010

Diamond Drilling

Township of Deroche **Report Nº:** 13

Work performed by: Algoma Ore Properties Ltd.

Claim Nº	Hole Nº	Footage	Date	Note
SSM 22647	1	394'	Jan/52	
	2	405'	Feb/52	
	3	300'	Feb/52	

Total 1099'

Notes:

ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

All on S.S.M-22647

DIAMOND DRILL HOLE NO. I PROPERTY Hannah

LOCATION OF COLLAR Cross Section 49.5 - 50 ft. N.E. of base line ELEV.

AZIMUTH AT COLLAR. 225°

DIP AT COLLAR. 45° at 120' - 41° at 300 - 39°

VERTICAL SECTION NO. 49.5 LENGTH 396' CORE SIZE. AX

REC. IN MIN. ZONE. LOGGED BY JRB STARTED 28/1/52 FINISHED. 8/2/52

C.P.-10420-51

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES			
		FROM	TO	REC.				
0 - 33	Casing							
- 84.5	'Greenstone' Colour varies between dark green to dull grey. Generally dense and fine-grained. Composition approximately that of an acid andexsite. Faint limeation (at 15° - 30°) reminescent of fine flow layering or bedding occasionally present. Heavy shearing (gouge, slichensiding) at about 10 ft. intervals common thruout section. Occasional hematite staining in these shears. Shear angle varies from 15° to 42°. Occasional wandering quartz-filled seams and feldspar patches throughout.							
- 96	Rock type as 33'-84.5°. Shears somewhat stronger and more numberous average angle - 35°. Hematite staining common throughout associated with the shearing and/or with fine quartz-carbonate veinlets and seams.							
-146	Greenstone, generally as described above. Some small sections under a foot in width are almost rhyolitic. Not evident whether these are original flow beds or later feldspan rich intrusions from the granite mass. A few flecks and seams of hematite noted. A few faint hints of squeezed fragments. Hematite pods and seams common at 145'.							
- 185	Mainly thin-bedded (¼") light green, fine grained sedimentary material. Bedding angle 30°- 58° generally averages about 40°. Shearing parallel to bedding occasionally noted. Hematite blebs and seams absent or almost so. Scarce fine quartz seams (¼") usually paralleling bedding thruout the section At 185' a 1" specularite seam at 50° to core.							

ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. I PROPERTY Hannah

CONTINUED Page 2

C.P.-10420-51

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES				
		FROM	TO	REC.					
- 224	'Greenstone' Apparently highly metamorphased lavas varying in composition from andesite to rhyolite. Dense, hard, fine-grained; colour gradations from dark grey-green to light grey. Quartz and feldspar filled seams common occasional hematite patches.								
- 240	Primarily Greenstone. Apparently fine-grained, much metamorphased lavas as noted above. Faint pinkish tone common over small widths throughout section;- probably caused by addition of small amounts of fine grained orthoclase. Hematite in fine seams, pods and blibs usually associated with finely crystalline white quartz common throughout the section. Concentrations of hematite at:- 223', 1.5 (10%); at 230', 1.5 (10%); at 237', 1.0 (50%).								
- 280	Rock type as in 224'-240'. A few inches of stratified material (bedding L - 50°) at 270' Strong to medium shearing as follows:- 271 @ 50°; 277.5' @ 35°-45° 256' @ 20° Hematite concentrations noted at:-255' 1" (50%); 271', 1.0 (50%)								
- 289	Olive green, thinly-bedded (¼") fine-grained sediments. Sheared and brecciated for 1 ft. at 281'. Shear L - 50° at 287', 3" thin bedded jasper Bedding L - 50°- 60°:								
- 292	Sedimentary material generally thin bedded and dense consisting of jasper or jasper-like material and dark green sediments in about equal proportions. Bedding L - 45°- 50°. Bedding shearing common.								
- 298	Rock fine-grained, dense, dark grey highly silicified and 25% replaced by wandering quartz seams. Minor amounts of brecciated fragments within the quartz seams and a few flecks of specularite. At 297.5 a hematite-rich shear zone apparently at a flat angle to the hole.								

ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. I PROPERTY Hannah

CONTINUED Page 3

C.P.-10420-81

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES				
		FROM	TO	REC.					
- 308	Dark-green, medium-grained rock. Occasional bedding remnants. Sparse thin ($\frac{1}{8}$") jaspery seams. Bedding L - 40° At 302' a 2.0' section containing 3 separate hematite bands averaging 3" in width separated from each other and the adjoining rock by a few inches of dense, silicious thinly-banded (bands usually contorted) jaspery purplish material Bedding L - 45°.								
- 311	Strong shear zone. The central foot consists of dull grey-green soft material which crumbles on touch - possibly consolidated gouge or dyke material. On either side a foot of sheared greenstone containing 25% quartz-carbonate stringers and a little hematite.								
- 317	Primarily dark-green sediments - occasional bedding remnants at 45° - 60°								
- 327	Mainly fine-grained, almost amorphous, dark rock. Apparently a rhyolitic flow Small greenstone remnants occasionally present. 'Flow angle' - 40°. A few orthoclase blibs, quartz and hematite seams throughout.								
- 340	Sheared greenstone. Shear angle - 25-40° 50% quartz veinlets at 35° for 1' at 332'. At 335' a 1.5' section, sheared and silicified with minor amounts of hematite seams paralleling the shearing in the final 6".								
- 347	Sheared 'greenstone' Probably in part tuffaceous in origin. Shear L - 45°. 20% intruded by quartz-feldspar veinlets which parallel the shearing.								
- 385	'Greenstone'. Minor amounts of tuffaceous material apparent. Shearing common in the first 10' and final 5' of the section. Shear angle usually - 45° occasionally flatter (to 20°) Hematite often coats the shears. Feldspar occasionally coats shear and less often joint planes (at 70° to shearing)								
- 388.5	Quartz-feldspar (orthoclase) 'dyke' Contact L - 40°.								
- 394	'Greenstone'. Occasional shearing at 45°.								
	394' - End of Hole								

ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 2 PROPERTY Hannah

LOCATION OF COLLAR Cross Section No. 50.5 - 20' N.E. of base line ELEV.

AZIMUTH AT COLLAR 215° at 100' - 220° at 200' - 210° at 300' - 217°

DIP AT COLLAR 45° at 100' - 43°, at 200' - 40°, at 300' - 38°

VERTICAL SECTION NO. 50.5 LENGTH CORE SIZE. AX

REC. IN MIN. ZONE. LOGGED BY. JRB STARTED. 9/2/52 FINISHED.

C.P.-10420-51

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES				
		FROM	TO	REC.					
0 - 35	Casing								
- 120	Greenstone. Primarily a dull olive-green medium grained volcanic. Occasional faint bedding traces apparent. Relatively homogeneous and consistent throughout. Shear L thruout the first hundred feet remains at 20° or slightly flatter throughout. from 100' to 120' shear L steepens slowly to 45 ± 5°								
- 123	Quartz-orthoclase dyke.								
- 144	Dark-grey, fine-grained rock, apparently silica rich. Recovery poor for section owing to highly jointed and fractured nature of rock. No bedding or other features available to give a clue to rock's origin. Possibly a silicified greenstone - or a rhyolitic flow. At 134' and again at 140' two sections approx. 1 ft. in width which are moderately to highly brecciated.								
- 161.5	Primarily tuffaceous material. Bedding usually apparent. Bedding L - 40°-50° Moderately sheared at 40°- 50°								
- 190	Mainly a dark-grey (slight purplish cast) highly siliceous, fine-grained rock. In the final 10' of the section many chloritized, small (usually under 1 inch) vague greenstone remnants. Indefinite as to whether the rock constitutes an original rhyolitic flow with partially digested greenstone remnants of a later silicification of greenstone. The former is the more likely. Small amounts of orthoclase in the first 5 feet in fine seams. at 180' a 3' section containing 25% quartz in irregular patches and seams.								
- 209	Predominantly medium-grained, relatively massive greenstone. Occasionally bedding seen at 50°-60° to core.								

ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 2 PROPERTY Hannah

C.P.-10420-51

CONTINUED Page 2

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES				
		FROM	TO	REC.					
- 216	Greenstone 25% replaced by quartz and occasional feldspar seams usually at 60°-70° to course of hole.								
- 230	Primarily silicified dense hard greenstone. Occasional small feldspar seams and blibs.								
- 257	Mainly dull green sedimentary material. Bedding common thruout at 40-50°. Bedding shearing common.								
- 268	Dense, fine-grained dark grey rock. Apparently igneous.								
- 272	Dull green to grey green dense rock, somewhat softer than the previous section. Occasional apparent bedding remnants at 60°.								
- 283	Dense, fine-grained hard dark grey to almost black rock. Occasional purplish overtone. Apparently igneous. A few fine hematite seams at 282'.								
- 294	Dull-green tuffaceous material. Bedding L - 40-50° Bedding shearing common.								
- 294.5	Blibs and seams of hematite (50%) in tuffs.								
- 296	Strong shear zone. Shear angle about 45°. Zone composed mainly of tuffaceous gouge with a 1" dikelet and several pods of orthoclase.								
- 301	Primarily green tuffaceous material; moderately sheared throughout. At 300.8 a 2" seam of hematite paralleling the following section.								
- 302.5	Primarily a quartz-feldspar dyke. Minor amounts of included tuffaceous remnants Contact angle - 70°. A few hematite seams								
- 308	Mainly tuffaceous material, usually dull green and moderately sheared at 45° to 60°								
- 311	Quartz-feldspar dyke. At 305' an 8" section composed of sheared tuffs with a few pods of orthoclase and 35% hematite in seams and blibs. Wandering hematite seams (¼") scattered thruout the dyke.								
- 314	Moderately sheared greenstone. A few of the shears are hematite coated.								
- 317	Mainly quartz-feldspar intrusive containing minor amounts of greenstone remnants and about 20% fine hematite seams.								

ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 2 PROPERTY Hannah

C.P.-10420-81

CONTINUED Page 3

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES			
		FROM	TO	REC.	Fe	SiO_2		
- 323.5	Greenstone. Moderately sheared at 50°-60°. A few pods and seams of hematite from 320' increasing in amount with depth.							
- 325.5	Dyke material. Soft, dull mauve in colour grading to a blue-green near the contact. Contacts fine grained. Contact L - 50°.							
- 327	Sheared greenstone. Blibs of hematite common. At 326 a 1" hematite seam							
- 335	Dyke material as described above. Mauve tint pertains thruout except in contact zones. Feldspar phenocrysts and quartz grains? Developed in central portion							
- 337	Greenstone 30% replaced by orthoclase-quartz intergrowth. 25% hematite in fine seams and blibs.							
- 339.2	Sheared greenstone - probably 35% hema-tite in seams	339.2	343	85%	46.9	20.1		
		343	345	55%	40.2	21.4		
- 355.8	Hematite. Impurities consist of occasional fine quartz seams, but mainly of unreplaced orthoclase feldspar, usually finely crystalline and amounting to 10% to 30% in volume.	345	348.9	75%	52.3	15.9		
		348.9	350.5	50%	60.0	8.2		
		350.5	355.8	90%	45.5	20.3		
		345	350.6	Sludge				
		350.6	355.8	"				
		355.8	360.5	"				
- 360.0	Greenstone - occasionally sheared and/or brecciated - at 358.5' a 3" hematite seam.							
- 362	Greenstone moderately replaced by orthoclase feldspar (usually in blibs to 1 mm.) At either extremity of the section a 2" or 3" hematite vein at 70° to the core.							
- 363	Strongly sheared greenstone at 45°. Several sections 1" - 2" in length are almost entirely replaced by hematite.							
- 367	Greenstone. Shearing continues thruout by gradually weakens. Some brecciation apparent and occasional hematite veinlets.							
- 375	Greenstone 30-40% replaced by orthoclase rich veins varying from 1' to 2" in width. Degree of replacement varies from 25% to complete. A feature of these orthoclase veins is veinlet of hematite that usually forms the outer walls of the vein. Occasional fine hematite seams within the orthoclase masses.							

ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 2 PROPERTY Hannah

C.P.-10420-51

CONTINUED Page 4

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES				
		FROM	TO	REC.					
- 376	Sheared greenstone.								
- 400	Greenstone. Massive to moderately sheared. Often showing fine pink feldspar phenocrysts.								
- 405	Greenstone 25% replaced by barren quartz seams and blibs.								
	End of Hole - 405'								

ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

5.SM-22647

DIAMOND DRILL HOLE NO. 3 PROPERTY Hannah

LOCATION OF COLLAR 50 ft. south-west of base line ELEV.

AZIMUTH AT COLLAR 215° C.S.51, at 100' - 214°, at 200' - 213°, at 285' - 210°

DIP AT COLLAR 45, at 100' - 38°, at 200' - 37°, at 285' - 36°

VERTICAL SECTION NO. 51 LENGTH 300 ft. CORE SIZE AX

REC. IN MIN. ZONE. LOGGED BY. JRB STARTED. 17/2/52 FINISHED. 21/2/52

C.P.-10420-51

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES				
		FROM	TO	REC.					
0 - 30	Casing								
- 39	Greenstone. Generally dense, consistent in colour. Slight shearing at 30°.								
- 107	Primarily sedimentary material. Gray-green in colour. Bedding L varies from 0 to 35°. Moderate bedding shearing thruout. Very occasionally massive for widths up to 4 ft.								
- 115	Primarily a purple - dark blue rock. Apparently essentially sedimentary in nature - composition akin to greywacke. A few quartz-feldspar stringers and blibs present. Bedding L = 35 to 45?								
- 168	Essentially sedimentary material. Bedding angle usually somewhat flatter (20° - 40°) in the first 20 feet than in the remaining portion (40° - 60°) Colour generally dull green inclining to black for 4 feet at 132'. Bedding shearing common. Hematite seams (1"-2") at 158 and 162. The latter associated with a 2" feldspar dykelet.								
- 171	Two 8" quartz-feldspar dykelets at either end of the section. The material between them is essentially a green-stone slightly to moderately replaced by feldspar blibs and hematite stringers.								
- 179	Sheared medium-green sedimentary material.								
- 184	Dense, hard, fine grained dark-blue silicified section. Minor amounts of greenstone present. Orthoclase feldspar pods constitutes 10 - 25% of the section with smaller amounts of barren white quartz lenticles and stringers. Stringers of hematite common accompanying and surrounding the quartz-feldspar blibs.								
- 229	Sheared, medium-green rock. Primarily sedimentary in origin. Small portions show tendency to massiveness. Bedding L varies from 45° to 60°. Bedding shearing, weak to moderate thruout.								
- 234	Felsitic porphyry. As in Hole 2 from 327' - 335'. Groundmass appears to								

ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 3 PROPERTY Hannah

CONTINUED Page 2

C.P.-10420-51

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES				
		FROM	TO	REC.					
	mainly feldspar. Blue-tinted contacts absent in this hole.								
- 259'	Mainly medium-grained essentially sedimentary material. Bedding angle 50° - 60°. Bedding shearing common.								
- 273'	Small isolated patches and seams of hematite in tuffaceous material.								
- 300'	Tuffaceous material; very sparse hematite stringers. Minor quartz and pink feldspor seams.								

OFFICE OF MINING RECORDER

ONTARIO
DEPARTMENT OF MINES

SAULT STE. MARIE MINING DIVISION
SAULT STE. MARIE ONTARIO

November 21, 1952.

900

Dr. J. E. Thompson,
Department of Mines,
Parliament Buildings,
Toronto, Ontario.

Dear Sir:

I am enclosing diamond drill logs covering mining claims SSM 22646 to 48 incl., 22747, 22748, 22793, 22794, 22796, 22800. All the work was done on SSM 22647. These claims were under option by Algoma Ore Properties, and are in the Township of Deroche.

Yours very truly,

W. N. Miller,
Mining Recorder.

WNM/mm

Encl.

FROM
ONT.

Nov.24, 1952

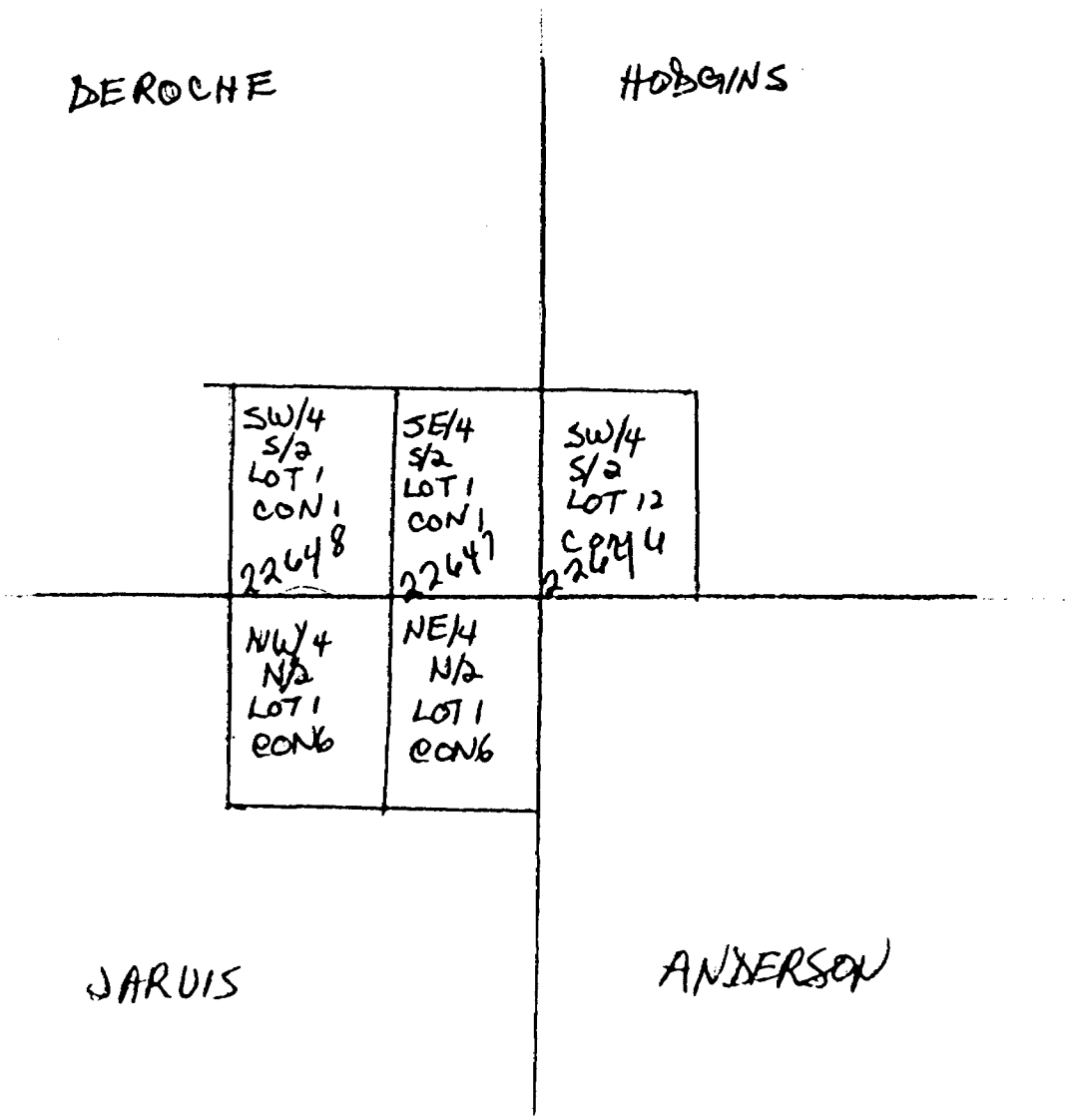
Mr. W.N.Miller,
Mining Recorder,
Sault Ste.Marie, Ontario.

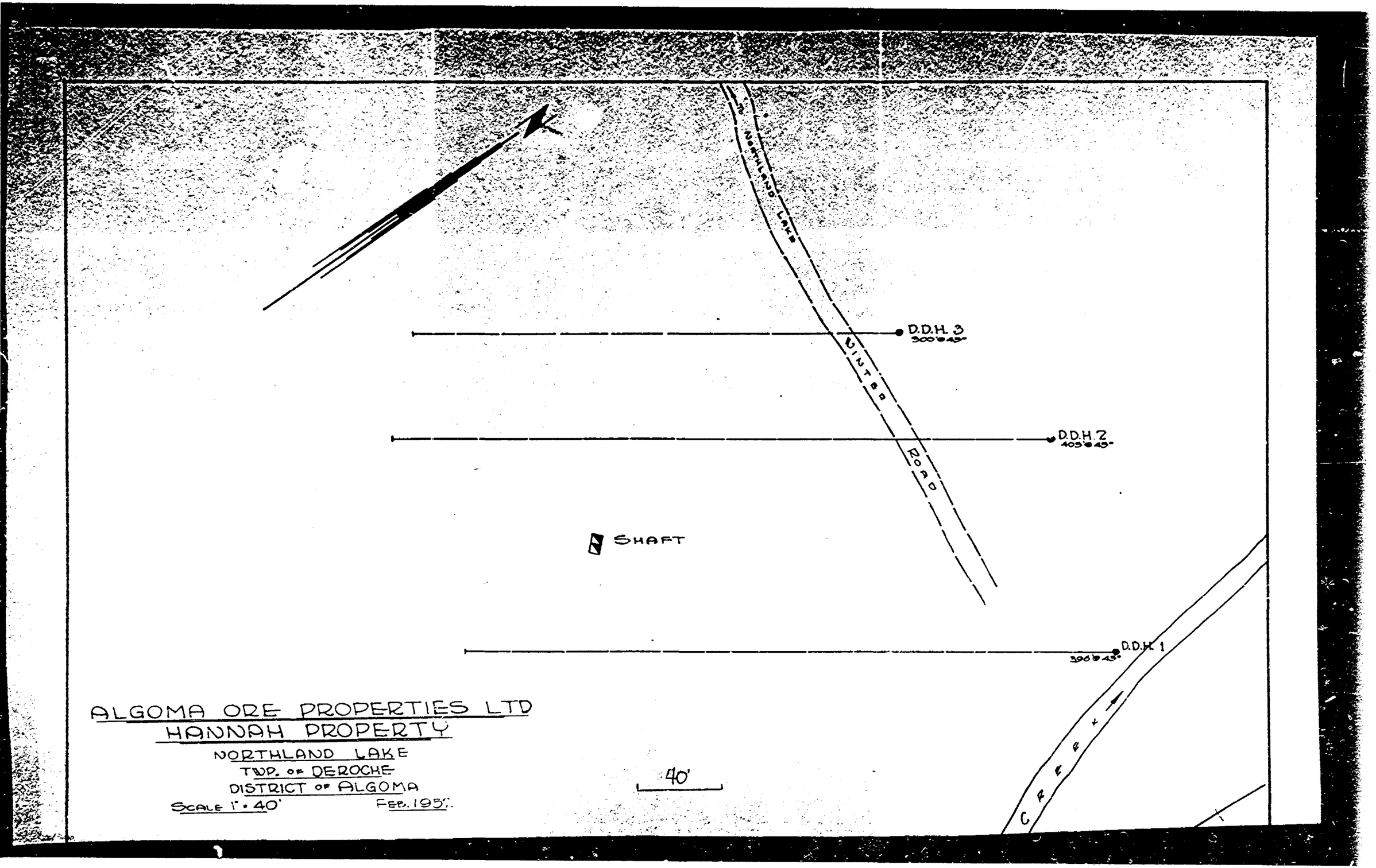
Dear Sir:

This will acknowledge receipt of your letter of November 21 and enclosed logs of diamond-drilling, submitted by Algoma Ore Properties, on mining claims in the township of Deroche.

Yours truly,

J.E. Thomson
Assistant Provincial Geologist


DEROCHE
HOBGINS
SW/4
S/2
LOT 1
CON 1
2268
SE/4
S/2
LOT 1
CON 1
2267
SW/4
S/2
LOT 12
CON 4
2264
NW/4
N/2
LOT 1
CON 6
NE/4
N/2
LOT 1
CON 6
JARVIS
ANDERSON



ALGOMA ORE PROPERTIES LTD
HANNAH PROPERTY
NORTHLAND LAKE
TWP. OF DEROCHE
DISTRICT OF ALGOMA
SCALE 1" = 40' FEB. 195%