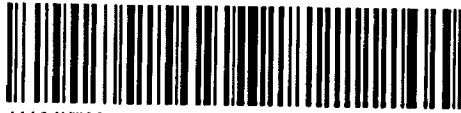


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KEEVIL MINING GROUP LTD.
FRANCQUE OPTION
HALLAM TOWNSHIP, ONTARIO

REPORT ON THE
GEOPHYSICAL SURVEYS

REPORT No. 83P

N.T.S. 41 I/4.

September 10, 1966

H. D. McLeod
H. D. McLeod P. Eng.



SUMMARY, CONCLUSIONS & RECOMMENDATIONS

The Francque option quartz breccia copper showing area was tested by magnetometer and self potential surveys.

The self potential survey outlined two anomalies whereas the other survey located nothing of interest.

One self potential anomaly outlines the mineralized breccia and indicates that it does not extend beyond the area of trenching and surface exposures. The second anomaly lies in an outcrop area with no indications of quartz or sulphides in the adjacent rock exposures.

No further work is recommended.

ACCOMPANYING MAPS

- | | | |
|-------------------|---|---------------------------|
| (1.) Drawing 3108 | - | "Self Potential Survey". |
| (2.) Drawing 3109 | - | "Mag and V.E.M. Surveys". |

INTRODUCTION

The Francque Option consists of twenty-one claims and five patented lots located in lots 5, 6, 7 and 8 concessions 2 and 3, Hallam Township, Sudbury Mining Division, Ontario. This report deals with that portion of geophysical surveys performed on claims S 129016, S 129017, S 129019, S 129194, S 129268, S 129269 and S 129709 comprising the NW $\frac{1}{4}$ N $\frac{1}{2}$ lot 7 concession II, the NE $\frac{1}{4}$ N $\frac{1}{2}$ lot 7 concession II, the SW $\frac{1}{4}$ N $\frac{1}{2}$ lot 7 concession II, the SW $\frac{1}{4}$ S $\frac{1}{2}$ lot 7 concession III, the SE $\frac{1}{4}$ S $\frac{1}{2}$ lot 8 concession III, the SW $\frac{1}{4}$ S $\frac{1}{2}$ lot 8 concession III respectively. The surveys also covered patented lots outside the boundaries of these claims. All work credits have been adjusted and no credits are claimed for this work.

The surveys were done by Geophysical Engineering and Surveys Limited personnel under the direct supervision of the writer. The self potential and part of the magnetometer surveys were done by J. Martin, North Bay, Ontario, the remainder of the magnetometer and electromagnetic surveys by A. MacDonnell, Timmins, Ontario.

The work was done during the period April 28 to May 28, 1966.

LOCATION & ACCESS

The claims are located in the south central part of Hallam Township, a distance of approximately ten miles to the southwest of Espanola, Ontario. Approximate co-ordinates are 46° 14' north, 81° 58' west.

Access is by good gravel roads west and south from Espanola.

GEOPHYSICAL SURVEYS

Line Cutting

A picket line grid was cut from two base lines. The first was established at S 62° E and lines were cut at 400-foot intervals north to the property boundaries and south a distance of approximately 2000 feet. Later an east-west base line was established using 9/00N on line 44/00 east as a starting point and a second grid of 400-foot spaced lines cut a distance of 1000 feet to the north and south.

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 with fill-in readings at 50-foot intervals in areas of high magnetic relief. Diurnal readings were taken at 1 to 1½ hour intervals on permanent base stations. The results were corrected, plotted and contoured as shown on the accompanying map.

Approximately 180 readings were taken on the claims dealt with in this report.

Self Potential Survey

The self potential survey was done with a Geophysical Engineering and Surveys self potential unit having a sensitivity of 1 millivolt per scale division. Readings were taken at 100-foot intervals along parts of the picket line system with fill-in readings at 50-foot intervals in areas of high potential relief. The readings were corrected, plotted and contoured as shown on the accompanying map.

Approximately 150 readings were taken on the claims dealt with in this report.

RESULTS OF SURVEYS

Magnetometer Survey

One anomaly only was located within the claims. This is an oval-shaped high lying on claim S 129017 and striking approximately N 70° W. This coincides with a diabase dike outcrop. The remainder of the claims area is featured by low magnetic relief.

Self Potential Survey

Two anomalies were located, one within the claims and the other on patented land a short distance to the north. One lies over the copper-showing. This is an oval-shaped high with a length of 600 feet and having a maximum intensity of 220 millivolts above background.

The second is an irregular high with maximum intensity of 350 millivolts above background lying to the northeast of the above anomaly. This anomaly lies in an area of outcrop, the peak being in a small narrow draw next to unmineralized quartzite.

GEOLOGY

The claims are underlain by gently dipping grey to pink arkoses of Huronian age. Strikes are approximately east-west and dips 10° to 20° to the south. One diabase dike strikes N 60° W across the area.

The showing consists of a wide vertically-dipping quartz-carbonate breccia zone that contains erratically distributed chalcoppyrite mineralization. This zone is the cause of one self potential anomaly.

ASSESSMENT WORK BREAKDOWN

1. Type of Survey **Magnetometer**
2. Township or Area **Hallam Township**
3. Numbers of Mining Claims Traversed by Survey **S 129016, S 129017, S 129019,**
S 129194, S 129268, S 129269, S 129709.



900

4. Number of Miles of Line Cut **4 1/2** Flown
- *5. Number of Stations Established **180**
- *6. Make and type of Instrument Used **Sharpe Fluxgate Model M.F.-1 magnetometer,**
- *7. Scale Constant or Sensitivity **20 gammas per scale division.**
- *8. Frequency Used and Power Output

9. Summary of Assessment Credits (details on reverse side)

Total 8 hour Technical Days (Include Consultants, Draughting etc.) **13**

Total 8 hour Line-Cutting Days **28**

Calculation

$$\frac{13}{\text{Technical}} \times 7 = \frac{91}{\text{Line-cutting}} + \frac{28}{\text{Line-cutting}} = \frac{119}{\text{Line-cutting}} \div \frac{7}{\text{Number of claims}} = \frac{17}{\text{Assessment credits per claim}}$$

The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check
 If otherwise, please explain

Dated: **September 10, 1966**

Signed: *N. D. M. Lead*

- Note: (A) * Complete only if applicable.
 (B) Complete list of names, addresses and dates on reverse side.
 (C) Submit separate breakdown for each type of survey.
 (D) Submit in duplicate.

ASSESSMENT WORK BREAKDOWN

1. FIELD WORK

<u>Type of Work</u>	<u>Name & Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
<u>Magnetometer Survey</u>			
	J. Martin, North Bay, Ontario	May 12 -13, 1966	2
	A. Ominika, Timmins, Ontario	May 12 -13, 1966 May 23 -24, 1966	4
	A. MacDonnell, Timmins, Ontario	May 23 -24, 1966	2

2. CONSULTANTS

<u>Name & Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Number of 8 hour days</u>
H. D. McLeod, Timmins, Ont.	-Field Supervision-May 31, June 1/66	2
	-Report -August 19, 1966	1

3. DRAUGHTSMAN, TYPING, OTHERS (specify)

<u>Name & Address</u>	<u>Type of Work</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
W. Caughell, Timmins, Ontario	- Drafting	- June 6 - 7, 1966	1 1/2
G. Laviolette, Timmins, Ontario	- Typing	- August 20, 1966	1

TOTAL 8 HOUR TECHNICAL DAYS 13

4. LINE-CUTTING

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
R. Hopson,	Noranda, P. Q.	April 28 - May 7, 1966	9
J. Flett,	Timmins, Ontario	April 28 - May 7, 1966	9
N. Neveau,	Timmins, Ontario	April 28 - May 7, 1966	10

TOTAL 8 HOUR LINE-CUTTING DAYS 28

ASSESSMENT WORK BREAKDOWN

- 1. Type of Survey ----- **Self Potential** -----
- 2. Township or Area ----- **Hallam Township** -----
- 3. Numbers of Mining Claims Traversed by Survey **S 129016, S 129017, S 129194,** -----

- 4. Number of Miles of Line Cut ----- **4** ----- Flown -----
- *5. Number of Stations Established ----- **150** -----
- *6. Make and type of Instrument Used ----- **G. E. & S. L. S.P. Unit.** -----
- *7. Scale Constant or Sensitivity -----
- *8. Frequency Used and Power Output -----

9. Summary of Assessment Credits (details on reverse side)

Total 8 hour Technical Days (Include Consultants, Draughting etc.) ----- **12**

Total 8 hour Line-Cutting Days -----

Calculation

$$\frac{12}{\text{Technical}} \times 7 = \frac{84}{\text{Line-cutting}} + \frac{84}{\text{Line-cutting}} \div \frac{3}{\text{Number of claims}} = \frac{28}{\text{Assessment credits per claim}}$$

The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check
If otherwise, please explain -----

Dated: **September 10, 1966** ----- Signed: *J. O. M. Lead* -----

- Note:
- (A) * Complete only if applicable.
 - (B) Complete list of names, addresses and dates on reverse side.
 - (C) Submit separate breakdown for each type of survey.
 - (D) Submit in duplicate.

ASSESSMENT WORK BREAKDOWN

1. FIELD WORK

<u>Type of Work</u>	<u>Name & Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
<u>Self Potential</u>			
	J. Martin, North Bay, Ontario	- May 7 - 11, 1966	4
	A. Ominika, Timmins, Ontario	- May 7 - 11, 1966	4

2. CONSULTANTS

<u>Name & Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Number of 8 hour days</u>
H. D. McLeod, Timmins, Ont.	-Field Supervision-May 16-17, 1966	2
	-Office Planning -April 25, 1966	1

3. DRAUGHTSMAN, TYPING, OTHERS (specify)

<u>Name & Address</u>	<u>Type of Work</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
W. Caughell, Timmins, Ontario	- Drafting	- June 7 - 8, 1966	1

TOTAL 8 HOUR TECHNICAL DAYS 12

4. LINE-CUTTING

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>

TOTAL 8 HOUR LINE-CUTTING DAYS _____



ONTARIO
DEPARTMENT OF MINES
Mining Lands Branch

PARLIAMENT BUILDINGS
TORONTO 2, ONTARIO

File 63.2019

THE MINING ACT

Assessment Work Credits

Name: KEEVIL MINING GROUP LIMITED

Township or Area: HALLAM TWP.

Number of Assessment work days per claim

Geophysical 17 Magnetometer

Geological n11

Mining Claims: S 129016
S 129017
S 129019
S 129194
S 129268
S 129269
S 129709



ONTARIO
DEPARTMENT OF MINES
Mining Lands Branch

PARLIAMENT BUILDINGS
TORONTO 2, ONTARIO

File 63.2019

THE MINING ACT

Assessment Work Credits

Name: KEEVIL MINING GROUP LIMITED

Township or Area: HALLAM TWP.

Number of Assessment work days per claim

Geophysical 28 Self Potential

Geological nil

Mining Claims: S 129016

S 129017

S 129194

OFFICE OF MINING RECORDER



ONTARIO
DEPARTMENT OF MINES

63,2019

341

SUDBURY MINING DIVISION
SUDBURY, ONTARIO

Sept. 15/66

Mr. R. V. Scott,
Director, Mining Lands Branch,
Parliament Buildings,
Toronto, Ontario.

Dear Sir:

We wish to advise that we have placed on Record, 45 days credit
Geophysical survey on each of claims S.129016-17, and 129194;

On claims S.129268-9, S.129709, 129019, 17 days Geophysical survey, claims
situated in Hallam Twp.

J. M. Franque, recorded holder,

Yours very truly,

K. M. Hallock
Mining Recorder

/jm





ONTARIO
DEPARTMENT OF MINES
Mining Lands Branch

File: 63.2019

PARLIAMENT BUILDINGS
TORONTO 2, ONTARIO

January 5th 1967

Dear Sir:

Subject: Geophysical and Geological Surveys

The assessment work credits as shown on the attached list have been approved as of the above date. Please inform the recorded holder and so indicate on your records.

Yours truly,

PW:smm

R. V. Scott,
Director.

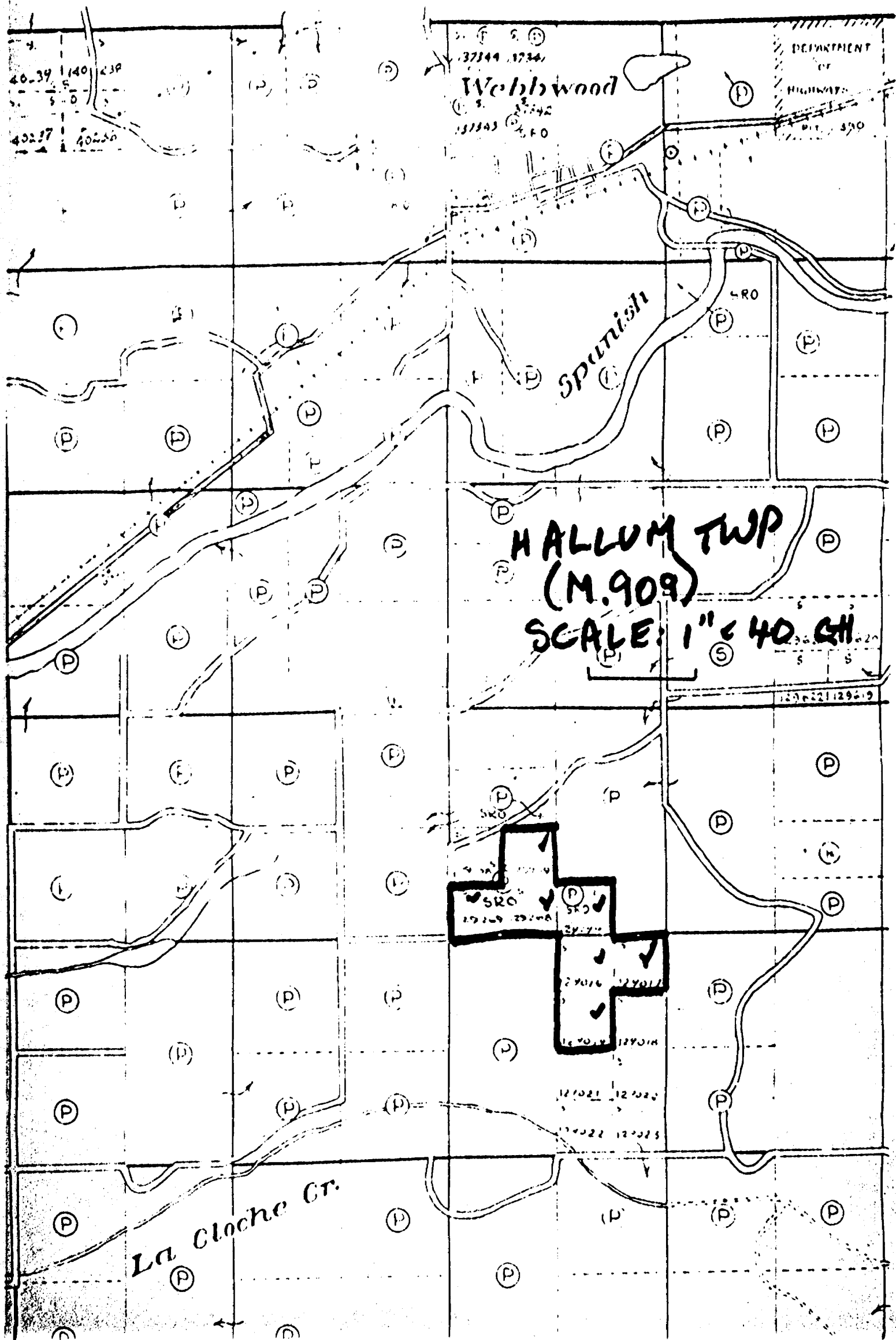
cc

Dr. J. F. Donovan

Keevil Mining Group
Limited

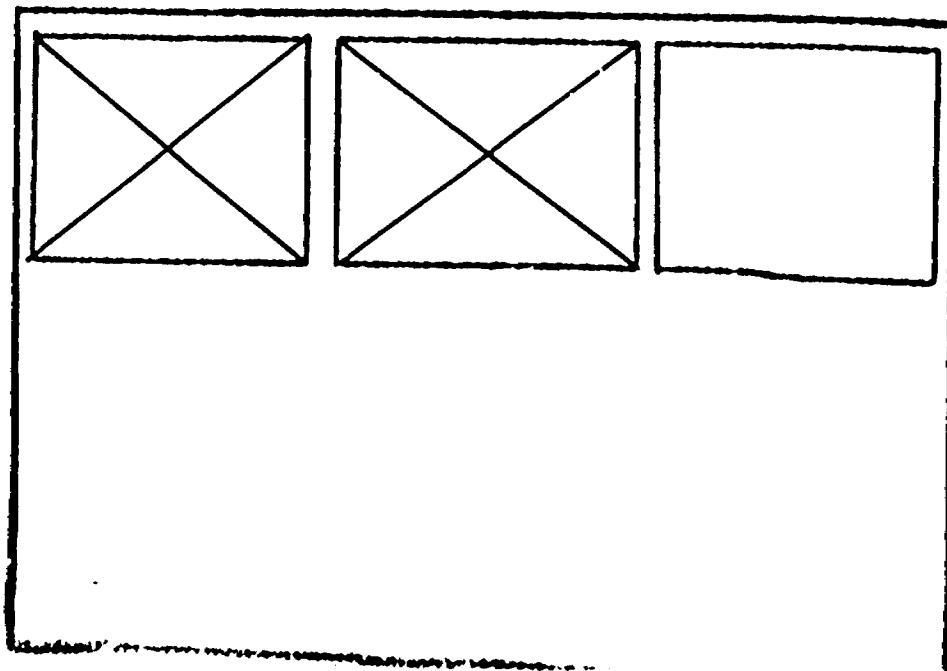
Mr. K. M. Hallock,
Mining Recorder,
Sudbury, Ontario.

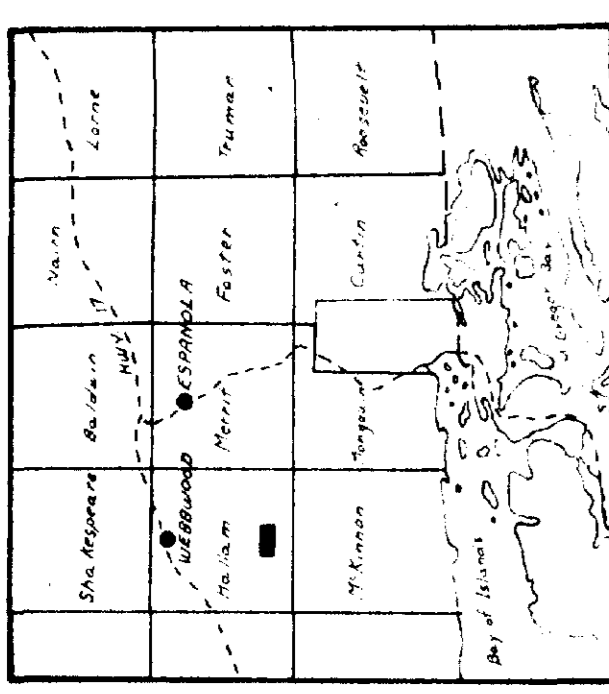
SHAKE SPEARE TWP.



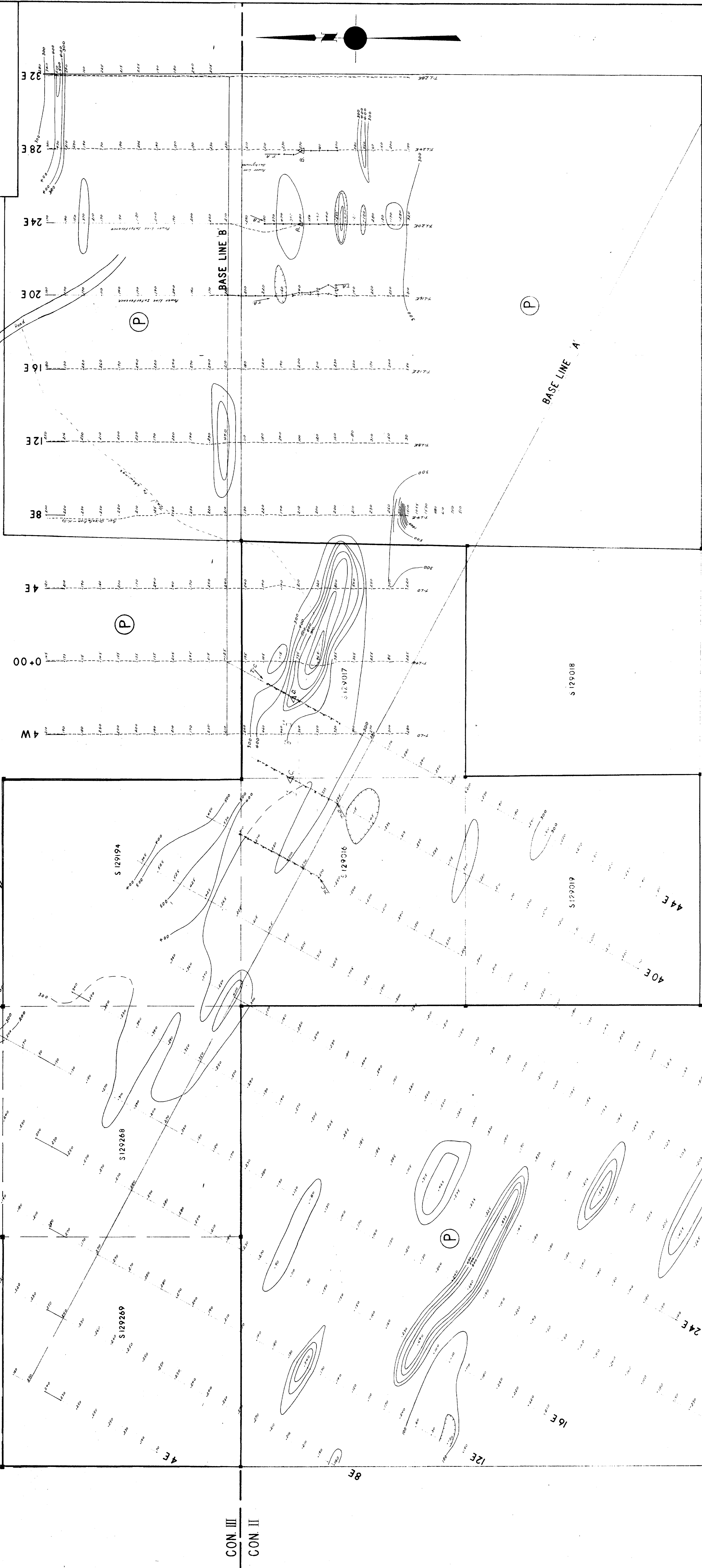
SEE ACCOMPANYING
MAP(S) IDENTIFIED AS
HALLAM-0013-A1, #1, #2

LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)





LOCATION MAP
FRANQUE OPTION
SCALE: 1" = 8 MILES



ASSESSMENT CREDITS CLAIMED IN THIS AREA ONLY

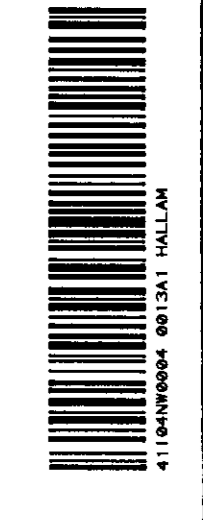
MAG & VEM. SURVEYS
FRANQUE OPTION
TOWNSHIP OF HALLAM
PROVINCE OF ONTARIO
FOR
KEEVIL MINING GROUP LTD
BY
GEOPHYSICAL ENGINEERING AND SURVEYS LTD
H. D. INGLETON
Scale: 1 inch = 200 feet
DWG 3108

LOT 7 LOT 6

LEGEND

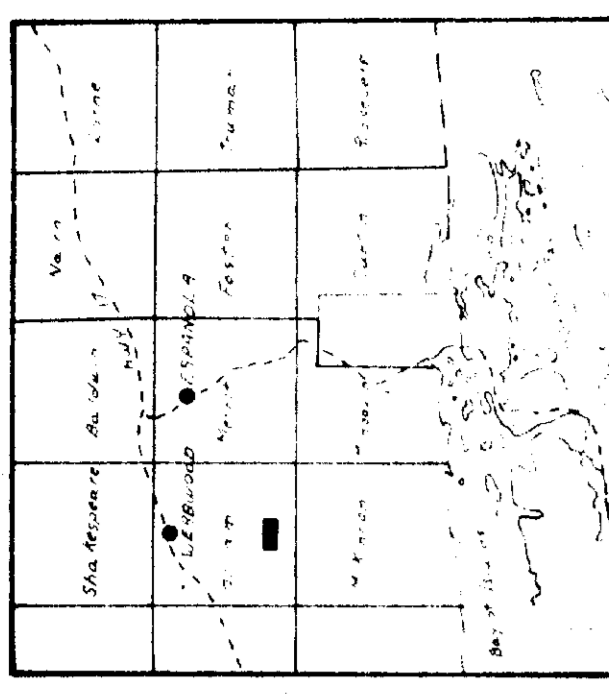
LOT 8 LOT 7

LOT 9 LOT 8

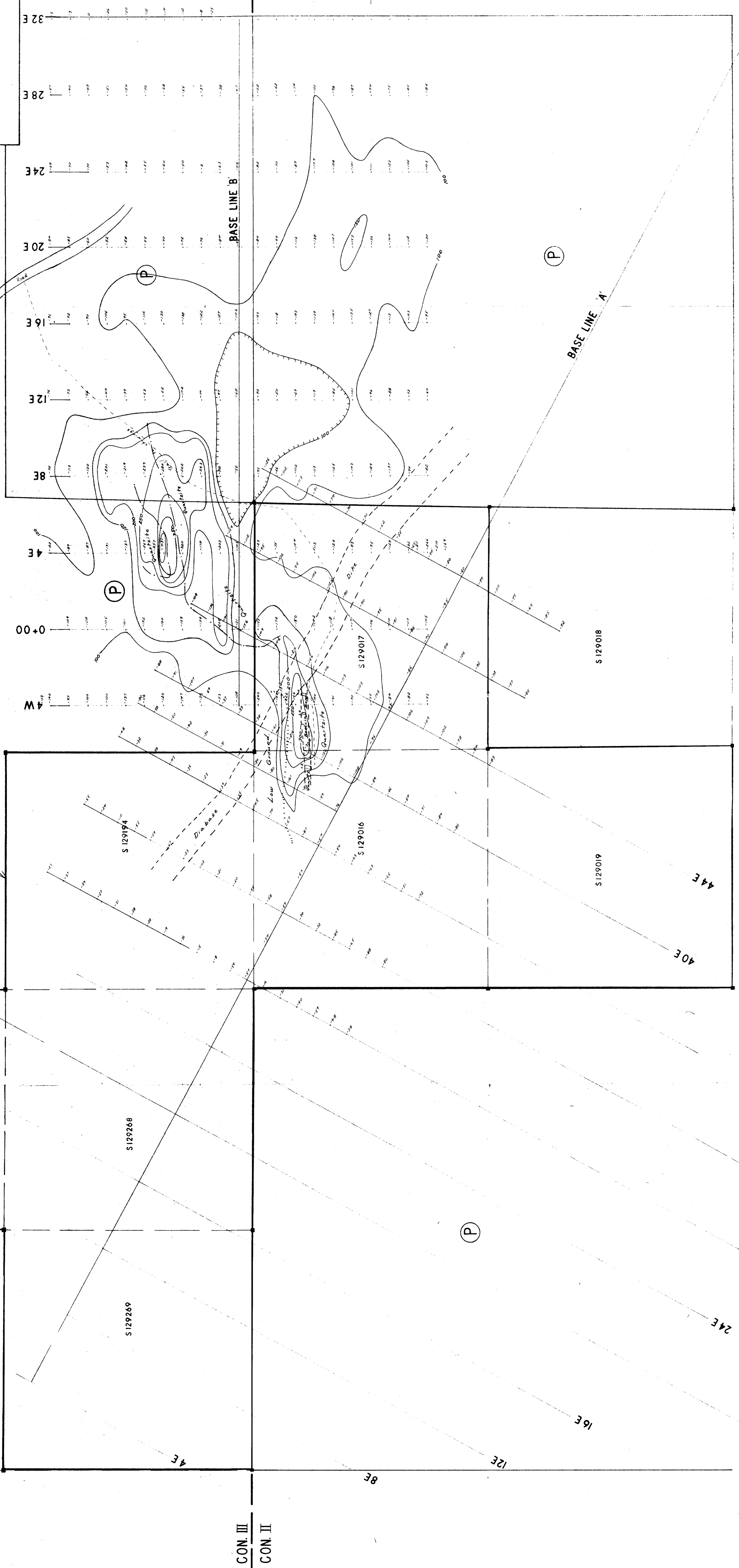


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HALLAM-0013-A1#1



LOCATION MAP
FRANQUE OPTION
SCALE: 1" = 8 MILES



ASSESSMENT CRENDS CLAMER FOR
WATER DRAINAGE ONLY IN THIS
AREA

SELF-POTENTIAL SURVEY
FRANQUE OPTION
TOWNSHIP OF HALLAM
PROVINCE OF ONTARIO
FOR
KEEVIL MINING GROUP LTD

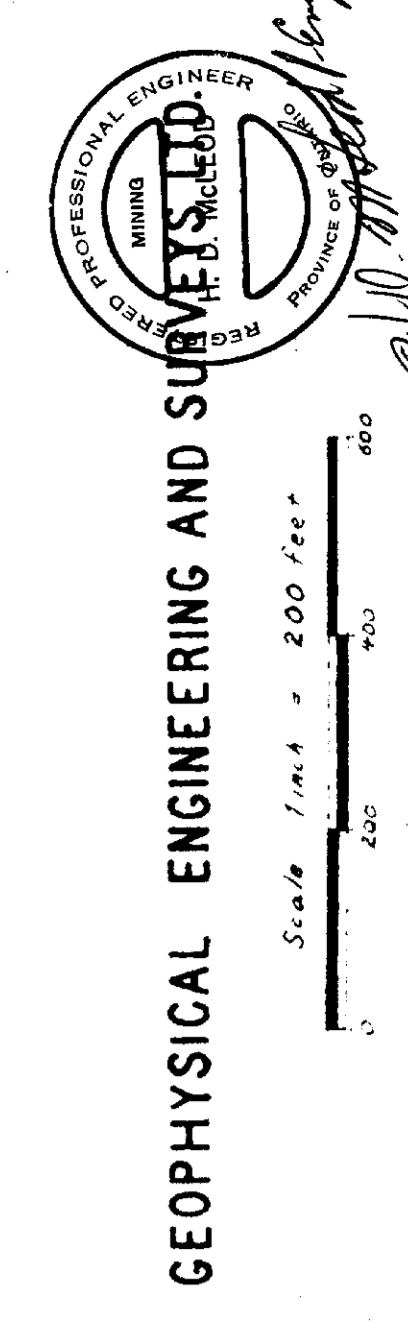
LEGEND

- Contour Lines
- Base Line A
- Base Line B
- Assessment Crenes
- Water Drainage

LOT 7 LOT 6

LOT 8 LOT 7

LOT 9 LOT 8



GEOPHYSICAL ENGINEERING AND SURVEYING LTD.
Scale 1 inch = 200 feet
DATE: 1994
DWG. 3109



HALLAM-0013-A1 #2