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SUMMARY

ADVING LANDS SECTIO

010 MINING LANDS SECTION

This report covers the 1982 exploration activities on the 39 contiguous claims south of our main Fripp Township property, Project 785. These claims were staked in September 1981.

During June of 1982, Northgate Exploration Limited completed a line cutting and magnetometer program over these claims. Two high priority targets were identified. The first priority target is the lower contact of the ultra mafic volcanics with the granodiorite. This has potential for Cu mineralization similar to that on the adjacent Hollinger-Argus ground. The second priority target is a small gabbro plug with possible Au-Cu mineralization similar to that on Muskasenda Lake.

2.0 LOCATION (NTS Ref 42 A/3)

The 39 claim extension is located in the southeast quadrant of Fripp Township approximately 20 miles south of Timmins and adjoins the main claim block on claims 618993, 618996 and 618999. (Figure 1)

3.0 ACCESS

Fripp Township is accessible via a network of well maintained gravel roads. The system links Matchewan, Shining Tree and Timmins (Pine Street). The main claim block is covered by numerous non maintained logging roads which could only be used by snowmobile during the winter. Access to the southwest extension is via an old logging road to the north end of Bartlett Lake or to the east side of claim 624096. Bartlett Lake itself, can be used to reach the eastern 4 claims by boat or skidoo. (Figure 2)

4.0 PHYSICAL FEATURES

4.1 Topography

Price, Fripp and McArthur Townships are characterized by isolated, low, rocky hills, unconsolidated glacial deposits and poorly drained swamps. Rarely does the local relief exceed one hundred feet in elevation which is typical of the Precambrian Peneplain.

Lakes in the general area are shallow and are usually the result of beaver dams. Many are intermittent and tend to evaporate during the summer months.

4.2 Timber

Forest cover in this area is relatively mature with stands of poplar, birch, spruce and pine, being common on the higher ground. The lower swampy areas are covered with alder, saplings, moose maple and in some areas, mature cedar.

Although large scale harvesting does occur elsewhere in the area, only small cleared areas exist on the property due to selective cutting.

4.3 Water Resources

The Split Rock River system which transects the property at its mid-point is of sufficient size and flow to provide an adequate water source for both pre-production and production needs.



LEGEND

- 1 Northgate Exploration Limited
- 2 Bordin-Northgate Option
- 3 Argentex
- 4 Amax

- Texas Gulf 5
- 6 Westfield Minerals
- Małtagami Lake Mines Ltd 7
- 8 Lacana

Figure 2 FRIPP TOWNSHIP AREA

COMPANY HOLDINGS

Scale: 1"= 1mile



Katoshaskepeko Lake, as well as, numerous other small lakes could service the northern claims, while ponds and swamps could service the southern claims for diamond drilling or other pre-production activities.

4.4 Climate

The Timmins area has a continental climatic pattern which is characterized by dry, cold winters and hot, humid summers.

Winter, which can begin as early as mid-October and continue until mid-May, experiences temperatures as low as -40°C over extended periods and snow cover to 5 feet in forested areas.

The summer months on the other hand, have warm to hot temperatures which are sometimes accompanied by uncomfortable humidity.

Both spring and fall months have pleasant sunny days, but cool nights. These seasons, however, can be marred by freezing temperatures, frost and snow.

5.0 AUXILLIARY SERVICES

5.1 Power Facilities

With no major industries in the area, an immediate source of electrical power is not available. However, with the installation of a substation, an adequate supply can be obtained from the power line located four miles to the east.

This line runs south from Abitibi Canyon to Sudbury and supplies Timmins with most of its electrical needs. The capacity of the line is now 500,000 volts.

5.2 Mining Equipment and Supplies, Labour

Timmins is a well established mining centre with many suppliers maintaining warehouses in the district.

Likewise, mining contractors and experienced miners are available in the district.

6.0 PROPERTY AND OWNERSHIP (Table 1)

The Fripp Option property as originally presented, consisted of a block of 74 unpatented mining claims, distributed in Price, Fripp, and McArthur Townships. All claims were staked by Dennis Bordin of Timmins in the spring of 1981 and were in good standing.

Northgate Exploration Limited expanded this group in two phases, by staking an additional 75 claims. The first phase protected the blocks' eastern boundary and to form one contiguous group with Westfield's claims in McArthur Township. The second phase extended part of the boundary southwards in Fripp Township to adjoin and partially surround five leased claims currently held by Hollinger-Argus, and containing a mineral deposit of approximately 165,000 tons averaging 3% copper.

The Fripp Option property now consists of 149 mining claims or about 6,000 acres.

TABLE 1

Claims Bordin Property: Price, Fripp and McArthur Townships

Price Township

Claim Number	Reco	rder	Transferred To NGX	An	niver	sary Da	te
P-591040	Dennis	Bordin	X	Ju	ne 6,	1982	
P-591155	H	11 13	X		83 83 11 11	1) 11	
P-591156 P-591594	11	. B	X	้ป็น	ne 7,	1982	
P-591595 P-591596	†1 	11 . 11	X X	ู่ปัน	ne 6,	" 1982	

Sub-total 7 claims

Fripp Township

<u>Claim Number</u>		Recor	<u>rder</u>	To NGX	<u>An</u>	niversary Date	<u>}</u>
P-618161		Dennis	Bordin	х	Ma	y 2, 1982	
P-618162		1	1	Х	- D	ัย ย	
P-618163		D	13	Х	Di la	\$1 \$ 1	
P-618164		n i	Ð	Х	\$3	H H	
P-618165	•	n	н	Х	11	85 88 [°]	
P-618166		Н.	11	. Χ	· 11	11 IF	
P-618167		H	11	X	Ma	y 3, 1982	
P-618168	,	41	H	X	. 11	ธับธั_บ ไ	
P-618169		8	в	Х	13	i N N	
P-619315		Ð	н	Х	Ma	y 19, 1982	
P-619316		93	в	Х		B B	
P-618985		14	11	X	Ма	y 9, 1982	
P-618986		11	н	X	81	i 11 - 17	•
P-618987		11	р	X	11	11 11	
P-618988	1	0	11	. X	· 11	11 11	
P-618989		H	11	X	n	n u.:	
P-618990		μ.	μ	Χ.	13	N 31	
P-618991		11	13	X	M	ay 6, 1982	
P-618992		11	Ð	X	11	a)	
P-618993		11	11	. X	· 11	B B	
P-618994		U -	81	X	M	ay 7, 1982	
P-618995		. 11	01	X		83 83 81	
P-618996		u –	11	X		D D D D D D	•
P-618997		41	H	× v	М	ay 8, 1982	
P-618998		11	£1				
P-618999		n	11	Ň		13 11 17	
P-591027		H	13	Ň	м М	ay 26, 1982	
P-591028		41	H	N N		H H H	
P-591029	· · ·	BI	н	Ŷ			
P-591030		#	11	Ŷ	,	11 ° 11 11	
P-591031		11	11	Ŷ	́М	lay 27, 1982	
P-591032		11	11	Y			
P-591033		11	11	Ŷ	•	N N N	
P-591034		11	55	X ·	М	lay 28, 1982	
P-591035		11	п	V V	М	lay 29, 1982	
P-591036		81	11	Λ		н н н _.	

Claim Number	Recorder	Transferred To_NGX	Anniversary Date
D 501027	Dennis Bordin	Х	May 28, 1982
r-091007		X	May 29 1982
P-591038		Ŷ ·	
P-591039		Y S	May 21 1002
P-591147		N ·	14ay 31, 1982
P-591148	10 · · · · ·	A V	
P-591149	11 11	X	
P-591150	11 13 14	X	11 11 11
P-591151	n [*] B	Х	11 11 11
P_501152	4) B1	Х	11 11 11
D E01152	11 11	Х	11 BI BI
P F03020	83 83	ĹΧ	June 11, 1982
P-591920	11 81	X	
P-591927	11 13	X	33 <u>3</u> 1 43
P-591928		Ŷ	ie is is
P-591929		Y	
P-591930	1 1 1 1	N V	June 13, 1982
P-591931	11 17	A V	
P-591932	11 H	λ.	13 13 15
P-591936	11 11	X	£1 41 B3
P_3031A9	82 83	X	June 27, 1982
D 202150	61 B	X	н а в
L 202120	11 11	Х	41 11 TI
r-393101	11 11	X	11 11 11
P-393152			

Sub-total 58 claims

McArthur Township

Claim Number	Recorder To NGX	Anniversary Date
P-619317	Dennis Bordin X	May 19, 1982
P-591933	и в Х	June 13, 1982
P-591934 P-591935	n n X	
P-591937 P-591938	и в X и и X	June 14, 1982
P-591939 P-591940	n n X. n n X.	p n n

Τ.,

Sub-total 9 claims

Total 74 claims

- 2 -

NORTHGATE CLAIMS: PRICE, FRIPP AND MCARTHUR TOWNSHIPS

PRICE TOWNSHIP

<u>Claim Number</u>	Recorder	Transferred to NGX	Anniversary Date
P-624406	Gabriel Sutherland	X	August 23, 1982
P-624407	1	X	U D
P-624409	н	X	August 24, 1982
P-624410 P-624411	11	XXX	5 - 11 1
SUB TOTAL : 6 CLA	IMS		

FRIPP TOWNSHIP

Claim Number	Recorder	Transferred to NGX	Anniversary Date
P-624154	Nolan Boa	X	August 16, 1982
P-624155	ii ii	X	11
P-624281	Richard McAllister	X	
P-624282	11	Х	11
P-624823	II .	Х	1
P-624284	H	Х	11
P-624285	н	Х	18
P-624286	н	Х	August 17, 1982
P-624287	11	Х	
P-624288	н	X	11
P-624289	11	X	11
P-624290	11	Х	August 18, 1982
P-624291	н	Х	11
P-624292	н	X	ii
P-624293	n	Х	September 9, 1982
P-624294	it.	Х	n
P-624295	н	X	September 10 , 1982
P-624296	11	. X	it it
P-624297	B	X	61
P-624298	n	Х	September 12, 198:
P_624299	11	X	. 11
P-624303	11	Х	September 13, 1983
P-624304	· •	Х	
P=628041	11	Х	11
P_628042	н	X	1)
P=628043	II.	X	11
P_628043	\$1	Х	September 11, 198
P_628045	н	X	11
D_622582	Henry Gonzalez	Χ	september 9, 198
D_622201	"	Х	001 II
D_622291	н	Х	11
D_622203	0	X	81

TABLE 2 (CONTINUED)

FRIPP TOWNSHIP(CONTINUED)

<u>Claim Number</u>	Recorder	Transferred to NGX	Anniversary Date
P-624096	Genry Gonzalez	X	September 10, 1982
P-624097	т н	. X	"
P-624098	II.	X	. н
P-624099	11	· X	н.
P-624100	н	X	
P-624101	U U	X	September 11, 1982
P-624102	11	X	"
P-624103	н	X	Ņ
P-624104	на на селото на селот	X	u
P-624105	н	X	, n
P-624106	81	X	September 12, 1981
P-624107	B	X	"
P-624108	В	X	• • • • •
P-624109	н	X	н
P-624110	н	X	. 0
P-624111	11	X	Sentember 13 1982
P-624113	31	x	10 10 10 10 10 10 10 10 10 10 10 10 10 1
P-624113	R	X	48
P-628036	11	X	В
P-628037	11	Ŷ	н

SUB TOTAL: 53 CLAIMS

MCARTHUR TOWNSHIP

<u>Claim Numbe</u>	r	Recorder	Transferred to NGX	Anniversary Date
P-624156		Nolan Boa	X	August 16, 1982
P-624157		н	Х	
P-624158		н	Х	August 17, 1982
P-624159			X	11
P-624160		18	X	0.
P-624161		11	x	н
P-624612		H	x	11
P-624163		II	x	August 18, 1982
P-624164		11	x	11
P-624165		1)	X · · ·	II
P-624166		н	ŷ	н
P-624167		11	x	II.
P-624168		11	x · · ·	н
P-624169		41	X ·	August 20, 1982
P-628038		Henry Gonzalez	X	September 21, 1982
P-628039		ii	X	11
SUB TOTAL:	16 CLAIMS			

TOTAL : 75 CLAIMS



PROPERTY HISTORY

The entire area, including the Bordin Property, was prospected for gold pre-World War II and numerous showings were discovered.

Post-World War II further attempts were made in the search for base and precious metals within the belt and again with the exception of the Texmont Discovery (Ni) (1951), no economic deposits were found.

The following is a brief outline of recorded work over the Bordin claims as found in the assessment files (M.N.R.):

- 1952 McCoshen-Sandrelli Geophysical Report. Assays and pits. Assays were discouraging.
- 1961-1965 Hollinger Gold Mines Limited Geophysical Report. EM and Magnetometer Surveys.
- Acme Oil and Gas. Conducted Airborne Geophysical Surveys, EM and Magnetometer, several weak anomalies.
- 1970 Hollinger Gold Mines Limited. Four diamond drill holes totalling 1,117 feet.
- 1971 Texas Gulf Sulphur. Ground based magnetometer and EM surveys, outlined two iron formations and a diabase dyke, no further work.
- 1975 Lionel Beaulieu. Five small pits, no sampling.

8.0 GEOLOGY

8.1 Regional (Figure 3)

All of the rocks which underlie this area are of early Precambrian Age (Archaean) and have been capped by a mantle of Pleistocene and Recent unconsolidated deposits.

The Archaean rocks consist of two cycles of volcanism in which each cycle contains a basal ultramafic sequence of flows. Mafic metavolcanics overlie this unit and generally contain massive, as well as, pillowed flows. These in turn are overlain by an upper unit of intermediate to felsic metavolcanics consisting of massive flows, but more commonly tuffs, lapilli tuffs and breccia. It is within this upper unit that intercalated sedimentary beds occur including siltstones, greywackes and iron formation.

The lower metavolcanic unit has been intruded by both felsic and mafic magmas which have formed small domes of quartz-feldspar porphyry in the felsic volcanics and gabbroic sills in the mafic volcanics, respectively.

A pre-tectonic age has been affixed to the gabbro while the porphyry is syntectonic and may be part of a feeder system for the felsic rocks.

Large emplacements of granite magma late in the tectonic cycle, formed the Adams Batholith and the poly-phase Peterlong Lake complex.

Numerous diabase dykes transect the area and are middle to late Precambrian in age.

The Archaean volcano-sedimentary series has been compressed and warped about the granitic domes in Adam and Giekie Townships. The Bordin-Northgate property lies on the western flank of this structure.

Numerous north to northwesterly faults traverse or follow the trend of the disturbed and enfolded volcanic inliers.

9.0 MAGNETOMETER SURVEY

9.1 Field Method and Instrumentation

The survey was undertaken by R. Zinn and three summer students, M. Mayville, D. Vasiga and D. Sypes, during the latter part of June 1982. The base of operations for this survey was the Timmins office, 107 Wilson Avenue.

Readings were taken at 100 ft. stations on all lines with a Scintrex MP-2 proton magnetometer. The crossline stations on the baseline were established as corrected stations to compensate for diurnal drift. The crosslines were read in a figure eight pattern to tie into the baseline stations. Considering the magnitude of the anomalies, the diurnal variation is negligible.

Data correction and plotting occurred at the Timmins office with final drafting, contouring, and interpretation in Toronto in the fall. Results are presented on Figures 3, 4 in the back pocket, which detail lines, claims and corrected magnetic readings. Figures 5, 6 show contoured results.

9.2 Discussion and Interpretation of Results

The most recent report on Fripp Township is in O.G.S. Report 171, Map 2345, at 1:50,000 scale. This map shows the area as being underlain by serpentinized peridotite to the southwest, mafic volcanics to the northeast and a central zone of granodiorite to quartz diorite. In addition to these major rock types, there is a small gabbroic pluton and diabase dyke in the northeast corner, a fault down the Split Rock River, and an iron formation in the south, Figure 3.

Our survey does not totally agree with this map. The mag shows no evidence of an iron formation in the south or of a fault down the Split Rock River.

The mag contour map shows three anomalously high zones with accompanying lows to the north and east all trending northwest. The most southerly of these high zones is the ultramafic volcanic indicated on Map 2345. It stretches from the western boundary on line 92S to the south boundary east of the base line on line 144S. The associated low runs from the west end of line 88S to line 112S at the baseline. This moves the volcanic-granite contact to the east of that shown on Map 2345 and it would appear that the mineral deposit on the Hollinger-Argus ground is associated with this contact.

The central anomaly is rather tenuous in that it consists of a series of isolated spot highs in the +400 to +1,000 gamma range. These probably reflect concentrations of iron minerals (magnetite or pyrrhotite) within the diorite, possibly at the edge of a contact aureole with the ultramafic volcanics. The +3,000 gamma high at the northwest end of this series (line 56S/17W) has a low to the east and may represent the edge of the ultramafic volcanics.

The northern anomaly is a very narrow structure with a bulge at each end. The O.G.S. map shows a small gabbro plug that should correspond to the southeast end of the anomaly. There are also two dykes in the vicinity, one an olivine diabase and the other a diabase. The diabase is shown crosscutting the gabbro in a north-south direction, whereas the olivine diabase is shown as being cut off by granodiorite to the west. Three possible interpretations exist:

- a) The olivine diabase is continuous at depth, enters the claim group and reaches the gabbro,
- b) The diabase dyke is misplotted and in fact runs northwest not north-south,
- c) The gabbro intrusive has sent out a dyke of its own along a minor fault.

The majority of the claim group exhibits a low relief pattern from 0 to +400 with the 0 level being 59,000 gammas total field. There is no indication of a faulted contact between a mafic volcanic and a granodiorite. Considering the paucity of outcrop in the area, one has to assume that the 0.G.S. was overly generous in their interpretation of the extent of volcanics. Our data indicates that the volcanics are probably small isolated remnants within the granodiorite intrusive.

9.3 Conclusions and Recommendations

Of the three anomalous zones, only 2 are of any real interest. The northern anomaly associated with the gabbroic intrusive should be mapped and prospected with an accompanying geochem survey. The target in this case would be Au, Cu mineralization similar to that in the Muskasenda Lake area. The gabbro is considered to be part of the larger intrusive centred on Muskasenda Lake and Bartlett Township.

The most promising anomaly is that caused by the ultramafic intrusive in the south. Hollinger-Argus has a deposit of approximately 165,000 tons grading 3% copper associated with this same anomaly, or rather the north east flank of the ultra mafic flow causing the anomaly. The flow is described in O.G.S. Report 171 as "largely altered to talc-carbonate or tremolite and that individual flows up to 6 m thick are observed near the north shore of Donut Lake. The flow tops underlying the spinifex-textured peridotite can be readily discerned, and the variation in size of the blades forming the spinifex texture indicates that tops are to the southwest". This would seem to indicate that the copper deposit is due to gravity separation of sulphides from the flow.

This anomaly should be mapped and prospected in conjunction with soil geochemistry and an EM survey. The target in this case is Cu, Ni with a possibility of chromite and platinum group metals as accessories.

An additional 4 claims should be staked on the west boundary adjacent to claims 624105, 624106, 624111 and 624112. This should be sufficient to pick up the northeast contact that is the focus of our attention.

Rzim

Ontario Ministry of Natural Resources	Report of Work (Geophysical, Geological, Geochemical and Expend	itures)	#3					
	W8206.378		The Minir	42A03NW0029	2.5226 FRIP	P		900
Type of Survey(s)	CALETOPET	JE P			Township	or Area	1 7.0	
Claim Holder(s)	TCIUT / CTTTTT	<u> </u>		•		Prospecto	T's Licence No.	
Address	VIE EXPL	OR	17/01	V		7	235	
Box 143 Survey Company	1 IINST CA.	NE DIA	IN PEN	Date of Survey	<u> このんテレ</u> (from & to)	ON	Total Miles of line	(1C.7)
NGX				30 5 C Day Mo.	Yr. Day	Mo. Yr.	29	
R Z AND	mor (or Geo-Technical report)	2.11	1	ONT	4 . -		•	
Credits Requested per E	ach Claim in Columns at r	light	Mining (Claims Traversed (1	_lst in nume	rical seque	ence)	
Special Provisions	Geophysical	Days per Claim	Profix	Mining Claim	Expend.	N	lining Claim	Expend.
For first survey:	- Electromagnetic		10	())))	Days Cr.	Pretix	Number	Days Cr.
Enter 40 days. (This includes line cutting	s)) - Magnetometer	1+21		1422 11			629113	
For each ordinized and	- Radiometric	-7-0		6222 42	·	Basiliana na ta Antoni antoni	624793	
using the same grid:	Vey:			6222 43			6242.94	-
Enter 20 days (for e	ach)			1.22.2.44	· .		6242.95	
	Geological		a da angalangan Angalangan da angalangan da	tiz ar			624296	
	Geochemical			622592			6.242.47	
Man Days	Geophysical	Days par Claim		674046			1.51999	
Complete reverse side and enter total(s) here	- Electromagnetic			624097			1.54704	· · · ·
	Magnetometer			1.24190			<u>Giz72.77</u>	
	Radiometric			444010			627303	
TECEN	• Other			6240 99			624304	
REG	082			6124-100			628036	
oct 19	Geological			624101			638037	
Airborne Credite	CEEPENemical			6.24100		a da ser an generation de la composition de la composition de la composition de la composition de la composition de la composition de la	628041	
INING LAN		Claim		624103			628642	
Not Special provision credits do not an	es Electromagnetic			624104			628643	
to Airborne Surv	νeγs. Magnetometer			1.24105			1-2.80 4.4	
	Radiometric			1.211.06			1.281.45	
Expenditures (excludes	power stripping)			(.)111				
I ype of Work Performed POR	CUPINE MINING DIVISION			<u> </u>	·			
Performed on Claim(s)	EBEIVEM	<u> </u>]		6.24105		F	RECOP	
		1		6.24109	· · ·			
	SEP 3 0 1982			6.24110			SEP_3_0_1	1982
Calculation of Expenditive	SAVI FERIE 1.2.3.4.5.6	[ļ	6.24111		IRA	Ceint Na	
Total Expenditures	Day	Credits		624112			celbi 140,	
\$	÷ 15 =					Total nun	nber of mining	
Instructions								
choice. Enter number of days credits per claim selected				For Office Use O	nly			21
m courins at right,			Recorded	12BIT	30/82	William De	m. do	ry
Date Recorded Holder or Agent (Signature)				Date Approved a	as/Recorded		actor	7
Cartification Variation		W3:07.	.06	air		Solution 1		
I hereby certify that I h	ave a personal and intimate kr	nowledge of	the facts set	forth in the Report o	f Work annex	ed hereto.	having performed th	ne work
or witnessed same durin Name and Postal Address o	g and/or after its completion a	and the anne	exed report is	true.				
Ronte	· · · · · · · · · · · · · · · · · · ·	2.0.2	71	DONT	TILL	s Ro	1 · ·	
Day Hun	CALE			Date Certified	0/cn	Certified t	by (Signature) ,	



GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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 Su	urvey(s)	Magnetomet	er			
Township	or Area	Fripp Township			MINING CLAT	NG TRAVERSED
Claim Hold	der(s)	Northgate	Exploration Limite	d	List nu	merically
	<u></u>					-
Survey Con	mpany	Northgate	Exploration Limite	d	P 622291	P 624298
Author of	Report	R. Zinn	8)		622 292^{fix)}	6242999 ^{er)}
Address of	Author_	P.O. Box 1	43, 1 First Canadi	an P1, Toron	.0 622293	624303
Covering D	Dates of Su	arvey <u>June</u> 1	- November 20, 198]		
Total Miles	s of Line (Cut 29	(unecutting to office)		622582	628036
					624096	628037
SPECIAL	L PROVIS	NONS		D.4.1/0	624097	628041
CREDIT	S REQUE	ESTED	Geophysical	per claim		
			Electromagnetic		624099	628043
ENTER	40 days (i	ncludes		40	624100	628044
survey.	ing) for fi	rst	-Radiometric		624101	628045
ENTER	20 davs fo	or each	-Other			
additiona	al survey i	ising	Geological		624103	
same grid	1.		Geochemical		624104	
AIRBORN	E CREDI	TS (Special provis	ion credits do not apply to airb		62 DECE	
Magnetome	eter	Electromagn	etic Radiomet	ric	624100	I.Y.H.H
		(enter d	ays per claim)		624107JV 4.5	. 1982
DATE: 2	5/11	192 SIGNA	TURE: R Bis	m	624108	
	/ /		Author of Repo	rt or Agent	824709 LATT	DS. SECITOR
			3.1	1971	624110	• • • • • • • • • • • • • • • • • • • •
Per Ceol		Ouslife	het we		6241111	
Previous Su		Quani		<u> </u>	624112	
File No.	Type	Date	Claim Holder		624113	
				·····	·····624293·····	
*****		•••••		••••••	624294	
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	•••••	••••			TOTAL CLAIMS	39
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OFFICE USE ONLY

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GEOPHYSICAL TECHNICAL DATA

G	ROUND SURVEYS	<u>5</u> If more than one survey, sp	ecify data for each ty	pe of survey	
Ŋ	umber of Stations		Number of	f Readings	
11 51	tation interval	100' detail 50'	Line spacin	400 [°]	
יט ייט	rofile scale			0	
гі С	ontour interval	200 gammas			
U					
	Instrument	Scintrex MP 2	······································		
IIC	Accuracy – Scale c	constant <u>+ 1 gamma</u>			
NE	Diurnal correction	method <u>Baseline tie in</u>			
TAG	Base Station check	in interval (hours)1			
2	Base Station location	on and valueBaseline			· · · · · · · · · · · · · · · · · · ·
S	Instrument				
ETI	Coil configuration				
CN	Coil separation				
MA	Accuracy				
IRO	Method:	Fixed transmitter	□ Shoot back	🗔 In line	Parallel line
EC	Frequency		(specify V.L.F. station)		
EL	Parameters measure	ed	(
	Instrument			<u></u>	
	Scale constant				
ΤY	Corrections made_	s			
AVI		• • • •			
GR	Base station value a	and location			
	Elevation accuracy	,,, _,, _			
	Instrument				
l	<u>Method</u>	e Domain	🗔 Fr	equency Domain	
	Parameters – On t	ime	Fr	equency	
	– Off t	ime	Ra	ange	
VII	– Dela	y time			
STI	– Integ	gration time			
ESI	Power				
8	Electrode array				
	Electrode spacing.				
•	Type of electrode				

INDUCED POLARIZATION



SELF POTENTIAL	
Instrument	
Survey Method	
Corrections made	
RADIOMETRIC	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden	
	(type, depth – include outcrop map)
OTHERS (SEISMIC, DRILL WELL LOG Type of survey	GING ETC.)
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding	g results)
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)	(appoint for each type of support)
Accuracy	(specify for each type of survey)
	(specify for each type of survey)
Aircraft used	
Sensor altitude	
inavigation and flight path recovery metho)a
Aircraft altitude	Line Spacing
Miles flown over total area	Over claims only

Numbers of claims from which samples taken_____

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Total Number of Samples	ANALYTICA	ANALYTICAL METHODS					
Type of Sample(Nature of Material) Average Sample Weight	Values expressed in:	per cent p. p. m. p. p. b.					
Method of Collection	Cu, Pb, Zn, Ni, Co,	Ag, Mo,	As,-(circle)				
Soil Horizon Sampled	Others						
Horizon Development	Field Analysis (<u> </u>	tests)				
Sample Depth	le Depth Extraction Method						
Terrain	Analytical Method						
	Reagents Used						
Drainage Development	Field Laboratory Analysis						
Estimated Range of Overburden Thickness	No. (- *	tests)				
	Extraction Method						
	Analytical Method						
	Reagents Used						
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (tests)				
Mesh size of fraction used for analysis	Name of Laboratory						
	Avaluation Method						
	Becaret Lead						
	Reagents Used						
General	General						
			······································				



2.5226

NORTE GATE EXPLORATION LIMITED

SUITE 3140, P.O. BOX 143, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M5X 1C7 • TELEPHONE (416) 362-6683 • TELEX 06-217766

June 8, 1983

Mr. E. F. Anderson Director Land Management Branch Ministry of Natural Resources Whitney Block, Room 6450 Toronto, Ontario M7A 1W3

Re: Geophysical (Magnetometer) Survey submitted on Mining Claims P622291 et al in the Township of Fripp. Your File No. 2.5226 RECEIVED Land Management Branch CIRCULATE COMMENTS PLEASE BY JUN 10 1983 E. F. ANDERSON J. R. MORTON J. C. SMITH G. SHERMAN

Dear Sir:

Further to my letter of May 30, 1983 requesting signature and date on the above report maps, the signed material has been returned to us by Mr. Zinn from the field. Therefore I am enclosing the two sets of four maps signed and dated.

I trust everything is now in order for approval of this assessment work.

Yours truly

NORTHGATE EXPLORATION LIMITED

G. Harper, Ph. D. Chief Geologist

c.c. Timming Recorder Timmins, Ontario

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GH:sd

May 27, 1983

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Northgate Exploration Box 143, 1 First Canadian Place Toronto, Ontario M5X 1C7

Dear Sirs:

RE: Geophysical (Magnetometer) Survey submitted on Mining Claims P622291 et al in the Township of Fripp

Enclosed are the plans, in duplicate, for the above-mentioned survey. Please have Mr. Zinn date and sign each one and return them to this office.

For further information, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson Director Land Management Brmach

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

Encls: D. Kinvig;mc

cc: Mining Recorder Timmins, Ontario 2,5226

Ø	Ministry of Natural Resources	Geotechnical Report	File 2.5226	
Onte	ario	Approval		Jan 31/83
	Mining Lands (Comments		
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Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 622291 et al in the Township of Fripp.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson Director Land ManagementBranch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

DW:sc

- cc: Northgate Exploration Toronto, Ontario.
- cc! Ron Zinn Don Mills, Ontario

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