



52J07NE0049 52J07NE0038A1 GREBE LAKE

010

63-2036

GEOPHYSICAL REPORT ON
KASHAWEOGAMA LAKE CLAIMS

1966

Introduction

This report has been prepared for geophysical assessment work credit on seven Ontario mining claims; Nos. Pa 33317, Pa 33318, Pa 33319, Pa 33320, Pa 33321, Pa 33325, Pa 33326. These claims are located directly south of Kashaueogama Lake, Ontario. They are held by Pershland Gold Mines, Ltd., 122 Manville Rd., Scarboro, Ontario; Mr. H. G. Phillips, President. The field work was done during the period August 4 to August 7, 1965. The drafting was done from August 16 to August 18, 1965.

Location and Access

The claims are within the Patricia Mining Division. They are located 16 miles north of the town of Savant Lake, Ontario, approximately 2½ miles west of the highway connecting Savant Lake and Pickle Crow.

The claims are accessible by a trail from the highway or by boat from Wiggle Creek, which is crossed by the highway.

Previous Work

This deposit was first examined by Mr. W. H. Collins in 1906. Since then it has been examined a number of times as evidenced by numerous trenches and test pits of varying ages. These workings are indicated on the accompanying map. Mr. E. S. Moore has written two reports on the area for the Ontario Department of Minns.^{1,2}

In 1957, Sharpe Geophysical Surveys, Ltd. conducted a magnetometer survey across this area. Readings were taken at 100-foot intervals along lines spaced 400 feet apart.

Eight diamond drill holes are located on the accompanying maps, although only five are recorded, along the eastern extension of the iron formation. These five holes totalled 3,002 feet. Hole #3 was stopped in surface after drilling 45 feet.

Present Work

This geophysical survey was conducted in conjunction with a geologic mapping program. The purpose of the magnetometer survey was to obtain more detailed control in a likely area for future drilling. This detailed work enables a closer correlation between the magnetics and the outcrops observed.

This survey was conducted using a Sharpe MF-1 fluxgate magnetometer. The sensitivities used varied from 20 gammas to 20,000 gammas per scale division. Readings were made at 25-foot intervals along lines spaced 100 feet apart. A total of 984 readings were made and five miles of line were cut.

The work was done by Mr. Ed Van Eeckhout, who is a student majoring in geology at the University of Minnesota, under the direction of F. D. Effinger

Results Obtained and Conclusions

This survey precisely delineated the iron formation in an area largely covered by surface material. It is our conclusion that additional testwork and drilling will be required to determine the economic potential of this deposit.

References:

1. Ontario Department of Mines, Vol. XIX, Part I, 1910, E.S. Moore.
2. Ontario Department of Mines, Vol. XXXVII, Part IV, 1928, E.S. Moore.

F. D. Effinger
F. D. Effinger

CERTIFICATE OF QUALIFICATION

I, Frederick D. Effinger, of Cleveland, Ohio, hereby certify:

1. That I am a graduate of the University of Wisconsin and hold a Bachelor of Science degree in Geology.
2. That I have been practicing my profession as a geologist since 1956.
3. That the accompanying report is based on personal supervision of the exploration work carried out on the property.

Dated at Cleveland, Ohio
this 6th day of October, 1966


F. D. Effinger
Geologist

FDE:jab



52J07NE0049 52J07NE0038A1 GREBE LAKE

020

GEOLOGICAL REPORT ON
KASHAWEOGAMA LAKE CLAIMS

Introduction

This report has been prepared for geological assessment work credit on 20 Ontario mining claims; Nos. Pa 33308, Pa 33309, Pa 33311, Pa 33312, Pa 33313, Pa 33314, Pa 33315, Pa 33316, Pa 33317, Pa 33318, Pa 33319, Pa 33320, Pa 33321, Pa 33322, Pa 33323, Pa 33325, Pa 33326, Pa 33333, Pa 33334, Pa 33335. These claims are located directly south of Kashaweogama Lake, Ontario. They are held by Pershland Gold Mines, Ltd., 122 Manville Rd., Scarboro, Ontario; Mr. H. G. Phillips, President. The field work was done during the period July 11 to July 27, 1965. The drafting was done from August 16 to August 27, 1965.

Location and Access

The claims are within the Patricia Mining Division. They are located 16 miles north of the town of Savant Lake, Ontario, approximately $2\frac{1}{2}$ miles west of the highway connecting Savant Lake and Pickle Crow.

The claims are accessible by a trail from the highway or by boat from Wiggle Creek, which is crossed by the highway.

Previous Work

This deposit was first examined by Mr. W. H. Collins in 1906. Since then it has been examined a number of times as evidenced by numerous trenches and test pits of varying ages. These workings are indicated on the accompanying map. Mr. E. S. Moore has written two reports on the area for the Ontario Department of Mines.^{1,2}

In 1957, Sharpe Geophysical Surveys, Ltd. conducted a magnetometer survey across this area. Readings were taken at 100-foot intervals along lines spaced 400 feet apart.

Eight diamond drill holes are located on the accompanying maps, although only five are recorded, along the eastern extension of the iron formation. These five holes totalled 3,002 feet. Hole #3 was stopped in surface after drilling 45 feet.

Present work

The purpose of this mapping was to determine the relative proportions of iron formation and waste rock occurring throughout the deposit, as well as to map the outcrops to better control future development work such as drilling and sampling. It is for this reason that the accompanying maps indicate the relative percentages of iron formation in each outcrop.

We have also superimposed the earlier Sharpe magnetometer survey on this map. In this way it is possible to better determine the significance of the magnetics in the surface-covered areas.

We have also conducted a more detailed magnetometer survey over a portion of the iron formation in order to have more control for a possible future drilling program.

This magnetic survey was conducted using a Sharpe MF-1 flux-gate magnetometer. Readings were taken at 25-foot intervals along lines spaced 100 feet apart.

Geology

The following is a list of formations found in this area:

Pleistocene: Drift

Pre Cambrian

Keeweenawan: Diabase

Lower Huronian: Conglomerate, arkose, graywacke and quartzite.

Laurentian: Granite and gneiss

Keewatin: Banded iron formation, graywacke, and fine-grained gray gneiss, rhyolites, quartz porphyries, tuffs, greenstones and green schists.

The accompanying maps cover only the immediate vicinity of the iron formation and the adjacent graywackes and conglomerates.

The iron formation occurs within the graywackes and conglomerates.

The iron formation consists of even-banded or irregularly-layered magnetite, red jasper, chert and iron silicates. These minerals generally show the effects of recrystallization.

The iron formation is interlayered in varying degrees with a typical graywacke. This rock is generally light to dark gray in color, and becomes phyllitic in places.

Occasional barren, milky quartz veins and stringers cross the iron formation and graywacke.

A conglomerate is found along the north shore of Lake Kashawegama. This conglomerate consists of pebbles and boulders of numerous rock types, but principally granite and gneiss with a graywacke matrix.

This mapping encountered a conglomerate which had not been mapped previously. This conglomerate is noted adjacent to the south edge of the iron formation on sheet #1. This conglomerate consists chiefly of granite pebbles and boulders within a graywacke matrix. Although a detailed study has not been made, the similarity between the two conglo-

merates may indicate that the overall structure of the area is a syncline with the iron formation tightly folded near its center.

Conclusions

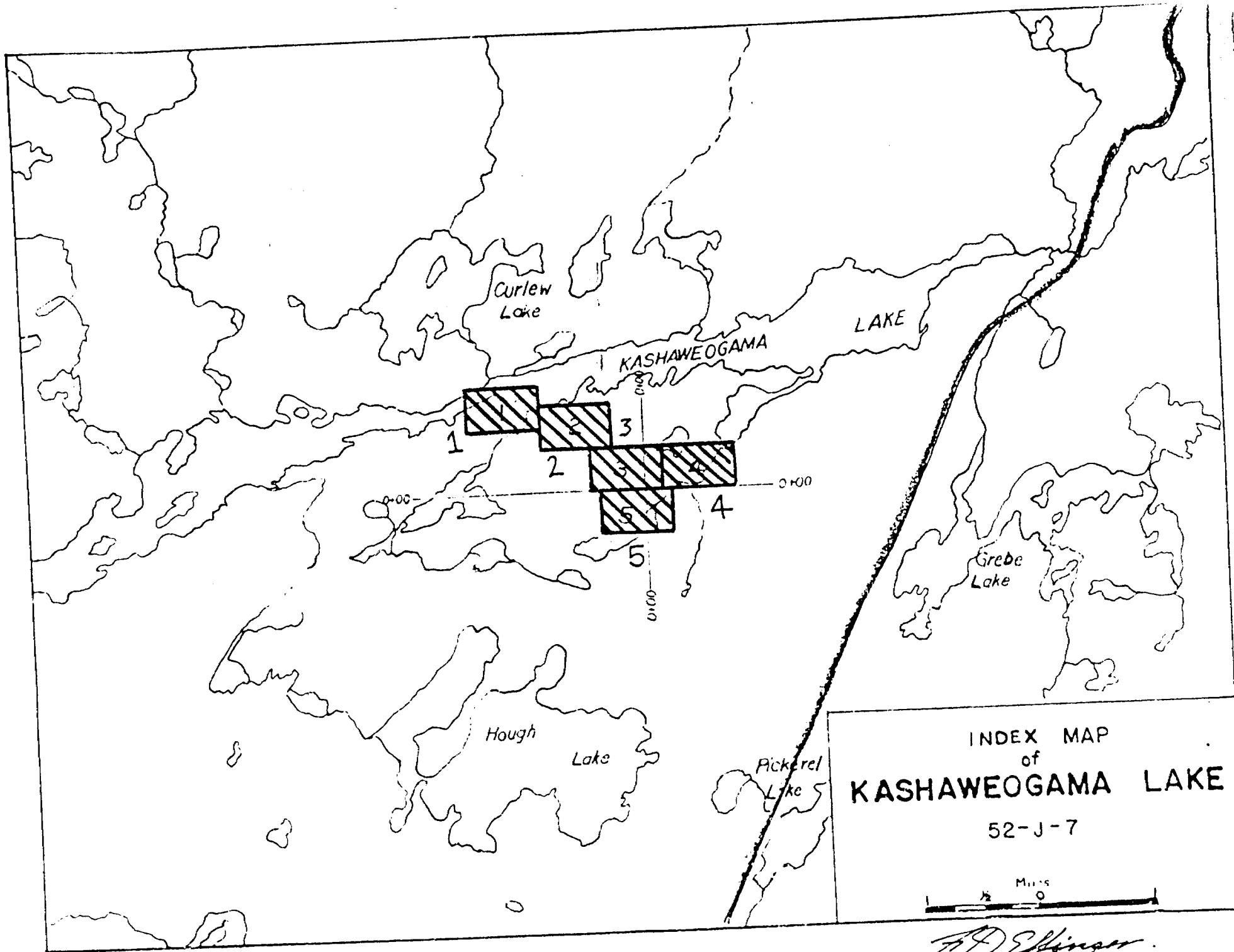
It is our conclusion that additional drilling and test work will be required in order to determine the economic potential of this deposit.


F. D. Effinger

FDE:jab

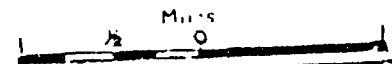
References:

1. Ontario Department of Mines, Vol. XIX, Part 1, 1910, E. S. Moore.
2. Ontario Department of Mines, Vol. XXXVII, Part IV, 1928, E. S. Moore.



INDEX MAP
of
KASHAWEOGAMA LAKE

52-J-7



A.D. Effinger

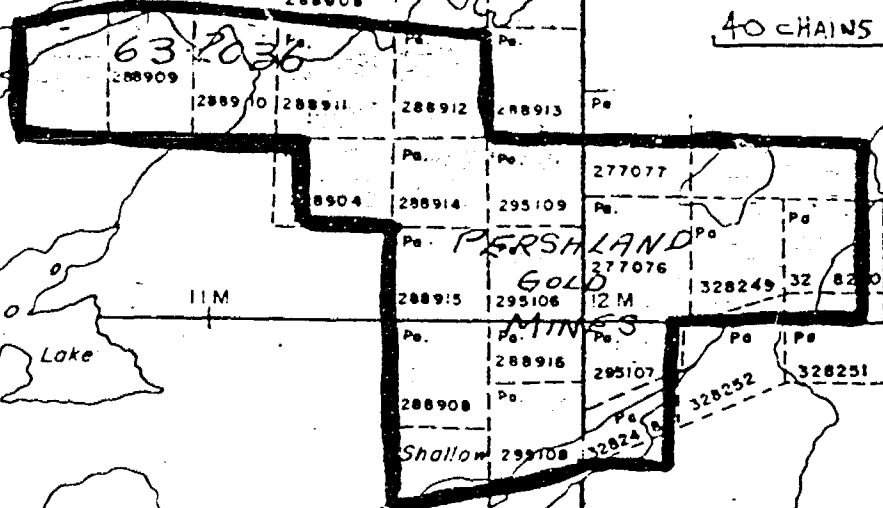


52J07NE0049 52J07NE0038A1 GREBE LAKE

900

52J/07NE AREA OF GREBE LAKE
M-1804

SCALE: ONE INCH = 40 CHAINS
40 CHAINS



CONANT TWP.
FOR STATUS REFER TO TOWNSHIP PLAN
(M.1682)

Evans Lake - M.1774

26'
25'
24'
23'
30''

90°45' 44' 43' 42' 41' 40' 39' 38' 37' 36' 35'

ASSESSMENT WORK BREAKDOWN

1. Type of Survey Geophysical

2. Township or Area Savant Lake (Kashawecogama Lake)

3. Numbers of Mining Claims Traversed by Survey

..... 33317, 33318, 33319, 33320, 33321, 33325, 33326

X 4. Number of Miles of Line Cut 5 Flown

X *5. Number of Stations Established 984

X *6. Make and type of Instrument Used Sharpe MF-1 Fluxgate Magnetometer

X *7. Scale Constant or Sensitivity 200 to 20000 γ per scale division ^{FS=10 μ a}

X *8. Frequency Used and Power Output ?

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

Total 8 hour Technical Days (Include Consultants, Draughting etc.) 2

Total 8 hour Line-Cutting Days 16 $\frac{1}{2}$

Calculation

$$\frac{9}{\text{Technical}} \times 7 = \frac{63}{\text{Line-cutting}} + \frac{16\frac{1}{2}}{\text{Line-cutting}} = \frac{79\frac{1}{2}}{\text{Number of claims}} \div \frac{7}{\text{Number of claims}} = \frac{11}{\text{Assessment credits per claim}}$$

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: July 6, 1966

Signed: F.D. Effinger

- 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>
Magnetometer Operator	Ed Van Eeckhout	Aug. 4-7, 1965	6
	Geol. Dept.		
	Univ. of Minnesota		

2. CONSULTANTS

<u>Name & Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Number of 8 hour days</u>

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>
Ed Van Eeckhout	Drafting Map	Aug. 16-18, 1965	3

TOTAL 8 HOUR TECHNICAL DAYS _____

4. LINE-CUTTING

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
Dick Hollingsworth	Savant Lake, Ont.	July 30- Aug. 1, 1965	4½
Carmen Allen,	Sioux Lookout, Ont.	July 30- Aug. 1, 1965	1½

TOTAL 8 HOUR LINE-CUTTING DAYS 16½

SEE ACCOMPANYING

MAP(S) IDENTIFIED AS

52J/07NE-0038-A1 # 1

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

