

GM 09735-A

GEOLOGICAL REPORT

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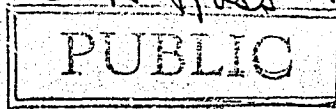
Québec 

Noranda, Que., July 23, 1945.

Dufay Twp.

S. H. Ross 1945

CARLSON MINES LTD
Dufay Township, Que.



Ref: Ross, S.H., Que. Bur. Mines, P.R. 150, 1940, pp 19-20.
" " P.R. for 1941.

Carlson Mines holds a block of 15 claims, approximately 800 acres, in Dufay township adjoining the Dasserat-Dufay township line and 2 miles east of the Ontario-Quebec interprovincial boundary. A trail leads south from a point on the Rouyn-Kirkland Lake highway, 24 miles from Rouyn, about one mile, directly to the camp in claim T 9277.

The claim numbers are C 8716, claims I to 5; C 8838, claims I to 5; T 8858-9; and T 9277-9. Exploration work, including diamond drilling, has been confined mainly to claims T 8858-9 and T 9277.

The claims are underlain mainly by Temiskaming sediments, chiefly greywacke and interbedded quartzites, cut by irregular bodies and small dykes of granite, gneiss, and feldspar porphyry and a prominent diabase (younger gabbro) dyke. The schistosity of the sediments strikes N 30° W and dips steeply to the north. The sediments are cut off on the south by granitic intrusions. The diabase dyke, striking N 45° E, has a maximum width of 115 feet. It is exposed cutting greywacke and granite for a length of 3000 feet, crossing the SE corner of claim T 9278. A N-S fault, which appears to follow the creek in the east part of the property, has offset the east end of the dyke 900 feet to the north. A shear zone south of the dyke, striking NE, consisting of talc and sericite schist, has been traced east and west across the property for a length of 3600 feet.

Vein No. 1, the main vein, cutting greywacke, has been traced by stripping, trenching and diamond drilling for a length of 2000 feet in claims T 8859, T 8858 and T 9277. It averages 5 feet in width and strikes N 45° E. The vein consists of massive and brecciated quartz mineralized with pyrite mainly and chalcopryite. In diamond drill hole No. S 9, at the west end, it is one foot wide.

Vein No. 2, 200 feet north of No. 1 and parallel to it, lies in a shear zone in greywacke striking N 53° E and dipping 45° to the north. Diamond drill intersections indicate an actual length of 205 feet and a probable length of 1500 feet for this vein. It consists of coarse, crystalline quartz, in part ferruginous, well mineralized with massive and disseminated chalcopryite and some pyrite.

Following a period of inactivity, surface work on the property was resumed in November, 1944. Diamond drilling began in March, 1945, and up to the time of the writers inspection, 6379 feet of drilling in 17 holes, Nos. S 1 to S 17, had been completed. A record of this diamond drilling follows:

Accompanied by

I Geological Map.

MINISTÈRE DES MINES, QUÉBEC

SERVICE DES GITES MINÉRAUX

No GM- 9735-A

Diamond Drill Record

1945

Hole No.	Length	Dip	Bearing	Hole No.	Length	Dip	Bearing
S - I	341	50°	S 50° E	S - IO	200	45°	
S - 2	350	50°	E	S - II	351	65°	
S - 3	509	45°	N 50° W	S - I2	153	45°	
S - 4	330	60°		S - I3	400	45°	
S - 5	497	45°		S - I4	544	38°	S 30° E
S - 6	260	45°		S - I5	556	38°	S 30° E
S - 7	240	60°		S - I6	402	60°	S 40° E
S - 8	192	45°		S - I7	550	40°	S 30° E
S - 9	504	45°					

Holes, Nos. S-I, S-2, and S-3, in claim T 9277, were drilled to explore the fault zone and to determine the strike of the shear zone.

Holes, Nos. S-4 to S-II, were drilled southeast to cut the main vein. Nos. 4 and 9 were put down in order to pick up its eastern extension. Hole, No. S-4 cut a 20-foot section of massive pyrite and chalcopryrite assaying \$1.05 in gold per ton. Hole No. S-9 cut fractured and silicified material and 9 feet of quartz heavily mineralized with sulphides carrying low gold values.

Holes, Nos. S-I2 and S-I3, drilled to test the shearing in the vicinity of the feldspar porphyry and the diabase dyke in the north of claim T 9278, cut some mineralized material assaying low values in gold.

Holes, Nos. S-I4 and S-I5, drilled S 30° E in claim T 9278, cut sections of vein No. 2, consisting of quartz mineralized with chalcopryrite, 20 to 24 feet wide.

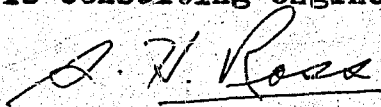
Hole No. S-I7, drilled S 30° E in claim T 8858, cut the main vein at a core length of 500 feet.

Diamond Drill Logs

Hole No.	Footage	Description
I - S	275 - 280	White quartz mainly. Some chalcopryrite mineralization.
	280 - 283	Quartz and pink gneiss.
	283 - 341	Pink gneiss
2 - S	270 - 301	Quartz, granite, gneiss mineralized with blebs of chalcopryrite.
	301 - 325	Granite and gneiss.
3 - S	50 - 100	Mainly sericite schist. Hole drilled down dip.
8 - S	150 - 158	Quartz mineralized with chalcopryrite blebs.
	158 - 160	Breccia with 1/4-inch quartz stringers.
	160 - 192	Greywacke.
	164 -	4-inch quartz stringer mineralized with chalcopryrite.
I7--S	295 - 495	Shear zone. Talc-chlorite schist.
	495 - 510	Massive greywacke.
	511 -	1-foot quartz vein.
	511 - 525	Shear zone. Talc-chlorite schist. Disseminated pyrite and chalcopryrite in silicified schist and quartz.

<u>Hole No.</u>	<u>Footage</u>	<u>Description</u>
I7 - S	527 - 530	Quartz vein with heavy chalcopyrite mineralization.
	530 - 540	Scattered quartz sections, 3 to 4 inches long mineralized with chalcopyrite blebs.
	545 - 546	Quartz stringer with massive chalcopyrite.
	546 - <u>550</u>	Sediments. Banded red quartzite.

Mr. C. E. (Neil) Logan, manager, is in charge of operations at the property and Mr. H. J. (Squire) Logan is consulting engineer.


Stewart H. Ross, Geologist
Quebec Department of Mines.