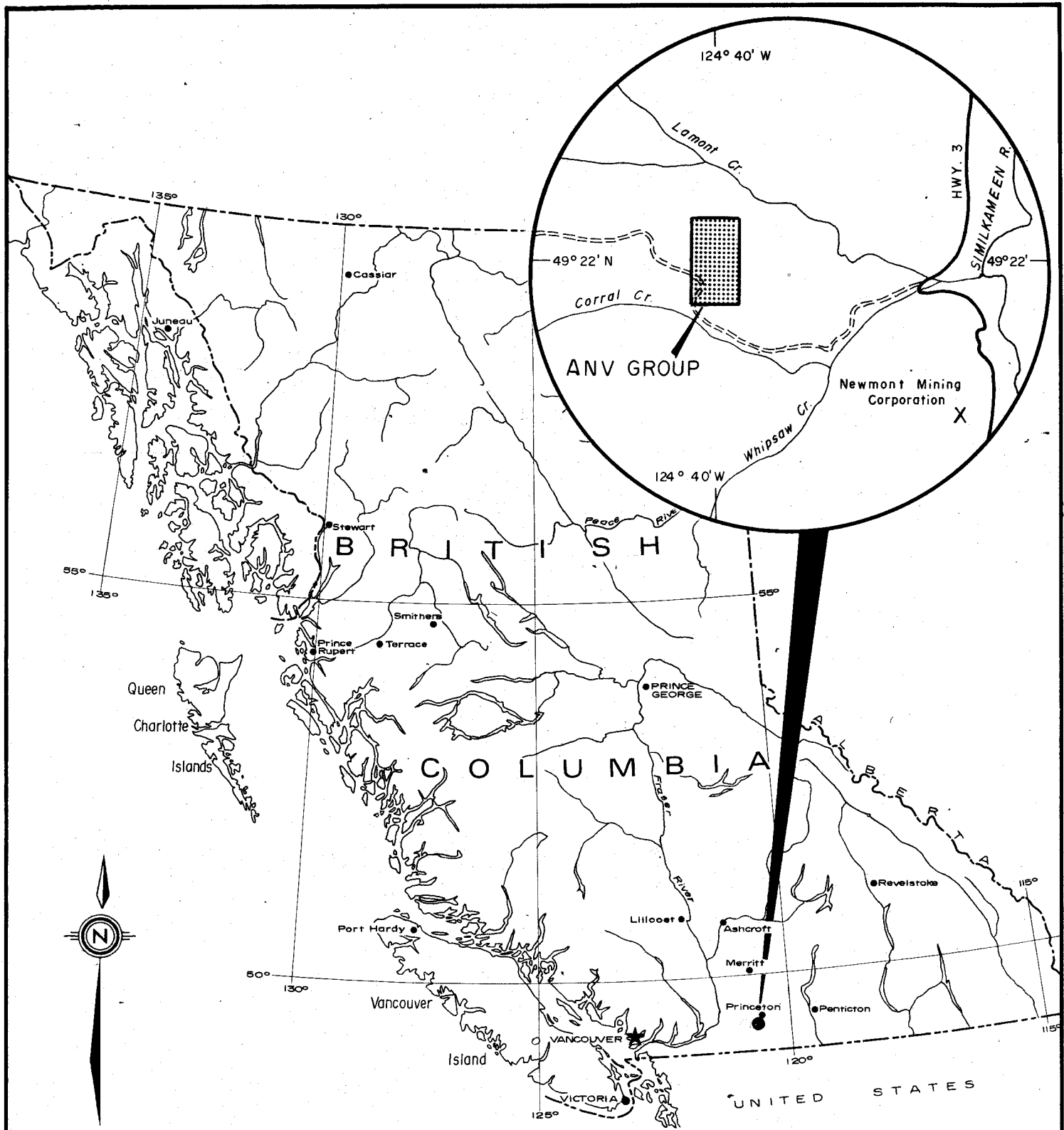
Relief on the claim block is moderate to steep. Elevations range from 4,000 to 5,000 feet above sea level.

Most of the property has been logged off, leaving an open, dry landscape, except on the eastern edge of the property where thick second growth pines and alders are found.

Water is scarce on the property, with the exception of Corral Creek.

PROPERTY

The property consists of fifteen contiguous full size mineral claims recorded on June 23, 1969, in the Similkameen Mining Division, British Columbia.



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 NO. 2599 MAP #1

ANV MINERAL CLAIMS
 CORRAL CREEK
 SIMILKAMEEN MINING DIVISION
LOCATION MAP
 SCALE: 1" = 136 Miles
 June, 1970 M.P. Stadnyk

MAC 18	14	ANV 16	ANV 18	ANV 20	22
MAC 16	13	ANV 15	ANV 17	ANV 19	21
MAC 14	ANV 2	ANV 4	ANV 6	8	
MAC 12	ANV 1	ANV 3	ANV 5	7	
MAC 20	ANV 25	ANV 27	ANV 29	31	
	24	26	28	30	



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ANV MINERAL CLAIMS
 CORRAL CREEK
 SIMILKAMEEN MINING DIVISION
 CLAIM MAP
 SCALE 1" = 1500'
 June, 1970 M.P. Stadnyk

All claims were staked by J. S. Christie.

<u>CLAIM</u>	<u>RECORD NUMBER</u>
ANV 1-6	25226-231, inclusive
ANV 15-20	25238-243
ANV 25	25247
ANV 27	25249
ANV 29	25251

Property is bounded on the west by the MAC claim group. Fifteen ANV claims to the south and east were allowed to lapse. Ground is open to the north.

HISTORY

No indications of prior work were found on the property although the ground has been staked a number of times.

Copper mineralization has been found on the adjoining property approximately one mile to the west. Other mineralized showings are known in Whipsaw and Lamont Creeks.

GEOPHYSICAL SURVEY

Grid

A grid comprising of 10.8 miles of line was cut out for the magnetometer survey. The base line originating at ANV25-28mc claim post was cut due north for 4800 feet with east-west cross lines at 400' intervals. Flagged and marked pickets were placed at 200 foot intervals on all lines.

Two men were engaged on line cutting for ten days.

Equipment

The magnetometer survey was conducted using a Sharpe model MFI Fluxgate, Serial Number 30544. This instrument is self orientating requiring only coarse levelling. Temperature compensations have been built into the instrument. Readings on the lowest scale can be read to 20 gammas and estimated to 5 gammas. Scale ranges from plus 100,000 gammas to minus 100,000 gammas. A high latitude adjustment permits zeroing of the

instrument at any location. A battery check is also built into the metering circuit.

Field Procedures

Magnetometer was zeroed for the property at a master base station at 28N, Base line. Base stations were established at 400 foot intervals along the base line. Corrections were then applied to these stations using the master station for control.

Readings were then taken at 200 foot intervals on all cross lines with each traverse starting and finishing on an established base station. Elapsed time per traverse was generally around 40 minutes and seldom exceeded one hour.

Diurnal variation tolerance for any traverse was one gamma per minute elapsed and actual variation was usually considerably less.

Corrections

Compensations built into the instrument eliminate any need for temperature corrections being applied to field readings. Diurnal corrections were applied to all readings between the initial and final base stations of each traverse. This variation is assumed to be linear and the correction for any one reading in a traverse is the diurnal variation multiplied by the ratio: time elapsed when reading taken, divided by, total time elapsed in the loop.

Interpretation

Readings range from minus 1875 to plus 1540 gammas.

Anomalous low zones of less than -200 gammas are located on the perimeters of the property while a large anomalous positive zone of over +800 gammas occupies the centre. No meaningful interpretation is possible for high and low

anomalies to the west of the base line but strong discontinuous negative anomalies run the length of the property from ON, 18E to 48N, 18-22E with strong positive zones on either side from ON to 28N.

Another negative anomalous "trench" in a north direction extends from 8N, 26E to 36N, 26E.

The rapidly changing magnetic profiles on the eastern third of the property could be due to rock changes, (contact zones), faults, or mineralization in altered rocks.

More exploration should be carried out from 12-30E and from ON-48N, in the form of detailed magnetometer surveying, geochemical survey, geological mapping and prospecting.

PERSONNEL

Personnel engaged on line cutting and magnetometer survey from June 13 to June 23, 1970, were: - F. de Jong, G. Wong, D. R. Milliner, and M. P. Stadnyk (magnetometer operator and supervisor).

CAMP AND EQUIPMENT

A fly camp comprising of one 16' X 18' tent was erected on the edge of Corral Creek.

Equipment used in the survey included a Homelite power saw, Sharpe Fluxgate magnetometer, and a Ford 3/4 ton 4 X 4 truck.

All equipment was supplied by Can West Investments Ltd.

SUMMARY

A geophysical survey was conducted over the ANV mineral claim group by Can West Investments' personnel between June 13 and June 23, 1970. Although no mineralization (copper) was seen during the survey, anomalous zones do exist and these should be checked out by geological mapping and other surveys.

RECOMMENDATIONS

1. Acquire more ground to the north of the present group.
2. Geologically map the group.
3. Conduct a geochemical survey over the property.
4. Conduct a detailed magnetometer survey over the eastern third of the property.

REPORT RESPECTFULLY SUBMITTED

M. P. Stadnyk, B.Sc.,
Geologist.

October 1, 1970
Vancouver, B. C.

E. W. Dodson
P. Eng

DECLARATION OF EXPENDITURESWages

D.R. Milliner	-June 13,17/70	- 2 days	@ \$35.00/day	-\$ 70.00	
F. de Jong	- " 13-23/70	-11 "	@ 30.00/day	- 330.00	
G. Wong	- " "	11 "	@ 30.00/day	- 330.00	
M. P. Stadnyk	- " 13,20-23/70	5 "	@ 80.00/day	- 400.00	
					<hr/>
					\$1,130.00

Camp

Materials, Equipment and Food	- \$7.00 per man day			
	7.00 X 29 man days	-		203.00

Truck Rental

Can West 4 X 4- 3/4 Ton Ford	- 10 Days X \$18.00	-		180.00
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Magnetometer Rental

1 Week @ \$75.00 per Week	-	75.00
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<u>Report Preparation and Drafting Fees</u>	-	200.00
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T O T A L -	<hr/> <hr/>	\$1,788.00
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CERTIFICATION

I, MIKE PETER STADNYK, of North Vancouver, B. C.
do hereby certify that:

1. I am a Mining Exploration Geologist residing at Suite 15, 2697 Whitley Court, North Vancouver, B. C.
2. I am a graduate of the University of New Zealand and have practised my profession in Canada for the past nine years.
3. The information contained in this report was based upon work carried out by me, or at my direction, between the period of June 13th and June 23rd, 1970.

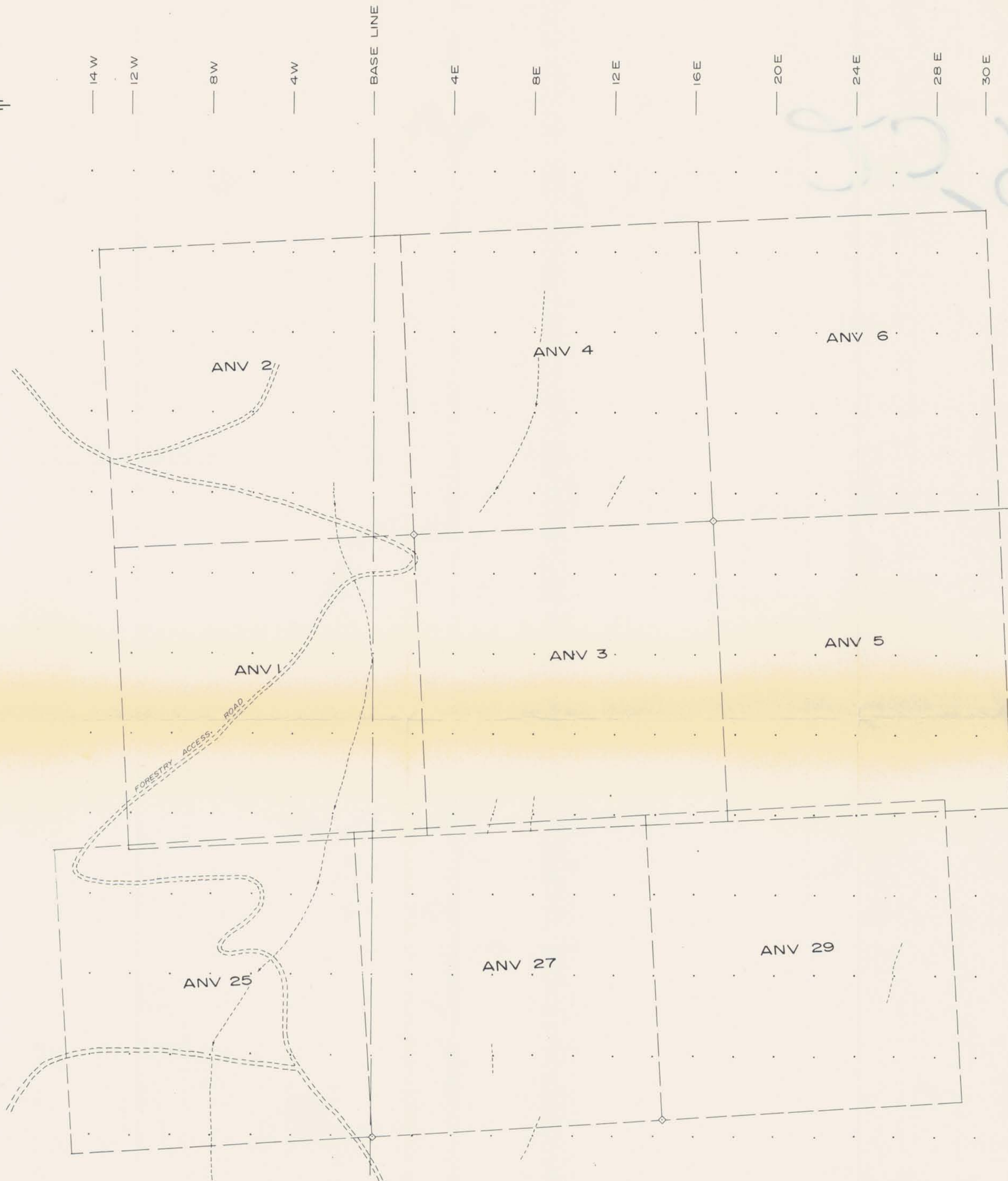
M. P. STADNYK, B.SC.,
Geologist.

1st October, 1970
North Vancouver, B. C.



14 W — 12 W — 8 W — 4 W — BASE LINE — 4 E — 8 E — 12 E — 16 E — 20 E — 24 E — 28 E — 30 E

48 N — 44 N — 40 N — 36 N — 32 N — 28 N — 24 N — 20 N — 16 N — 12 N — 8 N — 4 N — 0 N



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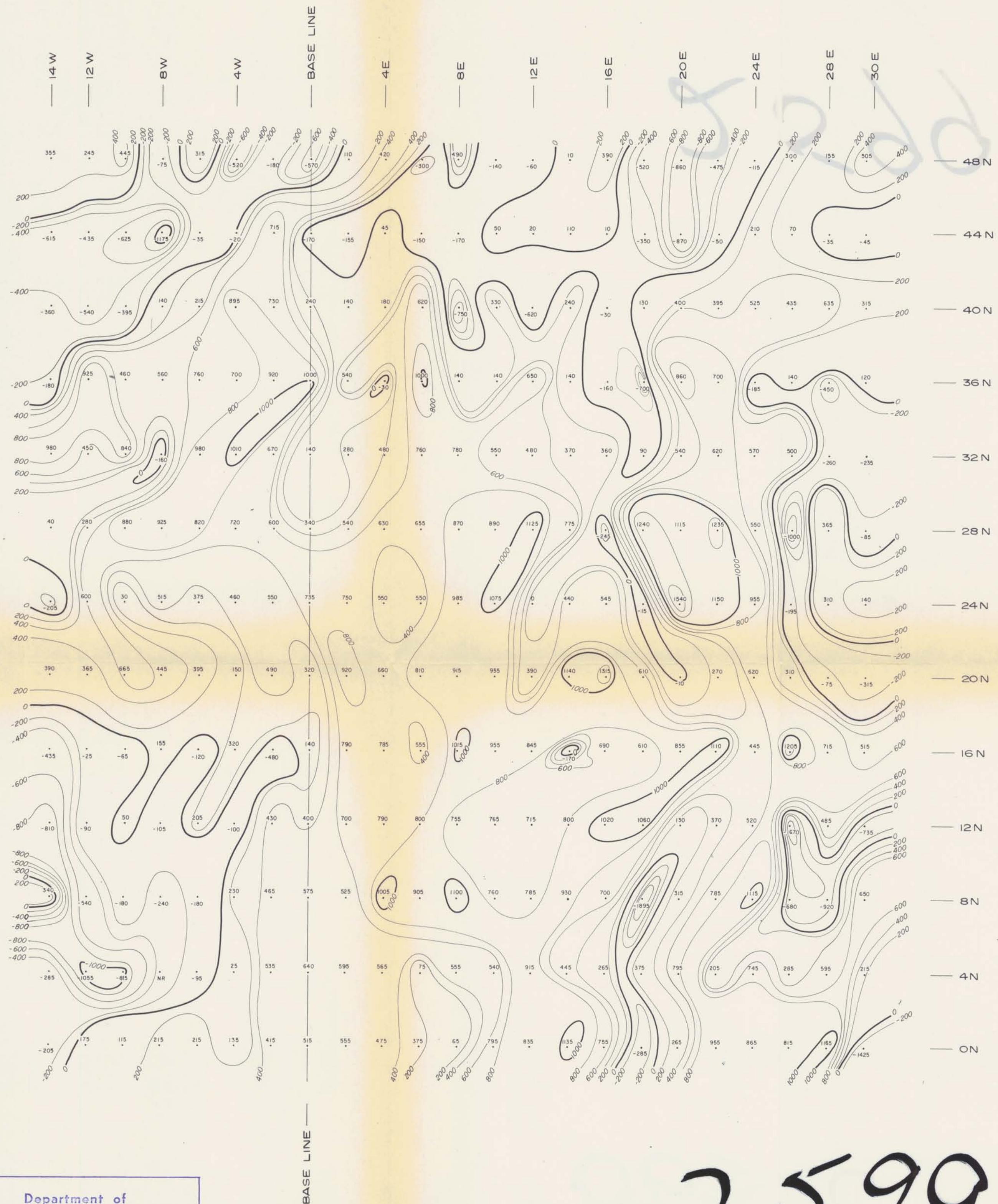
2599

W. Dodson

LEGEND
◇ CLAIM POST
- - - VALLEY

ANV MINERAL CLAIMS
CORRAL CREEK
SIMILKAMEEN MINING DIVISION
CLAIM MAP

SCALE: 1" = 400'
FEET 400 0 400 800 1200 FEET
SEPT. 1970 M.P. STADNYK



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LEGEND

215 MAGNETOMETER READING
IN GAMMAS

To accompany geophysical report by
MP Stadnyk September 1970

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ANV MINERAL CLAIMS
CORRAL CREEK
SIMILKAMEEN MINING DIVISION

MAGNETOMETER SURVEY

SCALE: 1" = 400'

FEET 400 0 400 800 1200 FEET

JUNE 1970

MP STADNYK