

42G05SW0007 63.770 TALBOTT

46 Owen Boulevard Willowdale, Ontario

November 12, 1956

Dr. N. S. Beaton Consulting Engineer Northern Canada Mines Limited Room 1821 44 King Street West Toronto 1. Ontario

Dear Dr. Beaton:

Submitted herewith is a report on the exploration completed on:

BLOCK 5

EBBS and SCHOLFIELD TOWNSHIPS

Sault Ste. Marie Mining Division (Hearst - Oba Area)

Ground geophysical surveys mapped the cause of the airborne geophysical anomalies. Diamond drilling showed that a zone of disseminated pyrite and pyrrhotite was the causitive body of these anomalies. Assay results returned up to .23% copper, .01% gold and a trace of nickel.

INTRODUCTION

The claims comprising Block 5 are part of the area mapped by an airborne geophysical survey and were staked to cover the anomalies outlined on that survey. Six claims were staked and their location and dates of staking are listed below:

Staked

Sept.	6.	1956	SSM	46508	NWI	Lot 26	Con.	12	Scholfield Twp.
Sept.	5,	1956	SSM	46509	NET	Lot 26	Con.	12	Scholfield Twp.
Sept.	6,	1956	SSM	46510	nw	Lot 25	Con.	12	Scholfield Twp.
Sept.	6,	1956	SSM	46511	SW	Lot 25	on.	1	Ebbs Twp.
Sept.	6,	1956	SSM	46512	S 3/2	Lot 25	Con.	1	Ebbs Twp.
Sept.	6.	1956	SSM	46513	SWi	Lot 24	Conl	1	Ebbs Twp.

Access to these claims is via a 9 mile winter road from Hansen, Ontario on the Algoma Central Railroad.

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The ownership of these claims is vested in Northern Canada Mines Limited at Room 1821, 44 King Street West, Toronto 1, Ontario

GEOPHYSICS

Mr. A. J. Walker of Port Credit was in charge of the ground electromagnetic survey which found and outlined the cause of an electromagnetic anomaly mapped during the airborne geophysical survey. A Sharpe SE 100 electromagnetic survey unit was used and 145 stations were occupied. Dr. W. G. Wahl of Toronto carried out the magnetometer survey using a Sharpe magnetometer with a scale constant of 19.1 gammas. Ninety nine magnetometer stations were occupied. These surveys were carried out during the period of January to April 1956. Attached is a breakdown of the man days spent on the geophysical surveys.

As the diamond drill holes were drilled at an azimuth of 40 degrees to the geophysical traverse lines, the profiles shown on the attached drill sections are the results of a lateral projection of the geophysical data and should be considered as hypothetical.

DIAMOND DRILLING

Mr. K. A. Parkinson of London, Ontario supervised the drilling and logged and sampled the core. We rock exposures were found on these claims.

Diamond drilling showed that pyrite and pyrrhotite as disseminated grains and small irregular veins were found across a zone approximately 360 feet wide. Locally within this zone the sulphides comprised up to 3% by volume. This is based on a visual estimate. A maximum of .23% copper was returned in one assay of 3 foot of core from drill hole 5-2.

The host rock for the sulphides is a fine grained equigranular paragness or paraschist composed principally of quartz and biotite with a low tenor of hornblende and chlorite. Barren quartz veins up to one foot of core length are found. In certain zones (up to 15 feet in core length) hornblende is so well developed as to give a porphyroblastic texture to the rock.

All of the core is stored in a core shack constructed at the base camp located on claims SSM 52682 and 52683.

RECOMMENDATION

A total of 169 days assessment work has been completed on each claim and should be filed with the recorder

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of the Sault Sta. Marie Mining Division. No additional work should be done these claims at the present time.

All of which is respectfully submitted,

W. G. WAHL LIMITED

W. G. Wahl, P. Eng.

Welwall

46 Owen Boulevard Willowdale, Ontario

March 14, 1957



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Dr. N. S. Beaton Consulting Engineer Northern Canada Mines Limited Room 1821 44 King Street West Toronto 1, Ontario

Dear Dr. Beaton:

Submitted herewith is a report on the exploration completed on:

BLOCK 1

SCHOLFIELD and TALBOIT TOWNSHIPS

Sault Ste. Marie Kining Division (Hearst - Obs Area)

The airborne survey mapped two conductors lying on the flank of a broad, but weak, circular magnetic anomaly. Geophysical ground surveys mapped two strong conductors which for the most part had a high magnetic susceptibility. Seven diamond drill holes were drilled and the results show that the geophysical anomalies were all caused by sulphide mineralization. The best assays obtained on 25 samples were .005 gold, .10 copper and .05 nickel.

INTRODUCTION

Block 1 consists of 24 claims which were staked to cover the airborne geophysical anomalies in the northeast corner of Talbott and the northwest corner of Scholfield Townships. The following table lists the claims

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SCHOLFIELD TOWNSHIP

<u> </u>	1 - L	SCHOLFIELD TOWNSHIP													
			lain		Lo	<u>cati</u>	053	······································	Sta	ked	Assessment Work Filed				
23 11 16	7	SSM SSM SSM SSM SSM SSM	46447 - 46448 46449 46450 - 46451 46452 46454	SE SH NN NE NN SE	1/4 Let 1/4 Let 1/4 Let 1/4 Let 1/4 Let 1/4 Let 1/4 Let	34, 34, 33, 34, 34,	Con. Con. Con. Con.	10 10 10 10 10	Aug. 2 Aug. 2 Aug. 2 Aug. 2 Aug. 2	9, 1955 9, 1955 9, 1955 9, 1955 9, 1955 9, 1955 0, 1955	109 109 109 113 113 113				
1		SSM	46455	Sm	1/4 Lot	34,	Con.	11	Aug. 3	0, 1955	113				

TALBOTT TOWNSHIP

		Claim	Logation	Staked	Assessment Work Filed
23	7	99¥ 46453	NE 1/4 Lot 1, Con. 10	Aug. 29, 1955	109
u		SSM 46456	SE 1/4 Lot 1, Con. 11	Aug. 30, 1955	113
11		SSM 46457	SW 1/4 Lot 1, Con. 11	Aug. 30, 1955	109
11	İ	SSM 46458	SE 1/4 Lot 2, Con. 11	Aug. 30, 1955	109
14	7	SS¥ 46459	NE 1/4 Lot 1, Con. 11	Aug. 30, 1955	113
h		SSM 46460	NW 1/4 Lot 1, Con. 11	Aug. 30, 1955	113
μ		SSM 46461	NE 1/4 Lot 2, Con. 11	Aug. 30, 1955	109
ţ		SSM 46462	SE 1/4 Lot 1, Con. 12	Aug. 30, 1955	113
U		SSM 46463	SW 1/4 Lot 1, Con. 12	Aug. 30, 1955	109
P		SSM 46464	SE 1/4 Lot 2, Con. 12	Aug. 30, 1955	109
7.	7	SSM 46465 -	NE 1/4 Lot 1, Con. 12	Aug. 30, 1955	113
•	1	SS¥ 46466 -	NW 1/4 Lot 1, Con. 12	Aug. 30, 1955	113
1	1	9 SM 46467 -	NE 1/4 Lot 2, Con. 12	Aug. 30, 1955	113
f		SSM 49102 -	NW 1/4 Lot 2, Con. 12	Jan. 2, 1956	113
ı	•	SS¥ 49103 -	SW 1/4 Lot 2, Con. 12	Jan. 3, 1956	113
ı		SSM 491 04	NW 1/4 Lot 2, Con. 11	Jan. 3, 1956	113

These claims are recorded in the name of Northern Canada Mines Limited.

Access to this area is via a winter road from Hansen, Ontario on the Algoma Central Railroad.

GEOPHYSICS

An airborne magnetometer, electro-magnetic and sintillometer survey was flown in July, 1955. Over this block of claims 2 EM conductors were mapped on the flank of a broad, but weak, circular magnetic anomaly.

A small amount of radioactivity was found in the vicinity of the two anomalies.

The 2 EM anomalies trend north and appear as a flexure on the regional trend of the other conductors in this area. The ratio between the high and low frequencies on the southern conductor is 1.0 and was mapped on a single flight line. The ratios of the frequencies on the north anomaly are from 0.46 to 0.66 and were mapped on three flight lines. The airborne magnetic data show the same flexure in the regional trend. The magnetometer map shows the conductors to be on the flank of a large broad anomaly. It also mapped small magnetic anomalies directly over the EM conductor. The airborne sintillometer data appears to be of little value but the above background readings were coincident with the EM and magnetometer anomalies.

A ground EM survey employing a Sharpe electro-magnetic survey unit located the conductors on the ground. The area surrounding the EM conductors was mapped by a Watt's vertical force magnetometer with a scale constant of 29.1 gammas per division. A resistivity survey was completed over part of the south sheet only and was discontinued as the survey did not add appreciable data to the interpretation of the underlying geology.

A 17 mile grid system employing 3 base lines and associated picket lines was established to cover these claims. During the winter of 1955-1956 there were 696 EM stations, 653 magnetometer stations and 425 resistivity

stations occupied.

For ease of presentation the area covered by the ground geophysical surveys was divided into the north and south sheets.

The ground EM survey mapped one strong conductor 6400 feet in length on the south sheet. This conductor is sinuous, striking N 10° E at the south end, N 25° N in the central part and east-west at the north end. The "cross-overs" are quite strong being up to 51° between 100 foot stations but would average near 20° between 100 foot stations. Three small, weak conductors were mapped alsowhere on the south sheet and appear to be of little interest.

On the north EM sheet 3 strong conductors with an aggregate length of 5000 feet were mapped. These conductors may represent a single conductor offset by faulting. The "cross-overs" are quite strong, averaging about 25° between 100 stations over the southern conductor and 5° between 100 stations over the northern conductor.

The ground magnetometer survey confirms the location of the EM conductors and shows that these conductors, over most of their length, have a relatively high magnetic susceptibility indicating that sulphide rich sones with a high tenor of pyrrhotite may be the causitive bodies of the various geophysical anomalies. The intensity of the magnetic anomalies differs along the strike of the anomalies indicating changes in the concentration of high susceptibility material. Diamond drilling confirmed this supposition. The magnetic anomalies on the south sheet have a length equal to the EM conductors and indicate that the width of the causitive body seldom exceeds 150 feet with an average of approximately 100 feet.

On the north sheet there is agreement only in part between the EM and the magnetometer data. The trends of the two geophysical data are more or less parallel but only in six instances are the two data coincident. This is probably due to the differing tenor of pyrrhotite within the caustive body.

The resistivity survey was completed over the south sheet only and confirmed the location on the ground of several of the E% conductors. This survey mapped an area of very low resistance in the central part of the south sheet directly beneath the conductor mapped by the airborne E%. It is felt that in this instance that the resistivity anomaly is caused by a flat lying, near surface body such as a clay horizon in the overburden and that the airborne E% anomaly as contoured is also caused by this flat lying body. In the lower part of the south map sheet the resistivity low, the E% conductor and the magnetometer anomaly are coincident. Although the resistivity survey mapped the E% conductors, this method was discontinued as it added no new diagnostic information concerning the conductor and it did not map the location of the airborne conductor as well as the ground electro-magnetic surveys.

GEOLOGY

All of the claim lines and picket lines were traversed during the geological survey. Most of the area is low lying and is covered by a black spruce swamp. Quarts, biotite paragneiss was the only rock mapped except for one exposure of diorite in claim SSM 46460. Because of the pausity of exposures little information was gathered as to the bedrock structure or of the type of rocks underlying these claims.

seven diamond drill holes were drilled to check the geophysical anomalies. This drilling showed that the causitive bodies were sulphide rich somes consisting of pyrite and pyrrhotite. Drill hole #1 had an intersection of 122.4 feet of 1% sulphides including an 18 foot section of 5% pyrite. Hole #2 had a 50 foot section of 40% sulphides with sulphides up to 10% being found in a total of 237 feet of core. Hole #3 had a 184 foot section of pyrite and pyrrhotite whose tenor varied from 1% to 15% of the core. Sulphides up to 6% were found for 275 feet in hole #4. Hole #5 had a 70 foot section of sulphides and was stopped as it was apparent that the hole was being drilled down dip. Hole #6 had a 3 foot section of 20% pyrrhotite. Hole #7 had a 19 foot section of 10% sulphides, followed by a 29 foot section of 20% sulphides and after a gap of 12 feet there was a 90 foot section of 30% sulphides.

The core is stored in a core shack at the base camp in the southwest corner of claim SSE 52683 in Lot 26, Con. 8, Scholfield Township.

The best individual assays returned on 25 samples were .005 gold, .10 copper and .05 nickel.

The diamond drilling and all geophysical surveys have been filed as assessment work.

All of which is respectfully submitted.

N. G. WANL LIMITED

W. G. Wahl, P. Eng.

Welwall



42G05SW0007 63.770 TALBOTT

46 Owen Boulevard Willowdale. Ontario

March 15, 1957

Dr. W. J. Beston Consulting Engineer Rorthern Canada Mines Limited Room 1821 44 King Street West Toronto 1. Cotario

Dear Br. Beaton:

submitted herewith is a raport on the exploration completed on:

ELCCE 6

ARBS TOWNSHIP

Sault Ste. Marie Fining Division (Mearst - Obs Area)

by the 9 claims of Block 6. Cround geophysical surveys mapped a single strong Ek conductor shich has a high magnetic susceptibility. Mawond drilling showed that the causitive body was a collected rich some up to 77 feet wide with a high tenor of pyrchotite. Assaying of 3 mamples returned nil gold, up to a trace of copper and up to .03 nickel.

INTHODUCTION

The airborne geophysical survey mapped a strong, narrow electromagnetic conductor superimposed on a magnetic anomaly.

Nine claims were staked to cover these anomalies and are recorded in the name of Northern Canada Mines Limited. These claims are located in Ebbs Township, Sault Ste. Marie Mining Division. The following table lists

J. J	Clair	Location	isecorded	Assessment Work Filed		
12	35 0 4 84 99	NE 1/4 Lot 25, Con. 2	Sept. 27, 1955	72.1 days		
12	35k 46500	NW 1/4 Lot 24, Con. 2	Sept. 27, 1955	72.1 days		
	53W 46501	SE 1/4 Lot 25, Con. 3	Sept. 27, 1955	72.1 days		
Ś	33x 46502	SW 1/4 Lot 24, Con. 3	Sept. 27, 1955	72.1 days		
8	35¥ 46503	SE 1/4 Lot 24, Con. 3	Sept. 27, 1955	72.1 days		
ૄૻ	3SN 46504	58 1/4 Lot 23, Con. 3	Sept. 27, 1955	72.1 days		
શ્ર	SSM 46505	SE 1/4 Lot 23, Con. 3	Sept. 27, 1955	72.1 days		
12	33M 46506	NE 1/4 Lot 24, Con. 2	Sept. 27, 1955	72.1 days		
12	55M 46507	Na 1/4 Lot 23, Con. 2	Sept. 27, 1955	72.1 days		

Access to these claims is via a winter road from Hansen on the Algoma Central Railroad.

OROFHYSICS

The airborne geophysical survey was performed during July, 1955 and over the claims in Block 6 mapped a narrow EM anomaly 2 miles long. Along this anomaly and on two adjacent flight lines the ratio between the high and low frequencies were 1.50 and 1.33, indicating a relatively good conductor. This magnetic anomaly trends east-west and is terminated at its east end by a strong anomaly trending N 30° %. The airborne data show that all of the basement rocks to the northeast of Block 6 trend N 30° % and those to the southwest of this block trend northeast to east. Block 6 lies on the line which marks the abrupt change in the strike of the basement rock.

During the period between January and April, 1956 a grid system consisting of 5.5 miles of base and picket lines was established. An electro-magnetic survey employing a Sharpe electro-magnetic survey unit and a magnetometer survey using a Sharpe magnetometer with 19.1 gammas per scale division were made.

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During the EM survey 190 stations were cocupied and the data, when compiled, indicated a single strong, narrow conductor at least 3200 feet long. The "cross-overs" would average about 30° between 100 foot stations and 40° between 300 foot stations. The ground EM conductor parallels the trend of the airborne anomaly, but is displaced some 700 feet south of the airborne anomaly.

The ground magnetemeter occupied 105 stations and mapped a narrow anomaly more than 3200 feet long superimposed on the EM conductor. The magnetometer data indicated that the causitive body was near surface, not more than 75 feet wide, and that the tenor of high susceptibility material would differ along the strike of the anomaly. These two surveys indicated that the causitive body would probably be a sulphide some with a high tenor of pyrrhotite. Diamond drilling confirmed this interpretation.

GEOLOGY

all of the claim and picket lines were traversed during August, 22 and 23, but no exposures were seen. This area is, for the most part, a low lying, black spruce sweep. A small sand ridge trends east-west through the southern claims.

DIANOND DRILLING

Two holes were spotted to test the geophysical anomalies. Both holes were drilled at 45° at an esimuth of 180° and reached a depth of 257 feet. Stringers, veins and small masses of sulphides constituting up to 40% of the core were found to be the cause of the geophysical anomalies. In hole #6-1 the sulphides had a drill intersection of 77.5 feet and in hole #6-2 an intersection of 28.5 feet. Pyrite and pyrrhotite were the only two sulphides identified. The results of chemical assaying showed, nil gold,

trace of copper and .03 nickel.

The core is stored in a core shack in the southwest corner of claim SSM 52683 in Lot 26, Con. 8, Scholfield Township.

The diamond drilling and the geophysical and geological surveys have been filed as assessment work.

All of which is respectfully submitted.

W. G. WAHL LIETED

W. G. Wahl, P. Eng.

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46 Owen Boulevard Billowdale. Ontario

Warch 19, 1957

br. M. S. Beaton Consulting Engineer Northern Canada Mines Limited Room 1821 44 King Street West Toronto 1, Ontario

Dear Dr. Beston:

Submitted herewith are the results of the exploration completed on:

BLOCK 4

ERES TOWNSHIP

Sault Ste. Marie Mining Division (Hearst - Obs Area)

The airborne survey mapped a strong magnetic anomaly and a relatively good EE conductor over the claims in Block 4. Ground surveys showed that
the airborne anomalies are the resolution of at least 3 causitive bodies.
Diamond drilling results indicated that the causes of the geophysical anomalies are sulphide rich somes. Chemical and spectographic assays returned no results of any value.

INTRODUCTION

Seventeen claims were staked to cover a promising airborne, electro-magnetic and magnetometer anomaly over south-central Ebbs Township. The ownership of these claims is vested in Northern Canada Mines Limited. The table on the following page lists the location and other pertinent data concerning this block of claims:

	Läik	ni-himina andre			ocat Bes	ION		RECORUED	ASSESSMENT WORK FILED
SSN	46482	NA	1/4	Lot	22.	Con.	1	Sept. 27, 1955	145.3 days
	46783		• .		-	Con.		Sept. 27, 1955	145.3 days
35k	46484					Con.		Sept. 27, 1955	145.3 days
	46485		• .		•	Con.		Sept. 27, 1955	145.3 days
	46486				-	Con.		Sept. 27, 1955	145.3 days
	46487		•			Con.		Sept. 27, 1955	145.3 days
532	46488					Con.		Sept. 27, 1955	145.3 days
555	46439				-	Con.		Sept. 27, 1955	145.3 days
354	46490					Con.		Sept. 27, 1955	145.3 deys
	46491					Con.		Sept. 27, 1955	145.3 days
	46492					Con.		Sept. 27, 1955	145.3 days
	46493					Con.		Sept. 27, 1955	145.3 days
فاذذ	46494		•		_	Con.		Sept. 27, 1955	145.3 days
الأذك	46495					Jen.		Sept. 27, 1955	145.3 days
	46496					Con.		Sept. 27, 1955	145.3 days
	46497					Con.		Sept. 27, 1955	145.3 days
	46498					Con.		Sept. 27, 1955	145.3 days

Access to Block 4 is via a winter road from Hansen, Ontario on the Algoma Central Hailroad.

GEOPHYSICS

The airborne magnetometer aspped a relatively strong anomaly transverse to the regional trend in the southern part of Ebbs Township. This anomaly is about 1 and 1/2 miles long and its peak value is 275 gammas above
the regional level. This value, although small, is quite intense for this
area. A relatively strong electro-magnetic anomaly was mapped over the same
area. The conductor has a ratio of up to 3.0 between the high and low frequencies. The airborne Em data indicated that the conductor on Block 5 is
possibly an extension of the conductor found on Block 4.

A grid system consisting of 12.3 miles of base and picket lines was established to control the electro-magnetic, magnetometer and geological surveys.

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A Sharpe vertical-loop electro-magnetic survey unit, a Sharpe vertical-balance magnetometer with a scale constant of 19.1 gammas per scale division and a Watt vertical-balance magnetometer with a scale constant of 29.0 gammas per scale division were used on the geophysical surveys. There were 330 electro-magnetic stations and 341 magnetometer stations occupied during these surveys.

The ground EM survey mapped 3 strong conductors with a maximum "cross-over" of 60° between 100 foot stations and 56° between 300 foot stations. These conductors trend M 45° E and are more or less parallel. The southern conductor is more than 6800 feet long, the middle conductor is approximately 3600 feet long and the northern conductor is more than 2800 feet long.

The magnetometer survey showed that the conductors have a high magnetic susceptibility over most of their length. The peak of the magnetic values differs along the trend of the anomaly indicating a change in the tenor of high susceptibility material within the causitive bodies. The length of the magnetic trends is comparable to the length of the EM conductors. The magnetometer data indicated that the causitive body is near surface and up to 100 feet wide.

GLOLOGY

quarts, blotite paragnelss is the only rock type exposed and these exposures are limited to a north-east trending ridge approximately 300 feet southeast of the base line. The remainder of the area is covered by a black apruce swamp.

July

DELLLING

The 5 diamond drill holes showed that sulphide somes are the cause of the geophysical anomalies. Brill hole #1 has a drill intersection of 117 feet of material averaging 40% pyrrhotite and 10% pyrite. Sulphides are found for a total length of 309 feet. In drill hole #2 sulphides are found continuously for 473 feet of core. Sulphides comprise more than 20% of the core from 405 to 465 feet. In drill hole #3 sulphides are found in 392 feet of core of which 105 feet has approximately 1% pyrite and 2% pyrrhotite.

Drill hole #4 has sulphides throughout 390 feet of core with a 32 foot section of massive sulphides made up of 30% pyrite and 60% pyrrhotite. Drill hole #5 was spotted to intersect a weak conductor over which there was no related magnetic anomaly. Flecks of pyrrhotite and a few veins of pyrite are intersected in the drill hole.

The host rock for the mineralization in Block 4 is a medium grained, quarts paragness with a low tenor of biotite and sericite. Some hornblends and garnet rich paragnesses and almost pure quartrite are found in association with the quarts paragnesse. The foliation in these rocks dips steeply northwest and strikes northeast.

Assaying of 22 samples returned results of up to nil gold, .17 copper and .08 nickel. A spectographic assay of a composite sample across the massive sulphide some in drill hole #4 showed that the material carried no metal of value.

The core is stored in a core shack in the southwest corner of claim 55% 52663 in Lot 26, Con. 8, Scholfield Township.

The diamond drilling and the geophysical and geological surveys

have been filed as assessment work.

All of which is respectfully submitted.

W. G. WAHL LIWITED

W. G. Wahl, P. Eng.

Welwahl

FORM NO. 1.42-811-P REPORT PAPER - GRAND & TOY LIMITED

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46 Owen Boulevard Willowdale, Ontario

March 21, 1957

Dr. N. S. Beaton Consulting Engineer Northern Canada Wines Limited Room 1821 44 King Street West Toronto 1. Ontario

Dear Dr. Beaton:

Submitted herewith is a report on the exploration completed on:

BLOCK 2

TALBOTT TOWNSHIP

Sault Ste. Marie Mining Division (Hearst - Obs Area)

Eight claims were staked to cover 2 airborne EM anomalies. Ground geophysical surveys mapped 2 strong conductors which had a relatively high magnetic susceptibility. Diamond drilling showed that the causitive bodies of the geophysical anomalies are sulphide zones. Assaying returned no metal values of interest except for a 4 inch sample which returned 1.25% zinc.

INTROLUCTION

The relatively good airborne EE anomalies in the east-central part of Talbott Township were covered by 8 claims. These claims are recorded in the name of Northern Canada Eines Limited and are listed with other relevant data on the following page:

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CLAIM	LOCATION TALBOTT TWP.	RECORDED	ASSESSMENT WORK FILED		
SSM 46468	SW 1/4 Lot 5, Con. 7	Sept. 27, 1955	115 days		
SSM 46469	SE 1/4 Lot 5, Con. 7	Sept. 27, 1955	115 days		
SSM 46470	SW 1/4 Lot 4, Con. 7	Sept. 27, 1955	115 days		
SSM 46471	SE 1/4 Lot 4, Con. 7	Sept. 27, 1955	115 days		
SSM 46472	NW 1/4 Lot 5, Con. 6	Sept. 27, 1955	115 days		
SSM 46473	NE 1/4 Lot 5, Con. 6	Sept. 27, 1955	115 days		
SSM 46474	NW 1/4 Lot 4, Con. 6	Sept. 27, 1955	115 days		
SSM 46475	NE 1/4 Lot 4, Con. 6	Sept. 27, 1955	115 days		

Access to this area is via a winter road from the Algoma Central Railroad at Hansen, Ontario.

GEOPHYSICS

The airborne survey mapped 2 conductors over this block of claims, one of which is 1 mile long and has a ratio of 1.0 and 1.5 between the high and low frequencies. The other is 1/4 of a mile long with a ratio of .80 and is about 1/2 a mile north of the first conductor. The larger conductor lies on the north flank of an airborne magnetic anomaly trending N 70° E. These anomalies are terminated just east of the claim by a N 30° W magnetic trend. The conductor mapped over the claims in Block 3 is also related to the magnetic anomaly which trends N 30° W.

Six and three tenths miles of base and picket lines were established to control the geophysical and geological surveys. The instruments used on these surveys were the Sharpe vertical-loop electro-magnetic survey unit and a Sharpe vertical-balance magnetometer with a scale constant of 19.1 and 23.0 gammas per scale division. There were 192 magnetometer and 225 electro-magnetic stations occupied during the geophysical surveys.

The elctro-magnetic survey was started by K. A. Parkinson and

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finished by A. B. Fleming. Mr. Fleming's map is attached which shows 2 strong, parallel conductors more than 2800 feet long trending N 70° E. These conductors have a maximum "cross-over" of 66° between 100 foot stations and 54° between 300 foot stations. The drill holes shown on the EM were suggested by Fleming to test the conductors. The exact location of the drill holes completed on this block of claims are shown on the geological map.

The magnetometer mapped 2 anomalies trending N 70° E and one anomaly trending N 45° W. The northern magnetic anomaly is superimposed on the EM conductor whereas the southern EM conductor lies on the north flank of a positive magnetic trend. No EM conductor was found to be associated with the northwest trending magnetic anomaly and it is believed that this anomaly is caused by a dyke.

GEOLOGY

All of the claim and picket lines were traversed during the geological survey. The eastern claims are on high ground which has been recently cut over and burned. The western claims are covered by a cedar swamp. The rocks exposed strike N 70° E and dip steeply to the south and consist of medium-grained quartz paragneiss with hornblende, biotite and sericite as accessory minerals. Ywo exposures of unaltered igneous rocks, a diorite and diabase, were mapped.

DIAMOND DRILLING

Three diamond drill holes were drilled to test the geophysical anomalies. Drill hole #1 intersects 11 feet containing an estimated 10% sulphides, but was stopped as the hole was being drilled down dip. Drill hole

#3, on the same section as hole #1, has sulphide mineralization throughout its entire length of 342 feet. In hole #3 sulphides constitute 60% of the core from 67 to 83 feet (16 feet) and 30% of the core from 223 - 265 feet (42 feet). Sphalerite as 3/4 inch masses and making up 10% of the core is found from 288 to 288.4 feet. No other metallic sulphides except pyrite and pyrrhotite were identified. Drill hole #2 encounters sulphide mineralization from 129.0 to 245.1 feet (116.1 feet) with 2 zones of massive sulphides from 129.0 to 131.5 feet (2.5 feet of 90% sulphides) and from 150 to 153 feet (3 feet of 90% sulphides). From 153.0 to 161.5 feet (8.5 feet) sulphides with an estimated tenor of 40% are found. The host rock is a quartz paragneiss with differing amounts of biotite, sericite, hornblende and actinolite. A diabase dyke with a drill hole intersection of 12 feet and a diorite dyke with an intersection of 10 feet are found in the core from hole #2.

Chemical assaying of 10 samples returned up to nil gold, .1% copper, .08% nickel and 1.25% zinc. Two spectographic assays showed no metal values of interest.

The core is stored in a core shack in the southwest corner of claim SSM 52683 in Lot 26, Con. 8, Scholfield Township.

All geophysical and geological surveys and the diamond drilling has been filed as assessment work.

All of which is respectfully submitted.

W. G. WAHL LIMITED

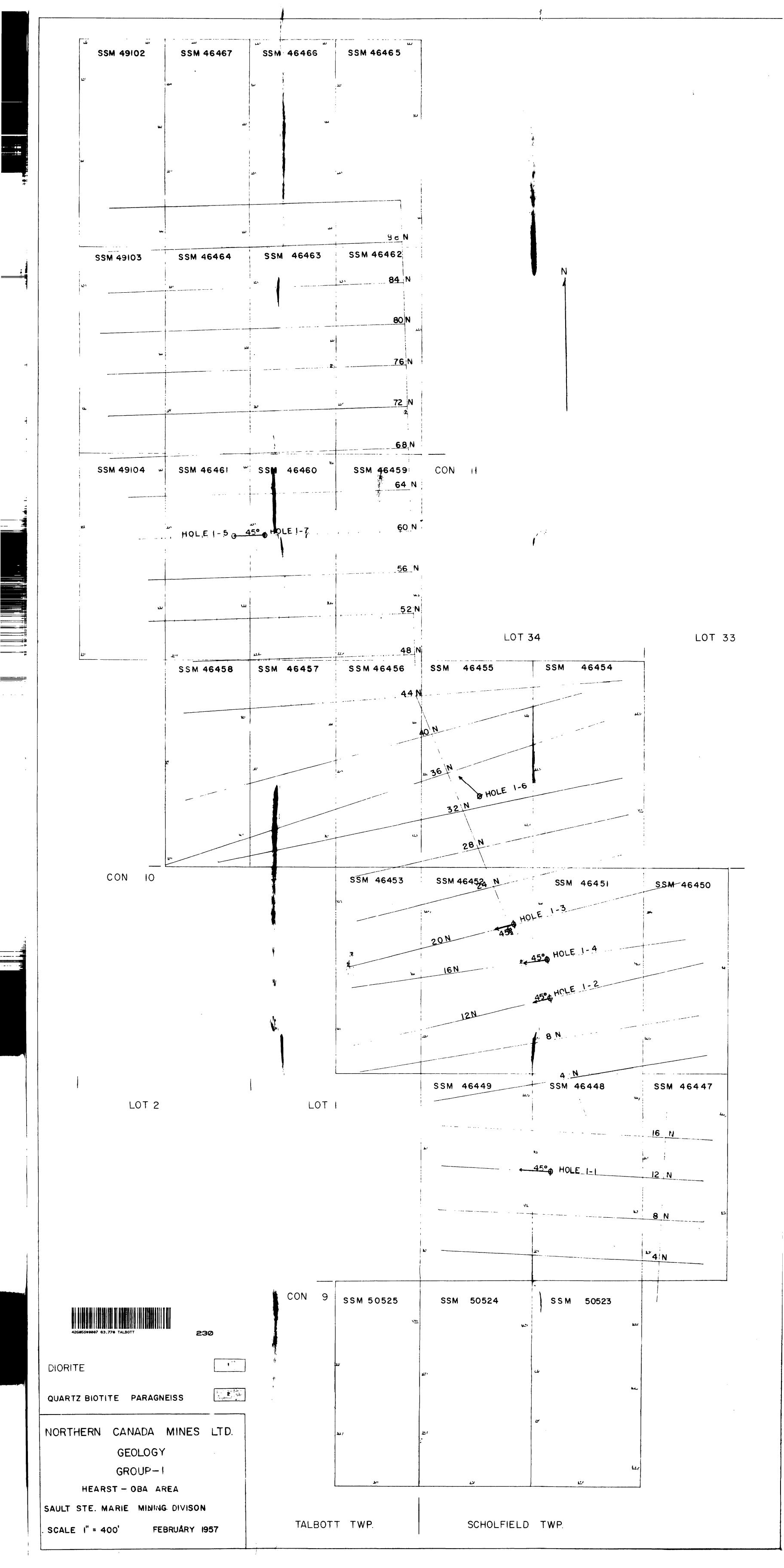
W. G. Wahl. P. Eng.

Cuy Wall

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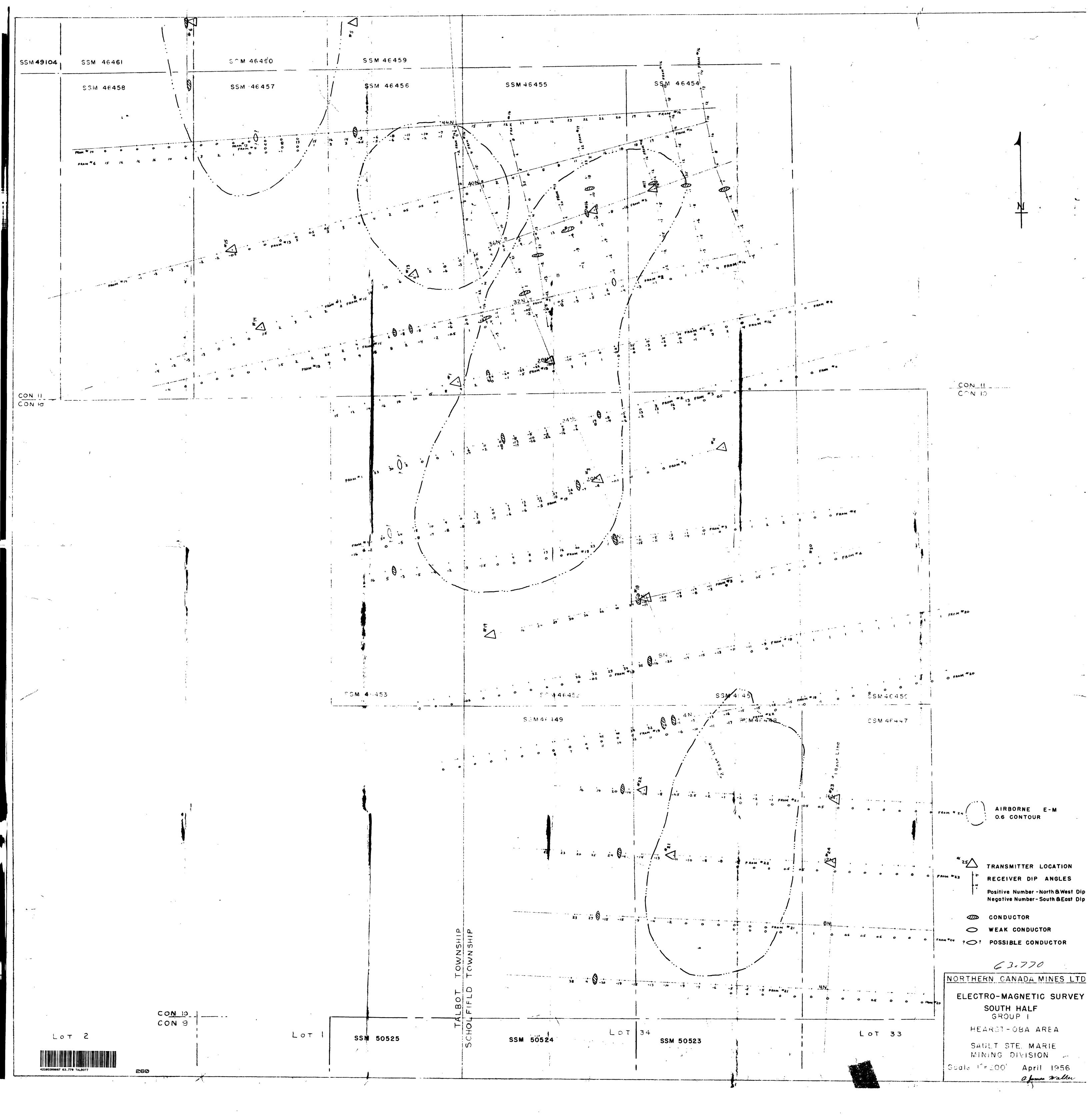
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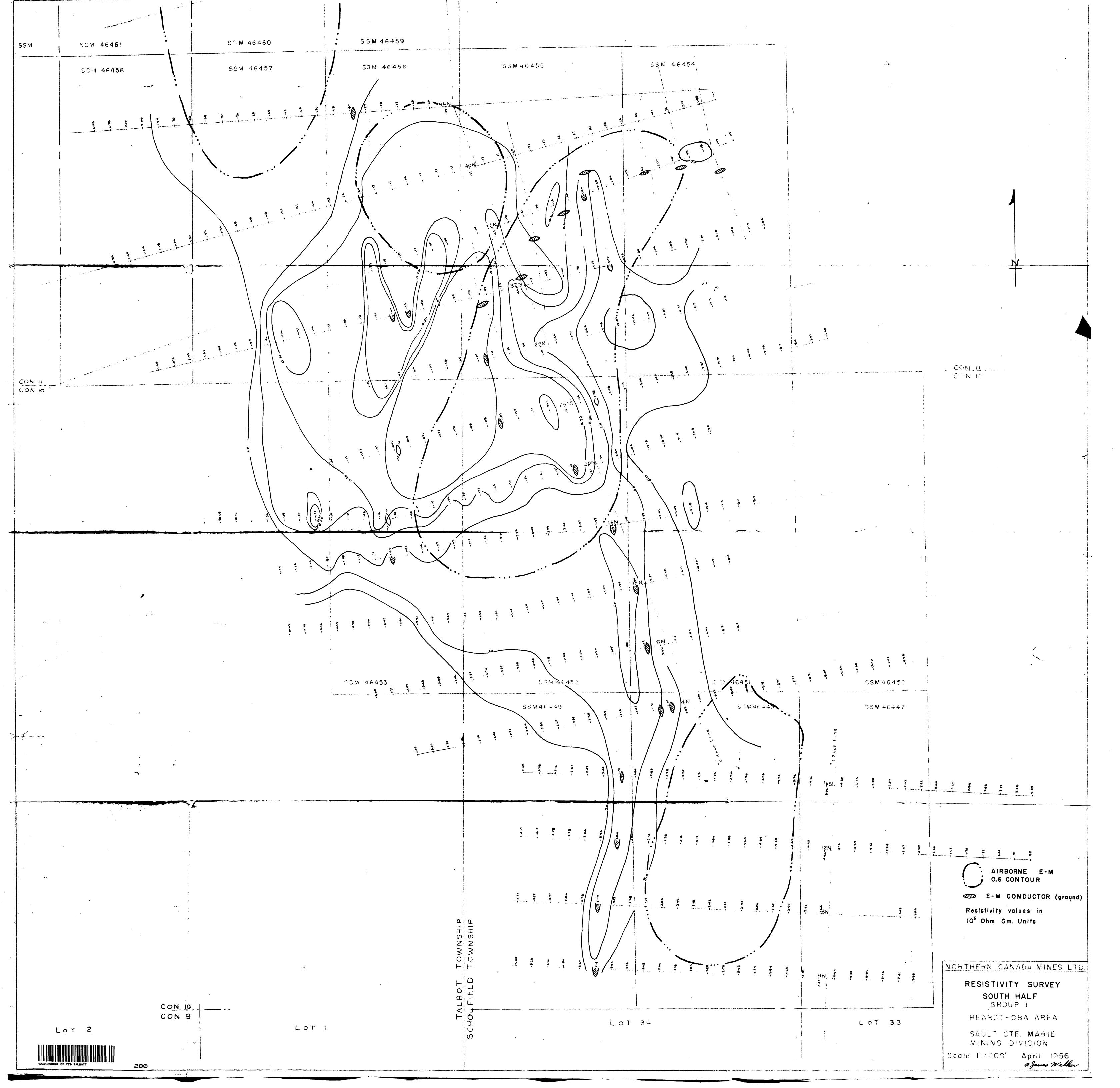


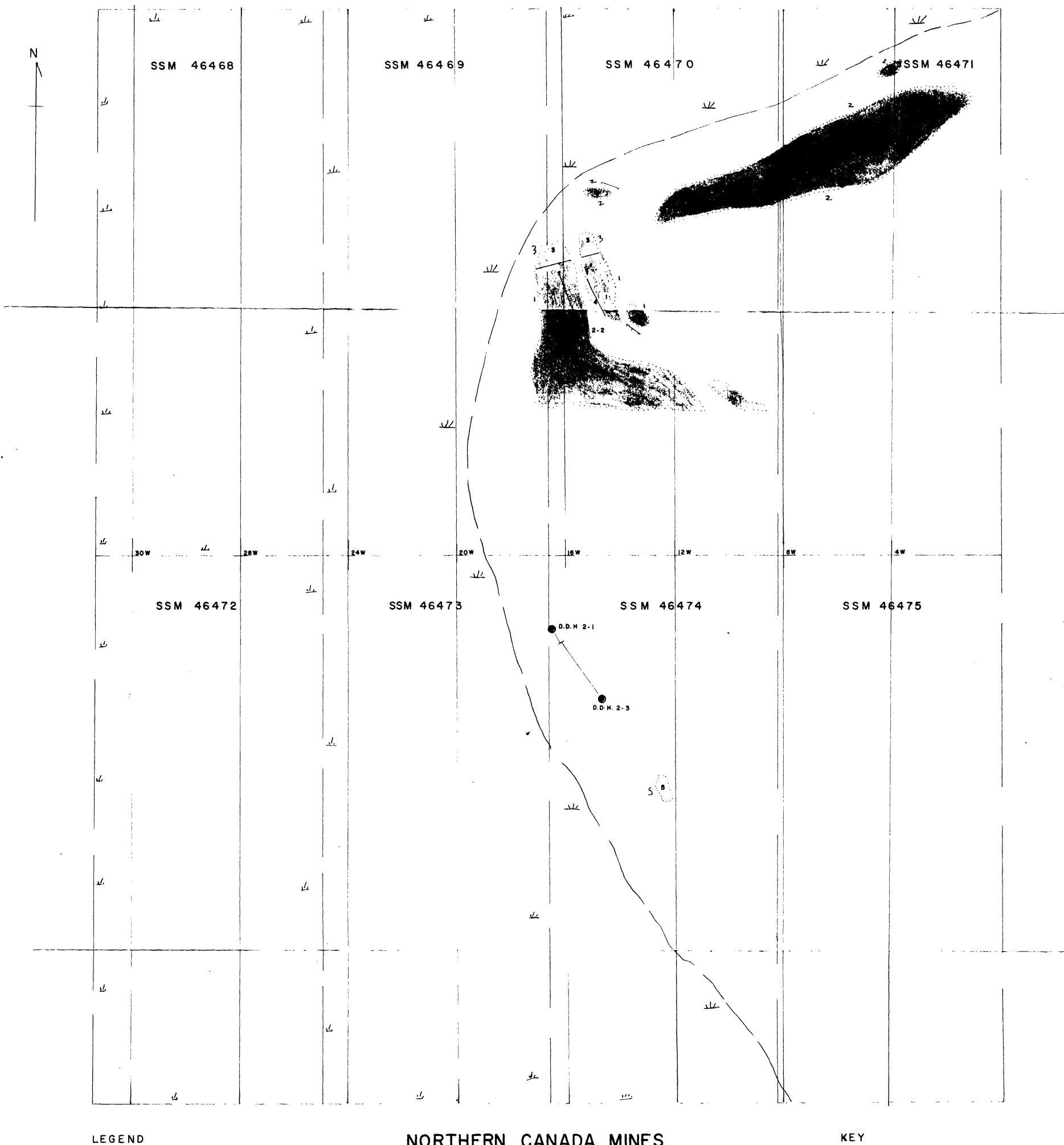
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SW0007 63.7								a James Walker







Paragneiss, quartz, biotite Paragneiss, quartz, sericite Paragneiss, quartz, hornblende

Diabase dike. Diorite dike.

NORTHERN CANADA MINES BLOCK 2

TALBOTT TOWNSHIP DISTRICT ALGOMA GEOLOGICAL MAP

> SCALE |"=200" OCTOBER 1956

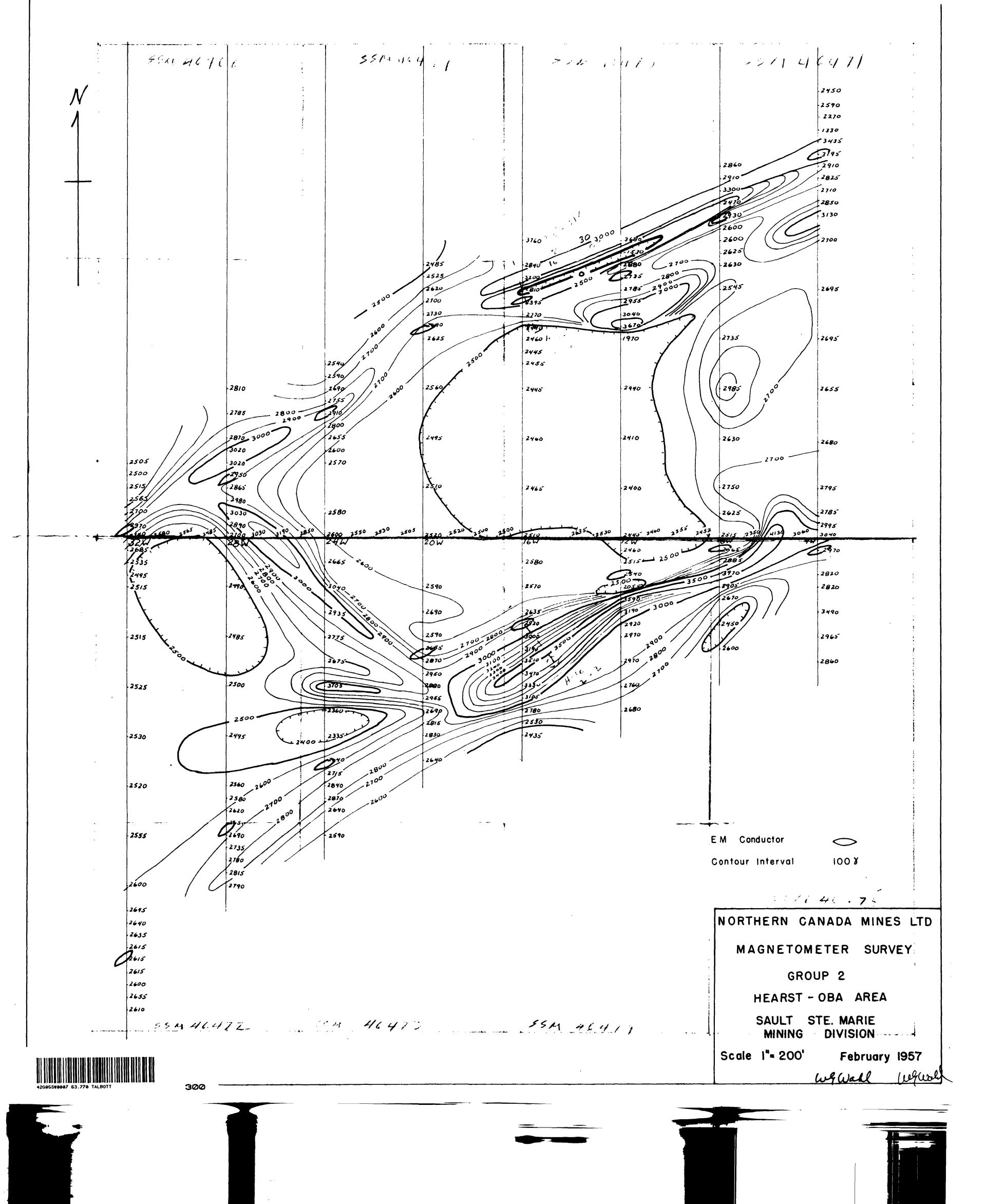
₩ Swamp

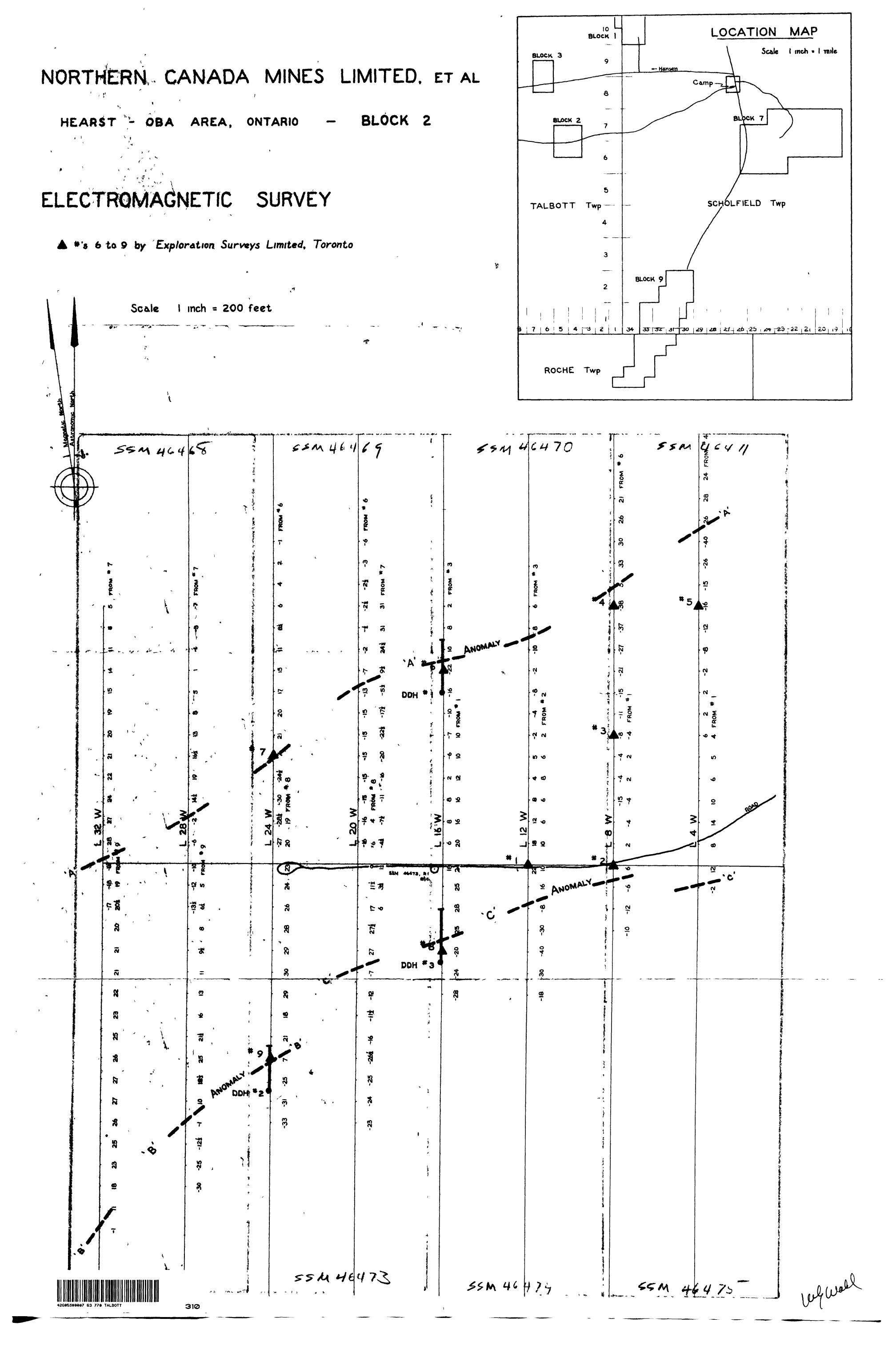
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290





LOT 21 LOT 20 LOT 19 . LOT 22 SSM 46493 35M 46492 SSM 46494 SSM 46496 SSM 46491 SSM 46490 SSM 46488 & SSM 46489 SSM 46487 SSM 46485 SSM CON 2 EBBS TWP. The state of the s QUARTZ BIOTITE PARAGNEISS NORTHERN CANADA MINES LTD. GEOLOGY GROUP 4 HEARST-OBA AREA SSM 46482 SSM 46483 SAULT STE. MARIE MINING DIVISON FEBRUARY 1957 SCALE | = 400' 320

