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MICROFILMED

MILLER'S NICKEL PROSPECT

NORTH-WEST TASMANIA.

PROJECT PRP/7/100

by
H.E. JENSEN

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PLANS

<u>Plate No.</u>	<u>Description</u>	<u>Scale</u>
1	Locality and Geological Plan Miller's Nickel Prospect	1 mile to an inch
2	Plan of Underground Workings -- Miller's Nickel Prospect	40 ft. to an inch.

INTRODUCTION

On 7th May 1957, R.S. Matheson and H.E. Jensen inspected the workings on a nickel prospect which had been brought to the Company's notice by Mr. A. Miller, a prospector residing in Burnie.

The area under consideration is on the Company's Special Prospecting Licence No. 302, and is approximately 11 miles on a true bearing of 265° from Waratah (Plate 1). Access is by walking approximately one mile north of the main road, from Waratah to Corinna, through country sparsely timbered and in places covered with button grass. An adit to explore the country was started near the top of a hill which rises approximately 500 feet above the level of the main road.

GEOLOGY

The area examined is in a belt of Cambrian ultrabasic rocks trending in a north-easterly direction for a length of approximately 7 miles, over a width of approximately 3 miles. Within this belt are minor extrusions of basalt of Tertiary age (Plate 1)

UNDERGROUND WORKINGS

The exploratory adit which was obviously driven by a Company was examined with the exception of a heading which has collapsed at a co-ordinate position of 260 ft. north and 300 ft. east (Plate 2). Assuming that this heading continued for a further 75 feet, some 1000 ft. of work was completed. This work would yield approximately 1500 tons, and this quantity remains in the dump at the mouth of the adit. It can be assumed that no material was removed for treatment.

The work was wholly in an ultrabasic belt consisting of serpentines and talcose rocks.

Primary and secondary mineralisation was observed in weak discontinuous shear zones striking predominantly 315° and dipping steeply east. The mineralisation is sporadic occurring in bunches with no evidence of continuity of these bunches either laterally or vertically.

The primary mineralisation, presumably nickeliferous pyrrhotite, was observed in two places only in situ, these positions being indicated on the accompanying plan (Plate 2). No doubt other occurrences would be found by making a more thorough examination. The largest occurrence was 9 ft. long, 1 foot wide and 6 ft. high.

The secondary mineralisation occurs as encrustations along joints and shear planes, no large body being exposed. In places the secondary mineralisation is post mining.

The spoil on the dump contains odd stones showing primary and secondary mineralisation, and resembles the material in adit workings.

The high assay values quoted by A. Miller were results obtained from selected specimens, and not the values of representative samples of the mass.

CONCLUSIONS

The sporadic nature of sulphide and secondary mineralisation with no evidence of any well defined formation makes the occur-

ence unattractive to the Company.

The results disclosed by the work were obviously not encouraging as no stoping has been done, nor any exploration on dip undertaken.

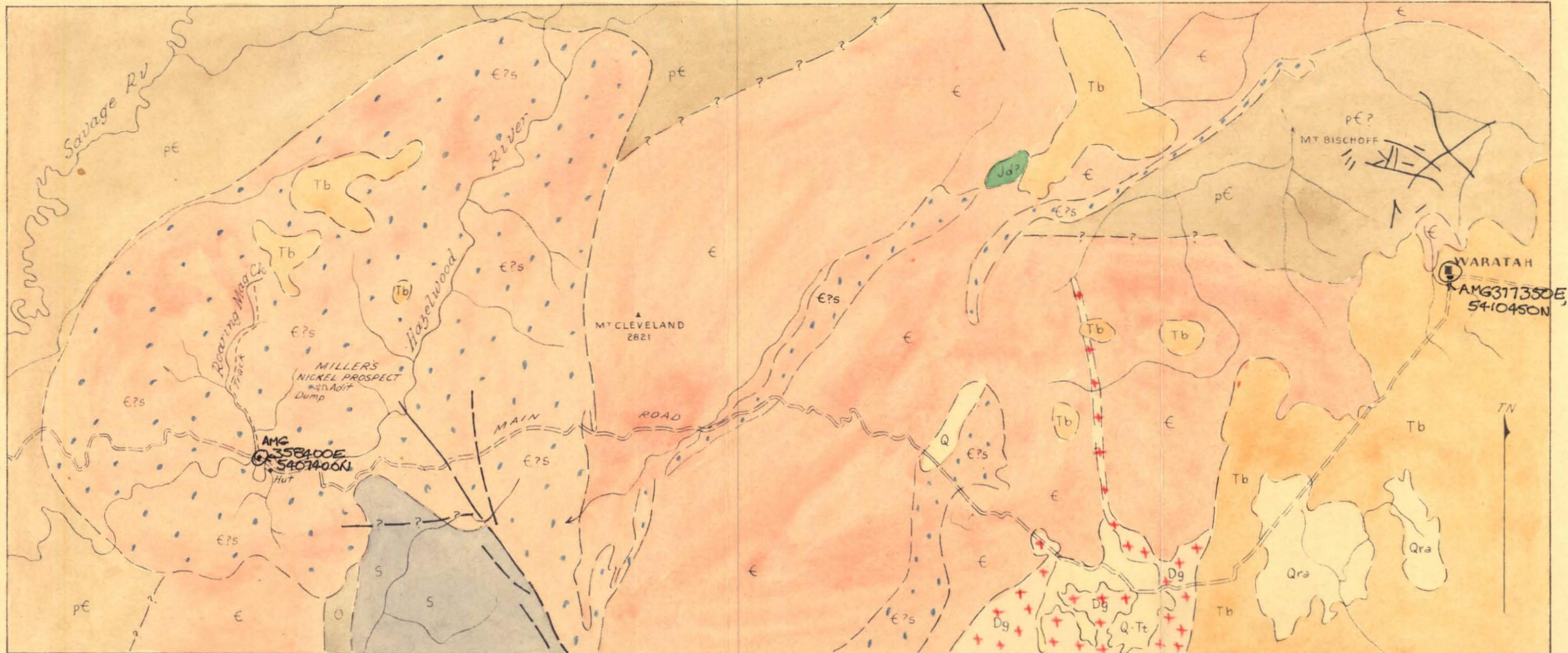
It is recommended that A. Miller be allowed to continue work on his own account.

H.E. Jensen
Senior Mining Geologist.

21st May. 1957

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REFERENCE

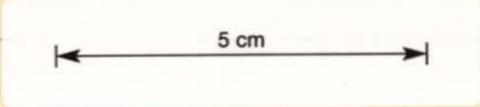
- | | |
|--|---|
| Qra Alluvial soils | Tb Tertiary-basalt |
| S Silurian-undifferentiated | Jd Jurassic-dolerite |
| O Ordovician | Dg Devonian-granite |
| E Cambrian | E?s Cambrian-ultrabasic intrusive complex |
| pE Pre-Cambrian-Qtzites, schists, & gneiss | --- Fault |

RIO TINTO AUSTRALIAN EXPLORATION PTY LIMITED

LOCALITY AND GEOLOGICAL PLAN
MILLER'S NICKEL PROSPECT
N.W. TASMANIA

Date May 1957	Scale 1 inch to 1 mile	PLATE 1
Geologist	Geophysicist	
Draftsman AJN	Authority PRP/7/100	

AMG REFERENCE POINTS ADDED



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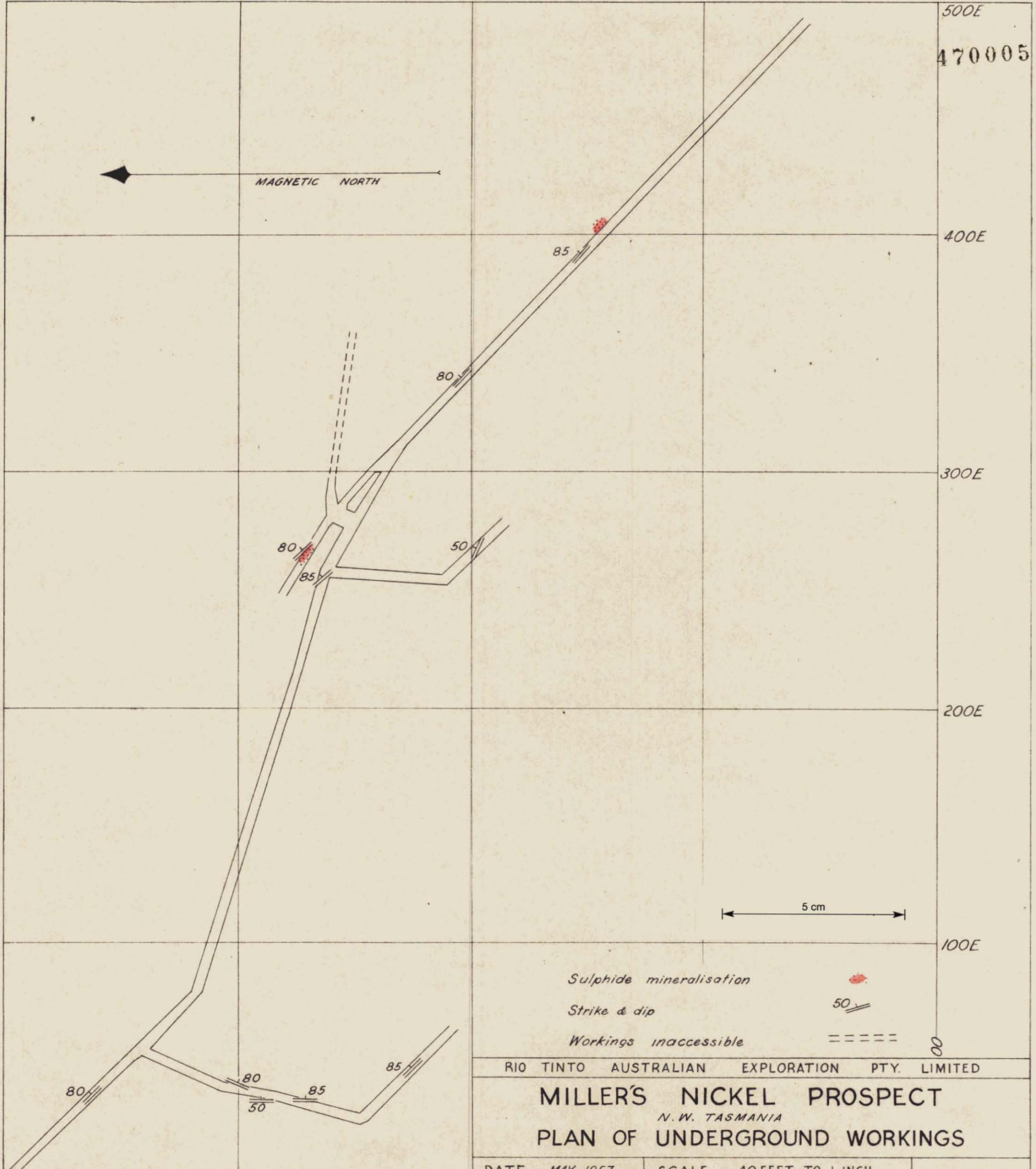
MAGNETIC NORTH

400E

300E

200E

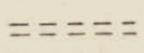
100E



Sulphide mineralisation

Strike & dip

Workings inaccessible



RIO TINTO AUSTRALIAN EXPLORATION PTY. LIMITED

MILLER'S NICKEL PROSPECT

N.W. TASMANIA

PLAN OF UNDERGROUND WORKINGS

DATE MAY, 1957

SCALE 40 FEET TO 1 INCH

Geologist

Geophysicist

Draftsman

J.L.P.

Authority

P.R.P./7/100

PLATE
2