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2403NW0028 2.6246 FRIPP

SUMMARY OF

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EXPLORATION ACTIVITIES

IN FRIPP TWP.

(BORDIN OPTION)

RECTIVED

JAN 4 1984

MINING LANDS SECTION

Qual 2.4971

R.A. ZINN, B.Sc.

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SUMMARY

During October of 1983, Northgate Exploration Personnel completed a VLF Survey over 12 of Dennis Bordin's claims in Fripp Twp. The survey was facilitated by using our Timmins office as a base.

4 conductors were located, the largest of which cross cuts a magnetic feature outlined by the 1982 work on the property. This cross cutting feature should be investigated in more detail.

2.0 INTRODUCTION

This report covers the exploration activities of Northgate Exploration on the 12 claims in south Fripp Twp. that were returned to D. Bordin in addition to the main block of claims as per the termination of our agreement with him. A V.L.F. E.M. 16 survey was performed on the preexisting grid during October, 1983.

3.0 LOCATION (NTS Ref 42 A/3)

The 12 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)

4.0 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.

5.0 PHYSICAL FEATURES

5.1 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.



PHYSICAL FEATURES (Cont'd.)

5.2 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.

5.3 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. 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.

5.4 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.

6.0 AUXILLIARY SERVICES

6.1 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.

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- 1 Northgate Exploration Limited
- 2 Bordin-Northgate Option
- Argentex 3
- 4 Amax
- 5 Texas Gulf
- 6 Westfield Minerals
- 7 Mattagami Lake Mines Ltd
- 8 Lacana

Figure 2 FRIPP TOWNSHIP AREA

COMPANY HOLDINGS

Scale: 1"= 1mile

6.0 AUXILLIARY SERVICES (Cont'd.)

6.2 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.

7.0 PROPERTY AND OWNERSHIP

Northgate Exploration Limited transfered the claim ownership to Mr. Dennis Bordin upon termination of its option agreement. The 12 claims are numbered 622291 to 94 inclusive, 622582 and 624096-102 inclusive.

8.0 **PROPERTY HISTORY**

Northgate Exploration Limited completed a magnetometer survey in June of 1982. No evidence of prior work on these claims was found.

9.0 GEOLOGY

9.1 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 colcanics 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.





GEOLOGY

9.1 Regional (Figure 3) (Con't.)

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

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

The Archaean volcano-desimentary 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.

10.0 E.M. 16 V.L.F. SURVEY

The VLF Survey was performed on the pre-existing grid (400' line spacing 100' stations) from 1982. Four distinct parallel conductors were identified.

Conductor A runs from line 44S at the base line to line O/2000W. This conductor is narrow and well defined with a vertical to steep easterly dip. A magnetic anomaly from line 24S/BL to line 8S/2000W is cut by the conductor at about 20°. One of the sharpest crossovers occurs on the north edge of the magnetic anomaly.

Conductor B runs from line 40S/1100W to Line 16S/2100W, this is a weak bedrock conductor parallel to conductor A.

Conductors C, C1 and D are masked by conductive overburden in the river bed.

11.0 RECOMMENDATIONS

Conductor A should be further tested by Geochemistry and Mapping especially in the vicinity of the E.M. - MAG. intersection. If those results are positive the anomaly should be drilled.

At this point in time the other conductors do not warrent further investigation.

CERTIFICATE

I Ronald Allan Zinn hereby declare that:

- 1. I am a graduate of the University of Waterloo in 1978 with a B.Sc. (Earth Sciences)
- 2. I reside at 715 Don Mills Road, Apt. 202, Don Mills, Ontario
 - I have practiced Geology since graduation, first with Essex Minerals Ltd. until November, 1978, then with M.P.H. Consulting Ltd. until October 1980, and since then with Northgate Exploration Limited.
 - I have worked in Alaska, British Columbia, Saskatchewan, Manitoba, Ontario, Quebec and Greenland.
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3.

I am a member in good standing of the Geological Association of Canada and of the Prospectors and Developers Association.

Ron Zim

R.A. Zinn, B.Sc. :



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0 F SUMMARY

EXPLORATION ACTIVITIES

FRIPP TWP. IN

R.A. ZINN, B.Sc.

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SUMMARY

During October of 1983, Northgate Exploration Personnel completed Geological Mapping, Geochemical Sampling and V.L.F. E.M. surveys over its 27 claim group in Fripp Twp.

The V.L.F. and Geochemical Surveys were somewhat inconclusive due to topographic masking. The mapping, however, even with sparse outcrop, confirms suspected contacts and rock types inferred by the prior magnetometer survey and the accompanying surveys.

The next step is to perform a low frequency horizontal loop E.M. survey to penetrate the effects of the overlying conductive clays. Conductors to the northeast (ie. base) of the ultra mafic volcanics should be drilled to test for sulphide mineralization similar to that on the Hollinger-Argus property to the southeast.

1.1 Introduction

This report covers the 1983 Exploration activities of Northgate Exploration Limited on its 27 claim group in south Fripp Twp. The target is a copper massive sulphide deposit similar to that of Hollinger-Argus immediately to the southeast.

Operations were carried out from our Field Office in Timmins during October and November of 1983.

2.0 LOCATION (N.T.S. Ref. 42A/3) Figure 1

This 27 claim group is located in the southeast quadrant of Fripp Twp. approximately 20 miles south of Timmins and immediately northwest of Bartlett Lake.

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. 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.

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- 8 Lacana

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Scale: 1"= 1mile

Timber

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

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

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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 27 claim group is wholly owned by Northgate Exploration Limited. These claims were originally part of phase two of Fripp Option Agreement with Dennis Bordin. When this option was terminated all claims within 1 mile of the originals were transfered to Bordin as well.

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.

7.0 PROPERTY HISTORY

Other than the Hollinger-Argus deposit there is no work on file concerning these claims. Also no evidence of prior work was observed while performing our surveys.

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.



8.0 GEOLOGY

8.1 Regional (Figure 3) (Cont'd.)

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.

8.2 Local (Map in back pocket)

Outcrops on the property are small and scattered. There is less than 5% outcrop exposed.

Only 3 rock types were found on the property they are described as follows:

1. Ultramafic Metavolcanics

The Ultramafic Metavolcanics are periodotites with a granular texture. They are typically fine grained with Euhedral to Subhedral Olivine Crystals. The fresh surface is black-green and weathers orange-brown. Talc-Carbonate and Tremolite alteration is noted in the literature but was not observed on this property. A minor 5-10% amount of Magnetite was found to correlate with the high mag readings.

2. Mafic Metavolcanics

The Mafic Metavolcanics are typically fine grained with occasional coarse grained massive flows. The massive flows exhibit euhedral blackgreen hornblende, plagioclase, minor epidote and blue quartz. The only appreciable amount of sulphides located were disseminated sulphides with blue quartz found on the shore of Bartlett Lake. This was also the only place blue quartz was found in the volcanics.

3. Diorite - Quartz Diorite

These intrusives belong to the Peterlong Lake Batholith Complex. They are typically medium to coarse grained, consisting of Plagioclase, Hornblende, Quartz and Biotite. No sulphide mineralization was found to be associated with this intrusive.

8.2 Local (Map in back poket) (Cont'd.)

3. (Cont'd.)

The volcanics form 2 narrow belts within the diorite stock. Although no contacts were directly observed it would appear that the diorite does not crosscut volcanic stratigraphy. Therefore, the intrusion was emplaced along original bedding planes.

9.0 E.M. 16 V.L.F. SURVEY

The V.L.F. survey was unable to locate any definite bedrock conductors. The areas in which they would be expected from the magnetometor and geological surveys are swamp covered as is common in this area. A lower frequency system (horizontal loop E.M.) will be required to see through the surface noise caused by conductive clays.

10.0 SOIL GEOCHEMISTRY SURVEY

A total of 446 soil samples was taken. These were analyzed for Cu, Pb, Zn, Ni.

This is somewhat less than optimal as a large portion of the grid is covered by swamp and spruce bog.

The overall results are quite disappointing with very few samples returning results of 20 p.p.m. or higher (# samples \ge 20 p.p.m. = 51, Zn 42, Ni 15, Cu 11, Pb 4). The highest result was 131 p.p.m. Ni over the ultramafic volcanics.

The topography presents a real problem in utilizing geochem techniques in that the E.M. anomalies and magnetic anomalies are associated with swamps and spruce bog. Soil samples are impossible to obtain using manual methods.

It should however be noted that the results cannot be considered negative as the topography discourages any extension of a geochemical halo perpendicular to the strike of the geology.

CERTIFICATE

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- I am a graduate of the University of Waterloo in 1978 with a B.Sc. (Earth Sciences)
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- 5.

I am a member in good standing of the Geological Association of Canada and of the Prospectors and Developers Association.

Ron zim

R.A. Zinn, B.Sc. '



Ministry of Natural Resources

File.

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 Surv	vey(s) <u> </u>	OLOGY GEO	CHEMISTRY E.M.16			
Township or	Area FR	IPP TWP.				TRANCRO
Claim Holder	r(s) NO	RTHGATE EX	(PLORATION		List num	erically
	<u>.</u>					
Survey Com	pany <u>NO</u>	RTHGATE EX	(PLORATION		· · · · · · · · · · · · · · · · · · ·	
Author of R	eport <u>R.</u>	A. ZINN			(prefix)	(number)
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					TOTAL CLAIMS	27
					IUIAL ULAIMS_	

GEOPHYSICAL TECHNICAL DATA

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Number of Stations 1508 Number of Readings 1508 Station interval 100' Line spacing 400' Profile scale 1 cm = 40% Contour interval M/A Instrument Accuracy - Scale constant Diurnal correction method Base Station check-in interval (hours) Base Station location and value Instrument Instrument VLF GEONICS EM16 Coil configuration HORIZONTAL LOOP Coil separation AS PER GRID Accuracy If 1% Method: XD Fixed transmitter Frequency 12.8KHz CUTLER MAINE Instrument TILT ANGLE OF POLARIZATION ELLIPSE Instrument Scale constant Corrections made Scale constant Elevation accuracy Elevation accuracy
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Accuracy - Scale constant
Diurnal correction method
Base Station check-in interval (hours)
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Coil configuration HORIZONTAL LOOP Coil configuration AS PER GRID Accuracy I d 1% Method: IX Fixed transmitter Shoot back In line Parallel line Frequency 17.8KHz CUTLER MAINE (specify V.L.F. station) Parameters measured TILT ANGLE OF POLARIZATION ELLIPSE Instrument Scale constant Corrections made Base station value and location Elevation accuracy
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Elevation accuracy
Elevation accuracy
Instrument
Method Time Domain Frequency Domain
Parameters On time Frequency
Construction - Off time Range
Delay time
Power
Electrode array
Electrode spacing

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SELF POTENTIAL

Instrument	_ Range
Survey Method	
Corrections made	

RADIOMETRIC

Instrument		
Values measured		
Energy windows (levels)		
Height of instrument	Background Count	
Size of detector		
Overburden		

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding results)	

AIRBORNE SURVEYS

Type of survey(s)	
Instrument(s)	pecify for each type of survey)
Accuracy	pecify for each type of survey)
Aircraft used	
Sensor altitude	
Navigation and flight path recovery method	
Aircraft altitude	Line Spacing
Miles flown over total area	Over claims only

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken_____27

Total Number of Samples	446	
Type of Sample	SOIL	
(Nature o	f Material)	
Average Sample Weight	<u>+ 10 gm</u>	
Method of Collection	HAND	
Soil Horizon Sampled	В	

 Soil Horizon Sampled
 B

 Horizon Development
 GOOD TO POOR

 Sample Depth
 LESS THAN 1'

 Terrain
 LOW HILLS + SWAMP

Drainage Development___GOOD_OR_POOR_____ Estimated Range of Overburden Thickness__0_- 60'

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for an	alysis <u>-80</u>
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General_____

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ANALYTICAL METHODS Values expressed in: per cent p. p. m. p. p. b. Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle) Others______ Field Analysis (________tests)

Extraction Method _______ Analytical Method ______ Reagents Used ______ Field Laboratory Analysis No. (_______tests) Extraction Method _______ Analytical Method ______ Reagents Used ______ Commercial Laboratory (446 ______

Commercial Laboratory (_	440	tests)
Name of Laboratory	BONDAR-CLEGG	
Extraction Method	HNO ₂ -HC1	
Analytical Method	AA	
Reagents Used		

General _____



1.11.

NORTHGATE EXPLORATION LIMITED 0, HARPER F.O. BOX 143 18T CAN. PLACE TORONTO, ONT, M5X 1C7

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Invoice: 105049

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Date: December 05, 1983

Report No: 013-3549

Project: 785

446 Analyses of Copper	at	1.90	847,40	
446 Analyses of Nickel	e t	0.95	423,70	
446 Analyses of Lead	at	0.95	423.70	
446 Analyses of Zinc	at	0.95	423.70	
Subtotal			2118,50	2118.50
Semple Preparation				
446 Samples of DRY, SEIVE -80	et	0.75	334,50	
Subtotal		•	334.50	334,50

Invoice Total

\$2453.00

Bondar-Crege of Dan 764 Belfast Road Ottawa, Ontario Canada KIG 025 Phone: (613) 237-31 Telex: 053-4455	BONDAR-CLEGG

1.1

NORTHGATE EXPLORATION LIMITED B. HARPER F.O. BOX 143 18T CAN. PLACE TORONTO, ONT. M5X 1C7

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Invoice: 105049 Bate: December 05, 1983 Report No: 013-3549 Project: 785

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Invoice Total

\$2453.00

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THIS IS A PROFESSIONAL SERVICE

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= 163.53

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. A. ZINN, C/O NOR	THGATE EXPLORA	TION LT	⁰ •• 1 FI	RST CDN. F	PL., STE.	<u>3140, T</u>	DRONTO, ONT	ARIO
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lan Days	Geophysical	Days per Claim	ing a company	624109	6		EXPENDIT	URES
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Certification Verifying Rep	ort of Work						\overline{f}	
I hereby certify that I have or witnessed same during an	a personal and intimate nd/or after its completion	knowledge o h and the ani	if the facts set nexed report	t forth in the Re is true.	port of Work ani 7	nexed her eld	, naving performed	the work

mar. 13th

Ontario Resources Geo	pphysical, Geological, chemical and Expend	itures)_+	F 36 The Minir		Note: -	exceeds space Only days co "Expenditures" in the "Expe Done use sha	nining clair on this form, edits calcula ' section may nd. Days Cr ded areas belo	attach a li attach a li attach a li ted in t y be enter "" columi ow.
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Certification Verifying Repo	rt of Work				-/		17	
I hereby certify that I have a	personal and intimate ki	nowledge o and the an	f the facts set	forth in the Repor	t of Work anne	exec hareto, havin	ig performed	the work
Name and Postal Address of Per	son Certifying		Den Hills	• • • • •				
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NORTHGATE EXPLORA	TION LIMITED					11 83		Cut
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			Recorded	Novà	12/83.		Hanley	
Date / F	102) Date Approve	ed as Recorded	Branghin	ig Recorder			
Certification Verifying Par	Dort of Wind	<u> </u>	L/ **				/	
I hereby certify that I have	a personal and intimate k	nowledge of	the facts set f	orth in the Repor	rt of Work ann	exed hereto, I	naving performed	the work
or witnessed same during a	nd/or after its completion	and the ann	exed report is	true.				
Ronald A 7inn	erson Certifying 202_715 Dan Mil	le D4	Don Mil	le Antonia	- M2C 1C	: л		
	COC-110 DUN MIN	13 NU.,		Date Certifier		Certified t	y (Signature)	
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2.6246

1984 06 22

Your File: 367-83 Our File: 2.6246

Mr. Bruce W. Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

RE: Notice of Intent dated May 31, 1984 Data for Assaying, Geophysical (Electromagnetic), Geological and Geochemical Survey on Mining Claims P 622291 et al and P 624103 et al in the Township of Fripp

, alle site and a second of the second of the second of the second se

The assessment work credits as listed with the abovementioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these Mining Claims and so indicate on your records.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone:(416)965-4888

- S. Hurst:mc
- cc: Northgate Exploration Limited P.O. Box 143 7 First Canadian Place Suite 3140 Toronto, Ontario M5X 1C7
- cc: Resident Geologist Sioux Lookout, Ontario

cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario



Work Credits

AMENDED

Dete 1984 06 08 Mining Recorder's Report of Wark No. 367–83

2.6246

File

Recorded Holder

Ministry of Natural

Resources

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NORTHGATE EXPLORATION LIMITED

Township or Area FRIPP TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic days	P 624103 to 113 inclusive 624293 to 299 inclusive
Magnetometer days	624303-04 628036-37
Radiometric days	628041 to 045 incl.
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geochemical days	
Man days 🗌 🛛 Airborne 🗌	· ·
Special provision 🔀 Ground 🕮	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following n	nining claims
Special clear to under accion 77 (107 for the following a	
No credits have been allowed for the following mining c	laims
not sufficiently covered by the survey	Insufficient technical data filed
1	
The Mining Recorder may reduce the above credits if nec- each claim does not exceed the maximum allowed as fo	essary in order that the total number of approved assessment days recorded on llows: Geophysical 80; Geological 40; Geochemical 40; Section 77 (19)60:



Natural Resources

Ministry of

AMENDED

Date 1984 06 05 Mining Recorder's Report of Work No. 367–83

2.6246

Recorded Holder

NORTHGATE EXPLORATION LIMITED

Township or Area FRIPP TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical 20 Electromagnetic days	P 624106 to 113 inclusive 624293 to 299 inclusive 624303-04
Magnetometer days	628036-37 628041 to 045 inclusive
Radiometric days	020041 00 043 110103170
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geochemical days	
Man days 🗌 🛛 Airborne 🗌	
Special provision 🛛 Ground 🖾	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following	mining claims
15 DAYS GEOLOGICAL & ELECTROMAGNETIC	10 DAYS GEOLOGICAL & ELECTROMAGNETIC
P 624103-04	P 624105
No credits have been allowed for the following mining	claims
not sufficiently covered by the survey	Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19) — 60: 828 (83/6)



Ministry of Natural Resources

me 15, 1984

Vour file: 367-83

1984 05 31

Mr. Bruce W. Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-6918.

Yours very truly,

Yundt S.E.

Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1316

K S. Hurst:mc Encls.

> cc: Northgate Exploration Limited P.O. Box 143 l First Canadian Place Suite 3140 Toronto, Ontario M5X 1C7

cc: Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

FILE



Ministry of Natural Resources Notice of Intent for Technical Reports 1984 05 31

2.6246/367-83

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



NORT ATE EXPLORATION LIMITED

SUITE 3140, P.O. BOX 143, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M5X 1C7 • TELEPHONE (416) 362-8683 • TELEX 06-217766

June 5, 1984

Mr. Bruce W. Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Re: Timmins File #367-83 Land Mgmt. Branch #2.6246

Dear Sir:

Please find enclosed two copies each of invoices and cheques for analytical work by Bondar-Clegg of Ottawa.

We would like to apply 60 days immediately to the claims indicated and hold the remaining 103.53 days in reserve pending Mining Lands review of the data.

Thank you for your attention to this matter.

Yours truly

NORTHGATE EXPLORATION LIMITED

1 Sinn

R. A. Zinn Project Geologist

RAZ:sd

c.c. Sue Hurst, Mining Lands Branch Whitney Block, Room 6610 Queen's Park Toronto, Ontario M7A 1W3

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SECTION	

RECEIV Land Management	E D Branch
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U. F. YUNDT	
J. K. MORTON	
J. C. Sherry	
W. I. GOOD	
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NORTHGATE EXPLORATION LIMITED **B. HARPER** P.O. BOX 143 1ST CAN. PLACE TORONTO, ONT. M5X 1C7

Invoice: 105049 Date: December 05, 1983 Report No: 013-3549 Project: 785

✓ 446 Anælyses of Copper	at	1.90	847.40	
/ 446 Analyses of Nickel	at	0.95	423.70	
/ 446 Analyses of Lead	- at	0.95	423.70	
446 Analyses of Zinc	. "Bt	0.95	423.70	
Subtotal			2118.50	2118.50
Sample Preparation				· .
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Subtotal			334.50	334,50
Invoice	Total			42457.00

\$2453.00

745-364



Geotechnical Report Approval

File 2. 6.2.46 Feb. 24/24

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Mining Lands Comments

· map (beelogs) not	colorer e el
Comments Mr. Barlow.	
Approved Wish to see again with corrections	Date Much 19/94 Signature PRL
DTo: Geology - Expenditures Mr. Kustra	·
	Dese Signature +
4 To: Geochemistry	Clinic 10/84 CRUsha
Comments Sil, acortomical Reft	very big
	had
Approved Wish to see again with corrections	Mand 19th 1984 Stal Fortesau
To: Mining Lands Section, Room 6462, Whitney Block.	(Tel: 5-1380)

Iminal Check

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OK.

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Assessed

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Approved Reports of Work sent out

Notice of Intent filed

Approval after Notice of Intent sent out

Duplicate sent to Resident Geologist

Duplicate sent to A.F.R.O.

1984 01 13

Our File: 2,6246

Mr. Bruce Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

We have received reports and maps for Data for Assaying and for a Geophysical (Electromagnetic) Geological and Geochemical Surgey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 622291 et al and P 624103 et al in the Township of Fripp.

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

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours very truly,

J.R. Morton Acting Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-1380

M.E. Anderson:mc

cc: Northgate Exploration Ltd Suite 3140 P.O. Box 143 1 First Canadian Place Toronto, Ontario M5X 1C7 Attention: R.A.Zinn

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Proj. no: 785 Scale: 1"= 400' 1: 4800 Drawn by: Rodel Ortiz Date: Dec '83 Rev. by: R Sim Date: 4/1/34





 Work by: S. Orth
 Date: Oct./83
 Proj. no:
 785
 Scale:
 1''=400'

 Drawn by: S. Orth
 Date: Oct./83
 Rev. by: R_3 m Date: 3/1/94

 2.62.46
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