

Magnetometer Survey
Highland Valley Mining
Corp 92I/2W3E
Gordon Lake Property
Lat. N50°15' Long. W121°00'
By C.W.S. Tremaine
December 1957

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MAGNETOMETER SURVEY

OF

FOURTEEN CLAIMS OF THE

HIGHLAND VALLEY MINING CORP.

LOCATED AT

GORDON LAKE, KAMLOOPS MINING DIV.

Latitude N $50^{\circ} 15'$ Longitude W $121^{\circ} 00'$

December 6th, 1957

By C.W.S. Tremaine

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MAGNETOMETER SURVEY
OF
FOURTEEN CLAIMS IN THE
GORDON LAKE PROPERTY
OF THE
HIGHLAND VALLEY MINING CORP.

INTRODUCTION

This report outlines the procedure used in carrying out a magnetometer survey of twelve of the claims in the Gordon Lake property of the Highland Valley Mining Corp. It is written to comply with the requirements of the Mineral Act relative to claiming geophysical work for assessment purposes.

LOCATION OF PROPERTY

The Gordon Lake property of the Highland Valley Mining Corp. is located mid-way between Merritt and Spencers Bridge and about two miles north east of the Merritt Spencers Bridge highway.

DETAIL OF CLAIMS

There are 126 claims in the group. This survey covers only fourteen claims of the group.

Details of these claims are as follows:

<u>Claim</u>	<u>Tag No.</u>	<u>Record No.</u>
W.P. 97	205663	23652
W.P. 98	205664	23653
W.P. 95	205661	23650
W.P. 96	205662	23651
W.P. 93	205659	23648
W.P. 94	205660	23649
W.P. 109	205675	23628
W.P. 110	205676	23629
W.P. 129	217828	23773
W.P. 130	217826	23774
W.P. 119	217815	23762
W.P. 120	217816	23764
W.P. 121	217817	23765
W.P. 122	217818	23766

The property is reached by a good logging road from the Merritt Spencers Bridge highway and a series of mining roads built by the company.

GENERAL DESCRIPTION

The magnetometer survey is in two parts. The first part covers a group of ten claims and the second part covers a group of four claims.

The ten claims group under examination is located at the south end of the Gordon Lake group. They are at elevation about 4000 ft. on the upper levels of the Nicola River Valley.

The upper end of these claims is underlain by the Guichon Creek Batholith and the lower end is underlain by volcanics of the Spencers Bridge group. The contact between these two formations appears to strike about N 30 W and to pass through the middle of the group. The actual contact has not been located on these claims due to the presence of heavy overburden, but has been picked up at points both to the north and south of these claims. This contact could be a very important feature

of the property as it appears to have been a prominent feature in some of the nearby properties in this area.

The four claim group is located in the extreme south west corner of the property. They are underlain entirely by volcanics of the Spencers Bridge group.

When working over these claims in the original survey it was noticed that the compass needle had a tendency to be very unstable in this part of the property. The possibility of some local attraction causing this unsteadiness suggested the magnetometer survey for these four claims.

MAGNETOMETER SURVEY

The magnetometer survey was started on July 15th and completed on October 31st, 1957.

In laying out the grid for this work the location line for the claims was used as a base line and stations were located at 200 ft. intervals along this base. At each station, lines were run out to the right and left to the limits of the claims with stakes placed at 200 ft. intervals. These lines were run with compass and chain. Stakes about four feet long with blazed tops and clearly marked were used to identify all stations. In this way the claims were marked out in 200 ft. squares.

Magnetometer readings were taken at each of these stations.

Two men were employed cutting lines and setting

stations and as this work progressed the magnetometer readings were taken.

The instrument used was a "RADAR" magnetometer supplied by Eastern Geophysics of Toronto.

All readings for the 200 ft. grid system are shown on the 400 scale map accompanying this report.

The results of the magnetometer survey show two major areas of high readings or anomalies. These areas are shown in red on the 400 scale map. In these two areas additional readings were taken at 100 ft. intervals on the staked lines. These could not be shown on the map for want of space but the anomalies they indicate are shown in full.


No high readings of any consequence were found on the four claim group where the compass was found to be unsteady.

CONCLUSIONS

The purpose of this survey was to locate any points of high magnetic intensity in the area on the assumption that such an area will probably indicate the presence of magnetite and magnetite will in turn probably be associated with copper mineralization.

The survey was successful in that it clearly located two such major areas or anomalies. The readings in these areas, while not exceptionally high, are sufficiently above the general background readings to indicate the presence of some magnetic material which is probably magnetite.

Both these areas will have to be carefully investigated on the surface and probably investigated farther by means of diamond drilling to fully assess their possibilities.



Vancouver, B.C.
December 5, 1957

C.W.S. Tremaine

HIGHLAND VALLEY MINING CORPORATION LTD.

COST OF ASSESSMENT WORK - W. P. CLAIMS No. 93-94-95-96-97-98-109-110-119-120
121-122-129 & 130

JULY 15 to OCTOBER 31, 1957

Head Line - cutter	42½ days @ \$15.00	\$637.50
Helper	37½ days @ \$12.50	468.75
Consulting Engineer	10 days @ \$35.00	<u>350.00</u>
		\$1,456.25

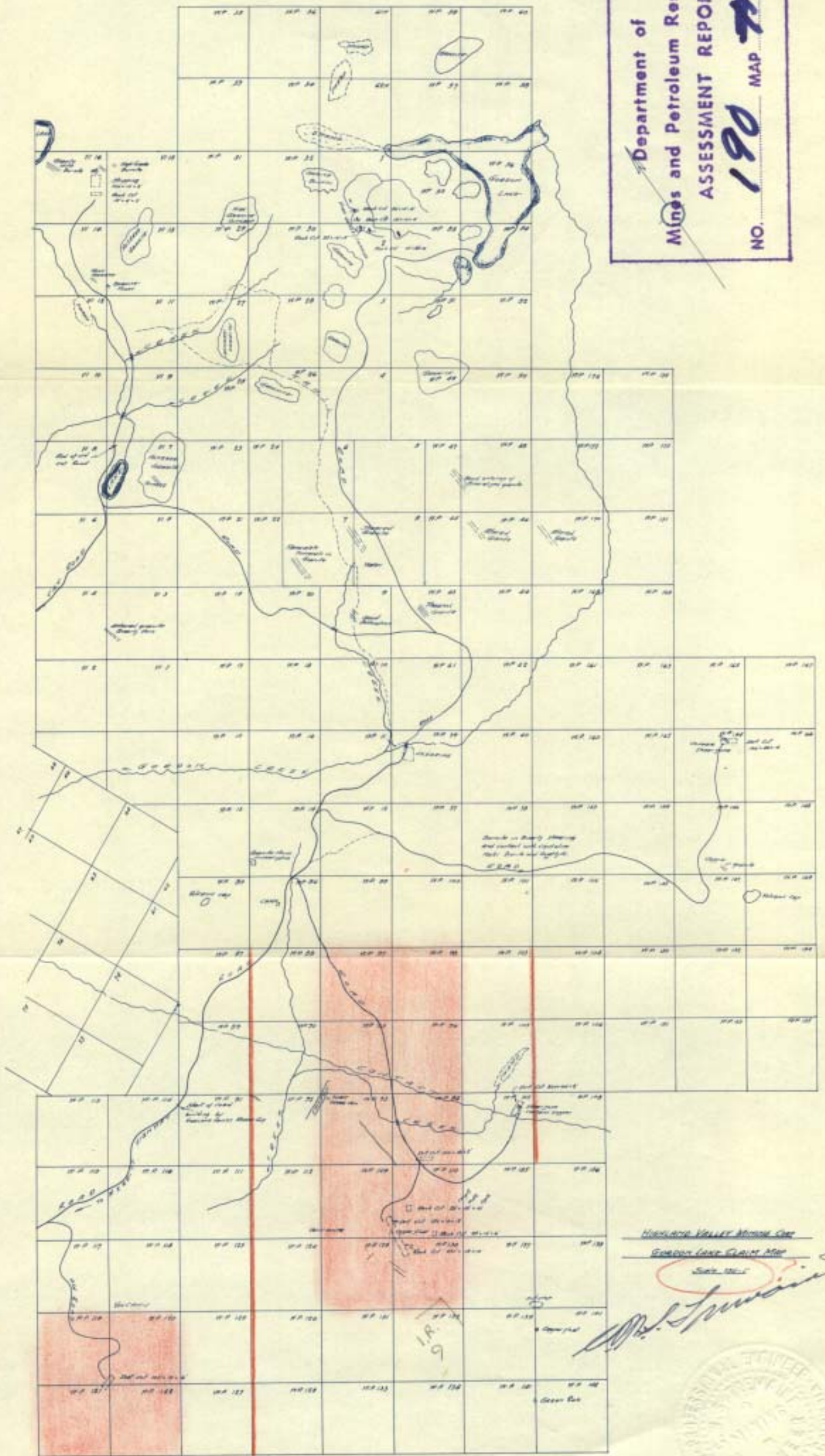
CERTIFIED CORRECT


S. Lalaub-Treasurer

HIGHLAND VALLEY MINING CORPORATION LTD (N.P.L.)

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

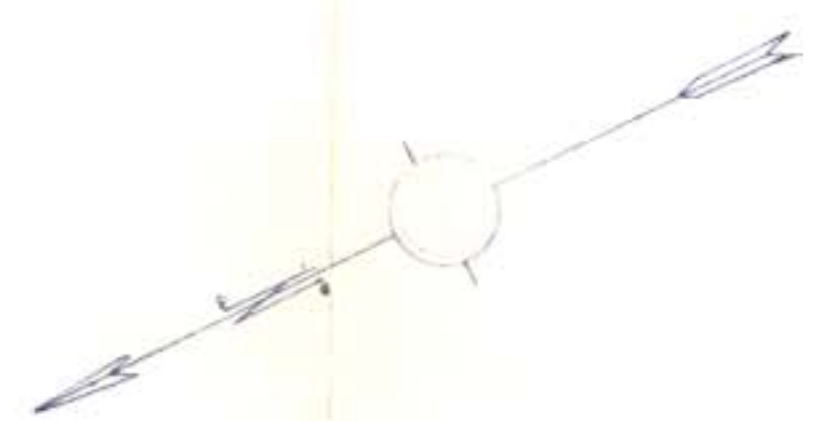
NO. 190 MAP #1



Highland Valley Mining Area
Gordon Lake Grant Area

W. J. ...





HIGHLAND VALLEY MINING CO.
 WASHINGTONIAN SOCIETY OF CLAIMS
 GOLDEN LAKE GROUP

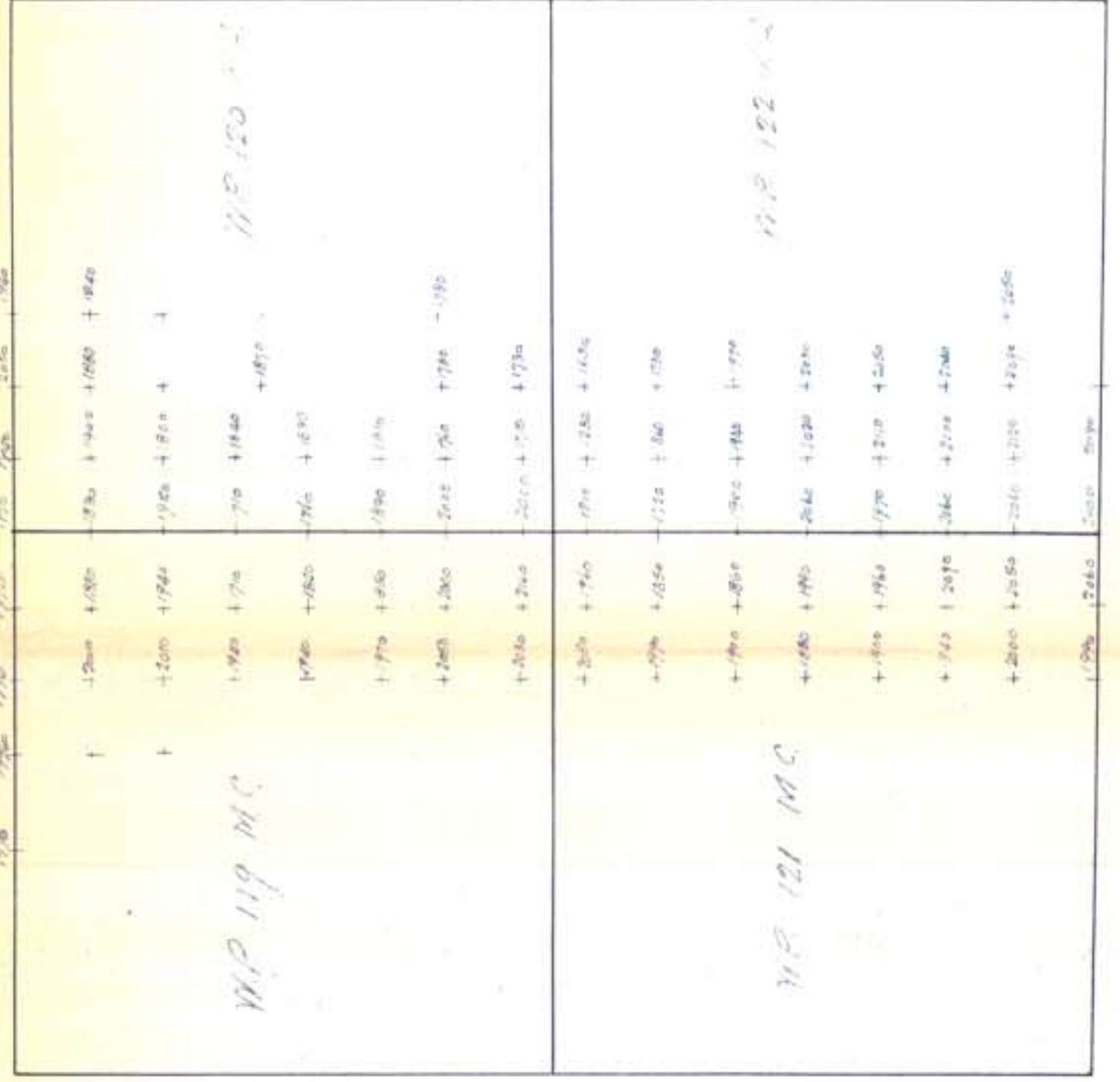
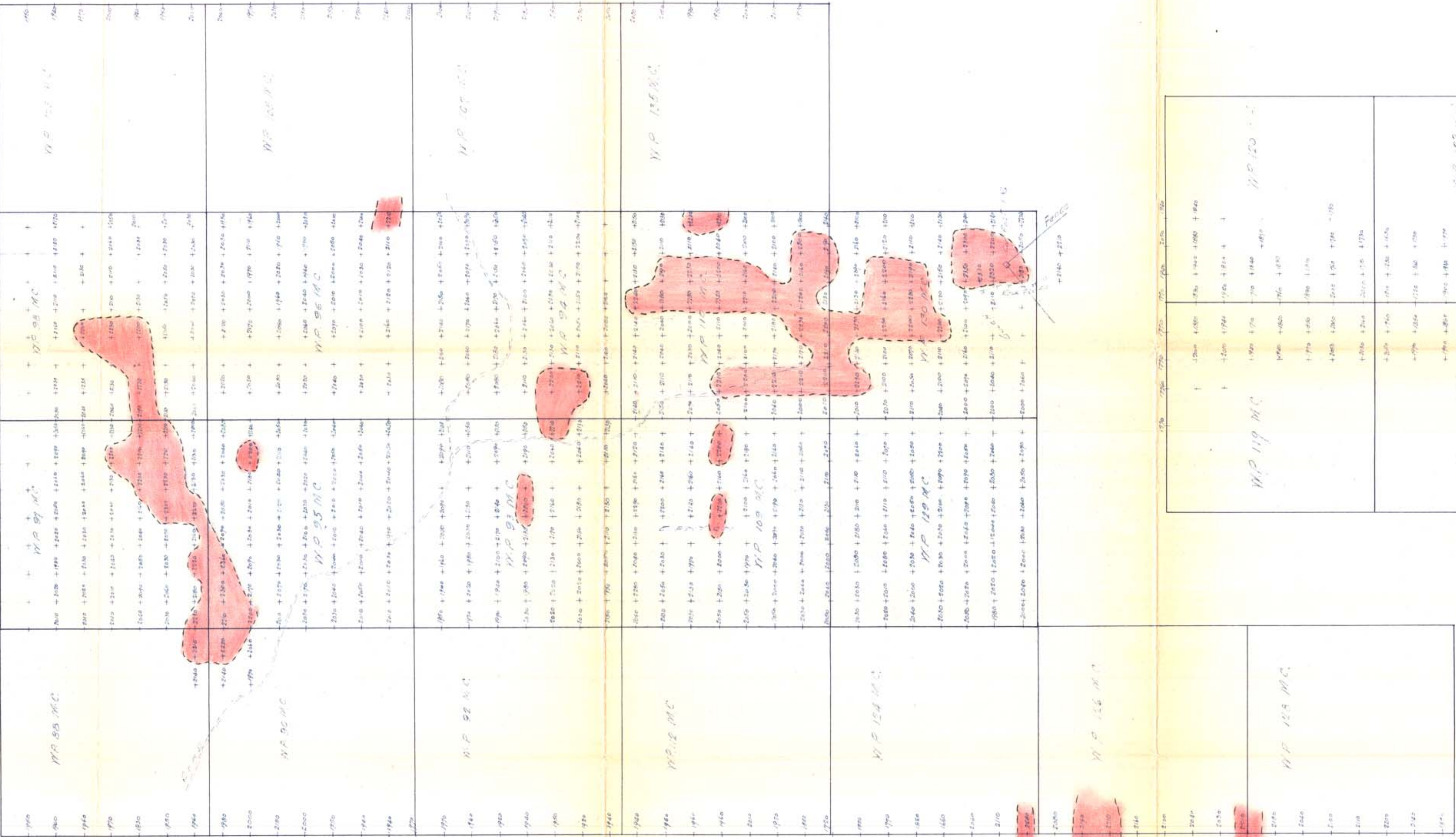
Scale 400:1

Date - Dec 2, 1957

By C. S. Tamm

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 190 MAP #2

C. S. Tamm



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 MAP 2