

777

ALBERNI MINES, LTD.

ORPHAN BOY CLAIM

LEASE - M 20

ALBERNI MINING DIVISION

Airae Exploration Ltd.

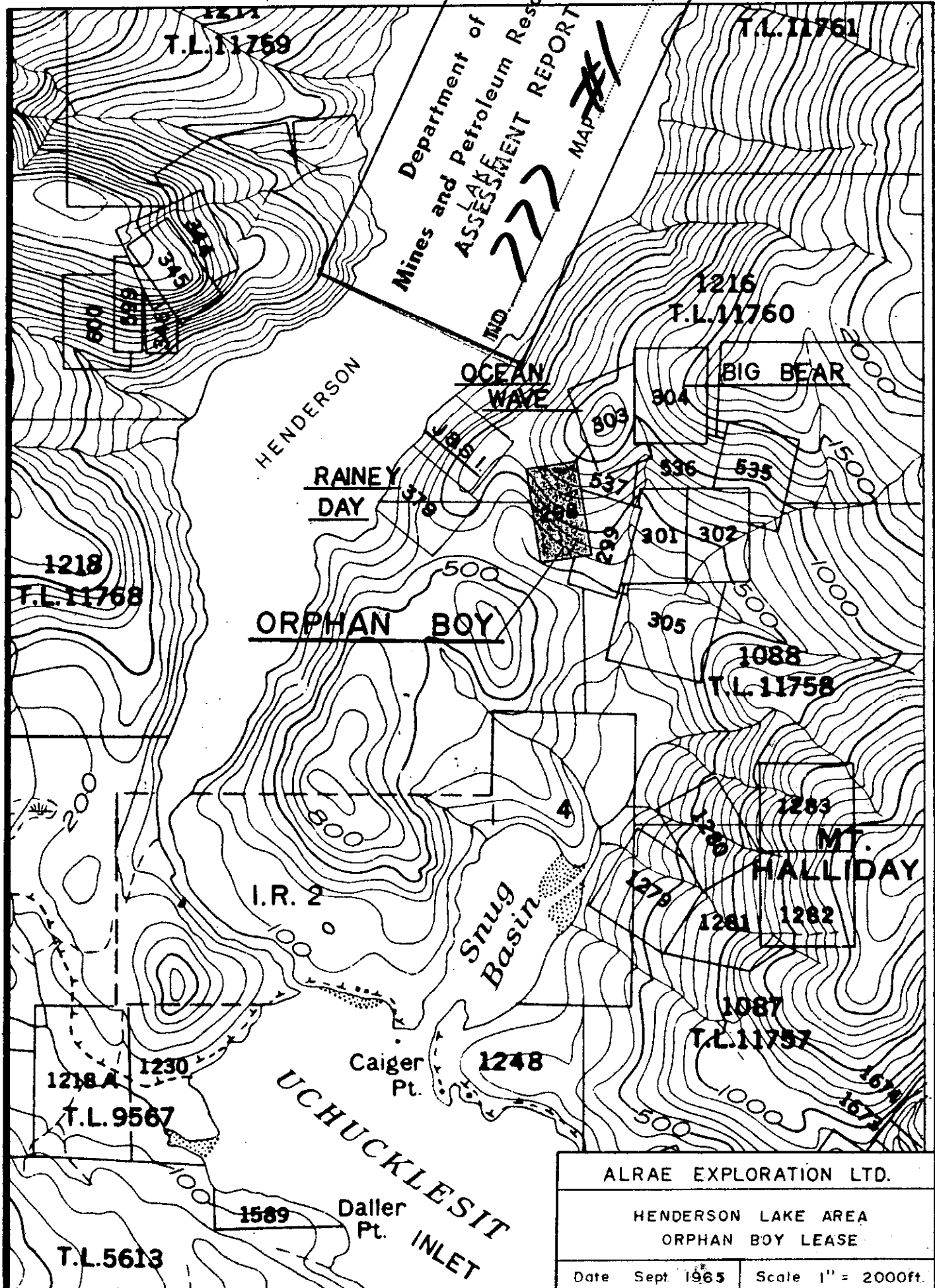
September 30, 1965

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<u>MAPS</u> #1	Location Map	Scale 1" = 2000 ft.
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Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
MAP #1



ALRAE EXPLORATION LTD.		
HENDERSON LAKE AREA ORPHAN BOY LEASE		
Date	Sept. 1965	Scale 1" = 2000ft.

## INTRODUCTION

During July and August 1965 geological and geophysical exploration work was carried out on the Orphan Boy mineral lease M 20. This work was done by a geologist, magnetometer operator, and two assistants under the supervision of the writer.

The area surveyed is rather difficult topographically and underbrush is relatively thick. Due to these factors work proceeded slowly. Grid lines were marked out in the area of the old workings and detailed mapping and magnetometer survey maps were made at a scale of one inch equal to 50 feet. A topographic map with contour intervals at ten feet was also made.

## LOCATION AND ACCESS

The Orphan Boy lease is located on the southeast shore of Henderson Lake at elevation 400 feet. Henderson Lake is approximately 15 miles southwest of Port Alberni, B. C., on Vancouver Island.

The claim is most easily reached by seaplane from Port Alberni to Henderson Lake and thence by trail for three-quarter mile to the claim.

MAN DAYS OF WORK

Following is a summary of time spent on geological and geophysical work on the Orphan Boy lease.

<u>Geological mapping</u>		<u>July 26 - 31</u>	
Geologist	- M. P. Stadnyk	6 days @ \$32/day	\$ 192
Assistant	- L. White	5 days @ 25/day	125
<u>Magnetometer Survey</u>		<u>July 28 - 31</u>	
<u>Geologist and magnetometer</u>			
operator	- A. Ruedi	4 days @ 28/day	112
Assistant	- J. Patterson	3 days @ 23/day	<u>69</u>
			\$ 498

HISTORY

Claims in this area were worked in 1899 and again in 1916. There is no evidence of other than surface test pits on the Orphan Boy claim and it is not known when this was done.

The original crown-grant to the claim expired and a lease was applied for and granted to Mr. S. Preiger and Canal Mining Ltd. of Port Alberni on July 12th, 1962. No additional work has been done on this claim until the current work this year.

GEOLOGY AND MAGNETOMETER SURVEY

The Orphan Boy claim is underlain by Triassic or Jurassic tuff and limestone which have been intruded by later diorite. As a result of this intrusion both tuff and limestone have been recrystallized. Alteration of the tuff has formed a rock almost identical in appearance to the diorite itself.

Skarn zones have formed along limestone contacts. These are composed of epidote, ilvaite, garnet, quartz, pyroxene, and minor amounts of pyrite, chalcopyrite, pyrrhotite, and magnetite. Chalcopyrite is most often associated with ilvaite in the skarn zones.

Mineralized zones on this claim appear to be small, lenticular and irregular in distribution. A sample taken across 3.0 feet at 3+20 S and 0+60 W of the grid assayed gold, 0.005 oz per ton; silver, 1.15 oz per ton; copper, 2.35%.

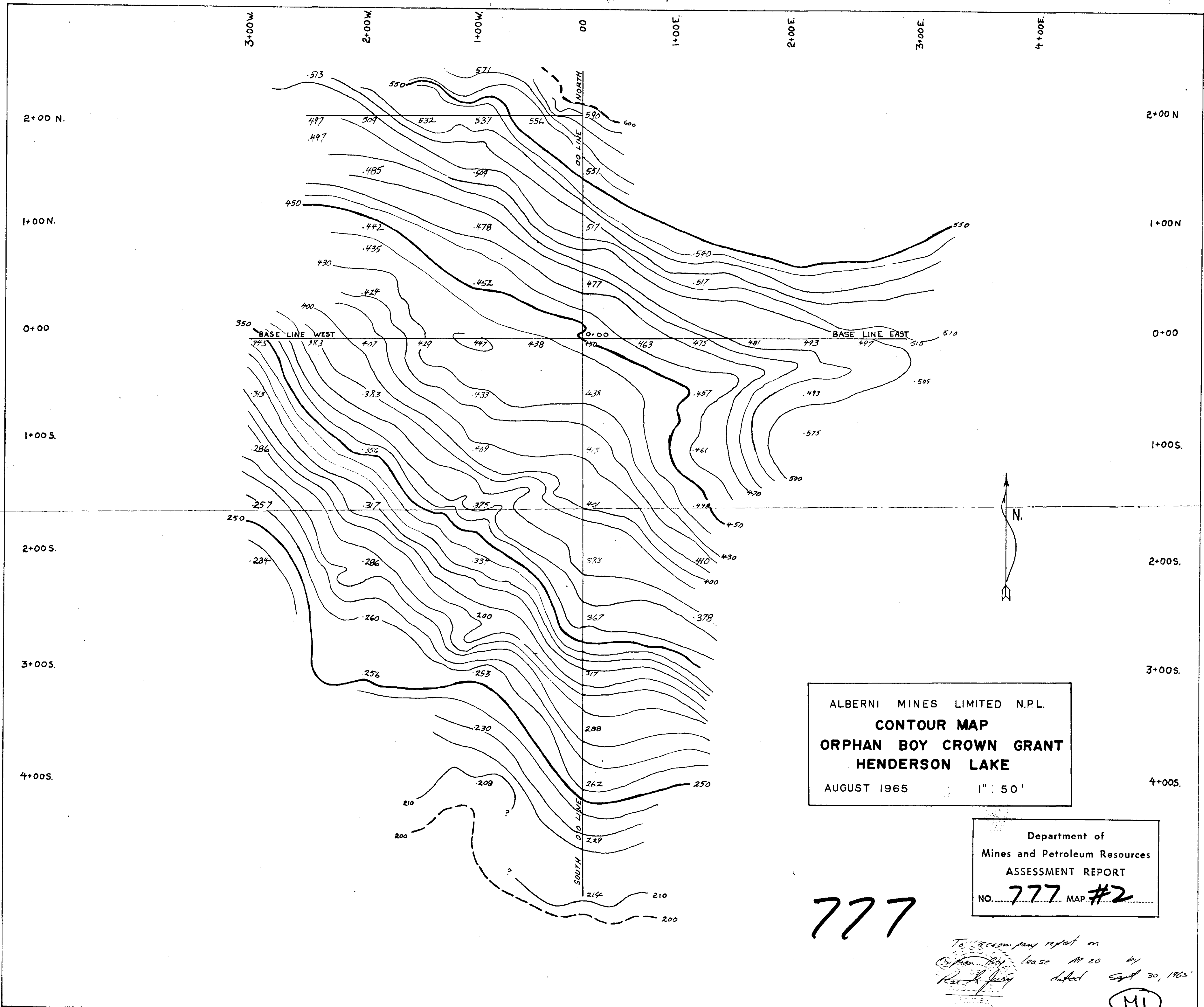
Magnetometer survey over the mineralized area shows irregular and small anomalies. This would indicate a small size to possible ore zones.

#### CONCLUSIONS AND RECOMMENDATIONS

Geological mapping and magnetometer survey both indicate little possibility of a large ore zone in the area tested. Should other claims being evaluated in the area prove a mining operation feasible it is recommended that the Orphan Boy prospects be tested by shallow diamond drill holes. Such drilling would serve to indicate copper content and size of the mineralization.

Respectfully Submitted,

  
R. Jury, P. Eng.



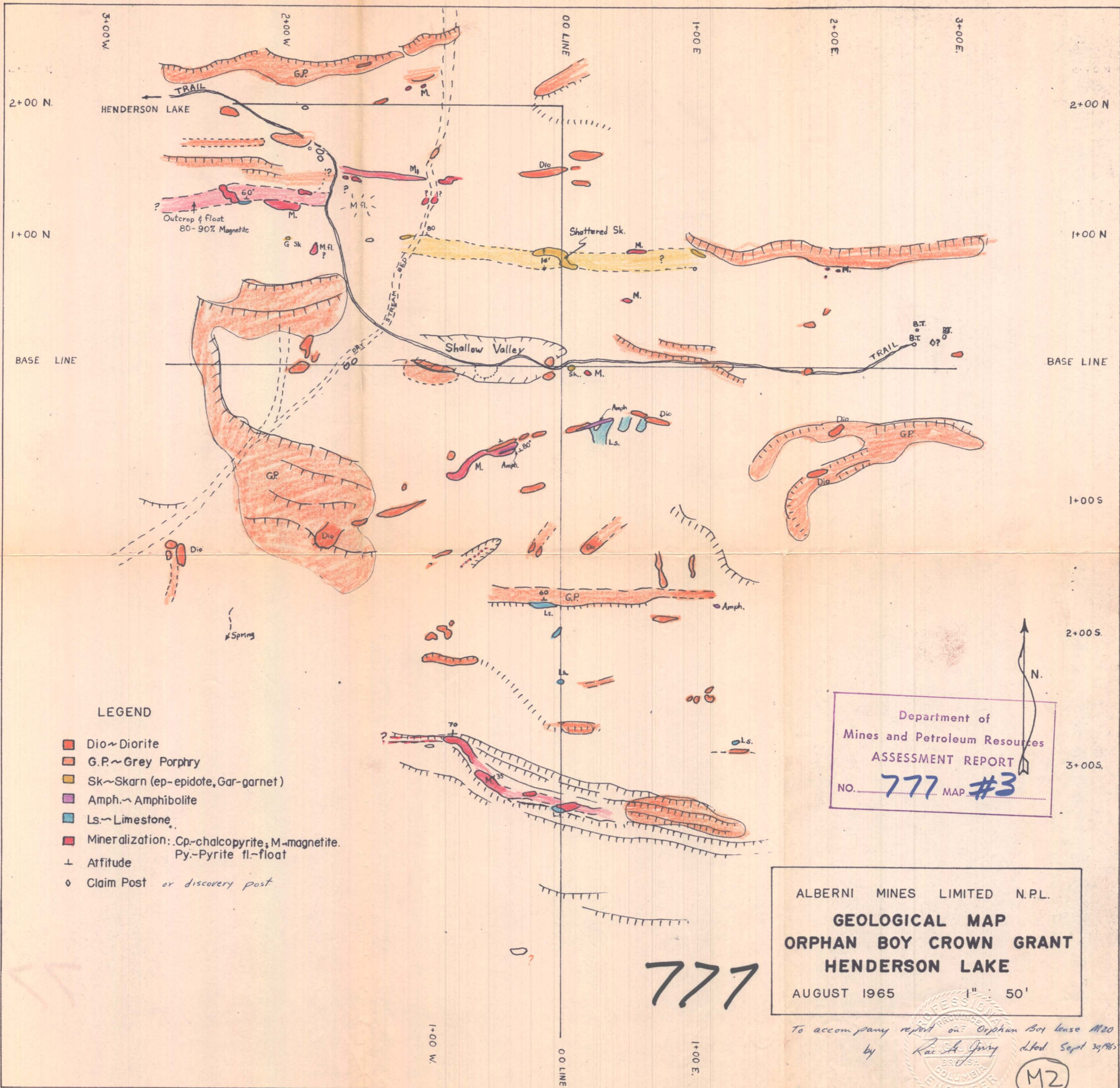
ALBERNI MINES LIMITED N.P.L.  
**CONTOUR MAP**  
**ORPHAN BOY CROWN GRANT**  
**HENDERSON LAKE**  
 AUGUST 1965 1" : 50'

Department of  
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 NO. **777** MAP **#2**

**777**

To accompany report on  
 Orphan Boy lease M 20 by  
 Peter A. Gray dated Sept 30, 1965

MI



LEGEND

- Dio ~ Diorite
- G.P. ~ Grey Porphyry
- Sk ~ Skarn (ep-epidote, Gar-garnet)
- Amph. ~ Amphibolite
- Ls. ~ Limestone
- Mineralization: Cp-chalcopyrite, M-magnetite, Py-Pyrite fl-float
- ⊥ Attitude
- ◇ Claim Post or discovery post

Department of  
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NO. **777** MAP **#3**

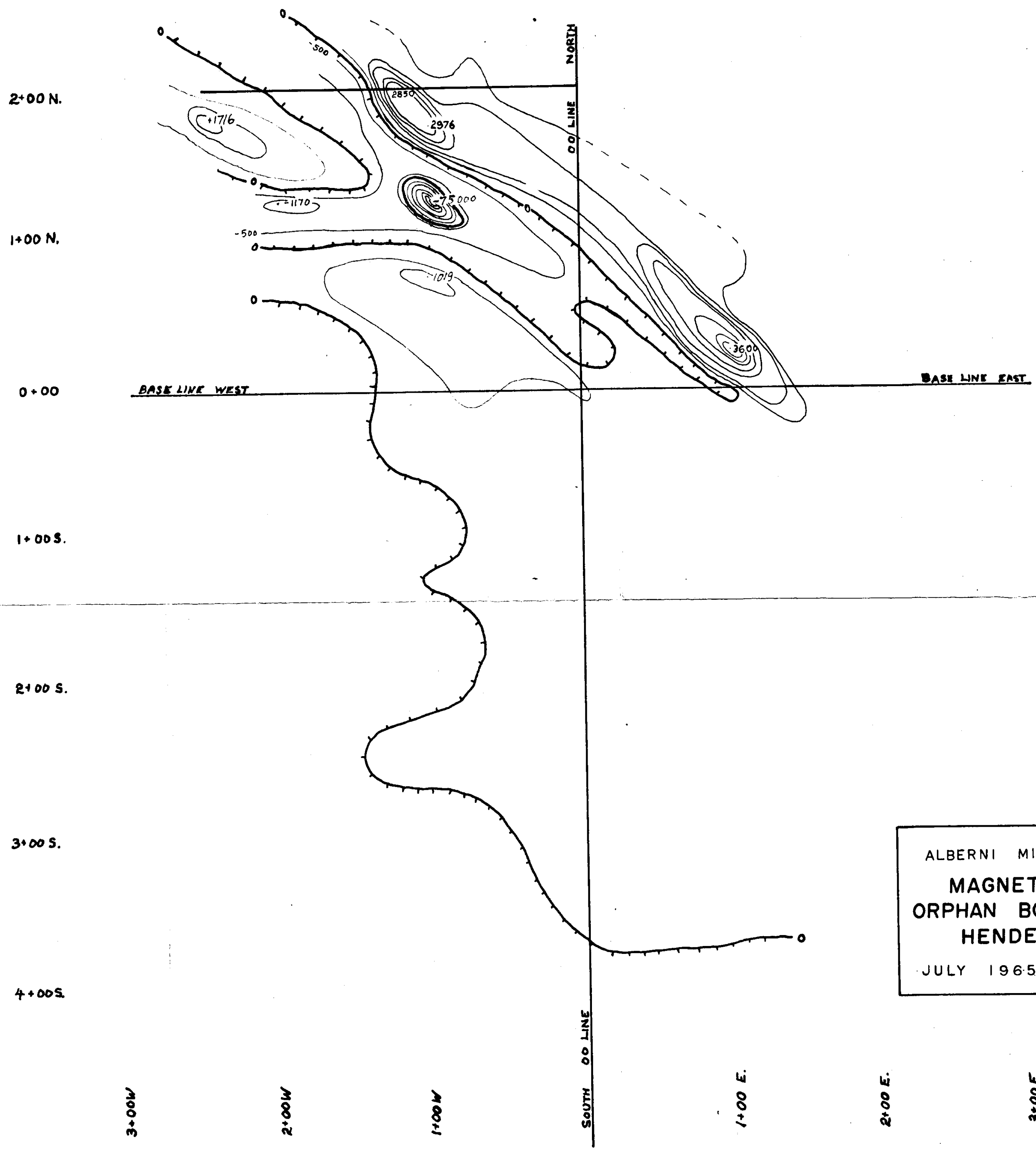
ALBERNI MINES LIMITED N.P.L.  
**GEOLOGICAL MAP**  
**ORPHAN BOY CROWN GRANT**  
**HENDERSON LAKE**  
AUGUST 1965 1" = 50'

To accompany report on Orphan Boy lease M20  
by *Rai A. Jary* dated Sept 30, 1965



M2





Department of  
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ASSESSMENT REPORT  
NO. 777 MAP #4

ALBERNI MINES LIMITED N.P.L.  
MAGNETOMETER MAP  
ORPHAN BOY CROWN GRANT  
HENDERSON LAKE  
JULY 1965 1" : 50'

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To accompany report on Orphan Boy lease M20  
by *Kae A. Jewry* dated Sept 20, 1965

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