

2.12916

Geological Mapping Report

on the

Cleaver Gold Property

Cleaver Township

Larder Lake Mining Division,

Ontario

by

Henry P. Hutteri H.BSc.

Box 1330 Timmins, Ontario P4N 7J8

October 1989

RECEIVED

May 20 1989

MCITCES EDNAL DALLAM

TABLE OF C



Ø10C

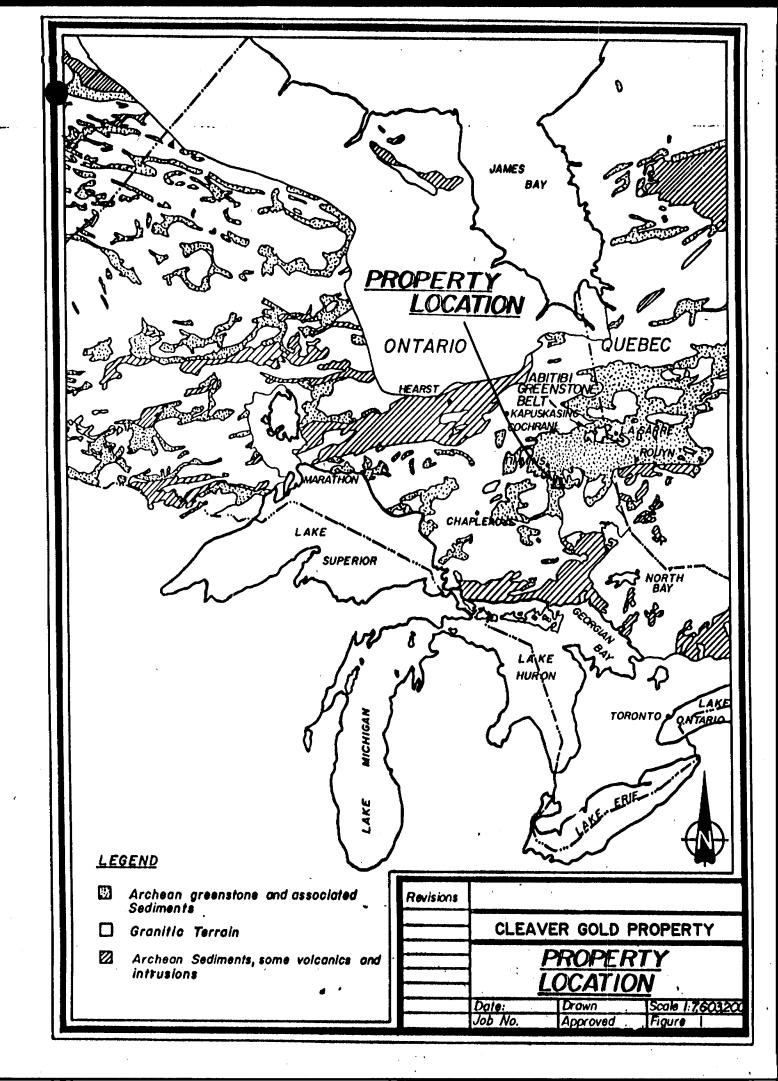
INTRODUCTION	1
PROPERTY DESCRIPTION, LOCATION & ACCESS	1
PREVIOUS WORK	1
REGIONAL GEOLOGY	2
PROPERTY GEOLOGY	2
CONCLUSIONS AND RECOMMENDATIONS	4
REFERENCES	5

LIST OF FIGURES

Figure 1	 Regional Location Map
Figure 2	 Claim Location Map
Figure 3	 Geology Map

APPENDIX

Appendix A	 Map indicating traverses
	completed during survey
Appendix B	 Table of Lithologic Units for
• •	the Peterlong Lake Area



INTRODUCTION

Geological mapping was carried out over 1 unpatented mining claim located within Cleaver Township, approximately 40 kilometers southeast of Timmins, Ontario.

The mapping was carried out from May 13 to 14,1989 and was initiated in order to define the bedrock lithologies and locate the various old pits and trenches scattered throughout the mining claim.

The geological mapping was carried out by Henry Hutteri, Box 1330, Timmins, Ontario.

PROPERTY DESCRIPTION, LOCATION & ACCESS

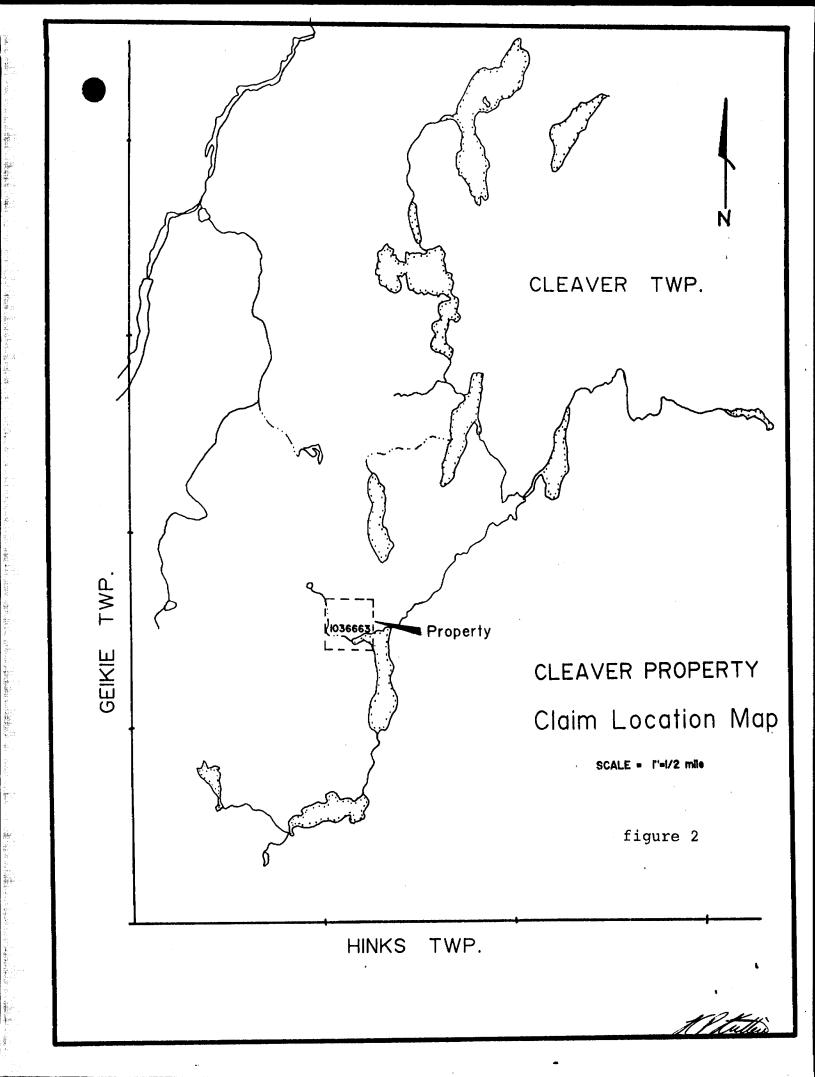
The Cleaver Gold Property consists of 1 unpatented mining claim (1036663) located within the southwest corner of Cleaver Township, Larder Lake Mining Division of Ontario.

The property lies approximately 40 kilometers southeast of Timmins, Ontario and access is gained by travelling southward from South Porcupine along a series of gravel logging roads which pass approximately one kilometer west of the claim.

The claim is currently registered to David Jones of South Porcupine, Ontario.

PREVIOUS WORK

There is very little recorded work within the western half of Cleaver Township. A limited amount of geophysical surveying trenching and diamond drilling was carried out in the past on two base metal occurrences located a few kilometers north of the subject property. In the 1920's, a large amount of trenching was performed on the Cleaver Property and on the surrounding claims by Dan O'Connor and others. In a report by Chas.B. Morgan dated July 1, 1924, strong northeast trending quartz vein systems were described striking across the Cleaver Property.



Visible gold was also observed within the two main vein systems examined.

The quartz vein systems were also examined during 1923 by Ontario Department of Mines personnel while conducting a study on the McNeil Township gold occurrences to the east. Visible gold was reported to be observed within quartz stringers cutting a syenite dyke within a shear zone.

Reconnaissance mapping was carried out on the western half of Cleaver Township by the Ontario Geological Survey in 1972. The mapping was part of a program which covered several townships within the Peterlong Lake area. The quartz veins within the Cleaver Property were probably not examined as they were not discussed in the report and the occurrence was not indicated on the accompanying map.

The quartz vein/shear zones which traverse the Cleaver Gold Property appear to have been overlooked for the past 60 years. possibly due to the poor documentation by the government. There is no record of any recent exploration activity on or within the area of the property.

REGIONAL GEOLOGY

The Cleaver Property lies within the Abitibi Greenstone Belt of the Superior Province of the Canadian Precambrian Shield. Locally, the property area is underlain by Archaenage mafic and felsic volcanic rocks and younger, possibly downfaulted Cobalt Group sediments. The Geikie Pluton, a large granodiorite intrusion has intruded the supracrustal rocks and lies to the west, covering most of Geikie Township. Northeast and northwest striking diabase dykes have intruded all of the above lithologies.

PROPERTY GEOLOGY

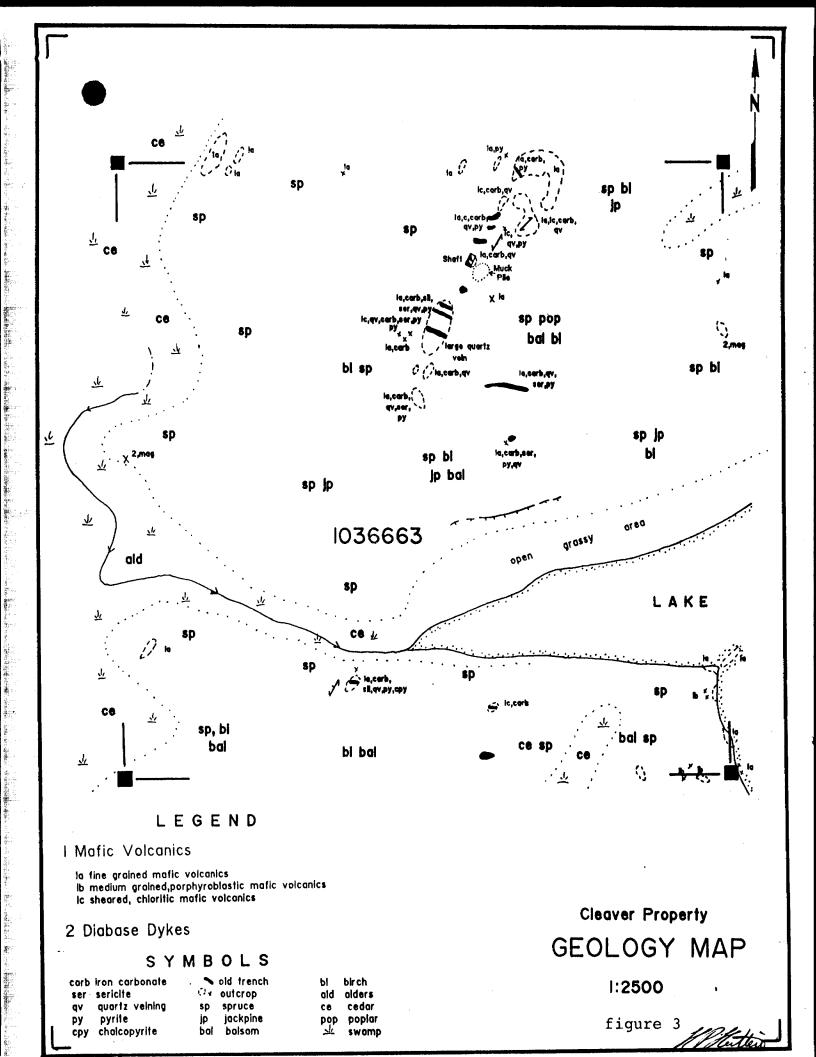
Geological mapping was carried out over the Cleaver Property at a scale of 1:2500 (figure 3). The mapping was

carried out by the author from May13 to 14,1989. The pace and compass survey method was used to tie in all the bedrock exposures and trenches located during the course of the survey. All claim boundaries were walked and two additional north-south traverses were made in the central portion of the claim. Due to the large number of closely spaced trenches and bedrock exposures in the north-central portion of the property, an additional chained grid line trending southwest was established to provide further control.

*

Lithologies encountered consisted primarily of mafic volcanics and minor diabase. The mafic volcanic rocks are generally dark green, massive, and fine grained to medium grained and porphyroblastic and are composed of hornblende and lesser plagioclase. The mafic volcanics have been altered to a carbonate-chlorite-sericite schist in several locations throughout the property. These shear zones appeared to have a strike direction which varied from 032° to 044°. There are several parallel zones which are characterized by a strong iron carbonate weathering rhind and an abundance of quartz vein material. The quartz veins varied from narrow veinlets and stringers to large veins and lenses which exceeded 15 feet in width. They are white, massive to sheared in appearance with variable amounts of pyrite, chalcopyrite and brownish iron carbonate. A bluish variety of quartz and arsenopyrite. mineralization have also been reported by previous workers on the property, however, many of the old trenches are overgrown and bedrock exposure is poor. One speck of visible gold was observed within a large white quartz vein in the east -central portion of the claim.

Two exposures of diabase were observed along the east and west boundaries. The diabase is greenish-grey, magnetic and is composed mainly of medium grained hornblende and plagioclase. The width and strike of these dykes was not determined during the course of the survey due to a lack of exposed contacts and poor outcrop exposure in parts of the claim.



CONCLUSIONS AND RECOMMENDATIONS

The Cleaver Property was found to be underlain by mafic volcanic rocks and minor diabase. Several northeast striking carbonate-chlorite-sericite altered shear zones containing quartz veining cross the property. A two compartment shaft and several old pits and trenches were located during the course of the survey, most of which were grown over. Visible gold mineralization has been reported by previous workers and was also observed by the author within the quartz veins on the property.

A comprehensive exploration program consisting of linecutting, magnetometer and limited I.P. surveying, mechanical stripping and detailed channel sampling is recommended. Diamond drilling would then follow depending upon the results of the previous programs.

Respectfully submitted,

Henry P. Hutteri H.B.Sc.

Geologist

2.8385

REFERENCES

を受けている。 「「「「「「「「「」」」」というでは、「「」」というでは、「「」」というでは、「「」」というでは、「「」」というでは、「「」」というでは、「「」」というでは、「「」」というでは、「「」」というでは、「「」 「「」」というでは、「」」というでは、「」」というで

Hopkins, P.E.

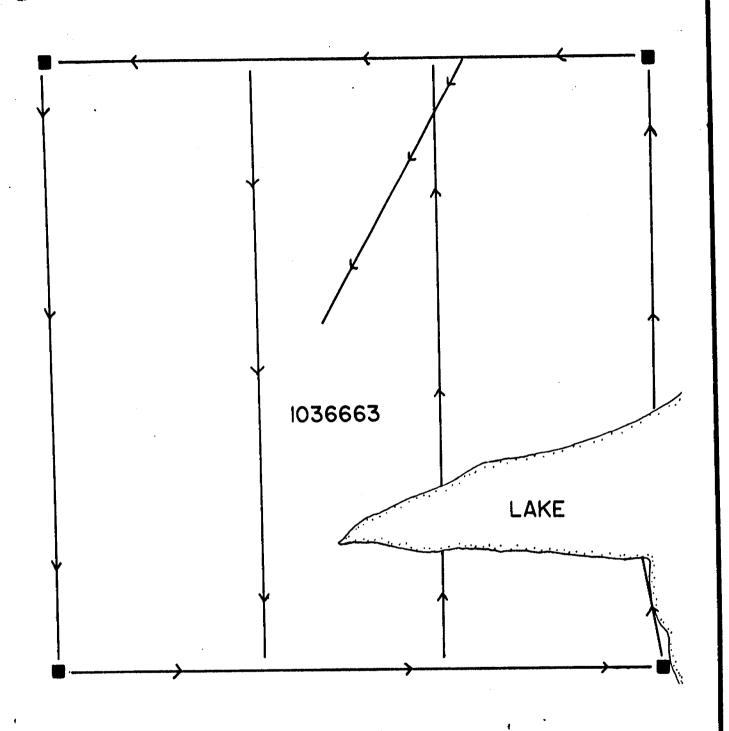
1924: Notes on Gold in McNeil and Other Townships; Ont. Dept. Mines, Vol. 33, pt. 3, p.37-40. Accompanied by Sketch Map

Pyke, D.R.

1978:

Geology of the Peterlong Lake Area, Districts of Timiskaming and Sudbury, OGS Report 171. Accompanied by Map 2345, scale: 1:50000.

Ministry of Northern Development and Mines Assessment Files Office, Kirkland Lake, Ontario. APPENDIX A



The state of the s

Location Map for Traverses with Direction Indicated I:2500

APPENDIX B

PHANEROZOIC CENOZOIC

QUATERNARY

PLEISTOCENE AND RECENT

Clay, sand, gravel, swamp, and stream deposits

UNCONFORMITY

PRECAMBRIAN

LATE PRECAMBRIAN

MAFIC INTRUSIVE ROCKS

Olivine diabase

INTRUSIVE CONTACT

MIDDLE PRECAMBRIAN

MAFIC INTRUSIVE ROCKS

Quartz diabase

INTRUSIVE CONTACT

HURONIAN SUPERGROUP COBALT GROUP

Gowganda Formation

Greywacke, arkose, greywacke and argillite, conglomerate

UNCONFORMITY

EARLY PRECAMBRIAN (ARCHEAN)

MAFIC INTRUSIVE ROCKS

Diabase

INTRUSIVE CONTACT

FELSIC INTRUSIVE ROCKS

Porphyritic hornblende monzonite; porphyritic hornblende granodiorite; hornblende-biotite trondhjemite, biotite-hornblende trondhjemite, diorite and quartz diorite, blotite granodiorite, porphyritic hornblende granodiorite, leucocratic granodiorite and alaskite; quartz-feldspar porphyry, trondhjemite

INTRUSIVE CONTACT

METAMORPHOSED MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS

Gabbro, gabbroic anorthosite, pyroxenite, serpentinized peridotite, peridotite largely altered to talc-carbonate, quartz gabbro

INTRUSIVE CONTACT

METAVOLCANICS AND METASEDIMENTS

Intermediate to Felsic Metavolcanics

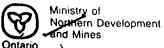
Tuff and lapilli-tuff, volcanic breccia, massive and pillowed flows, variolitic flows, interlayered siltstone and greywacke, garnet-and staurolite-bearing tuffs

Mafic Metavolcanics

Massive and pillowed flows, variolitic flows, tuff and lapilli-tuff, volcanic breccia, amphibolitized and gneissic lavas, pyroxene spinifex-textured flows, tremolitic-(low Fe) bearing flows and pyroclastic rocks

Ultramafic Metavolcanics

Massive polysutured serpentinized peridotite, spinifex textured flows, tuff and lapilli-tuff, cummingtonized flows, steatized and carbonatized peridotite



DOCUMENT No. W8908.335



Ontario S	Donort of Me	P-P-P-P-P-P-P-P-P-P-P-P-P-P-P-P-P-P-P-		<u> </u>					
Mining Act	Report of Wo (Geophysical, Ge		d Geochen	42A03NE10 nical Surveys)	030 2.12 Minina	916 CLEAVE	iR Na Minara	Douglass	9 0 ent and Lands B
Type of Survey(s)				Mining Division		Township o	r Area		
Recorded Holder(s)	al Mappi	ng		Larder L	ake	Cle	aver	tor's Licenc	
Recorded Holder(s) Recorded Holder(s) Dave Jones Address Box 1330, Timmins, O Survey Company Durham Geological 5 Name and Address of Author (of Geo-Technical Report)			2.129	16			Prospec	1 2 1 1	00 No. (31/)
				11 770			Telepho	ne No.	-
Survey Company	//mmins,	Unt.	P 1/	0 /38			26	3-66	44
Name and Address of Author (c	eologica	Servi	<u>cec</u> .	Inc.			12		
Henry Hut Credits Requested per Ea	teri Box	1330	Time	nins. On	t. P.	411758	13	Survey (fro	om & to) 14 05 Day Mo.
Credits Requésted per Ea	ach Claim in Column		Mining	Claims Traversed	(List in	numerical	sequen	ce)	Day Mo.
For first survey:	Geophysical	Days per Claim	Prefix	Mining Claim Number	Prefix	Mining Clair	n nber	D-vi-	Mining Claim
·	- Electromagnetic		1	1036663	rigiix	Nur	noer	Prefix	Numbe
Enter 40 days. (This includes line cutting)	- Magnetometer			7030063				 	
For each additional survey: using the same grid:	- Other			†	 			<u> </u>	
-	Geological	20	-		 			 	
Enter 20 days (for each)	Geochemical	20			 -	-		 	
Man Days	Geophysical	Days per					D E	CEIV	VEN
Complete reverse side and	- Electromagnetic	Claim				-			YED
enter total(s) here	- Magnetometer					NON		06 1	989
	- Other					 			
	Geological					I MI	MING	ANDS	SECTION
	Geochemical					,			
Airborne Credits		Days per							
Note: Special provisions	Electromagnetic	Claim							
credits do not apply to Airborne	- -		ļ						
Surveys.	Magnetometer					<u> </u>			
Total mile - 0	Other								
Total miles flown over cla	im(s). orded Holder or Agent (Signature)				Total	number of	1	
OcT6,1989	Conus I His	this				mining claims covered by this report of work.			
ertification Verifying Repo	·								*
hereby certify that I have a pers fter its completion and annexed		dge of the facts	set forth in t	this Report of Work, ha	iving perfo	rmed the wo	rk or witne	ssed same	during and/or
lame and Address of Person Ce		1200				ا ۸ م ن	~ F /:	************	
rienry har	ICTI DOX	1330 Telephon	e No	NT FILESIE	· P		7J8 Certified E	y (Signatu	re)
		26	8-66	KY Oct		989	Keny	Ph	atter
or Office Use Only		-	FEB %		tamp		WE INSTE		
,			V 3, 37 PG				3	VER	•
Total Days Date Recorded	Mining Re	corder (m)	ECE	IVED		<u>.</u>	· •	V 🚝 📜	•
r. Recorded Oct 12	199 ~	4	•	(,	13	r oct	12	1 . 198 <i>9</i>	t_{s_2}
20 Date Approved as		Manager, Minir	ng Lands	4	1	27	4.43	am	i
Fab 16/	. { }	NO.	J = := 3	•	\sim				1
1 rah/6/	111 11	r IX Alb.							

Henry P Hutteri
Box 1330, Timmins, Ont.
P4N 7J8

November 27, 1989

Susam Hurst Mining Lands Section 880 Bay Street, 3rd floor, Toronto, Ont. M5S 1Z8

RECEIVED

Dear Ms. Hurst:

日本のおかないる事

MINING LANDS SECTION

Enclosed are two copies of a report describing a geological mapping program carried out on a one claim property within Cleaver Township, Larder Lake Mining Division, Ontario.

The single claim is held by Dave Jones of Timmins, Ontario. I have also enclosed a copy of the report of work which was filed in October. Please contact me if there are any deficiencies in the work submitted. For further information, I can be reached at (705)-268-6644. Thank you.

Sincerely,

Henry P. Hutteri

Geologist

