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REPORT ON

GEOLOGICAL SURVEY

SOUTH 1/2 Lot 6 Con 6

SKEAD TOWNSHIP, ONTARIO

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R. A. MACGREGOR, P. ENG.

JULY 21, 1978

RECEIVED

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IMINING LANDS SECTION

I. INTRODUCTION

A geological survey was run over lines cut on 3 claims in Skead Township during May 1978.

II. LOCATION, ACCESS AND OWNERSHIP

The property is located in the South 1/2 of lot 6 Con 6 Skead

Township, Larder Lake Mining Division, District of Temiskaming, Ontario.

The claims are numbered L341838, L341839 and L342531 and are recorded

in the name of R.A. MacGregor, 134 Palace Drive, Sault Ste. Marie, Ontario.

Highway 624, a paved secondary highway passes through the claims about 8 miles south of the town of Larder Lake, Ontario. A bush road, passable to truck or 4-wheel drive traffic runs along the south boundary of the claims.

III. PREVIOUS EXPLORATION

Gold was discovered during or before the 1920's and exploration carried out at that time and into the 1930's. A large number of old pits, trenches, and drill casing is still in evidence from this work. A shaft was sunk on claim L341838 to a reported depth of 500 feet with lateral work on the 215 and 475 foot levels. Little information is now available on this work, although there is reference to some spectacular gold showings in Ontario Department of Mines reports from that period. More recently the claims have been surveyed by magnetometer, VLF-EM and soil sampling surveys. Some surface trenching has also been carried out.

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IV. TOPOGRAPHY

The major part of the property is covered by Pleistocene drift, gravel and swamp. Rocky hills up to 20 feet above the surrounding area with fair to good rock exposure occurs in the north-west part of the claims. The central and southern parts are largely drift covered with a few low outcrops. The east side of claim L342531 is an open muskeg. The remainder of the property is covered with poplar, alder and wild cherry with a dense growth of low bushes. Black spruce occur in the more swampy places. The thick underbrush often makes the location of outcrops difficult.

V. MAPPING PROCEDURE

A grid of picket lines were cut for the geological survey. An east west base line was cut approximately through the centre of the claim group and picket lines run north and south at 400 foot intervals. The lines follow approximately old lines which were cut some years ago but were too overgrown to be usable. 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" - 200' scale plan.

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VI. GENERAL GEOLOGY

The general geology of northern Skead Township has been described by D.F. Hewitt ⁽¹⁾. The area is underlain by early Precambrian volcanics, sedimentary rocks and intrusives.

Hewitt used a classification and nomenclature to conform with that used by J.E. Thomson (2) in Hearst Township to the north. All the volcanics were classified as Keewatin; with the sediments classified as Temiskaming. Both these rocks were cut by later Algoman intrusives. A group of diorite, gabbros and serpentinized peridotites are classified as Post Keewatin intrusives. The geological succession of the area as proposed by Hewitt is given in the following table:

Table of Formations

QUATERNARY

Recent and Pleistocene:

Clay, sand gravel.

Great unconformity

PRECAMBRIAN

Keweenawan or Matachewan:

Diabase.

Intrusive contact

Huronian (Cobalt Series):

Conglomerate, greywacke, arkose, slate,

quartzite.

Great unconformity

Algoman:

Syenite; syenite porphyry; granite; granite porphyry; felsite; aplite; lamprophyre; basic syenite; hornblende syenite; hornblende diorite; amphibolite,

hornbendite.

Intrusive contact

Timiskaming:

Fine-grained sediments; greywacke, arkose,

slate, iron formation.

Conglomerate with interbedded greywacke.

Great unconformity

Post-Keewatin:

Diorite, diabase, gabbro, serpentinized

Peritotite.

Intrusive contact

Table of Formations (continued)

PRECAMBRIAN (continued)

Keewatin:

Early Intrusives: Quartz porphyry, feldspar porphyry, dacite porphyry.

Basic and Intermediate Volcanics:
Greenstone, pillow lava; diabasic, dioritic, and gabbroic lava, fragmental lava, agglomerate, pyroclastics, dacite, talc-chlorite schist, and site, tuff, sheared basic lava.

Acid Volconics: Rhyolite, cherty tuff, rhyolite tuff, tuff agglomerate, fragmental lavas, trachyte.

- (1) O.D.M. Report Vol. 58 part 6, 1949
- (2) O.D.M. Report Vol. 56 part 8, 1947

VII. PROPERTY GEOLOGY

The rocks ocurring on the three claims surveyed are mainly massive to sheared flows cut by some narrow felsic intrusive. The volcanics range in composition from rhyolite to basalt. The beds appear to trend north-west; south-east. Spinifex texture was noted in a number of locations in gabbroic to diabasic textured flows along the western part of the claims. The volcanics are believed to be of the Calc-Alkaline Suite, but this has not yet been confirmed by chemical analysis. The presence of Spinifex texture and the occurrence of Komatiltic ultramafics a short distance south of the area surveyed suggests the possibility that some of the basalts may belong to the Komatiltic Suite which again would have to be confirmed by chemical analysis.

The basaltic rocks are greenish grey to dark green in colour.

The more massive basalt contains pyrite up to 1-2%. The basalt is sheared in many places and contains carbonate, quartz-carbonate and quartz veinlets.

The ryholite ranges in colour from white to light greenish.

It ranges from a massive very siliceous looking rock with a concoidal fracture to a porphyritic appearing rock with quartz and feldspar phenocrysts. An outcrop in the south-west corner of the group has been sericitized and carbonatized. Rocks mapped as andesite range in composition from massive to a coarse pyroclastic breccia occurring at the east side of the claims.

The Algoman intrusives consist of a light pink quartz-feldspar porphyry in narrow dykes and a darker feldspar porphyry which was not seen in contact with the volcanics. A dyke of biotite lamprophyre was also noted. It contains black biotite phenocrysts up to 1/8" in a soft black fine grained matrix. Lamprophyre is easily recognized in outcrop by its dark grey pitted surface.

Many of the gold showings are now covered by rock from the Manor shaft or the trenches have filled with water or debris. The gold mineralization would appear to be in altered volcanic rocks cut by shear zones or fractures filled with quartz, possibly connected with felsic intrusive rocks. A large amount of felsic porphyry rocks were noted on the dump from the Manor shft but were noted at only a few places in outcrop.

VIII. CONCLUSIONS

The claims are underlain by a volcanic sequence of rocks favourable for gold deposition and on which a number of gold showings have already been found. Continued exploration is warranted particularly for strata bound gold deposits of the Kerr-Addison model.

Respectfully submitted

July 21, 1978

Robert A. MacGregor, P. Eng.



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GEOPHYSICAL - GEOLOGI 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 ETG.

Type of Survey(s)Geologics	1	
Township or Area Skead		Call Co. Spring Child Sales Services
Claim Holder(s) R.A. Mac	MINING CLAIMS TRAVERSED List numerically	
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Author of Report R.A. Mac	regor	(Prefix) (number)
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GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

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NOTES LEGEND HIGHWAY AND ROUTE No. TP. M.354 HEARST 400' surface rights reservation along the shores OTHER ROADS of all lakes and rivers. TRAILS SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. All unpatented mining claims accepted LOTS, MINING CLAIMS, PARCELS, ETC. subject to survey, Section II8 of the 476700 478699 **UNSURVEYED LINES:** Mining Act (R.S.O. 1970). 476677 LOT LINES L 4682 476696 476897⊜ PARCEL BOUNDARY 447540 MINING CLAIMS ETC. SAND and GRAVEL 401 396 401397 RAILWAY AND RIGHT OF WAY M.T.C. PIT No. 1230 476696 447539 447537 476673 4363 NON-PERENNIAL STREAM FLOODING OR FLOODING RIGHTS SUBDIVISION 442043 442063 4656 4655 ORIGINAL SHORELINE MARSH OR MUSKEG 396284 396287 5004 ● 396264 476693 442047 442059 442058 396276 396285 442044 442045 511638 DISPOSITION OF CROWN LANDS 77709 477708 477701 477700 4776093 396276 39628, 396283 44205 6 442054 442049 442048 442050 400700 400701 400702 TYPE OF DOCUMENT SYMBOL 477694 49 5302 191807 477 707 4777021 396279 396280 396282 442057 442 055 442 053 PATENT, SURFACE & MINING RIGHTS 400703 400704 400705 SURFACE RIGHTS ONLY MINING RIGHTS ONLY 191808 477706 4777031477698 3 1477705 477704 SURFACE RIGHTS ONLY 477696 $\boldsymbol{\omega}$ 477697 511342 4/00711 LICENCE OF OCCUPATION CROWN LAND SALE ORDER-IN-COUNCIL 511344 | 511345 (T.P. RESERVATION CANCELLED Retrocement 511347 SAND & GRAVEL Survey by J.A. Lonergon CATHARINE St. Anthony 511349 ATTRAY 7 63 6 SCALE: 1 INCH = 40 CHAINS JUL 3 1 1978 SURVEYS AND MAPPING BRALICH ACRES **HECTARES** 40 16 511357 511358 TOWNSHIP 8901 DISTRICT **TIMISKAMING** MINING DIVISION Montague LARDER LAKE Ministry of Natural 5 6 (A) 8 9 Resources Surveys and Mapping Branch
0/4/74 Plan No. Ontario TP. M.323 BAYLY 10/4/74 M.387200

LEGEND

- **▲** LAMPROPHYRE
- QUARTZ FELDSPAR PORPHYRY (B) FELDSPAR PORPHYRY
- RHYOLITE
- ANDESITE, ANDESITE BRECCIA
- BASALT, MASSIVE (B) SHEARED
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GEOLOGICAL SURVEY LOT6 CON6

SHEAD TOWNSHIP SCALE |"=200"

