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Report on the
 Geological and Geophysical Surveys
 of the Property of the Woodford
 Syndicate, Lytle Township,
 Red Lake Area, Ontario.

Submitted to the Corporation.

The cliffs comprising this group are almost completely covered with a fairly heavy mantle of clay and boulders. The only rock exposures of any consequence are located at the extreme north end of the property.

The combined geophysical and geological surveys were made to obtain as much information as possible concerning rock types, contacts and structural features.

The only outcrop observed was fairly massive, coarse-grained diorite. The location of the outcrop is shown on the accompanying Fig. 10, 10-11. A narrow shear was observed in the northeastern corner of Claim No. 100-20988.

The combined surveys indicate that the property is underlain by two types of rock. The higher than normal readings in the northern and the northern portions of the property are interpreted as representing a diorite, and the lower than normal readings in the central portion of the property are probably the result of the infiltration of lava. There are no rock outcrops observable in the low country area to verify this interpretation, however.

Two maps, Nos. 50-7 and 50-11, drawn to a scale of 1" = 200 feet accompany this report.

Map No. 50-7 shows the magnetic readings in gauss at each station where an observation was made, and our interpretation of the magnetic results, based on a correlation of the magnetic lines and the geological data.

Map No. 50-11 shows the location and nature of the rock outcrops observed.

TOPOGRAPHY

The Woodford group is generally low, with little relief. The plains are almost completely covered with a fairly heavy mantle of clay and boulders.

Rock outcrops occur in only a few places, mainly in the northern portion of the property.

GENERAL GEOLOGY

The only bedrock exposed on the property is a rather coarse-grained diorite, which is fairly massive. The observed outcrops occur in the northern end and in the southern parts of the property. These diorite outcrops correspond to normal or higher than normal magnetic readings.

No outcrops were observed in the central portion of the diorite group. Here the magnetic readings are, almost without exception, lower than normal. It is our interpretation that this portion of the property is underlain by layers of low magnetic susceptibility.

It is recommended that future exploration of the Woodford property be concentrated on the areas between the high and low magnetic areas, as these areas probably represent contacts between granite and Tewan.

FIELD WORK

Field work for the magnetic survey was started on April 18th, 1950 and completed on May 5th, 1950. This work was done by F. B. Dunn and helpers.

The geological field work was done from June 3rd, 1950, to June 5th, 1950, by R. McIntosh and helpers.

LOCATION AND ACCESSIBILITY

The Woodford Syndicate group of claims, Nos. F.R.D. 20176 and P.C.L. 20987-20993 inclusive, is located on the north shore of Keg Lake, which is readily accessible from the settlement of Keg Lake by boat or plane. The property lies approximately 8 miles east of Keg Lake.

LINE SURVEY

An east-west base line was established near the southern boundary of the group. North-south picket lines were put in at 300 foot intervals, extending from the base line to the northern and southern limits of the property. These lines were chained and picketed at 100 foot intervals.

A total of approximately 10.4 miles of lines was cut and chained, including approximately .7 miles of base line, and approximately 9.7 miles of picket lines.

PREVIOUS WORK

A small amount of trenching and stripping has been done on the Woodford claims. Most of these trenches have caved in and were full of water at the time these surveys were made.

GENERAL GEOLOGY

To date no economic deposits of ore have been found in the immediate vicinity of the Woodford claims. Some gold values were obtained on the property of Virginia Red Lake Gold Mines, Ltd., which adjoins the Woodford claims on the northwest, in surface trenching and diamond drilling. Geological conditions on the Virginia Red Lake Gold Mines property are similar to those on the Woodford group.

No extensive work has been done on the Woodford or on the surrounding properties, with the exception of Virginia Red Lake.

GEOGRAPHICAL SURVEY

GENERAL

The instrument used for the magnetic survey was a Schmidt type magnetometer set to a sensitivity of 17.2 gauss per scale division. Base stations were established, and corrections were made for diurnal variation, temperature changes, and possible changes in the center of gravity of the instrument due to shock. With the above corrections applied to the field readings, the magnetic values at each station stand in absolute relation to one another as though all the readings had been taken simultaneously. A total of 490 readings were taken.

INTERPRETATIONS

Our interpretation of the magnetic readings is shown on Map No. 50-7. The normal vertical magnetic intensity of the rocks on the Woodford property was assumed to be between 100 and 300 gauss. Areas above 300 gauss are coloured blue and areas below 100 gauss are coloured yellow. Deeper shades of blue and yellow indicate greater departures of the magnetic values from the normal readings.

The normal and higher than normal readings in the northern and southern portions of the property are interpreted as representing diorite. This is borne out in cases where outcrops were observed in that readings directly over diorite outcrops were in most cases over 200 gauss.

The central portion of the property, where the magnetic readings are in most cases below 100 gauss, is probably underlain by lava, which in this area are of lower magnetic susceptibility than diorite.

RECOMMENDATIONS

No pronounced structural features were indicated by the geological or geophysical survey. The most favourable exploration possibilities on the property appear to be along the indicated contacts between rocks of different magnetic susceptibilities. It is unlikely that trenching would be an efficient means of exploring these areas, due to the overburden, leaving diamond drilling as the most logical way of doing such exploration.

It is our recommendation that future exploration of the property should consist of diamond drilling to explore the zones north and south of the lower than normal magnetic areas which lies in the central portion of the property and initially to comprise exploratory drilling only of an informational nature. Such drilling would be necessary to determine if favourable conditions lie at or near the contact for gold deposition.

Respectfully submitted,

YOUNG, YOUNG & GROSS, LIMITED,

W. N. Young

Per: V. B. Gross, P. Eng.

Toronto, Ontario,
June 10th, 1950,
Incor. 1 Page Nos. 50-7 and 50-11.

The following statement, which is certified to be correct by the undersigned, is to form an appendix to the Report on the Geophysical and Geological Surveys of the Property of the Bradford Syndicate, Hyde Township, Red Lake, Ontario, by Young, Young & Gross, Limited, dated June 30th, 1950.

1. Name of Firm	Young, Young & Gross, Limited
2. Dates of Field Work	Geophysical - Apr. 28-May 5, 1950 Geological - June 3-5th, 1950
3. Type of Instrument, and Scale Constant	One Beh 361-type Magnetometer 27.2 gamma per cent division
4. Total number of Stations established	490
5. Length of miles of Line cut	10.7
6. Tapes	50-7 and 50-21, submitted
7. Report	June 30th, 1950, submitted
8. Breakdown of man-days employed	
(i) Geophysical	
(a) Line-cutters	
John Herdick	• Apr. 28-May 5 • 28 days x 1 72
Wm. Colverdy	• Apr. 28-May 5 • 28 days x 1 72
(b) Instrument Operator	
Fred S. Dunn	• Apr. 28-May 5 • 28 days x 1 72
(ii) Geological	
(c) Field Work	
I. McIntosh	• June 3-5 • 3 days x 4 12
John Herdick	• June 3-5 • 3 days x 4 12

(cont'd)

(c) Office

(a) Drafting		
E. Holt	3 days x 4	12
John S. Ross	2 days x 4	8
(b) Consultants (report, etc.)	5 days x 4	20

TOTAL OF MAN-DAYS 280

YOUNG, YOUNG & GROSS, LIMITED,

W. N. Gross

For W. N. Gross,
Professional Engineer.

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LEGEND

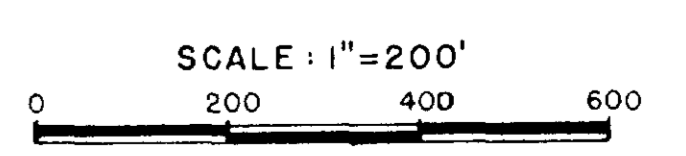
D DIORITE

R TRENCH-ROCK EXPOSED

C TRENCH-CAVED

**GEOLOGICAL SURVEY
WOODFORD CLAIMS**

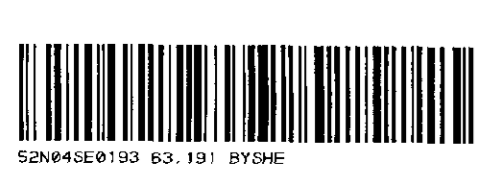
**BYSHE TWP.
RED LAKE DISTRICT, ONTARIO**



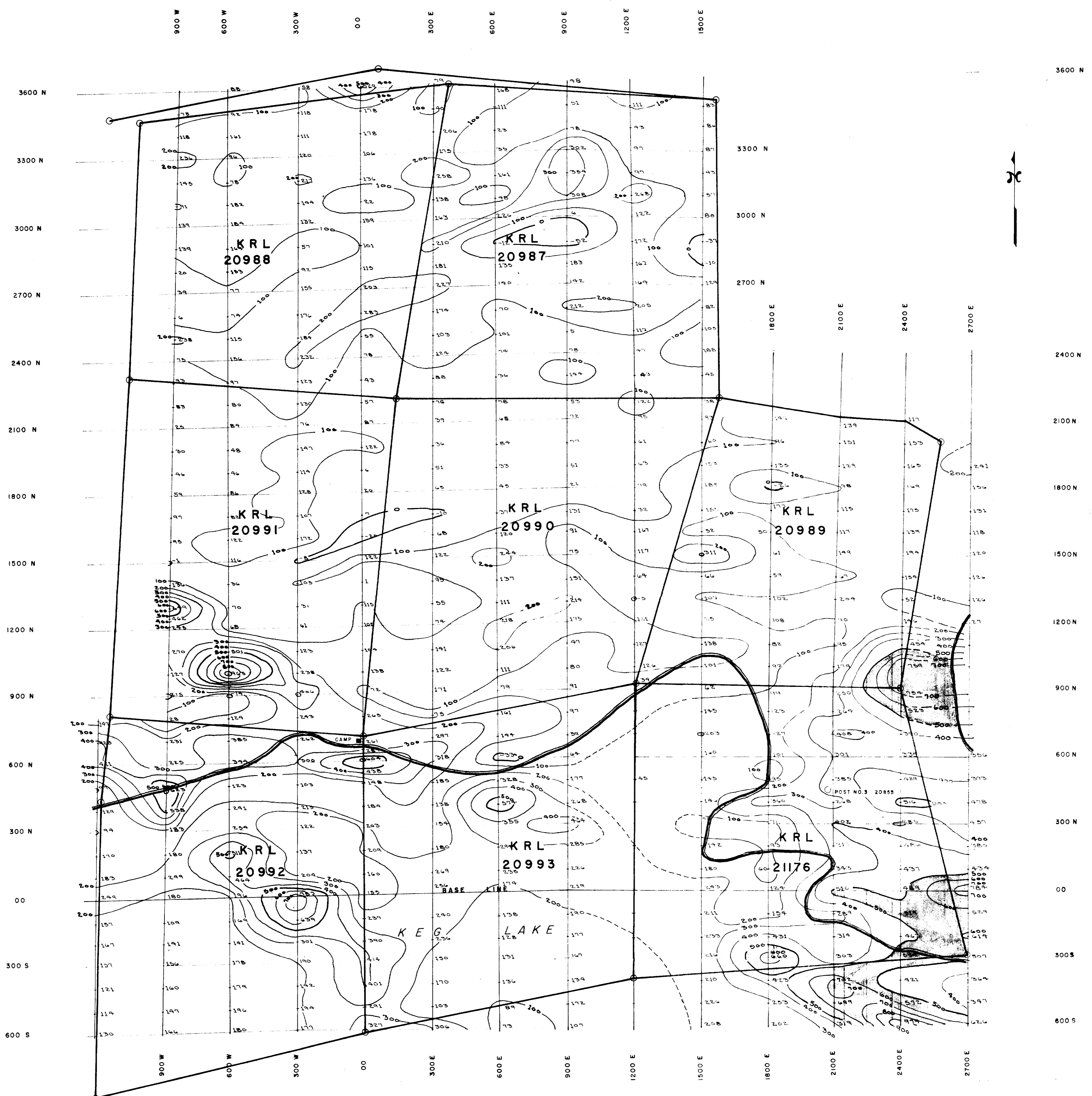
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MAP-50-II

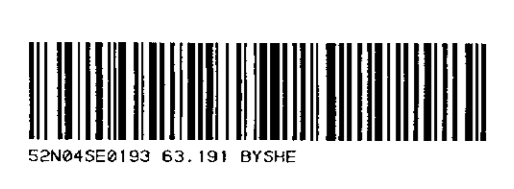


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LEGEND
 ISO-MAGNETIC LINES —100—
 ASSUMED ISO-MAGNETIC LINES - - -200- - -
 MAGNETIC INTENSITY IN GAMMAS γ
 [] HIGHER THAN NORMAL INTENSITY
 [] NORMAL INTENSITY
 [] LOWER THAN NORMAL INTENSITY

WOODFORD CLAIMS
MAGNETOMETER SURVEY
 BYSHE TWP.
 RED LAKE DISTRICT, ONTARIO
 SCALE: 1"=200'
 0 200 400 600
 JUNE 1/50
 63.191
 YOUNG, YOUNG & GROSS MAP-50-7



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