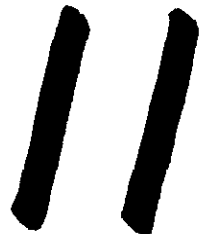


82G/4W#5W

L49-115 SW.  
Moyie Lake.  
St. Eugene Mining Corp. Ltd.  
Smith, Alexander, Engineer.

0011

Geology of the ML60-71 claims  
South end of Mayie Lake, B. C.



The area is underlain by the middle portion of the Aldridge formation. These sediments are principally quartzites. The axis of the major anticline of the area passes through the claims and continues  $220^{\circ}\text{E}$  to underlie Mayie Lake. This anticline has a gentle pitch of  $10^{\circ}$  -  $20^{\circ}$  to the north. It is a broad open structure with dips on the limbs of about  $20^{\circ}$ .

Two quartz gabbro sills (Purcell sills) lie in the southern part of the map area. The upper one is some 700 feet thick, the lower about 200 feet.

A  $\text{N}20^{\circ}\text{E}$  fault apparently cuts both sills and quartzites. On these claims it parallels and lies near the anticlinal axis. As measured on the hanging wall of the upper sill the offset is west side up 650 feet vertically and to the north 1350' horizontally.

To the east of the road in the Mayie River valley bottom, outcrops are few. On the east slope of the valley 1000 feet east of the claims the same quartzites and sills outcrop striking about  $235\text{W}$  and dipping  $20^{\circ}$  northeast.

The quartz veins mapped in the sills carry pyrrhotite but assay low in gold and silver. Along the  $\text{N}20^{\circ}\text{E}$  fault there are minor drag folds and development of a  $\text{N}20^{\circ}\text{E}$  fault there are minor drag folds and development of a  $\text{N}20^{\circ}\text{W}$  fracture cleavage. Also, some bleaching and silicification of the quartzite that is accompanied by a little disseminated pyrrhotite.

Alex Smith  
Sept. 30, 1947

STATEMENT OF COSTS  
GEOLOGICAL MAPPING  
ML60-71 claims inclusive

Sept 1946 - Sept 1947

To field work geological surveying  
Alexander Smith and J.A. Robertson  
20 days ----- \$1000.00

To office work preparing maps  
& reports  
10 days ----- 500.00  
\$1500.00  
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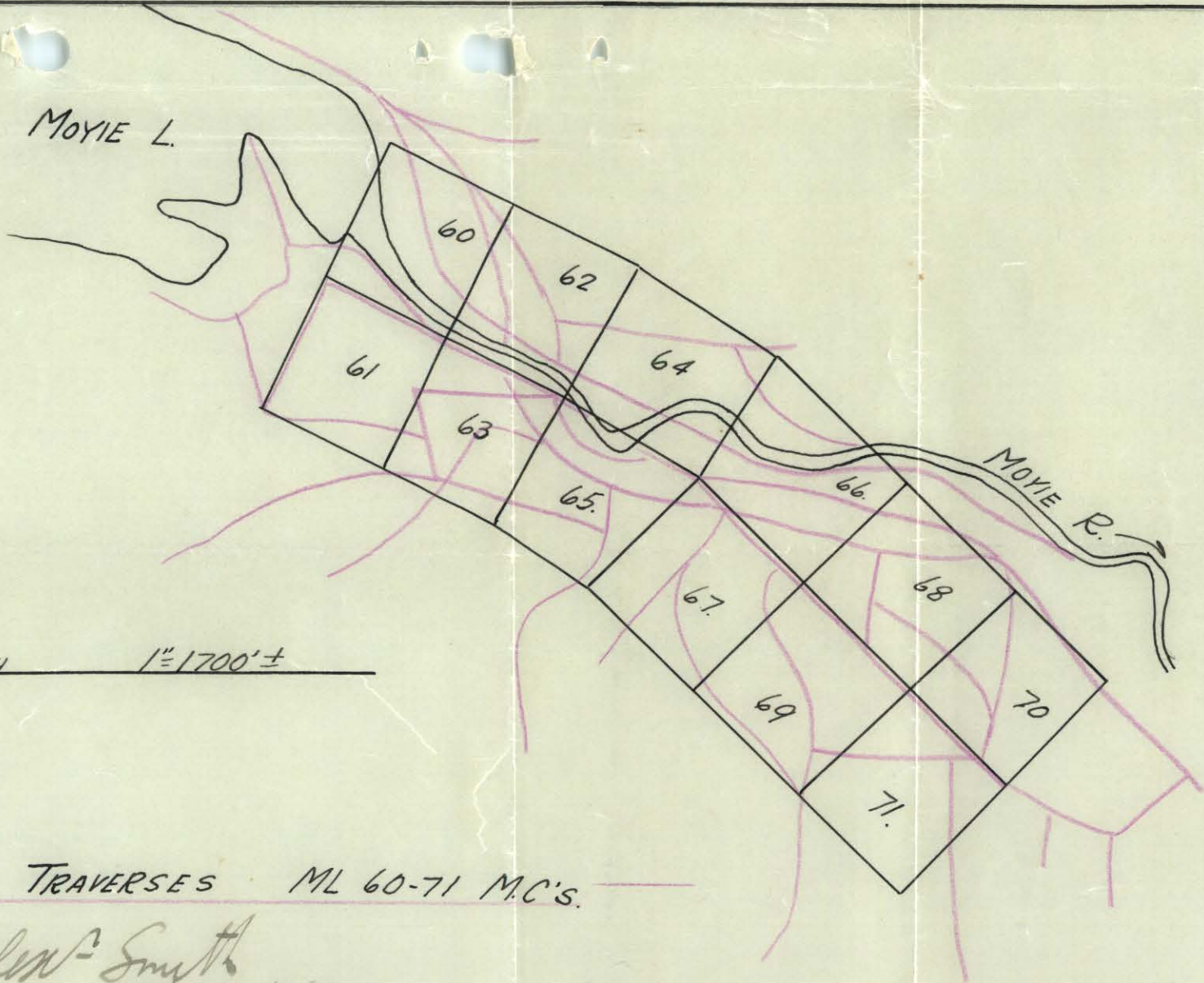
Distribution

\$100.00 work on each of 12 claims

Note:- in addition to the outcrop map submitted an area of  
about 4 sq. miles including and adjacent to the  
claims has been mapped on scale 1 = 1700' I. This  
gives information on the geology of the covered  
portions of these claims.

Alex Smith  
Mayie, B. C.  
Oct. 18, 1947

MOYIE L.



MOYIE R.

NORTH

1" = 1700' ±

PRINCIPAL TRAVERSES ML 60-71 M.C.'S.

Allen - Smith  
Oct 17 '47

CRESTON FORMATION:

Quartzites - 735 11

Argillites - 736 10

ALDRIDGE FORMATION:

Thick Bedded Quartzites (- 4" Av. beds	Light Blue - 740	<span style="border: 1px solid black; padding: 2px;">9</span>
" " " banded	Dark Blue - 741	<span style="border: 1px solid black; padding: 2px;">8</span>
Thin " " & Arg. Quartzites	Light Brown - 6839	<span style="border: 1px solid black; padding: 2px;">7</span>
" " " " " banded	Dark Brown - 746	<span style="border: 1px solid black; padding: 2px;">6</span>
Argillaceous Siltstone	Terra Cotta - 745	<span style="border: 1px solid black; padding: 2px;">5</span>
Argillites	Violet - 742	<span style="border: 1px solid black; padding: 2px;">4</span>
Rhythmically Banded Marker Horizons (MAR)	Lavender - 742	<span style="border: 1px solid black; padding: 2px;">3</span>
Purcell Sills & Dykes	Green - 739	<span style="border: 1px solid black; padding: 2px;">2</span>
Veins	Scarlet - 744	<span style="border: 1px solid black; padding: 2px;">1</span>

ABBREVIATIONS

ROCK TYPES:

- Q - Quartzites
- AQ - Argillaceous Quartzites
- S - Siltstone
- AS - Argillaceous Siltstone
- A - Argillites
- MAR - Chubbs banded marker bed

BANDING:

- B - Banding
- oB - occasional Banding
- fB - faint Banding
- hB - hairlike Banding as in Argillites
- dB - distinct Banding
- pB - pronounced Banding
- gB - gradational Banding
- MAR - Chubbs banded member

ROCK COLOR:

- DG - Dark Grey
- MG - Medium Grey
- SG - Silver Grey
- LG - Light Grey
- Bl. - Black
- T. - Tan
- RN. - Rusty weathering
- Gn. - Greenish
- Pu. - Purple
- Y - Yellowish

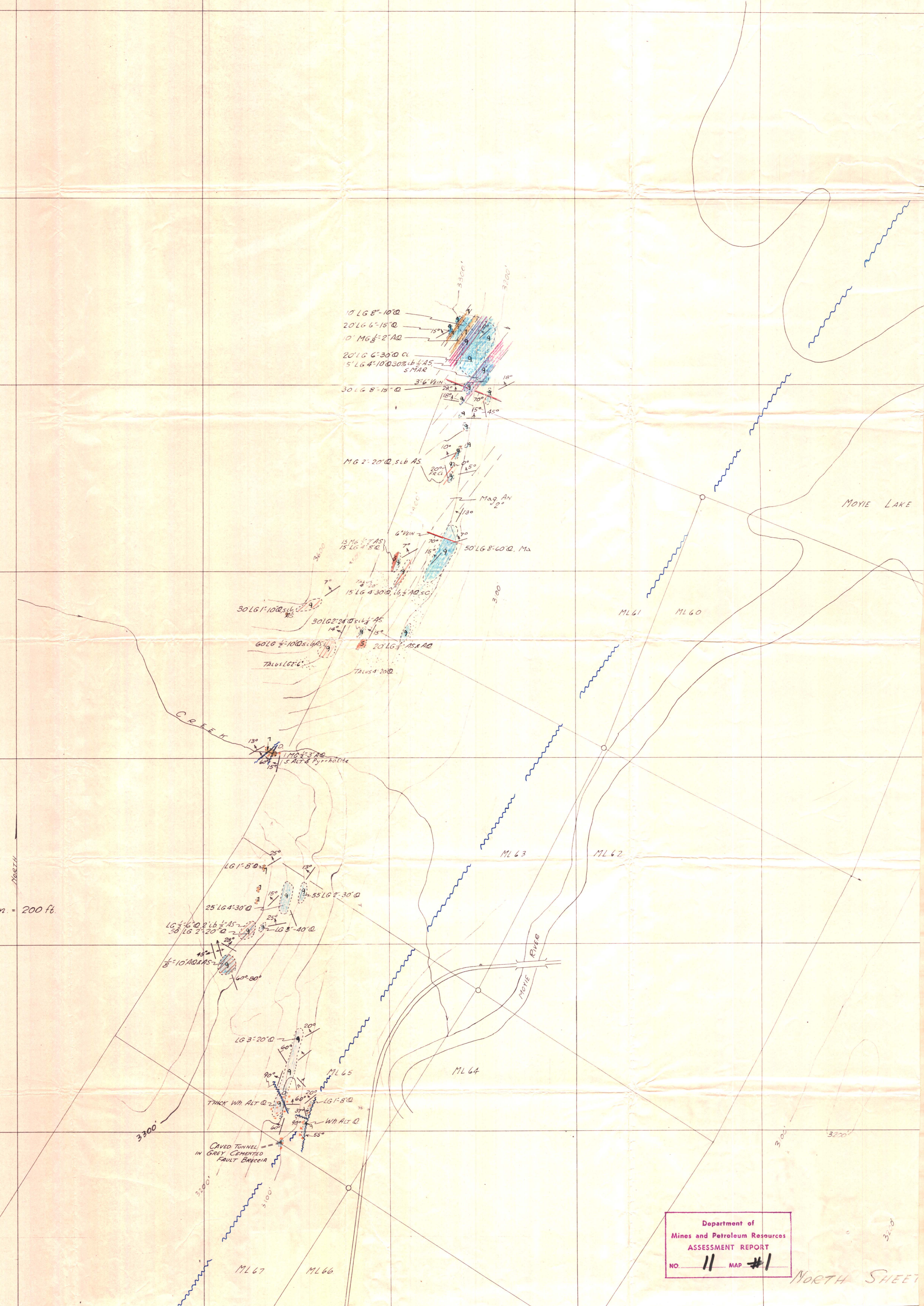
SEDIMENTATION FEATURES:

- bp. - bedding plane
- ib. - interbeds
- Rm. - Ripple marked
- Rd. - Rain drop casts
- Mc. - Mud cracks
- C. - Concretions
- Gl. - Glistening Crystals
- XC - Crystal Casts on bedding plane
- Fr. Clv. - Fracture Cleavage

GENERAL:

- gr. - grading
- cl. - clean
- Ma. - Massive
- cr. - Crudy  
(messy)
- Thick
- Thin
- Alt. - Alteration
- Siml. - Similar
- Sa. - Sandy
- Sh. - Shaly
- Sl. - Slaty
- Bio. - Biotite

1 in. = 200 ft.



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 11 MAP #1

NORTH SHEET

RUDD AREA 1"=200'

RUDD AREA 1"=200'

REPORT # 11  
MAP # 2

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 11 MAP #2

SOUTH SHEET  
1"=200'

