NOV 6 1973

PROJECTS SECTION

010

GEOPHYSICAL SURVEYS, HANNA TOWNSHIP

CLAIM GROUP 72

TIMMINS AREA

PORCUPINE MINING DIVISION, ONTARIO

Toronto, Ontario November 2, 1973

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INTRODUCTION

Work is submitted for claims P-362940, P-362943 and P-262944 of claim group 72, Hanna Township, Ontario. These claims are held "in trust" by Duncan R. Derry Limited, 401 Bay Street, Toronto, Ontario.

Ground geophysical surveys were carried out during January and February of 1973 over areas of interest as indicated by a Turair airborne survey flown in 1972 by Seigel Associates on behalf of the Deepex Joint Venture. Scintrex Surveys Ltd. conducted the ground magnetic, electromagnetic and gravimetric surveys.

LOCATION AND ACCESS (See Location Map attached)

The claims are located in the west half of lot 4 and the east half of lot 5, Concession II, Hanna Township, Porcupine Mining Division, approximately 10 miles southeast of Cochrane.

The property may be reached by road from Cochrane (Hwy. 11) to a point near the north end of Warrick Lake, hence on foot by bush trail for about one mile.

GEOLOGY (Ref. ODM Map p.2205)

The area is believed to be largely underlain by undifferentiated metavolcanics of Early Precambrian age. Drilling by others, about 1/2 mile to the west, intersected gabbro and peridotite with some mafic to intermediate volcanics, metasediments and weak sulfide mineralization. Assumed faults trend southeast-northwest across the claims, and the western contact of an extensive felsic intrusive body occurs near the northeast corner of the claim group. There is no known outcrop on the claims.

PREVIOUS WORK

In 1972, Turair airborne surveys were flown over claim group 72 by Seigel Associates on behalf of the Deepex Joint Venture. Cromarty Explorations, some years previously, carried out ground geophysics and diamond drilled five holes on claims located one-half mile due west of the Deepex claims. Minor sulphide mineralization and 160 vertical feet of overburden were reported in the drill hole.



SURVEYS

A grid of 3 line miles was cut with line spacing at 400 foot intervals from a base line 1,600 feet long cut at N146°E. This grid was used for subsequent geophysical surveys.

The geophysical surveys were conducted by Scintrex Surveys Ltd. on behalf of the Deepex Joint Venture. A Scintrex MF-2 vertical intensity Fluxgate type magnetometer, a Scintrex CG-2 gravity meter and a Scintrex SE-71 three frequency Turam unit were used (refer to attached sheets "Instrument Specifications"). The Turam survey utilized a fixed source transmitter consisting of a horizontal 2,000 foot x 2,000 foot wire loop situated southwest of the base line, and two mobile receivers, each a wound wire coil, separated by 100 feet of cable.

Magnetometer and Turam readings were taken at 100 foot intervals along each grid line. Out of a total of 130 magnetic and 110 electromagnetic readings, 89 and 86 respectively, were taken within claims P-362940, P-362943 and P-362944. A base station at BL-0 was used after completion of each profile, to check diurnal variation.

On the basis of Turam and magnetometer results, a gravity survey was conducted over lines 12NW and 8NW. A total of 29 readings were taken at 100 foot intervals along the two lines; of these, 10 were within the boundaries of claim P-362940.

RESULTS AND CONCLUSIONS

In a report by Scintrex Surveys Ltd. to Duncan R. Derry Limited, dated June 1973, the survey results are given as follows:

"The Turair conductor occurs on three lines with only one peak being sufficiently well defined to permit quantitative evaluation. This intercept (B 151) shows moderate conductivity-width and suggests that the current axis may be as deep as 350 feet subsurface. The zone is underlain by metavolcanics and three drill holes about 3/4 miles to the west by McIntyre Porcupine revealed sulphides with some Cu, Zn, Ag and Ni.

The groundgrid consisted of five lines turned off from a base line, the latter cut in a N146°E direction.



The Turam results show strong background distortions of 15% FSR and $8^{\circ}\triangle$ phase in the SW part of the grid most likely reflecting conductive horizons within the overburden.

Two somewhat stronger bands (marked A1, A2, and B1, B2) are marked on plate 20E. Zone B1-B2:32% FSR and 16°△ phase corresponds to conductivity-widths from 4-5 mhos. The depth to the current axis does not exceed 200'.

The conductors are conformable with magnetic lows and therefore, gravity traverses were suggested over a part of zone B1-B2.

The magnetic results show a moderate relief of 200 gammas with a general E-W strike. The magnetic gradients suggest depths of 200 feet and over.

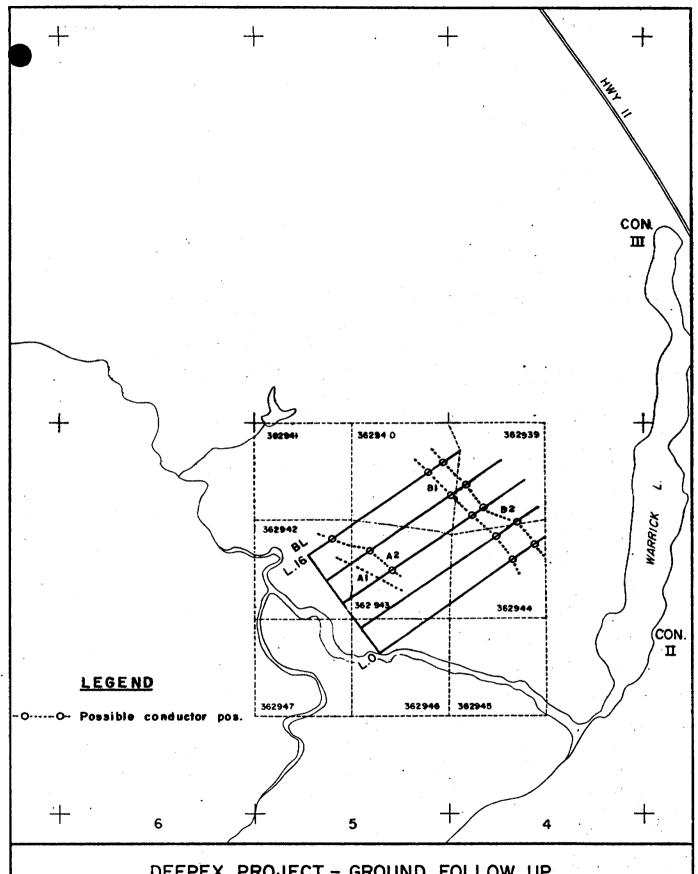
The gravity results show a gradient to the NE of approximately .2 mgal/100 feet. Superimposed on this are lows of .7 and .8 mgals coinciding with the conductors.

It is therefore suggested that the geophysical picture reflects a basement trough of 50-60 feet depth filled with conductive clay.

O. E. Leigh

Iwal & Leigh

Toronto, Ontario October 25, 1973



DEEPEX PROJECT - GROUND FOLLOW UP

GRID No. 72, HANNA TOWNSHIP, TIMMINS AREA, ONTARIO

LOCATION MAP

SCALE : I" = 1320'

020

GEOPHYSICAL SURVEYS AND DIAMOND DRILLING

HANNA TOWNSHIP

CLAIM GROUP 74

TIMMINS AREA

PORCUPINE MINING DIVISION, ONTARIO

Toronto, Ontario November 2, 1973

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INTRODUCTION

Work is submitted for claims P-362950 and P-362953, Hanna Township, Ontario. These claims are held "in trust" by Duncan R. Derry Limited, 401 Bay Street, Toronto, Ontario.

Ground geophysical surveys were carried out during January and February of 1973 over areas of interest as indicated by a Turair airborne survey flown in 1972 by Seigel Associates on behalf of the Deepex Joint Venture. Scintrex Surveys Ltd. conducted the ground magnetic and electromagnetic surveys on behalf of the Deepex Joint Venture.

Diamond drilling was carried out in April, 1973 on claim P-362950 by Heath & Sherwood Drilling on behalf of the Deepex Joint Venture. One hole (DDH 74-1) was drilled to a depth of 702 feet.

LOCATION AND ACCESS (See attached Location Map)

Claims P-362950 and P-362953 are located in the west half of lot 12, Concession I, Hanna Township, Porcupine Mining Division. The property lies approximately 9 miles due south of Cochrane, Ontario and may be reached by helicopter from there or by Hwy. 11 and some 4 miles on foot by bush trail.

GEOLOGY (Ref. ODM Map P-698)

The property is underlain by mafic to felsic metavolcanics of Archean age. A diabase dyke trends north—south near the eastern boundary of the claims. Previous drilling by others immediately to the east of the property indicated a vertical depth of overburden of between 120 feet and 136 feet and some pyrite mineralization.

PREVIOUS WORK

In 1972, Turair airborne surveys were flown over claim group 74 by Seigel Associates on behalf of the Deepex Joint Venture.

Baska Uranium, some years previously, carried out ground geophysical surveys followed by diamond drilling. Four holes, drilled to depths of between 251 feet and 660 feet intersected pyrite, minor chalcopyrite, pyrrhotite and graphite mineralization in acid tuffs.

A grid of 2 line miles was cut with line spacing at 400 foot intervals from a base line 1,600 feet long cut N134°E. Five lines were cut off to the southwest of the base line. This grid was used for subsequent geophysical surveys.

The geophysical surveys were conducted by Scintrex Surveys Ltd. on behalf of the Deepex Joint Venture. A Scintrex MF-2 vertical intensity Fluxgate type magnetometer and a Scintrex SE-71 three frequency Turam unit were used (refer to attached sheets "Instrument Specifications").

The Turam survey utilized a fixed source transmitter consisting of a horizontal 2,000 foot x 2,000 foot wire loop situated northeast of the base line, and two mobile receivers, each a wound wire coil, separated by 100 feet of cable.

Magnetometer and Turam readings were taken at 100 foot intervals along each grid line. Out of a total of 74 magnetic and 77 electromagnetic readings, 76 and 67, respectively, were taken within claims P-362950 and P-362953. A base station at BL-4S was used, after completion of each profile, to check diurnal variation.

RESULTS AND CONCLUSIONS

In a report by Scintrex Surveys Ltd. to Duncan R. Derry Limited, dated June 1, 1973, the survey results are given as follows:

"The Turair zone occurs on four lines showing generally poor conductivity width. Depth to the current axis was established to be as great as 250 feet. The zone appears to be underlain by metavolcanics with graphite and sulphide mineralization.

The Turam results show a NW-SE striking band of at least 3 parallel conductors. The strongest amplitudes are 60% FSR and 13 1/2° \triangle phase (line 12S). The centre part of the zone is 200 feet wide. The depth of the current axis may be 200 feet. The conductivity-width values are as high as 25 mhos. The zone is open to the NW and SE.

The magnetic results show an increase in relief as well as base level to the SE. This might be attributed to a possible diabase dike to the south of line 20S. There is, however, no apparent correlation with the conductor.

Drilling executed on a conductor approximately 1/4 mile SE of the present grid likely revealed some py, po, cp, and graphite.

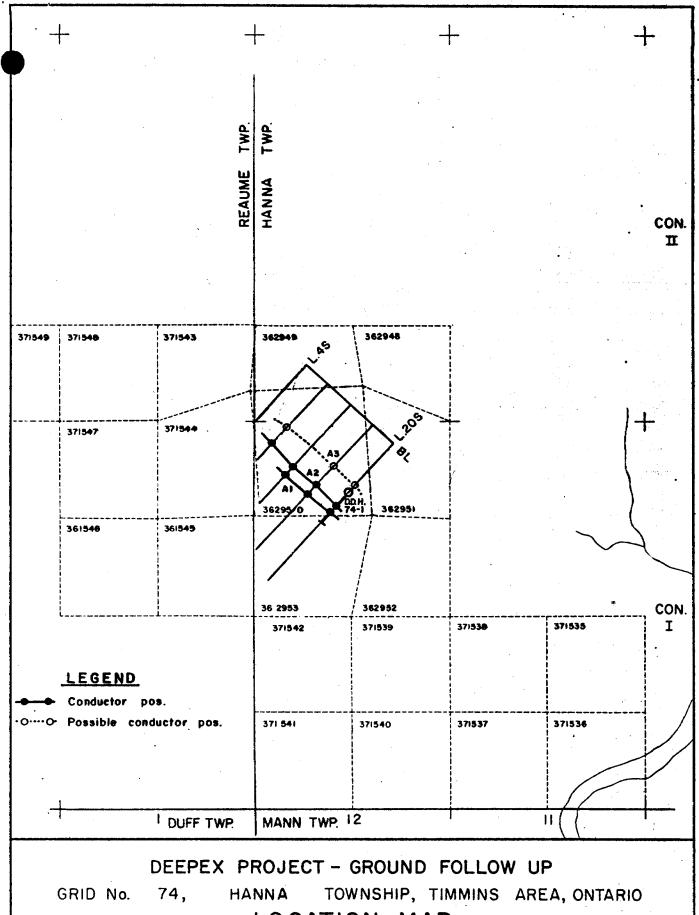
One hole was drilled as a result of the present survey; this is DDH-74-1 on line 20S station 850'W to intersect bands Al and A2 (see plate 21E). This hole intersected the basement at approximately 170' (vertical) depth. Several bands of graphitic tuff within a mainly dacitic environment were found. The overburden contained: clays, sands, gravels, and compact sandy clay."

Owal Exeigl

O. E. Leigh

Toronto, Ontario October 25, 1973

- 1 Plan Location Map
- 1 Plan Turam EM and Magnetic Survey
- 1 Sheet Additions to Legend
- 3 Sheets Instrument Specifications
- 1 M.N.R. Technical Data Sheet
- l Plan Drill Section and Geophysical Profiles
- 5 Sheets Diamond Drill Record 74-1



LOCATION MAP

SCALE : I" = 1320'

DERRY, MICHENER & BOOTH

O-ORDS:	L20S	DERRIT, MICHEREN C. DOC
	8+50W	DIAMOND DRILL RECORD
AZIMUTH:	Grid W (223 ⁰)	

HOLE Nº: 74-1

AZIMUTH:	Grid W (223 ⁰)		PROPERTY:	
DIP:		DRILL TYPE & SIZE: BBS-2 AQ	LOCATION	Hanna Twp., Ontaric
		220 2		Claim No. 362950
ELEVATION:		DIP TESTS: 250' - 47 1/20 (corrected)	DATE STARTED:	April 20, 1973
		450' - 49 ^O	DATE COMPLETED:	April 29, 1973
LENGTH:	702'	650' - 50 ^O	LOGGED BY:	P. E. Piazza
SECTION:			DATE LOGGED:	April 22-29, 1973

PURPOSE: To test a 25 mho Turam anomaly. No associated magnetics.

F001	TAGE	DESCRIPTION	SAMPLE	FOO	TAGE	LENGTH	l			
from	to	DESCRIPTION	No:	from	to	LENGIR				
0'	226'	Overburden; 0-65' clay, 65-95' sand, 95-182'								
	,	gravel with some boulders, 182-226' compact sandy								<u> </u>
		clay and pebbles.								
226'	228'10"	No core.								
228'10"	244'10"	GRAPHITIC TUFF. Black, fine-grained, finely bedded	,							
		70-80° C/A. Minor disseminated pyrite (<1/2%),							<u> </u>	
		py flattened along slip planes. Weakly graphitic							<u> </u>	<u> </u>
		to 239'.						 		
•		228'10"-239' Tuff, less graphitic,								<u> </u>
		medium-grained, well bedded, 70-80° C/A.				·				
• • • • • • • • • • • • • • • • • • • •		231'6"-231'8" contorted bedding 40-50° C/A.								<u> </u>
		239'-240' Dacite tuff, light grey, flow								
		lines (?).								
	·	240'-244'10" Same as 228'10"-239',								
		1/8-1/4" calcite veinlets and 1/8" pyrite								I^-
		stringers parallel to bedding, < 2%								
		disseminated pyrite. Lower contact								
		brecciated (Dacite fragments).								
					-		i	 		

SHEET Nº: 1.0f.5.....

F00	TAGE	DESCRIPTION	SAMPLE	F001	AGE	LENGTH				
from	to	DESCRIPTION	Nō:	from	to	CENOTA				ļ
244'10"	300'5"	DACITE TUFF. Medium-grained, light pale			L			<u> </u>		
		greenish-grey colour, faint lineations of					 			<u> </u>
		darker minerals suggest bedding 70-80° C/A.			<u> </u>			<u> </u>		ļ
		Weakly calcareous. Gradually becomes				_		ļ		
		finer-grained in lower 2'. Numerous quartz-calcit	е							ļ
		veinlets generally 15-20° C/A. Rare specks of				_				<u> </u>
		pyrite.								
								ļ		
		254' 1/2" Quartz-calcite veinlet,						<u> </u>	<u> </u>	ļ
		15 ⁰ C/A.								ļ
								ļ	ļ	
		272' 1/4-1/2" Quartz-calcite						<u> </u>	<u> </u>	
		veinlet, 150 C/A, contains specks of pyrite,								
		trace of weathering.							<u> </u>	<u> </u>
									ļ	<u> </u>
		274'8"-274'10" Quartz-calcite veinlet.						 		
							 	ļ	 	
300'5"	324'10"	GRAPHITIC TUFF AND DACITE. Interbedded prominent			ļ			1	<u> </u>	
		black (1/32"-1/2") graphitic bands and						1		
		green-grey tuff. Some minor brecciation and								
		fracturing. Weathering evident near fracturing,								
		slightly calcareous. Flow lines (?) and bedding						ļ	<u></u>	
		50-60° C/A.								<u> </u>
									<u> </u>	_
		301'2"-304'4" Graphitic tuff as per							<u> </u>	<u> </u>
		228'10"-244'10", but more siliceous.								
		1/8" calcite veinlets, 40° C/A.								
										
		304'4"-317'8" Dacite (flow) breccia,			<u> </u>				 	
		greenish-grey fragments. Pyrite-graphite	·							
		matrix. Pyrite forms about 20% of matrix	<u> </u>							
		and 2-5% of rock.								
		317'8"-324'10" Interbanded fine-grained grey							<u> </u>	
		to black graphitic tuff and greyish-white								
		siliceous sediments. Brecciation in upper								
		2' part contains some pyrite and graphite in m	atrix.							

F00	TAGE	DESCRIPTION	SAMPLE	1	AGE	LENGTH	Cu	Zn	Au	Ag		ĺ
from	to		NS:	from	to	 	8 056	8	oz./t.			
324'10"	392'6"	DACITE TUFF. As per 244'10"-300'5". Trace of	12 13	350' 359'	359' 364'		0.056	0.05	0.005	0.1		
		disseminated pyrite and pyrrhotite. Numerous			<u> </u>	 	1					
		quartz-calcite veins up to 1 foot (generally	14	364'	369'		0.094	0.05	0.01	0.1		
		1-2") from 342'9" to 388'. Pyrrhotite, pyrite	15	369'	374'		0.021	0.05	0.005	0.1		
		and trace of chalcopyrite associated with these	16	374'	380'	6.	0.065	0.06	0.005	0.17		
:		veins. Quartz-calcite veins with chalcopyrite				ļ		ļ				
		blebs are: 365'5"-366'7", 378'3"-378'5,					 					
		383'2"-383'3". Less than 1% disseminated	<u> </u>		ļ	ļ		<u> </u>				
		sulphides from 359-374', plus pyrrhotite, pyrite										
		and trace of chalcopyrite in quartz-calcite veins.					ļ	ļ				ļ
						 		<u> </u>				
392'6"	395'5"	GRAPHITIC TUFF. (Argillaceous). Very finely				-						
		contorted bedding about 60° C/A. Well mineralized				ļ		ļ	ļ			
		with fine pyrite (<10%).				 		-	 			
395'5"	503'4"	DACITE TUFF. Medium-grained, grey colour. Same				-			-			
393 3	303 4	as 244'10"-300'5" but darker in colour. Upper							 	<u> </u>	— —	†
		and lower 10' finer-grained and light green-grey				†		+	<u> </u>			1
<u>,</u>		colour. Very weakly magnetic and slightly			 	1				<u> </u>		†
		calcareous. Minor, very disseminated pyrrhotite				†	<u> </u>	1	 	†		†
		and pyrite. Numerous quartz-calcite veinlets							 			t
		(1/8") with traces of sulphides at various			 	1	1		†		— —	†
- 		angles to C/A. Wider quartz-calcite veinlets				1	 				 	
	1	as follows: 407'8"-407'10", 426'5"-426'6 1/2",				 		 	 	 		†
		428'2"-428'4 1/2" (25° C/A), 440'3 1/2"-440'4 1/2"		 -	†	<u> </u>		+	<u> </u>	 	<u></u>	†
		(30° C/A), 465'7"-465'11".							+		 	
		(300 C/A), 403 / 403 II .									†	
		502'-503'4" Pyrrhotite-pyrite in							1			<u> </u>
		stringers (<1/8") at about 45° C/A.										
		Very thin black graphitic bands.										1
		3.00										
503'4"	527'11"	TRANSITION ZONE.										
	1	503'4"-505'6" Graphitic tuff, finely										
		bedded graphitic rock, alternating light and										
		dark beds. Minute pyrite stringers and										1
	†	quartz-calcite veinlets.										
										1		1

, FW	TAGE	DESCRIPTION	SAMPLE FOOTAGE		LENGTH		İ	1-		
from	l to	DESCRIPTION	Nº;	from	to	LENGIA		<u> </u>		
503'4"	527'11"	505'6"-507'1" Dacite (flow) breccia similar								
	(Cont.)	to 304'4"-317'8", but darker and lacking								
		pyrite in matrix.								
		507'1"-508'9" Graphitic tuff as per								
		503'4"-505'6"; 2-3% pyrite-pyrrhotite and								
		trace of chalcopyrite.							<u> </u>	<u> </u>
								<u> </u>		
		508'9"-510'6" Massive pyrite, crystalline,								
		vugy, graphite in vugs.			'					
		510'6"-513'8" Same as 503'4"-505'6".			1			<u> </u>		
		513'8"-526' Same as 505'6"-507'1".								
		526'-527' Same as 503'4"-505'6".								
527'11"	536'11"	INTERMEDIATE FLOW. Medium-grained, greenish-grey,								
		bands of prominent spherulitic texture and flow								<u> </u>
		contacts. Spherulites (0.2 inches), light grey			<u> </u>			<u> </u>		
		colour in darker green matrix.	1							<u> </u>
	†									
536'11"	574'	DACITE TUFF. Similar to 244'10"-300'5".								
		537' 1" graphitic tuff with py-po,								
		60° C/A.								
		550'10", 568'4", 576'9" - quartz-calcite veinlets								
		35° C/A.								
										
574'	655'7"	DACITE TUFF AND BRECCIA. Similar to 304'4"-317'8"	1,							<u> </u>
		minor spherulite texture in places and black								
		graphitic argillite around fragments. Rock								
		generally light green to grey-green colour,								ļ
		fine-grained. Minor disseminated pyrite-pyrrhotit	*							
		< 1/2%.								
	1									
		·								

F00	TAGE	DECCRIPTION	SAMPLE	FOOT	AGE	LENGTH					ŀ	
from	to	DESCRIPTION	Nº:	from	to	LENGIN						
655'7"	676'8"	FELDSPAR PORPHYRY INTRUSIVE. Grey matrix with										
		sub-hedral feldspar phenocrysts up to 1/4".										
		sub-hedral feldspar phenocrysts up to 1/4". Upper and lower contact sharp, 65° C/A.										
676'8"	702'	DACITE FLOW. Light green-grey colour, aphanitic,										
		slightly altered (talc). Lineations 45-65° C/A.										
		Very minor disseminated pyrite.										
702'		END OF HOLE.										
			<u> </u>									
			<u> </u>									
		Discussion of Results:										
		Wide conductive zone is caused by three bands of										
		graphitic tuffs within dacite tuffs and flows.	ļ								·	j
		The conductive zone between 503'4"-527'11"							<u> </u>			
		contains 21" of vugy massive pyrite.	<u> </u>									
			ļ									
		93/10-3-1/4							 			
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		O PIEIGH S	ļ									ļ
		The total of the second of the										
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GEOPHYSICAL SURVEYS, JAMIESON TOWNSHIP

CLAIM GROUP 31a

TIMMINS AREA

PORCUPINE MINING DIVISION, ONTARIO

Toronto, Ontario October 25, 1973

This report may not be reproduced, in whole or in part, without the written permission of Derry, Michener & Booth.

Work is submitted for claims P-362959 and P-362960 of claim group 3la, Jamieson Township, Ontario. These claims are held "in trust" by Duncan R. Derry Limited, 401 Bay Street, Toronto, Ontario.

Ground geophysical surveys were carried out during March and April of 1973 over the areas of interest as indicated by a Turair airborne survey flown in 1972 by Seigel Associates on behalf of the Deepex Joint Venture. Scintrex Surveys Ltd. conducted the ground magnetic and electromagnetic surveys on behalf of the Deepex Joint Venture.

LOCATION AND ACCESS (See attached Location Map)

The claims are located in the north half of lot 8, Concession III in Jamieson Township, Porcupine Mining Division, eleven miles northwest of Timmins, Ontario.

The property may be reached directly by helicopter from Timmins or by road to the Jameland Mine, then by bush trail about one mile due east.

GEOLOGY (Ref. ODM Map p. 698)

The region is underlain by Early Precambrian age metavolcanics ranging from mafic to felsic in composition. The claims are bounded on the east by the Kamis Kotia River and on the south by the Little Kamis Kotia River. Due east of the Kamis Kotia River is a mafic and ultramafic intrusion of younger age rocks.

PREVIOUS WORK

Dominion Gulf Company carried out ground magnetic and vertical loop electromagnetic surveys over the area in the late 1950's and outlined several short, weak conductors.

In 1972, Turair airborne surveys were flown over claim group 31a by Seigel Associates on behalf of the Deepex Joint Venture.

SURVEYS

A grid of 1.9 miles of line was cut with line spacing at 400 foot intervals from a 1,200 foot long eastwest base line. This grid was used for subsequent geophysical surveys.

The geophysical surveys were conducted by Scintrex Surveys Limited on behalf of the Deepex Joint Venture. A Scintrex MF-2 vertical intensity Fluxgate type magnetometer and a Scintrex SE-71 three frequency Turam unit were used (refer to attached sheets "Instrument Specifications"). The Turam survey utilized a fixed source transmitter consisting of a horizontal 2,000 foot x 2,000 foot wire loop situated 1,300 feet south of the base line, and two mobile receivers, each a wound wire coil separated by 100 feet of cable.

Magnetometer and Turam readings were taken at 100 foot intervals along each grid line. A total of 100 magnetic and 82 electromagnetic readings were taken within claims P-362959 and P-362960. To check diurnal variation for the magnetic survey, a base station at BL-0 was used after completion of each profile.

RESULTS AND CONCLUSIONS

In a report by Scintrex Surveys Ltd. to Duncan R. Derry Limited, dated June 1, 1973, the survey results are given as follows:

"This Turair zone is one of a group of systems of parallel conductors with predominantly phase difference responses. Depth indications suggest that the current axis are within 50-200 feet of the surface. No particular encouraging geophysical characteristics were present and the ground follow-up was mainly supported by favourable geology.

The base line was established in a N90°E direction and 4 lines cut to the north and the south. The Little Kamis Kotia and Kamis Kotia rivers are located directly south and east of the grid respectively.

The electromagnetic results reveal a general distortion pattern of up to 5% FSR and $2-3^{\circ} \triangle$ phase.

One weak and broad zone can be distinguished marked Al and A2, of low conductivity-width (2-3 mhos) and of shallow depth.

The strong reversal on line 8W coincides with a creek.

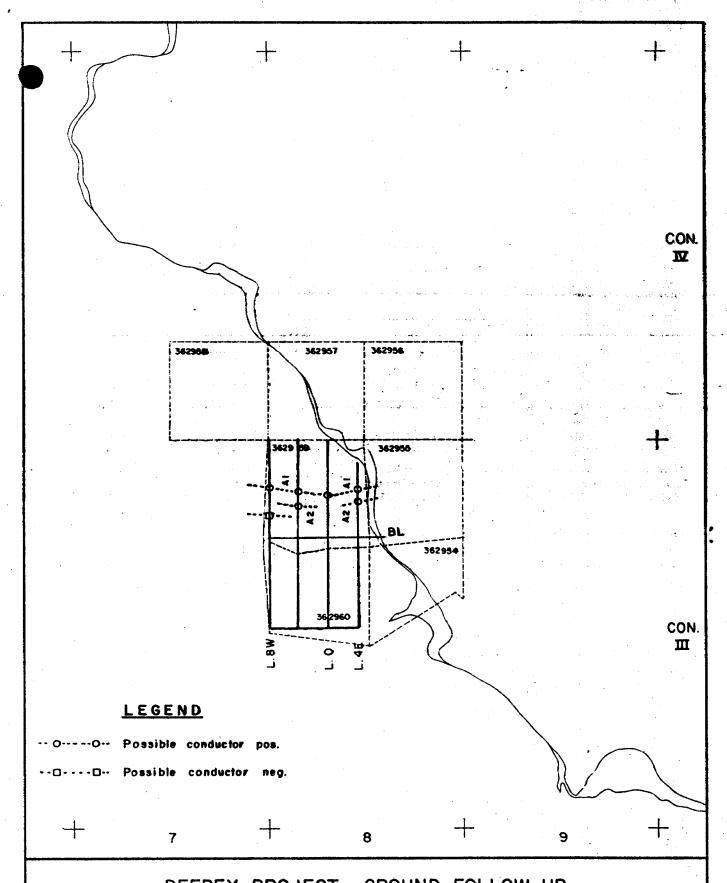
The magnetic results show a low relief over most of the grid with a strong increase in magnetic intensity at the southern end of the lines and over most part of line 8W.

No further work can be recommended based on the geophysical results."

O. E. Leigh

Onval Elent

Toronto, Ontario October 25, 1973



DEEPEX PROJECT - GROUND FOLLOW UP GRID No. 31a, JAMIESON TOWNSHIP, TIMMINS AREA, ONTARIO LOCATION MAP

GE(

OFFICE USE ONLY

42A15NW8627 2.1345 JAMIESON

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RECEIVED

NOV 6 1973

PROJECTS SECTION

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey Geophysics			& Gravity		
Township or Area Claim holder(s) Duncan R	Hanna Township		MINING CI	AIMS TRAV	/EDSED
Claim holder(s) bullean held "in				numerically	11.00
	* * * * * * * * * * * * * * * * * * *				79.0 24.0 24.0
Author of Report		- WETT 0114	/ z P =	362940	1/2
Address Suite 2302, 401		O M5H 2Y4	(prefix)	362943	number)
Covering Dates of Survey Jan	(linecutting to office)				./
Total Miles of Line cut3		· :	P -	362944	72
				7	27- 7- 1- 1-
SPECIAL PROVISIONS		DAYS	area of	claim	a hait
CREDITS REQUESTED	Geophysical	per claim		1	**************************************
ENTER 40 days (includes	Electromagnetic	40		l	
line cutting) for first	-Magnetometer_	20	3 X 20 =	60: (3	+1) : 15
survey.	-Radiometric			30 da	40 O Do.
ENTER 20 days for each	-Other Gravity	y 20 - 10 da	1		
additional survey using	Geological	940 only)	•••••		
same grid.	Geochemical				·
AIRBORNE CREDITS (Special p	rovision credits do not apply to	airborne surveys)			200 m
MagnetometerElectrom		netric		••••••	**************************************
(ent	er days per claim)				ive
OATE: Nov. 2,1973 SIG	NATURE Omel	E Lough		•	1 150 m 1 2 1 - 1 2
	Author of R	Eport or Agent			T .
PROJECTS SECTION			•••••	*************	***************************************
Res. Geol.	Qualifications	<u>3. 1855</u>		*****************	
revious Surveys Man perf	ormed Abt deff.	extrumento			
. 138 mag performed	1956 different	Vinstrumento		****************	10000000000000000000000000000000000000
Checked by	date	· · · · · · · · · · · · · · · · · · ·			
				****	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
GEOLOGICAL BRANCH					541 - - - -
				***************************************	···········
Approved by	date			,	
GEOLOGICAL BRANCH					The second secon
			morpa = 65 a		
Approved by	date		TOTAL CLA	IMS3	## ## ## ## ## ## ## ## ## ## ## ## ##

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS	100
Number of Stations89	Number of Readings 185
Station interval 100 feet	
Line spacing 400 feet	
Profile scale or Contour intervals Mag. 1"=500 gamm (specify for each	as, 1"=10° phase difference, 1"=20% FSR type of survey) Gravity 1"=0.5 miligals
MAGNETIC	A Section of the sect
Instrument Scintrex MF-2, vertical in	tensity, fluxgate type
Accuracy - Scale constant 0.5% of full scal	
Diurnal correction method closed loop syst	em plus base stn values
Base station location BL-0	
ELECTROMAGNETIC	
Instrument Scintrex SE-71 three frequen	cy Turam unit
Coil configuration horizontal	
Coil separation 100 feet and 200 feet	
Accuracy +0.5% F.S.R., +0.25° phase	difference
Method: Eixed transmitter	Shoot back
Frequency 400 HZ	
Parameters measured field strength rati	V.L.F. station) O and phase difference
GRAVITY	
Instrument Scintrex CG-2 Prospector G	ravity meter
Scale constant 0.09831	,
Corrections made height Bouger	
Base station value and location no absolute	base station was used
Elevation accuracy 0.1 feet	
INDUCED POLARIZATION — RESISTIVITY	
Instrument	
Time domain	Frequency domain
Frequency	Range
Power	
Electrode array	
Electrode spacing	
Type of electrode	

OFFICE USE ONI

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

RECEIVED

NOV 6 1973

PROJECTS SECTION

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey Geophysical-Magnetometer & Turam E.M. Township or Area____ Hanna Township MINING CLAIMS TRAVERSED Claim holder(s) Duncan R. Derry Limited, List numerically held "in trust" Author of Report ... C. E. Leigh Address Suite 2302, 401 Bay St., Toronto M5H 2Y4 Covering Dates of Survey Jan & Feb 1973 (linecutting to office) Total Miles of Line cut____ SPECIAL PROVISIONS DAYS CREDITS REQUESTED per claim Geophysical --Electromagnetic 40 ENTER 40 days (includes -Magnetometer___ line cutting) for first —Radiometric____ survey. ENTER 20 days for each -Other____ additional survey using Geological_____ same grid. Geochemical_ AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) Magnetometer____Electromagnetic_ Radiometric _ (enter days per claim) DATE: Nov. 2, 1973SIGNATURE: C PROJECTS SECTION Res. Geol. Qualifications 63, 1833 Previous Surveys _____ _____date____ Checked by____ GEOLOGICAL BRANCH _____ _____date____ Approved by___ GEOLOGICAL BRANCH_____ TOTAL CLAIMS___2_ Approved by_____

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS				
Number of Stations	76	Numl	ber of Readings	143
Station interval 100 fe	eet			
Line spacing 400 fe	eet			
Profile scale or Contour in	tervals Mag.1"=50 (spec	O gammas, 1"=10° g ify for each type of survey) Gra	phase differ avity 1"=0.5	ence, l"=20% FSR miligals
MAGNETIC			in the second	
Instrument Scintre	ex MF-2, verti	cal intensity, flu	exgate type	
Accuracy - Scale constant	+0.5% of full	scale		
Diurnal correction method	_closed loop	system plus base s	stn values	
Base station location	BL-4S			
ELECTROMAGNETIC		**************************************		
mistiument.		e frequency Turam	unit	to a self-state to the second
Coil configuration hor:	izontal			
Coil separation 100	feet and 200	feet		
Accuracy +0.5% F.	5.R., +0.25° p	hase difference		
Method:	Fixed transmitter	☐ Shoot back	☐ In line	☐ Parallel line
Frequency 400 HZ				
Parameters measured f:	ield strength	(specify V.L.F. station) ratio and phase d:	ifference	
GRAVITY				
Instrument Scintrex	CG-2 Prospect	or Gravity meter	_	
Scale constant 0.09				727
Corrections made he				· · · · · · · · · · · · · · · · · · ·
Base station value and loca	ation <u>no absc</u>	lute base station	was used	· · · · · · · · · · · · · · · · · · ·
Elevation accuracy — —	.l feet			
INDUCED POLARIZATION	<u> DN – RESISTIVITY</u>			
Instrument				
Time domain		Frequency d	lomain	
Frequency		Range		
Power			· · · · · · · · · · · · · · · · · · ·	
Electrode array				
Electrode spacing				
Type of electrode				

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC

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NOV 6 1973

PROJECTS SECTION

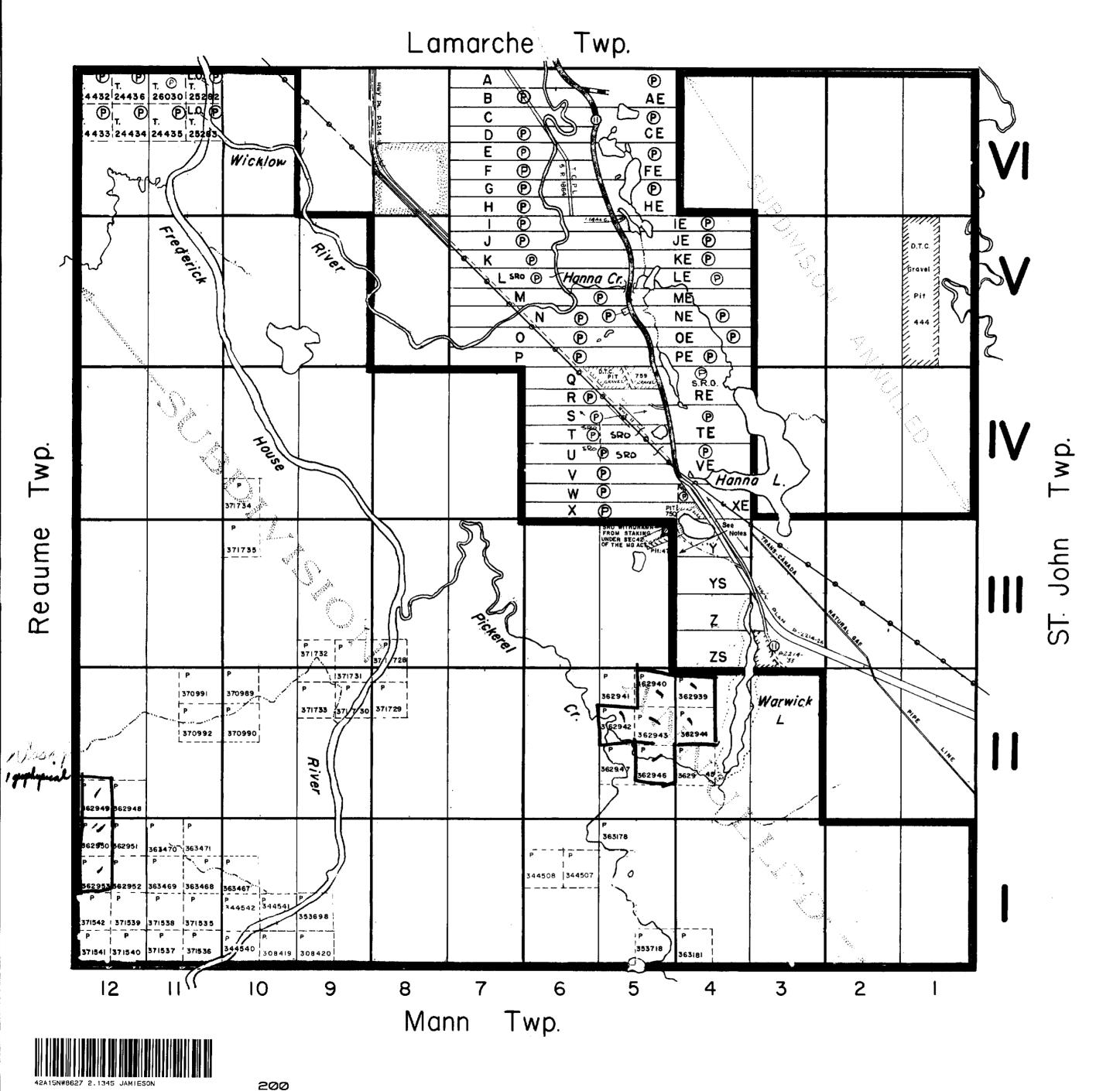
TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT

Type of Survey Geophysical-Magnetometer & Turam E.M. Jamieson Township Township or Area____ MINING CLAIMS TRAVERSED Duncan R. Derry Limited Claim holder(s)____ List numerically held "in trust" O. E. Leigh Author of Report ____ Address Suite 2302, 401 Bay St., Toronto M5H 2Y4 - 362960 / Covering Dates of Survey March, April 1973 (linecutting to office) Total Miles of Line cut 1.9 SPECIAL PROVISIONS DAYS CREDITS REQUESTED per claim Geophysical ' --Electromagnetic___ ENTER 40 days (includes 20 -Magnetometer___ line cutting) for first survey. -Radiometric___ ENTER 20 days for each -Other___ additional survey using Geological___ same grid. Geochemical_ AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) Magnetometer____Electromagnetic_ _Radiometric . (enter days per claim) DATE: Nov. 2/73 SIGNATURE: PROJECTS SECTION 63.1833 Qualifications Res. Geol. Previous Surveys _____ ____date____ Checked by._____ GEOLOGICAL BRANCH _____ _____date____ Approved by_ GEOLOGICAL BRANCH_ TOTAL CLAIMS ____2 Approved by____

'Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS				
Number of Stations	100	Nur	mber of Readings_	182
Station interval 100 feet				
Line spacing 400 feet			· - · · · · · · · · · · · · · · · · · ·	
Profile scale or Contour intervals Mac	g.1"=500 ga (specify for e	mmas, 1"=10° ach type of survey) Gre	phase differ avity 1"=0.5	cence, 1"=20% FSF miligals
<u>MAGNETIC</u>			o	,
Instrument Scintrex MF-2	, vertical	intensity, fl	Luxgate type	
Accuracy - Scale constant +0.5%	of full so	ale		
Diurnal correction method close	ed loop sys	tem plus base	e stn values	
Base station location	BL-0			
<u>ELECTROMAGNETIC</u>				
Instrument Scintrex SE-	71 three fr	equency Turar	n unit	
Coil configuration horizontal				
Coil separation 100 feet and	200 feet			
Accuracy +0.5% F.S.R.,	+0.25° pha	se difference	2	
Method: X Fixed trans	smitter	☐ Shoot back	☐ In line	☐ Parallel line
Frequency 400 HZ			W-011	
Parameters measured <u>field</u>		ecify V.L.F. station)	se difference	
GRAVITY		NAME OF THE PARTY.	<u> </u>	
Instrument Scintrex CG-2	Prospector	Graviev mess	ēr	
Scale constant 0.09831		×.		
Corrections made height B	ouger			
Base station value and location	no-absolut	e Dase statio	on was used	
				-
Elevation accuracy 0.1 reet	ocani P			
INDUCED POLARIZATION - RESI	STIVITY	,		·
Instrument				
Time domain		Frequency	domain	
Frequency				
Power				
Electrode array				
Electrode spacing				
Type of electrode				



THE TOWNSHIP
OF

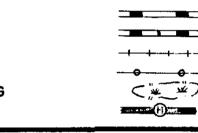
HANNA

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION SCALE: I-INCH= 40 CHAINS

LEGEND

PATENTED LAND
CROWN LAND SALE
LEASES
LOCATED LAND
LICENSE OF OCCUPATION
ROADS
IMPROVED ROADS
RAILWAYS
POWER LINES
MARSH OR MUSKEG
KING'S HIGHWAY



<u>NOTES</u>

400' Surface rights reservation around all lakes & rivers.

REG. PLAN NO.-M. 57 COVERS LOTS "A" TO Z-S.
IN CON. 3 TO CON. 6.

Surface Rights Only reserved to Dept of Lands & Forests shown thus: File88767

See L.B.F. File: 96605—122598 Re Gravel On Loc. XE B. Loc. Y.

Area shown thus withdrawn from staking Section 42 Mining Act File 88769 & 88772

- MINING LANDS -DATE OF ISSUE NOV 7 1973

71LE-2.1345

MINISTRY
OF NATURAL RESOURCES

PLAN NO. - M 490

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

J. G.

THE TOWNSHIP OF 🤃

JAMIESON

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

` I,	,	11.4	7.0	B	
DATEMEN	. '4410		"Grand		
PATENTED	LAND			r	
CROWN LAN	D - SAL	.E			
LEASES		**	(*)		. *
LOCATED LA	NO			ৰ	, and the second
LICENSE OF	occ	UPATIO	N t		.= (
MINING RIGH	ITS OF	VLY	* * *		
SURPMOE RI	GHTS	ONLY	لاءِ		٠.
ROADS	· .		-	* 344	
MPROVED R	0A05	,			2
KING'S HIGH	EYAWH				
RAILWAYS	10.1	-k.		7	-
POWER LINE	S		4.	ra Billion (,
MARSH OR	MUSKÉ	3		.,	1.
MINES		. * . *			
CANCELLED		1		- En Happy	h "

NOTES

400 Surface Rights Reservation ordered

Flooding rights to greas along Mattagami River to HEPC - LO 7085

> - MINING LANDS -DATE OF ISSUE NOV 7 1973 MINISTRY.

71LE - 2.1345

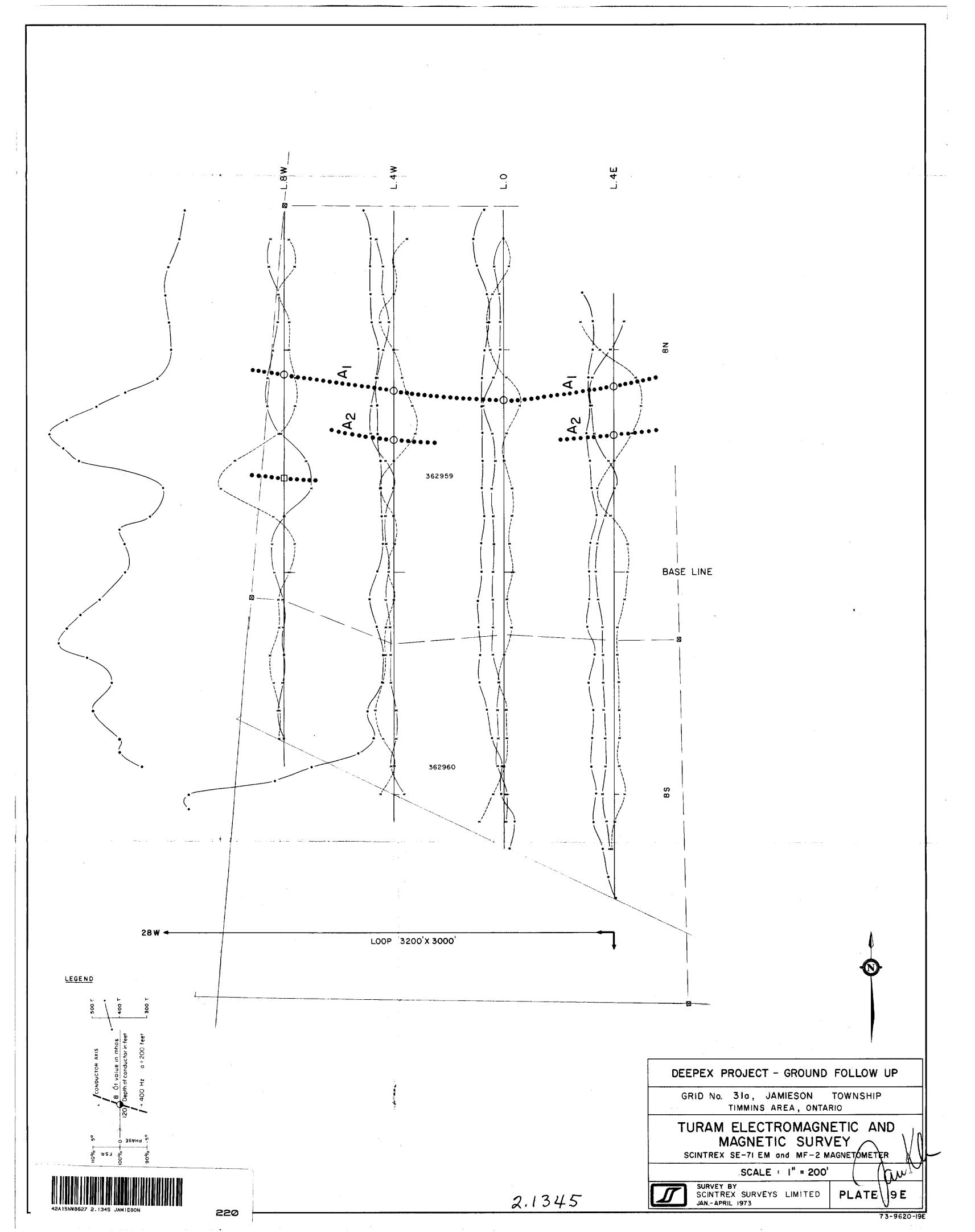
PLAN NO.- M.288

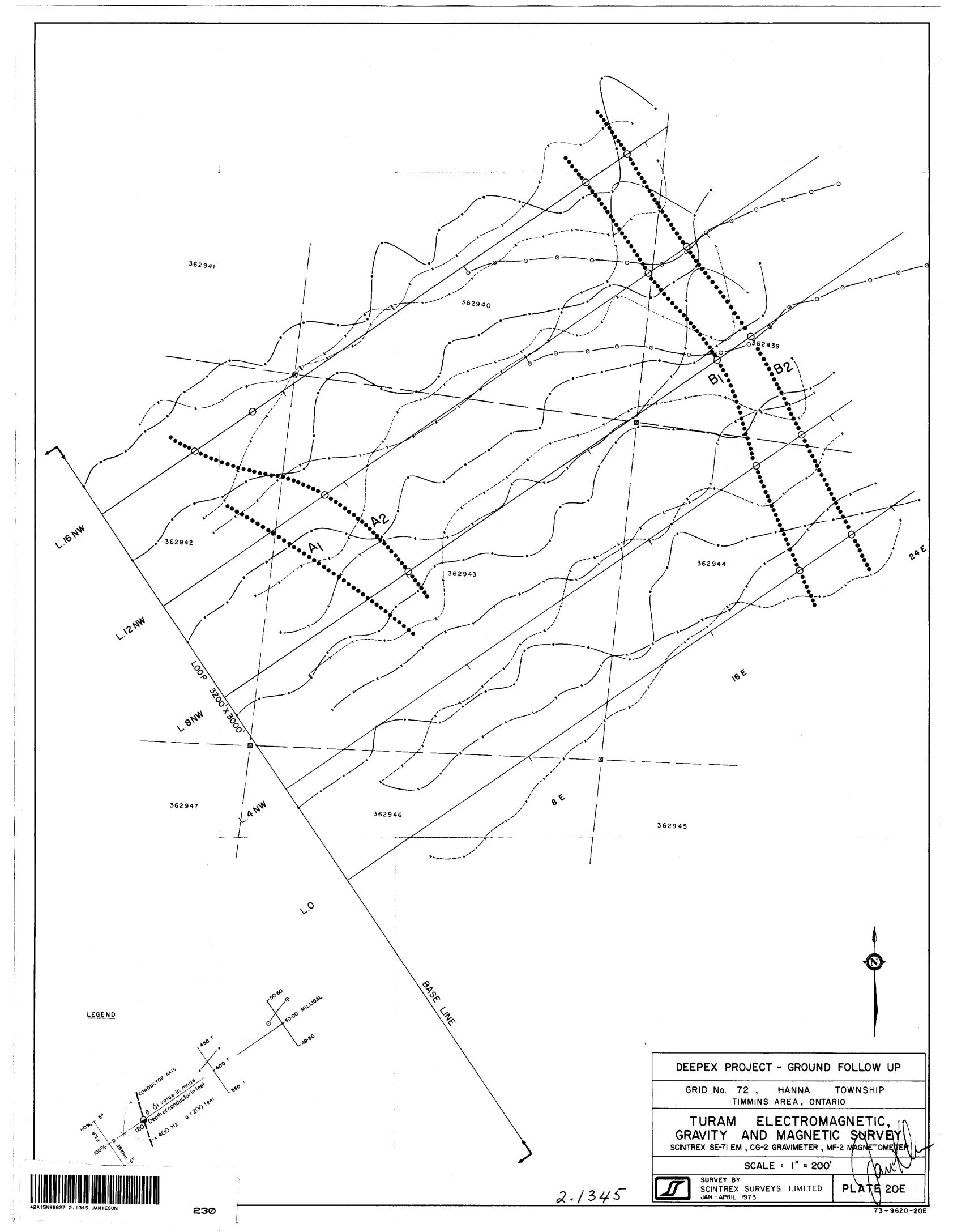
ONTARIO

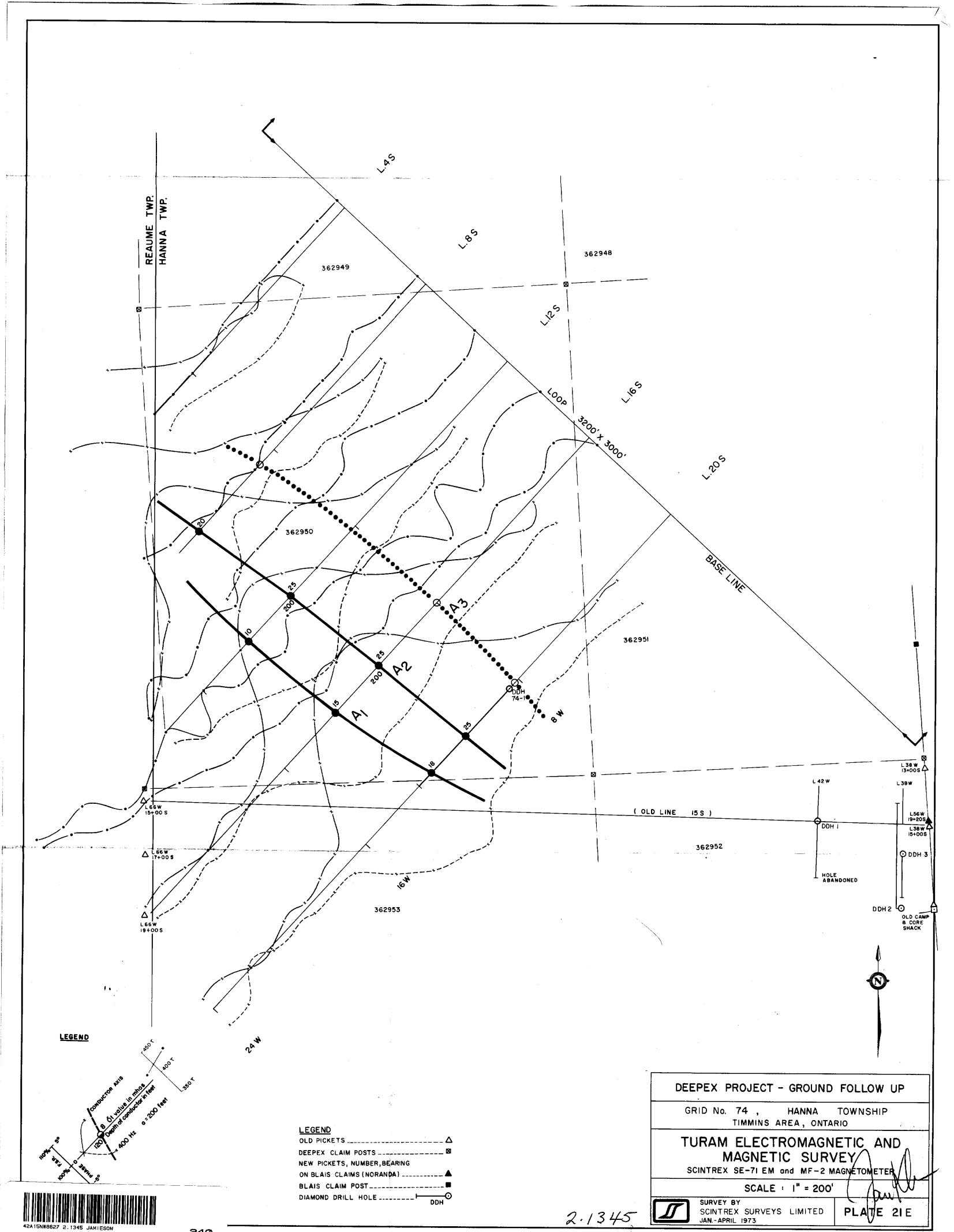
MINISTRY OF NATURAL RESOURCES

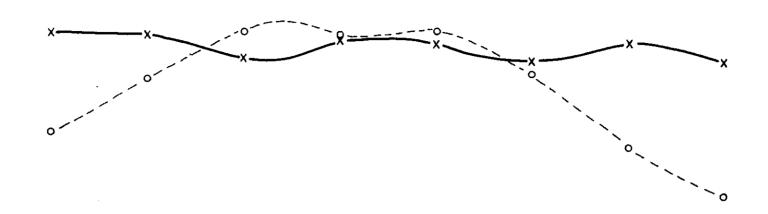
SURVEYS AND MAPPING BRANCH

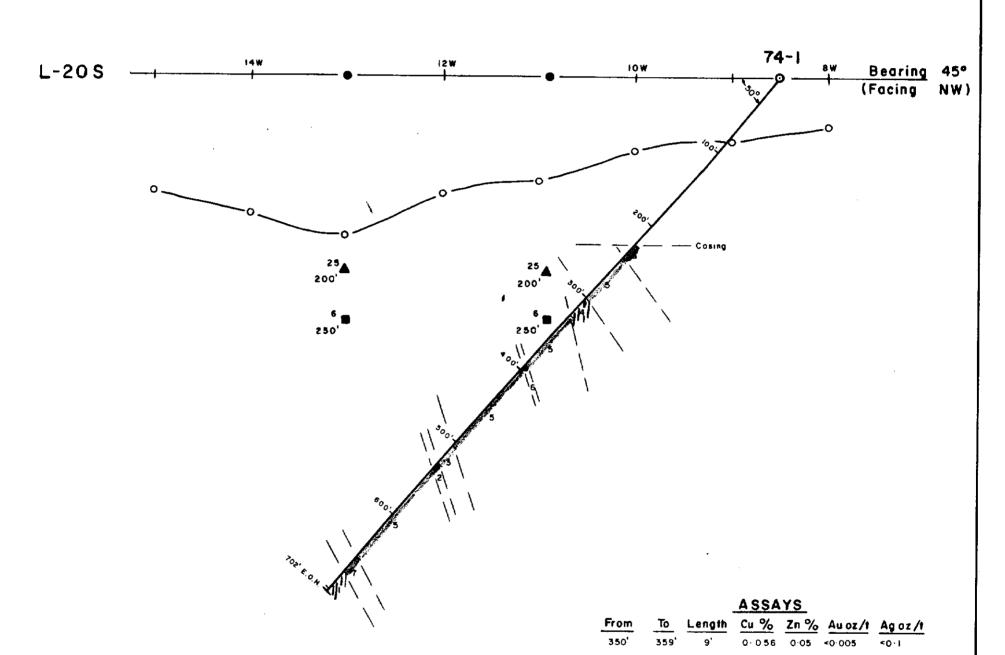
210











LEGEND

	Feld s par	porphyry	intrusive
--	-------------------	----------	-----------

Graphitic tuff

Dacite tuff; breccia

Graphitic tuff; dacite

Transition Zone Graphite tuff, dacite breccia, massive pyrite

Intermediate flow

Dacite flow, altered

Diamond Drill Hole

Conductor axis on surface

Turam axis and depth

Turair axis and depth Mag. profile: 1"= 100 gammas (B.L. 400 gammas)

Turom - F.S.R. | 1" = 20%, B.L. = 100% (a = 100')

, = O° (") 2.1345

0.05 <0.005

0.05 <0.01

0.05 <0.005

< 0 · 1

0.1

< 0·1

0.034

0.065

DERRY , MICHENER & BOOTH

DEEPEX PROJECT

D.D.H. - 74-1 DRILL SECTION AND GEOPHYSICAL PROFILES

Scale: | "= 100"

364

380

374

By : P.E. Piazza Date: May, 1973

Map No.

