

2534

REPORT OF
GEOLOGICAL AND MAGNETOMETER SURVEYS
ON PITQUAH GROUP CLAIMS

Nav # 7, 8, 13;

Rocky # 1, 2, 3, 4, 6, 7, 8, 9, 10, 11,
23, 25, 33, 34, 35, 36, 37, 38, 40;

Maco # 15, 16, 17, 18;

Tom # 2, 3, 4, 5, 6.

By M. Bradford

Lytton Minerals Limited

Property situated 5 miles east of Lytton, B.C. in
the Kamloops Mining Division (50° 15' North Latitude;
121° 30' West Longitude).

Work performed: April 15th to May 31st, 1970.

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Maps enclosed at rear:

- #1 Figure 1 - Geological Survey 1" = 400'
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#3 Figure 3 - Topographic Map 1" = 400'

<p>Department of Mines and Petroleum Resources ASSESSMENT REPORT</p> <p>NO. <u>2534</u> MAP</p>

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REPORT OF GEOLOGICAL AND MAGNETOMETER SURVEYS
PERFORMED ON PITQUAH CLAIM GROUP- KAMLOOPS
MINING DIVISION, BRITISH COLUMBIA

1) Introduction

During the period April 15th to May 31st, 1970, geological and magnetometer surveys were carried out on the 31 claims of the Pitquah Group. This report describes the procedures used and the results obtained.

2) Property and Location

The Pitquah Group consist of 31 mineral claims as of a regrouping dated July 17, 1970.

The group, located in the Kamloops Mining Division at 50°15' North Latitude and 121°30' West Longitude, lies approximately 5 miles east of Lytton, British Columbia, on the north side of the Thompson River.

Access is by Canadian National Railways or by walking 1 mile along the Canadian National Railways tracks from the foot bridge across the Thompson River from the Trans Canada Highway. A pick-up truck was used on the highway side and a 4-wheel drive Jeep was transported by Canadian National Railways flatcar to the property access road and used for transportation on the property.

3) Field Work

Between April 15th and May 31st, 1970, geological mapping and a magnetometer survey were carried out on the claims.

a) Geological Mapping

Geological mapping of the claim group was carried out with reference to a topographic map of 1"=400' from an airphoto survey performed previously on the property. Contour intervals were 25 feet. The general geology of the claim area is a layered intrusive overlain by the Spences Bridge Group. The layered intrusive has been subsequently intruded by a smaller granitic mass and also basic dykes have been intruded into areas of weakness in the host rock type. Consequently, the layered intrusive has been highly altered in places and often weathers to a chalky white broken rock.

The only copper mineral noted is chalcopyrite and occurs mainly disseminated throughout some parts of the host rock. Chalcopyrite is also found in small fractures but is of minor amount, hence the deposit is believed to be of primary origin. Assays were made for possible nickel and cobalt as pyrrhotite is present in varying amounts, but the assays were negative.

Magnetite is also present in the layered intrusive, and is generally more concentrated in the basic layers.

Exploration consisting of diamond drilling and detailed mapping was performed in 1963 on the main zone (See Fig. 1). Geological mapping was done on the surrounding area this year with hopes of finding a continuation of the main zone. Minor amounts of chalcopyrite were found but mineralization is sporadic and does not appear to be of economic importance.

Much of the area has been faulted and fractured, making the layers difficult to follow. The general trend of the intrusive is 320° to 330°

with an easterly dip of 25 ° to 35°. Differential banding is very apparent over most of the property. Albitization is prominent around areas of intense fracturing, and calcite and quartz filled fracture are common.

Primary magnetite up to 5% often occurs with higher grades of disseminated chalcopyrite, and for this reason a magnetometer survey was performed, with hopes of finding a similar magnetic trend to the main zone. *See Fig.1.

b) Magnetometer Survey

A total of 18.2 miles of lines were surveyed using a compass and a Sharpe MF-1 magnetometer with a sensitivity of 20 gammas.

Readings were taken at 100 foot intervals and were corrected with reference to base station established at regular intervals. The corrected readings were plotted on the accompanying map (Fig. 2), of scale 1"=400'.

The lines were run approximately parallel to the topographic contours due to the high topographic relief. The magnetometer grid was tied in to a previous survey grid on the main zone.

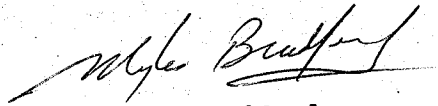
The magnetic trend follows the general trend of the layered intrusive. The main zone magnetic readings range between 3000 - 5000 gammas but geological mapping in this magnetic range in adjacent areas did not show further concentrates of chalcopyrite.

It is believed that higher magnetic readings were due to magnetite content and rock type and are not of use in locating additional chalcopyrite mineralization.

Conclusions

Geological mapping and magnetometer surveying of the area adjacent to the Main zone of the Pitquah Group failed to show further indications of economic mineralization near surface.

July 26th, 1970



Myles Bradford.

PROJECT PERSONNEL AND MAJOR EXPENSES APPLICABLE TO THE GEOLOGICAL AND
MAGNETOMETER SURVEYS.

<u>N a m e</u>	<u>A d d r e s s</u>	<u>Work Period</u>	<u>Type of Work</u>	<u>Rate/Month</u>	<u>Gross *</u>
L. Bradford	Box 41 Kimberley, B.C.	April 15- May 28, 1970	Trenching, magnetometer survey.	\$600.00	\$ 866.50
E. Isaaks	1776 Trimble St. Vancouver, B.C.	April 19 -May 31, 1970	Geological mapping	\$625.00	\$ 882.15
K. Pride	c/o Box 322 Watson Lake, Yukon Territory	April 21 - May 31, 1970	Geological mapping Magnetometer survey	\$525.00	\$ 700.35
M. Bradford	c/o Box 322 Watson Lake, Yukon Territory	April 15 - May 31, 1970	Geological Mapping Magnetometer survey & Supervision	\$950.00	\$1536.64
D.W.Asbury	20 Rothmere Drive Toronto 10, Ont.	April 15 - May 31, 1970	Supervision	-	\$ 428.95
					<u>\$4414.59</u>

O T H E R E X P E N S E S

Vehicle rental	-Jeep	\$ 564.35
	-Pick-up	\$ 287.40
Explosives (Sardis)		56.83
Groceries (Cammie's)		<u>591.35</u>
		\$5914.52

* Includes holiday pay
 Unemployment Insurance
 and Canada Pension.

CERTIFIED CORRECT

ASSISTANT COMPTROLLER.

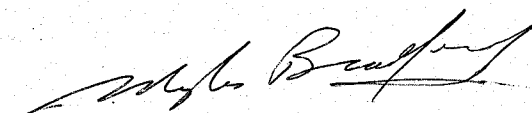
--C E R T I F I C A T E--

I MYLES BRADFORD, do hereby state:

- 1) That I am a Geologist, residing at Kimberley, British Columbia, P.O.Box 41.
- 2) That I am a graduate of the University of British Columbia with a B.Sc. in Geology (1966).
- 3) That as a Geologist of the Exploration Department of the Patiño Mining Corporation I supervised and helped execute the work herein described, for Lytton Minerals Limited, a subsidiary Company of Patiño Mining Corporation.

Dated at Dease Lake, B.C.

July 26, 1970



Myles Bradford.



- LEGEND**
- 1 Granite, m.g., 2% mafics.
 - 2 Diorite, hornblende type.
 - 3a Chloritized, calcified diorite.
 - 3b Mixed bands of syenite and diorite.
 - 4 Gossan (pyritized country rock)
 - 5 Amphibolite (gabbro)
 - 6 Granodiorite
 - 7a Altered granodiorite (albitized, sericitized)
 - 7b Mixed bands of granodiorite and diorite.
 - 8 Quartz diorite.
 - 9 Lower basic series.
 - 10 Banding (differential)
 - Main zone - greater than 0.3% Cu.
 - Basic dyke.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2534 MAP #1

To accompany report by Myles Bradford, B.Sc.
of Geological and Magnetometer Surveys
performed on the PITQUAH CLAIM GROUP,
KAMLOOPS MINING DIVISION, dated July 26, 1970.

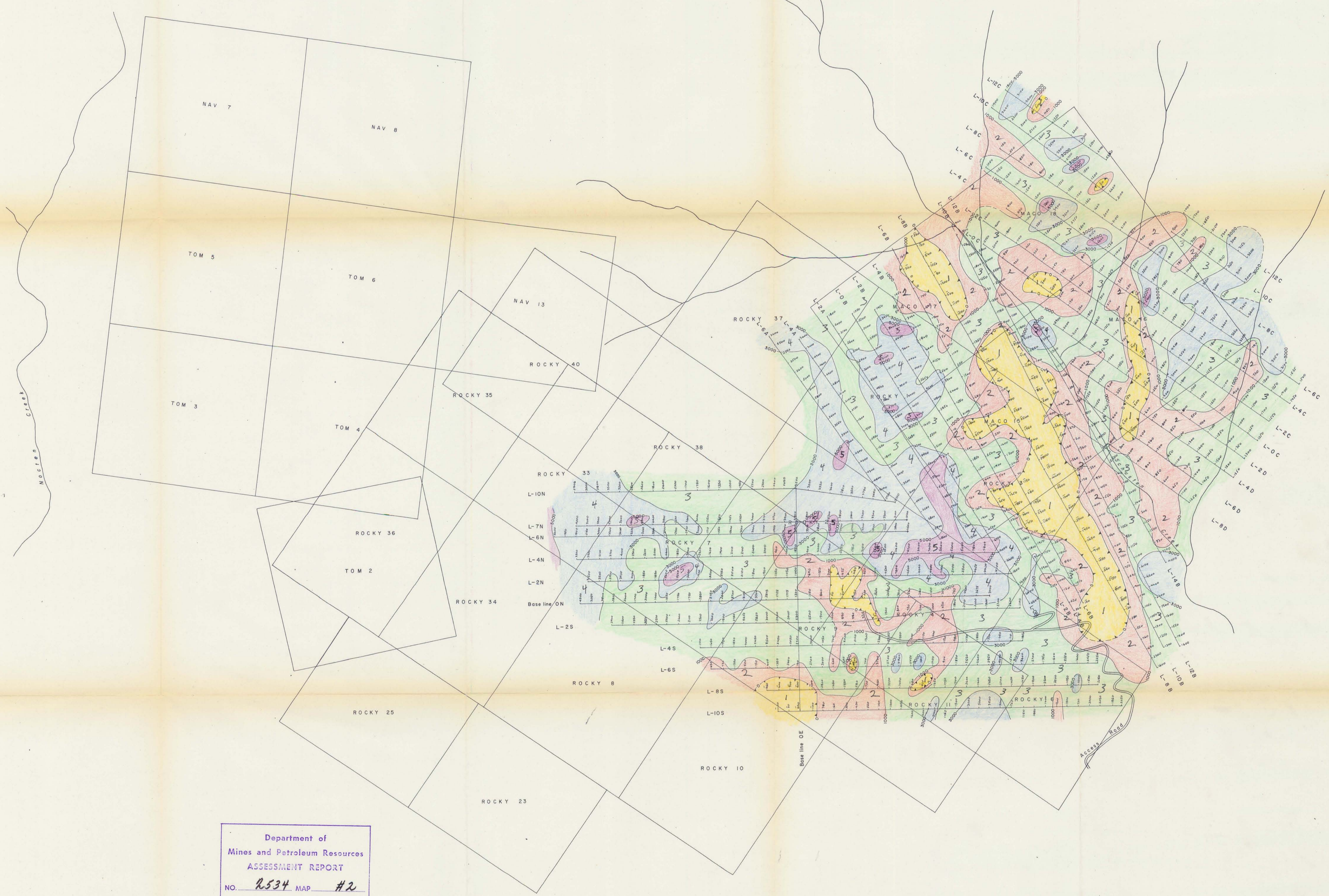
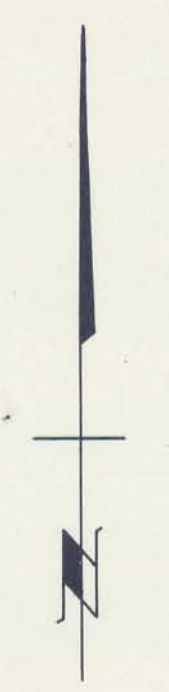
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Fig. I.

LYTTON MINERALS LTD.

PITQUAH CLAIM GROUP
GEOLOGY SURVEY

Date: MAY 1970 Scale: 1" = 400'



Department of
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ASSESSMENT REPORT
NO. 2534 MAP #2

- LEGEND**
- 5 Over 5000 gammas
 - 4 3000 - 5000 gammas
 - 3 1000 - 3000 gammas
 - 2 0 - 1000 gammas
 - 1 Below 0 gammas
- Magnetometer used:
SHARPE MF-1.
Sensitivity - 20 gammas.

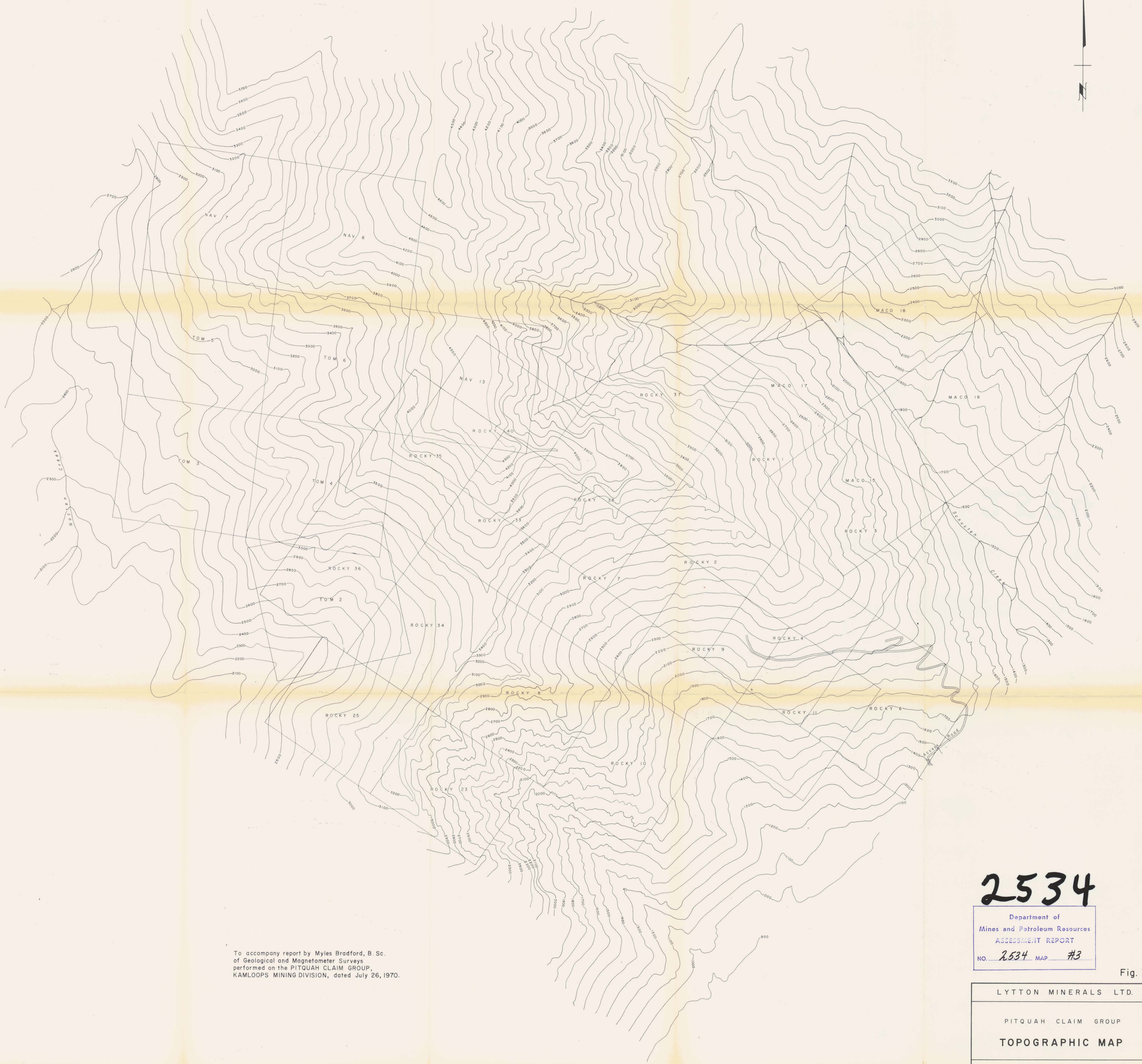
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2534 Fig. 2.

LYTTON MINERALS LTD.

PITQUAH CLAIM GROUP
MAGNETOMETER SURVEY

Date: MAY 1970 Scale: 1" = 400'



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Department of
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ASSESSMENT REPORT
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Fig. 3.

LYTTON MINERALS LTD.
PITQUAH CLAIM GROUP
TOPOGRAPHIC MAP
Date: MAY 1970 Scale: 1" = 400'