



52G14SE0110 52G14SE0058A1 VALORA LAKE

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KEEVIL MINING GROUP LTD.  
PATRICIA MINING DIVISION, DISTRICT OF KENORA  
PIKE LAKE CLAIM GROUP

REPORT ON THE  
GEOPHYSICAL SURVEYS

REPORT NO. 20P

N.T.S. 52 J/13

SEPTEMBER 22, 1965

*R. W. Woolham* P. ENG.  
R. W. WOOLHAM



## SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The Pike lake claim group was staked to protect a small high grade copper showing located on claim PA33727. An area around the showing covering approximately six claims was explored by geophysical surveys.

Magnetic anomalies most probably caused by gabbro and associated magnetic rocks were outlined. No electromagnetic anomalies were located.

No further work on the claims is recommended.

### ACCOMPANYING MAPS

- (1) Dwg. 3016 - "Magnetic Survey"
- (2) Dwg. 3015 - "Vertical Loop E. M. Survey"

## INTRODUCTION

Keevil Mining Group Ltd. claims (Pike Lake Group) consists of 15 contiguous claims numbered PA33726 to PA33731 inclusive and PA34891 to PA34902 inclusive located in the Patricia Mining Division, district of Kenora. Claims PA33726 to PA33731 were recorded September 28, 1964 and claims PA34891 to PA34902 were recorded April 5, 1965. The claims were staked to protect a small high grade copper showing examined for us in 1960.

Exploration work consisting of a magnetometer and vertical loop electromagnetic survey was carried out using previous picket lines cut in 1960. The lines were reblazed and rechaind for the surveys. The surveys were done by Geophysical Engineering and Surveys Ltd. personnel, the operator being J. Martin, 23 Algonquin Blvd. E., Timmins, Ontario. The surveys were carried out during the period September 1, to September 15, 1965. Only the claims PA33726, PA33727, PA33728, PA33730, PA34901, and PA34902 are being submitted for assessment work credit.

All work was done under the direct supervision of the writer.

## LOCATION AND ACCESS

The claims are situated in the Kenora district northwestern Ontario approximately two miles southwest of the southwest end of Sturgeon Lake.

Access to Sturgeon Lake is by the Ignace-Savant Lake road or by float-equipped aircraft to Sturgeon Lake. The claims cross an abandoned railway spur which affords access from Sturgeon Lake to the property.

## DESCRIPTION OF SURVEYS

### Magnetometer Survey

The magnetometer survey was done with a Sharpe Fluxgate Model M. F. 1 magnetometer having a constant of 20 gammas per scale division. Readings were taken at 100-foot intervals along all the picket lines. Diurnal readings at 1 to 1½ hour intervals were taken on permanent base stations located on the base line at 4+00W, 12+00W, 20+00W, and 26+00W. The results were corrected, plotted, and contoured as shown on the accompanying map.

Approximately 390 readings were taken.

### Electromagnetic Survey

The electromagnetic survey was done with a Sharpe SE200 V. E. M. unit fitted with a special amplifier and batteries in order to increase the range to 500 feet. A reconnaissance survey of the lines was done using the parallel line method. In this method readings are taken at 100-foot intervals on every line with the transmitter located at the same station on an adjacent line. The transmitter-receiver interval thus is the line spacing or, in this case, 400 feet.

Any indicated crossovers were then checked by the fixed transmitter method. In this method, the transmitter is set up on the indicated crossover and readings taken at 50-foot intervals on the adjacent lines or line. In this way, the conductor is traced from line to line and accurately located within 25 feet on every line.

Approximately 380 stations were read.

## RESULTS OF SURVEYS

### Magnetometer Survey

Several magnetic anomalies were outlined in the survey area. Particularly high magnetic relief was encountered on line 30+00W, south of the base line (2000 to 7000 gammas above background). Outcrops of gabbro in the survey area suggest that most of the magnetic anomalies are caused by this rock. No significant magnetic anomaly is associated with the showing area.

### Electromagnetic Survey

The electromagnetic survey did not detect any conductors on the property. Detail set-ups were made in the showing area, however, no significant conductive zone was outlined.

## GEOLOGY

The claims area contains few outcrops, but, in general, appears to be underlain by basic volcanics, granite, diorite and gabbro.

The showing consists of a narrow shear zone in diorite heavily mineralized with massive veins, stringers, and patches of chalcopyrite. Some quartz is associated with the mineralization. Width of the shear zone is a maximum of 36 inches and it has been traced for several hundred feet.

## ASSESSMENT CREDITS

Assessment credits in the amount of 12.9 days for the magnetometer survey and 16.3 days for the electromagnetic survey were submitted on claims PA33726 to PA33730 inclusive, PA34901 and PA34902.

No other work is available.

YOUNG LAKE

STURGEON LAKE

Block B

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PA 34846	PA 34891	PA 33731	PA 33726 X	PA 34902 X	PA 34897
PA 34846	PA 34892	PA 33730 X	PA 33727 X	PA 34901 X	PA 34898
PA 34874	PA 34893	PA 33729	PA 33728 X	PA 34900	PA 34899



Scale 1/2 mile

Scale

1/2 mile

Abitibi Power and Paper Co Ltd

PATRICIA MINING DIVISION

KEEVIL MINING GROUP LTD.

PIKE LAKE CLAIM GROUP

September 1965

PROJECT 192



Assessment Work Breakdown

- 1. Type of Survey ..... Magnetometer
- 2. Township or Area ..... Sturgeon Lake Area
- 3. Mining claim numbers ..... PA 33726, PA 33727, PA 33728  
..... PA 33730, PA 34901, P. 34902
- 4. Number of miles of line cut .....
- \* 5. Type of instrument used ..... Sharpe fluxgate Model M.I.I. magnetometer
- \* 6. Scale constant or sensitivity 20 gammas per scale division
- \* 7. Number of stations established 390
- 8. Summary of days worked ( details on reverse side )
  - Total technical (include consultants, draughting etc.) 77 1/2
  - Total line-cutting .....
  - Total man-days ( technical plus line-cutting ) ..... 77 1/2
  - Assessment days credit per claim ..... 12.9

9. Dated September 21, 1965

Signed

*R. G. Zivolle*

\* Complete only if applicable

Complete list of names, addresses and dates on reverse side



Use for one type of survey only

Assessment Work Breakdown

1. Technical

<u>Type of Work</u>	<u>Name &amp; Address</u>	<u>Dates Worked</u>	<u>Hours</u>	<u>Days</u>
<b>Electromagnetic</b>	Electromagnetic	(September) (September)		
J. Martin, Timmins, Ontario -		September 8 - 12, 1965	48	42
J. Martin, Timmins, Ontario -		September 8 - 12, 1965	48	42
J. Rubie, Timmins, Ontario -		September 8 - 12, 1965	48	42
J. Rubie, Timmins, Ontario -		September 8 - 12, 1965	48	42
Totals			96	84

Consultants

<u>Name &amp; Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Hours</u>	<u>Days</u>
Totals			

Draughtsman, Typing, others (specify)

<u>Name &amp; Address</u>	<u>Type of Work</u>	<u>Dates Worked</u>	<u>Hours</u>	<u>Days</u>
R. W. Woolham, Timmins, Ontario -	Drafting	Sept. 18, 1965	4	3 1/2
R.W. Woolham, Timmins, Ontario -	Drafting	Sept 18, 1965	4	3 1/2
J. R. Newman, South Porcupine, Ont. -	Drafting	Sept. 20, 1965	4	3 1/2
J. R. Newman, South Porcupine, Ont. -	Drafting	Sept 20, 1965	4	3 1/2
R. W. Woolham, Timmins, Ontario -	Report	Sept. 21, 1965	4	3 1/2
R.W. Woolham, Timmins, Ontario -	Report	Sept 21, 1965	4	3 1/2
G. D. Dumouchel, Timmins, Ont. -	Typing	Sept. 21, 1965	4	3 1/2
G.D. Dumouchel, Timmins, Ont. -	Typing	Sept 21, 1965	4	3 1/2
Totals			16	14

2. Line-Cutting

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Hours</u>	<u>Days</u>
Totals				

Use for one type of survey only

Submit in duplicate

Assessment Work Breakdown

- 1. Type of Survey ..... Electromagnetic ..... Electromagnetic
- 2. Township or Area ..... Sturgeon Lake ..... Sturgeon Lake Area
- 3. Mining claim numbers. PA 33726, P 33727, PA 33728, PA 33730 ..... PA 33726, 33727,  
PA 34901, P 34902 ..... 33728, 33730,  
34901, 34902

- 4. Number of miles of line cut .....
- \* 5. Type of instrument used Sharpe S.E. 200 V.E.M. Unit
- \* 6. Scale constant or sensitivity Sharpe S.E. 200 V.E.M. Unit
- \* 7. Number of stations established ..... 380 380

- 8. Summary of days worked ( details on reverse side )
- Total technical (include consultants, draughting etc.) ..... 98 98
- Total line-cutting .....
- Total man-days ( technical plus line-cutting ) ..... 98 98
- Assessment days credit per claim ..... 16.3 16.3

9. Dated September 21, 1965 ..... Signed R. D. [Signature]  
September 21, 1965

\* Complete only if applicable ..... Complete list of names, addresses and dates on reverse side

SEE ACCOMPANYING  
MAP(S) IDENTIFIED AS

52G/14SE-0058-A1 # 1-2

LOCATED IN THE MAP  
CHANNEL IN THE  
FOLLOWING SEQUENCE

(X)

