

424035E0185 2.306 ZAVITZ

Introduction

BRIEF SUMMARY REPORT ON ZAVITZ TO

This report has been prepared at the request of Mr. Fred W. Matthews, Supervisor, Projects Section, Mining Lands Branch, Ontario Department of Mines and Northern Affairs.

The property consists of the following nine (9) contiguous unpatented mining claims in Zavitz township, Larder Lake Mining Division, Ontario:

292702	292704	292706	292708	292710
292703	292705	292707	292709	

Location and Access

The claim group covers and surrounds the southeast arm of Kitchiming Lake, near the center of the east boundary of Zavitz township, being located roughly 30 miles south of Timmins and roughly 25 miles west of Matachewan, and accessible from either of these communities by automotive vehicles via good gravel roads.

History of Exploration

There is no record in the assessment work files in the office of the Resident Geologist, Ontario Department of Mines and Northern Affairs, Kirkland Lake, of any previous exploration work having been done on this ground. No evidence of past work such as picket lines, strippings, pits, trenches, drilling set-ups, etc. were seen by the writer during his sojourn on the property. During the summer of 1970, the Rochon brothers and William Dallaire of Timmins, Ontario, discovered widespread copper mineralization on what is now claim 292706 by grub-hoe prospecting. These men staked the subject claim group in August, 1970, and optioned the same to the writer and his associates in September, 1970.

Topography

In general the terrain of Zavitz township is rather flat or very gently rolling with local relief seldom exceeding 100 feet. The southeast arm of Kitchiming Lake appears to be quite shallow. Bedrock outcrops are not uncommon in the east-central part of the township, but in most localities are somewhat obscured by coverings of moss and humus. Overburden cover consists mainly of a thin layer of outwash sands and gravel, probably only rarely exceeding 50 feet in thickness. Forest cover consists of a mined growth of spruce, pine, balsam, cedar, birch and poplar, with some trees exceeding 24 inches through the butt.



Regional Geology and Geophysics

The most recent geological survey of Zavitz township is shown on Ontario Department of Mines Preliminary Geological Map No. P.455. Regional aeromagnetic survey coverage is shown on Geological Survey of Canada Aeromagnetic Series Map No. 291G. These publications indicate that the eastern part of Zavitz township is underlain mainly by mafic to intermediate volcanic rocks with subordinate amounts of interstratified sialic volcanic rocks. These formations have been closely folded along east-west trending axial planes, and subsequently intruded by mafic to sialic plutonic rocks in the form of dikes, sills and small stocks and bosses.

Geology of the Property

The subject claim group is underlain by mafic volcanic flow rocks, including massive, pillowed, amygdaloidal and spherulitic andesites and basalts, which have been folded into a tight synclinal structure plunging steeply to the west: the nose of this fold occupies the east-central part of the claim group and the axial plane strikes east-west across the south row of three claims. Intensive prospecting of the ground has so far been confined to claim 292706, the center claim of the group. Sulphide minerals, including chalcopyrite, pyrrhotite, pyrite and bornite, as well as traces of native copper, were found by grub-hoe prospecting at eighteen rather widely scattered localities on this claim, as amygdaloidal fillings, massive stringers, coarse disseminated grains and small, irregular masses in the volcanic rocks. Minor silicification and epidotization are evident locally, and there are a few minor shear zones, but otherwise the mafic flows are fresh, massive, dense, tough and hard to break. Numerous, and, in places closely spaced, joint planes are much in evidence, though their development appears to post-date the emplacement of the sulphide minerals.

Development Work To Date

Two strips, each 1000 feet long and roughly 50 feet wide, were cleared of forest cover and overburden by bulldozer on claim 292706; one trends at azimuth 293°, the other at azimuth 217°. Within these strips more than 1500 lineal feet of rock trenches, roughly 4 feet wide and 1 foot deep, were blasted into the bedrock. Muck samples, each weighing from 10 to 20 lbs., were taken over 10 foot intervals from the rock broken in the trenches. The locations of the strips, trenches, pits, etc., and the assay results from the sampling are shown on the accompanying sketch map of the workings. To-date the cost of property acquisition, prospecting, stripping, trenching, sampling, assaying, supervision, etc., exceeds \$25,000.

Analysis of Results

The results of this work indicate the presence of a zone of disseminated copper mineralization, at least 800 feet long and 400 feet wide, trending a little west of north, which is still open for extension to the north, the south and the east. The western boundary of the zone has been at least roughly delineated. Based on the assay results of the trench sampling, the grade of the copper content of this zone would appear to be at least 4 lbs. to the short ton (0.20%), and there are additional minor values in gold and silver.

The deposit therefore offers intriguing possibilities for the development of a large tonnage, low-grade, open-pit, "porphyry copper" type of operation. Outlined below is a proposed exploration program designed to determine as efficiently as possible whether or not the deposit has the potentiality to be developed into such an operation.

Projected Exploration Program

Contingent upon the availability of suitable financial arrangements, it is proposed to further explore and develop the property in the following program:

- (1) to strip and clean by means of earth-moving equipment, high-pressure water pumps, etc., the bedrock surface over an area of at least one million square feet north and south of the present strips and eastward from them to the shore of Kitchiming Lake:
- (2) to map the exposed bedrock surface in detail for all geological features, mineralization, etc., and to conduct careful geophysical tests using the induced potential method to obtain optimum results over the mineralized zones:
- (3) to carry out 6000 lineal feet of rock trenching over the mineralized areas in order to obtain systematic bulk samples for assay purposes.

The estimated cost of this program is as follows:

Stripping and cleaning Mapping and geophysics Trenching and sampling Assaying Supervision Contingencies

	\$20,000
	5,000
	35,000
	6,000
	7,000
• • • • • • • • •	7,000

Total

H. D. Carlson, Ph.D., P. Eng.,

\$80,000

Timmins, Ontario, January 26, 1971. Consulting Geologist.

WM. GERRIE, M.A. D. KERR-LAWSON, B.A., PH.D. SWAST		Swastika, On Swastika, On BORATORII tate of Analysi No	^{t.,Nov.: 30,:197} ES LIMIT	TELEPHONE 642,3244 P.O. DRAWER 10 0
We have assayed	970 and subm	itted byDr. H., D	Carlson with the follo	
	Sample No.	Molybdenum %	Nickel	

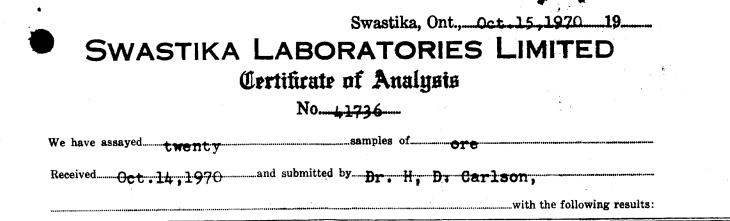
201 -- 205 None Comp. 334 -- 340 0.01 Trace

Comp.

SWASTIKA LABORATORIES LIMITED,

per: -><

Acette Renker Canadian Tecting



Sample No.	Copper	Gold r Ogs. Val	er ton ue @ \$35. 00	Silver Ozs.
301 302 303 304 305 306 307 308 309	0.16 0.04 0.10 0.08 0.07 0.14 0.05 0.01 0.01			
310 311 312 313 314 315 316 317 318 319 320	0.02 0.02 0.11 0.12 0.02 0.42 0.50 0.56 0.56 0.69 0.31	0.03	\$1.05	0.24

SWASTIKA LABORATORIES LIMITED,

per: JC. Zu

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We have ass ay ed	fifteen	samples of	ore
Received Oct.19	,1970 and su	bmitted by Dr. H.	D. Carlson
			with the following results:
Sample No.	Copper %		
322 323 324 325 326	0.03 0.12 0.21 0.11 0.04		
327 328 329 330 331	0.18 0.16 0.15 0.06 0.13		
332 333 334 335 336	0.13 0.03 0.16 0.12 0.18	• • • <u>·</u>	
		SWASTIKA LA	BORATORIES LIMITED,
		per: 0	P.C. Day
		per:	P.C. Den

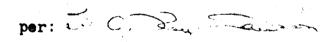
WM. GERRIE, M.A. D. KERR-LAWSON, B.A., PH.D.

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Swastika, Ont.,Oct.123,1970					
We have ass	ayed	samples of	• ••••		
Received	Oct.22,1970	and submitted byDr	D. Carleon with the	following res	ults:
Sample No.	Copper				i i i i i i i i i i i i i i i i i i i
337 338 339 340 341 342 345	0.35 0.16 0.18 0.15 0.11 0.09 0.10 0.15				





SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No.41765

We have assayed seven samples of composite bulbs

Received Oct. 23, 1970 and submitted by Dr. H. D. Carlson

...with the following results:

Sample	Gold	per ton	Silver
No.	Ozs. Va	alue @ \$35.00	Ozs.
301-307 308-311 312-315 316-320 322-326 327-331 332-336	0.005 Nil Nil 0.01 Nil 0.02 0.005	\$0.17 \$0.35 \$0.70 \$0.17	0.02 Nil Nil 0.17 0.02 0.07 0.02

SWASTIKA LABORATORIES LIMITED,

per: 3.0 2

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WM. GERRIE, M.A. D. KERR-LAWSON, B.A., PH.D.	Semilar Tering Senior Seminar	TELEPHONE 642-3244 P.O. DRAWER 10
•	Swastika, Ont.,Oct	. 28, 1970 19
SWASTIK/	A LABORATORIES	LIMITED
	No. 41773	
We have assayed tw	enty-opesamples of	ore

Received Oct. 27, 1970 and submitted by Dr. H. D. Carlson

...with the following results:

Sample	Copper
No.	%
346 347 3490 355 355 3556 7892 3665 3667 3667 3667 3667 3667 368	$\begin{array}{c} 0.07\\ 0.03\\ 0.06\\ 0.06\\ 0.01\\ 0.04\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.03\\$

SWASTIKA LABORATORIES LIMITED,

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Swastika, Ont.,......Oct. 29,1970...19

SWASTIKA LABORATORIES LIMITED Certificate of Analysis

No.41777

We have assayed thirty-four samples of ore

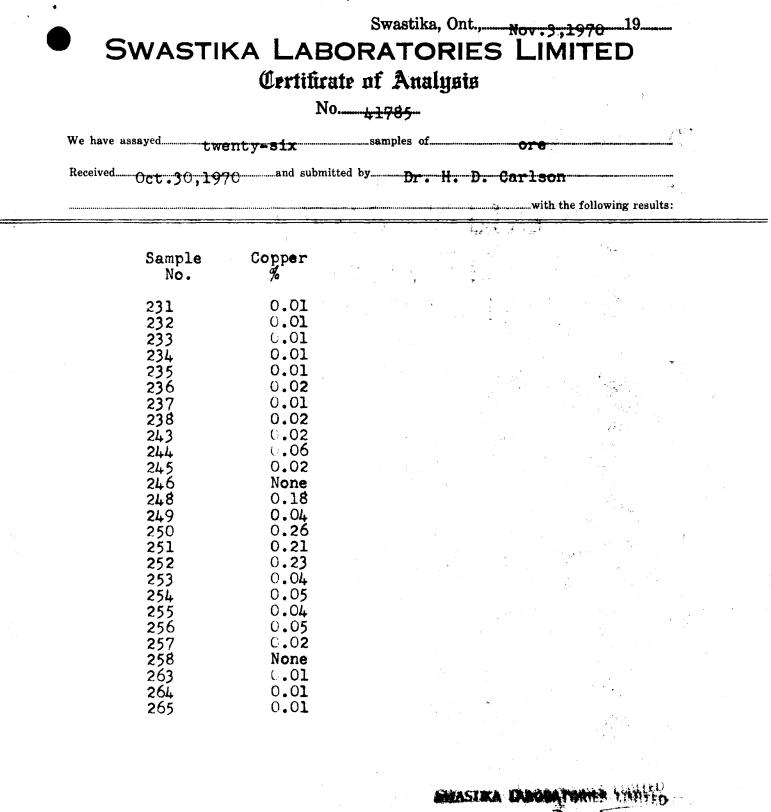
Received Oct 28,1970 and submitted by Dr. H. D. Carlson

with the following results:

per: D.C. Day

Sample	Copper			
No.	Copper			
201	0.02			
202	0.08			
203				
	0.02			· .
204	0.03			
205	0.02			
206	0.11			
207	0.19	r		
208	0.45			
209	0.43	- · ·		:
210	0.32			
211	0.28			
212	0.28			
213	0.20			
214	0.22			
215	0.06			
216	0.07			· · · · · · · · · · · · · · · · · · ·
217	0.26			
218	0.18			
219	0.14			
220	0.07			
221				
222	0.47			
	0.03	-		
225	0.01			
226	0.07			
228	0.01			
229	None			
230	None			
369	0.04			
370	0.04			
371	0.05			
372	0.13			
373	0.18			
374	0.02		SWASTERA	TABODATOD TEG T THE
375	0.01		OWNDITUN	LABORATORIES LIMITED,





Canadian Ter Association

In accordance with long-established North American custom, unless it is specifically stated otherwise gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

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WM. GERRIE, M.A. D. KERR-LAWSON, B.A., PH.D.



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		fourteen					1980 - 49 1 - 49 1 - 4 9
	Received No.	r.5,1970 an	d submitted by.	Dr.		with the following re	sults:
	Sample No.	Copper	Gold Ozs. Va	per t alue (con 2 \$35.00	Silver Ozs.	
•	282 284 376 377 382 390 391 392 393 396 397 398 399 400	0.01 0.82 0.01 0.01 0.01 0.05 0.05 0.08 0.10 0.07 0.28 0.05 0.24	0.025	\$ 0.	.87	0.30	

SWASTIKA LABORATORIES LIMITED,

per:

Swastika, Ont., Nov. 10.1970 19 SWASTIKA LABORATORIES LIMITED Urrtificate of Analysis No. 41808							
We have assayed	two	composite pulps H. D. Carlson					
		with the following results:					
Sample	Gold per ton	Silver					

206-2210.005\$0.170.04337-3450.005\$0.179.05

SWASTIKA LABORATORIES LIMITED,

per: J.C. Z >20

WM. GERRIE, M.A. D. Kerr-Lawson, B.A., Ph.D.	Canadan Testing Sectors	TELEPHONE 642-3244 P.O. DRAWER 10
	Swastika, Ont.,	*.11,1970 19
Swastik	A LABORATORIES	LIMITED
	Certificate of Analysis	
	No41810	
We have assayedni	ne samples of	
Received	and submitted by Dr. H. D. Ca	rlson
		with the following results:

Sample No.	Copper %	Gold Ozs. N	l per ton Value @ \$35.(Silver 00 Ozs.	Zinc %	Nickel
378	0.02					
379	0.03					
383	0.01					
384	0.01					
385	0.01					
389	0.01					
394	0.01					
395	0.01					
Grab	None	Nil	-	Nil	0.02	0.01

SWASTIKA LABORATORIES LIMITED,

per:

