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MINING LANDS SECTION

REPORT ON

GEOLOGICAL SURVEY

GAUTHIER TOWNSHIP, ONTARIO

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Robert A. MacGregor, P. Eng.

July 17, 1981.



I. INTRODUTION

Linecutting, followed by a geological survey was carried out on 11 claims in Gauthier township from April to June, 1981.

II. LOCATION ACCESS AND OWNERSHIP

The property is located in the central part of Gauthier township just north of the south boundary, Larder Lake Mining Division, District of Temiskaming, Ontario. The claims are numbered L544734 to 544738 inclusive and L565101 to 565106 inclusive. They are recorded in the name of R.A. MacGregor, 134 Palace Drive, Sault Ste. Marie, Ontario.

Highway 66, a paved highway passes through the northeast corner of the claims. A bush road passable to 4 wheel
drive vehicles extends south from the highway near the
east side of the claims. The claims are about 6 miles west
of Larder Lake and 12 miles east of Kirkland Lake, both on
Highway 66.

111. PREVIOUS EXPLORATION

There are a few old pits and trenches on parts of the claims, and evidence of trenching to reach bedrock in the drift covered areas which cover most of the claims.

Previous operators are also reported to have put down a number of diamond drill holes.

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IV. TOPOGRAPHY

Nearly all of the property is covered by Pleistocene sand, gravel or swamp. There are two low hills on which there is some outcrop located. In the sandy areas which cover a large part of the property, forest cover consists of jackpine, spruce and some poplar and labrador tea. The swampy areas are covered with black spruce, alder, willow and some poplar. A stream runs through the east part of the claims, and is flooded for its entire length by a series of beaver ponds.

V. MAPPING PROCEDURE

A grid of picket lines were cut for the geological survey. A base line was cut south 45° east from the north boundary. Crosslines were cut every 400 feet north-east and south-west from the baseline. Two short baselines were cut from the most northerly and southerly crosslines to reach small angles in the claims. The picket lines were chained and picketed every 100 feet. The pickets were marked with fluorescent red paint for easier observation. Trial lines were run east and west from the picket lines by pace and compass in search of poorly exposed outcrop. All outcrops found were noted in a field book as to rock type and distance from picket lines. This information was then plotted on a 1" = 400' scale plan.

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VI GENERAL GEOLOGY

The general geology of Gauthier township has been described by J.E. Thomson and Q.T. Griffis (1). The area is underlain by early Precambrian volcanic, sedimentary, and intrusive rocks. The area is crossed by the Larder Lake Break, a zone of carbonatization and shearing.

The classification used is the same as that for McVittie township to the east. The volcanics are classified as Temiskaming or Keewatin cut by later Algoma intrusives. The geological succession of the area as proposed by Thomson is given in the following table.

QUATERNARY

Pleistocene

Clay, sand, gravel. Great unconformity.

PRECAMBRIAN

Keweenawan or Matachewan.

Diabase.
Intrusive contact.

Algoma

Carbonatized rock or "dolomite" Syenite, syenite porphyry, quartz porphyry, lamprophyrye, diorite and gabbro.

Intrusive contact.

Temiskaming

Basic Volcanics: Basic lava, sometimes pillowed; spherulitic lava; iron formation and chert; tale-chlorite schist.

Acid Volcanics: Trachyte, Trachytic breccia and agglomerate bedded tuff.

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Temiskaming Continued-

Fine-grained Sediments:

Greywacke arkose, quartzite,
small amounts of pebble conglomerate;
conglomerate with some inter-bedded
arkose and greywacke.

Erosional unconformity.

Keewatin:

Basic Volcanics: Andesite, basalt, and pillow lava; diorite lava.

Acid Volcanics: Rhyolite and trachyte; acid fragmental lava, agglomerate, and tuff; bedded tuff.

(1) O.D.M. Report Vol 50 part 8, 1941.

VII PROPERTY GEOLOGY

There are only two areas of outcrop on the claims.

The rest is covered by extensive sand plains or swamp.

One small area of outcrop in the north part consists of basaltic volcanics. The outcrop is in an area shown as drift on Map 50(1). The basalt is greenish grey to dark green in colour. The contact is drift covered.

A second area of outcrop consists of felsic intrusive rocks ranging from quartz-feldspar porphyry to feldspar porphyry to syenitic rocks. There is a later diabase dyke cutting through the intrusive rocks. Actual outcrop is quite small, although probably only covered by shallow overburdern over a considerable area.

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The claims lie to the south of the Larder Lake
"Break although the "Break" appears to be dipping south and
could underlie the claims at depth. Gold deposits in the
area are associated with this "Break".

VII CONCLUSIONS

The property is largely covered by overburden which makes a geological assessment tentative. Gold deposits have been found on the Queenston property to the north in rocks associated with the Larder Lake "Break:. There is a possibility of the "Break" extending onto the property at depth.

Geophysical surveying of the property may help in projecting the geology from known areas to the north and on the property across the extensive drift areas.

Respectfully Submitted.

July 17, 1981

Robert A. MacGregor, P. Eng.



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GEOPHYSICAL - GEOLOG! TECHNICAL DATA



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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

	Geological			
Township or Area	Gauthier	MINING CLAIMS TRAVERSED		
Claim Holder(s)	R.A. MacGragor	List numerically		
	Coles			
Author of Report	R.A. MacGregor	(prefix) (number) L544734		
	134 Palace Dr. Sault Ste. Marie April-Dape 1981	L544735 😔		
Covering Dates of Survey_ Total Miles of Line Cut	(linecutting to office)	L544736 🗸		
		L544737		
SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim	L544738		
	GeophysicalElectromagnetic	L565101 <		
ENTER 40 days (include line cutting) for first	Magnetometer	L565102		
survey.	Radiometric	L565103		
ENTER 20 days for each additional survey using		L565104		
same grid.	Geological40 Geochemical	L565105		
	ecial provision credits do not apply to airborne surveys)	L565106		
MagnetometerFlee	tromagnetic Radiometric (enter days per claim)			
DATE: July 17/81	SIGNATURE: Author of Report of Agent			
	ration of Reports Agent			
Res. Geol.	Qualifications 637,392			
Previous Surveys				
	Date Claim Holder			
	Date Claim Holder	•••••••••••••••••••••••••••••••••••••••		
	Date Claim Holder			
Previous Surveys File No. Type 1	Date Claim Holder			
	Date Claim Holder			
	Date Claim Holder			

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS. If more than one survey, specify data for each type of survey Number of Stations ______Number of Readings _____ Station interval ______Line spacing _____ Profile scale Contour interval Instrument Accuracy -- Scale constant _____ Diurnal correction method Base Station check-in interval (hours)______ Base Station location and value ______ 1 Instrument _____ ECTROMAGNETIC Coil configuration _____ Coil separation _____ Accuracy.____ ☐ In line Parallel line ☐ Fixed transmitter Shoot back Method: Frequency_____ (specify V.L.F. station) Parameters measured_____ Instrument GRAVITY Corrections made_____ Base station value and location _____ Elevation accuracy_____ Instrument _____ ☐ Frequency Domain Method [] Time Domain Parameters - On time Frequency _____ - Off time _____ Range ____ - Delay time - Integration time Power _____

Electrode array Electrode spacing ____

Type of electrode _____

NDUCED POLARIZATION

261558



Ministry of Natural Resources

Mining Claim

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L 565101

PECORDED IN THE NAME OF		LICENCE NO.	RECEIPT NO.	DATE RECORDED	
lucien Lacasse		K 18234	A225090	May 20, 1980	
Larder Lake				May 16, 1980 at 8:05 a.m.	
	FIGE USE ONLY RECORDED	BALANCE	ION OF CLAIM	Ide O.O. A.III.	
WORK CREDITS OTHER CLAIMS	GAUTHIER TOWNSHIP Former L 511773 Including land under water				
≱ 0		}	SAND AND STAT	ACE RIGHTS RESERVATION AROUND ALL LAKES AND VEL RESERVED.	RIVERS.
X D		Exc	luding hy luding ro	dro line	
M M M M M M M M M M M M M M M M M M M			ruurng ro		
**					
DATE	DAYS WORK			(565101)	RECEIPT NO.
Nov.10/80	Transfer all in	terest to	Robert	A. MacGregor,	
	K-15070			(565101)	B00450
May 19, 1981	Work 40 Geological	to be dele	eted	(544734)	
	This abstract i	s represei	ntative o	f the records of	
	Mining Claims L	565102 to	L 56510	6 inclusive.	
	Dated at Kirklar	nd Lake, t	his 11th	day of August	
	1981.				
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Ministry of Mining Claim 261731 The Mining Act L-544734 May 30, 1980 K14445 A225242 ohert James MacGregor May 16, 1980 Dobie, Ontario. at 11:00 a.m. X DAYS BALANCE OFFICE USE ONLY GAUTHIER TOWNSHIP DATE DAYS RECEIPT NO. (544734) Transfer all interest to Robert A. MacGregor, Nov. 10/80 K-15070 (400241)B004505 Work to be deleted May 19, 1981 40 Geological (544734)This abstract is representative of the records of mining claims L 544735 to L 544738 inclusive Dated at Kirkland Lake, this 11th day of August, 1981. Larder Lake Mining Division

