

2.12703

#### GOLD LITHOGEOCHEMISTRY IN THE SHAFT AREA OF THE UNION PROPERTY

WHITESIDES TOWNSHIP

PORCUPINE MINING DIVISION

ONTARIO

N.T.S. 42A/5

2.12703

Glen J. Prior Norwin Geological Ltd. August, 1989

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MINING LANDS SECTION

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#### **APPENDICES**

- 1 Analyses
- 2 Assessment Data

The Union Property, which consists of four unpatented mining claims, is situated in Whitesides Township, northeastern Ontario, approximately 35 km west-southwest of Timmins. Former exploration within the property area included the sinking of a 260 foot shaft and 460 feet of drifting and crosscutting. A program of lithogeochemical sampling within the area of the shaft collar, described in this report, returned values of up to 0.176 oz Au/ton. Mineralization occurs within a zone of strong alteration and ductile deformation approximately 20 m wide containing quartz, iron carbonate, chlorite, sericite, green mica, tourmaline, pyrite and chalcopyrite.

#### Introduction

The Union Property consists of four unpatented mining claims located in central Whitesides Township, northeastern Ontario (figure 1). The property lies approximately 35 km west-southwest of Timmins and 1 km east of the Kamiskotia River. Road access to the eastern part of the property may be gained by driving northwest from highway 101 along a series of old logging roads (figure 2).

#### Land Position

The Union Property consists of the following four claims (see also figure 2):

CLAIM NUMBERS	DATE	RECORDED
P1042412	July	4, 1988
P1042413	July	4, 1988
P1042414	July	6, 1988
P1042415	July	6, 1988

The claims were staked by and are presently held by Glen James Prior of Norwin Geological Ltd.

#### History

In 1913 a 75 foot prospecting shaft was sunk on what is now the Union Property (Sutherland et al., 1922). Between 1920 and 1922 the ground was developed by the Union Mining Corporation, Limited. The original prospecting shaft was deepened to 260 feet with levels established at 150 and 250 feet. On the 150 foot level 230 feet of crosscutting and 100 feet of drifting were completed while on the 250 foot level 130 feet of crosscutting was done. Work in Whitesides Township was terminated by the company in order to exploit a property in the Kirkland Lake area (Sutherland et al., 1922; Sutherland et al., 1923).

No assessment data for the area of the Union Property occurs within the assessment files of the Resident Geologist's Office in Timmins. During staking and sampling (described in this report) no evidence of line cutting or diamond drilling was noted.

Geology

Graham (1931) describes the gold occurrence at the Union Mine as follows (see also figure 3): "The shaft was put down on a chlorite carbonate schist zone, which is 60 feet wide and outcrops over a length of 300 feet. This zone, resulting from the alteration of Keewatin basalt flow top, is filled with stringers and irregular masses of quartz. Associated with the quartz are pyrite, pyrrhotite, chalcopyrite, calcite, and ankerite. The schist enclosing the quartz is also well mineralized with sulphides. A small aplite dyke, a foot wide, penetrates irregularly through Keewatin basalts about 400 feet south of the schist zone. A 60-foot diabase dike cuts north through the centre of this zone.

Alteration and mineralization of the Keewatin basalt resulted from the intrusion of a large granite dike, which was encountered at depth in the shaft."

Alteration And Mineralization Noted During Sampling Program

Mineralization within the Union shaft area is hosted by a zone of alteration and ductile deformation approximately 20 meters wide trending approximately 085 degrees. Deformation and alteration within the zone has created strongly foliated, schistose rocks with steeply dipping foliations trending subparallel to the boundaries of the highly altered zone. Quartz and quartz-iron carbonate veins up to 4 meters in width, trending subparallel to foliation, are common within the altered rocks. The veins contain up to 4 % pyrite and chalcopyrite and up to 20 % very fine grained tourmaline. The wallrocks are very strongly foliated, schistose rocks composed of varying proportions of quartz, iron carbonate, chlorite, sericite and green mica. Locally, green (chrome?) mica forms up to 5% of the rock.

Sampling Program And Results

Rock sampling of the area near the Union shaft was undertaken in November, 1988 and May, 1989. All samples were analysed for Au by Accurassay Laboratories Ltd. of Kirkland Lake, Ontario (appendix 1). Initial analyses were performed using fire assay preconcentration with an A.A. finish (recorded in ppb). Samples returning greater than 1000 ppb Au were reanalysed by fire assay with a gravimetric finish (recorded in oz/ton). The locations of the 62 samples collected is shown on figure 3 with analyses in excess of 50 ppb indicated on figure 4. Twenty-one of the samples (34%) contain greater than 50 ppb Au, 15 (24%) returned values in excess of 100 ppb and 5 samples (8%) yielded results of over 1000 ppb Au. Fire assay reanalyses of the samples over 1000 ppb Au returned 0.176, 0.075, 0.065, 0.036, and 0.018 oz Au/ton. These samples are described below:

Sample Number	Au (oz/ton)	Description
UN55550	0.036	Rubble on rock dump near shaft. White, fine grained quartz with 5-8 % black, very fine grained tourmaline stringers up to 2 mm across. 0.5-2% chalcopyrite in small pods.
UN55562	0.075	Angular trench rubble. White, quartz vein material with minor limonite and trace malachite along hairline fractures, 2-3% chalcopyrite and 1-2% pyrite. The sulphides occur intimately associated in blebs up to 5 mm across and as irregular veinlets along hairline fractures.
UN17121	0.065	Rubble on rock dump near shaft. Massive quartz with up to 2% coarse, irregular chalcopyrite.
UN17123	0.018	Similar to UN17121
UN17143	0.176	Rubble on rock dump near shaft. Massive quartz with wallrock inclusions and 0.5 % chalcopyrite and pyrite.

Respectfully submitted,

Glen J. Prior, M.Sc., Norwin Geological Ltd. August, 1989

#### REFERENCES

- Graham, A.R., 1931. Groundhog-Kamiskotia Area, Cochrane District, Ontario; Ont. Dept. of Mines. Annual Report, Vol. 40, Part 3, p. 23-36.
- Sutherland, T.F., McMillan, J.G., Bartlett, J., and Webster, A.R., 1922. Mines of Ontario; Ont. Dept. of Mines Annual Report, Vol. 30, Part 1, p. 63-158.

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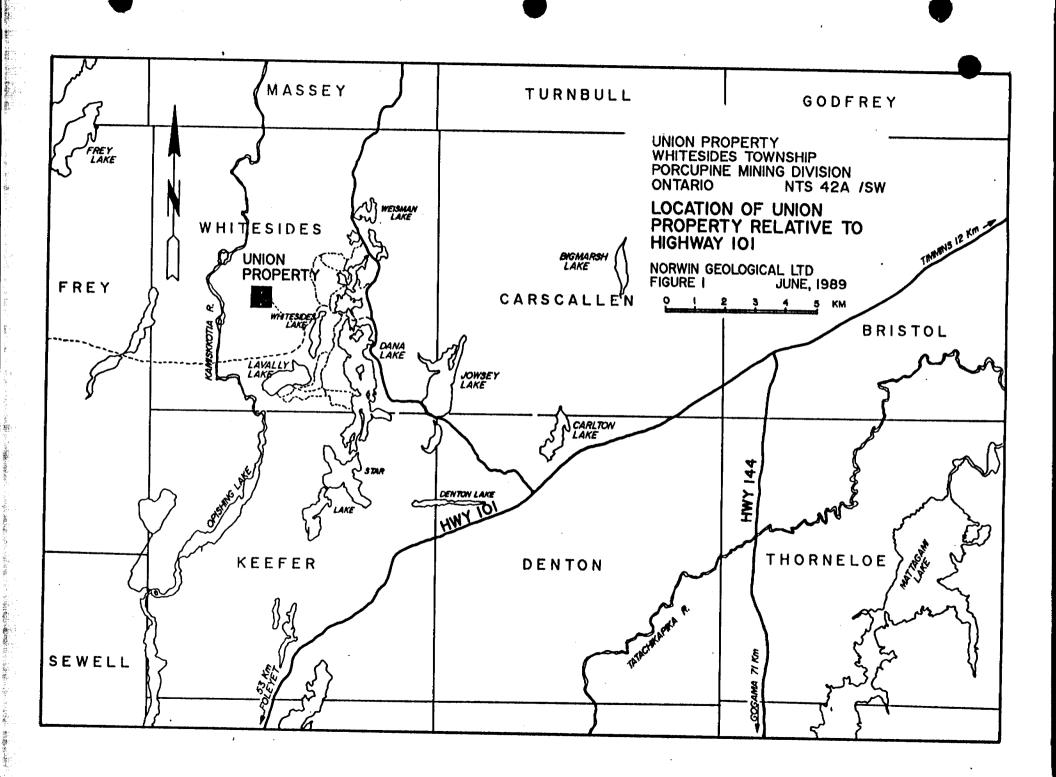
Sutherland, T.F., McMillan, J.G., Bartlett, J., Webster, A.R., and Cole, G.E., 1922. Mines of Ontario; Ont. Dept. of Mines Annual Report, Vol. 31, Part 10, p. 11-86.

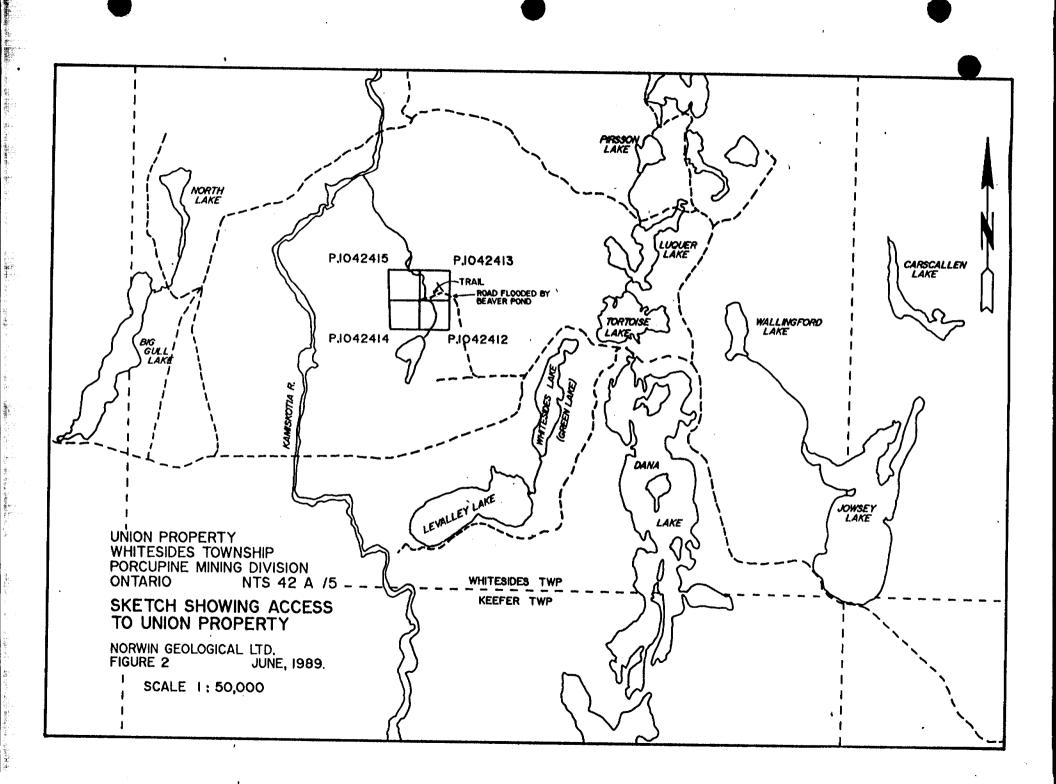
#### STATEMENT OF QUALIFICATION

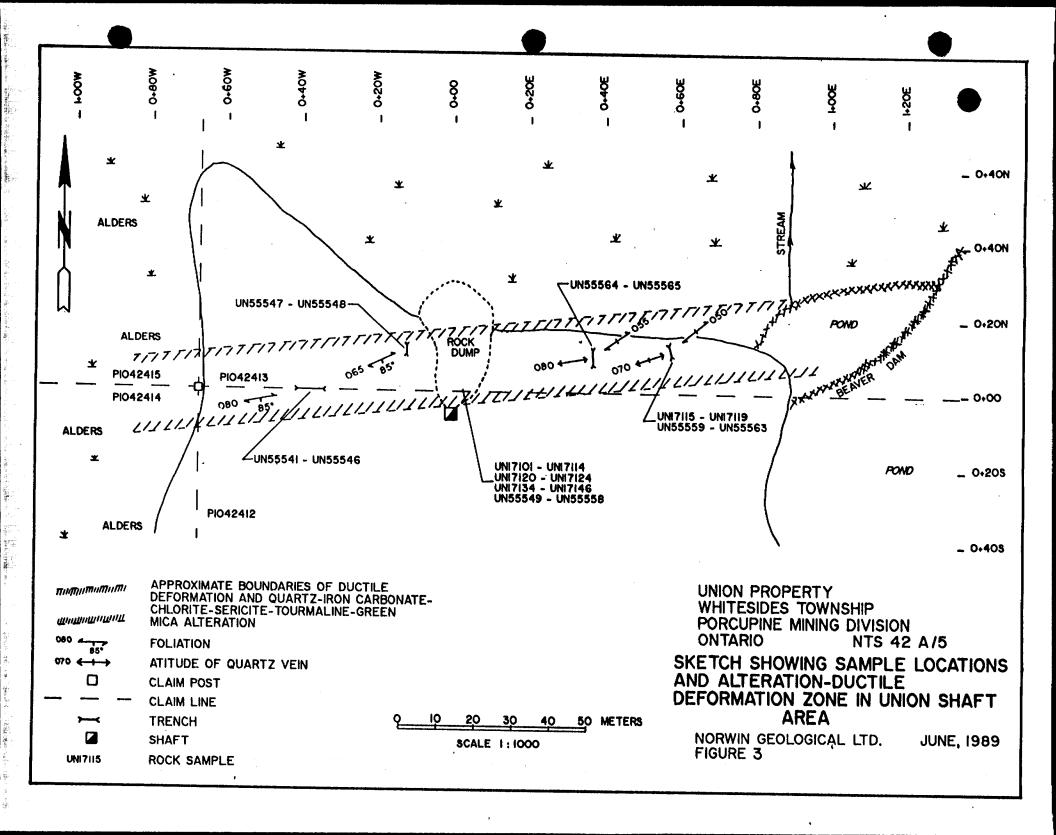
- I, Glen James Prior do hereby certify:
- 1. that I am a geologist and reside at C412-1290 Bancroft Drive, Sudbury, Ontario, P3B 4E1,
- 2. that I graduated from Laurentian University, Sudbury, Ontario, in 1982 with an Honours Bachelors of Science Degree in Geology and received a Master of Science Degree in Geology form the same institution in 1987,
- 3. that I have practiced my profession for the past seven years,
- 4. that this report is based upon field work on the Union Property that I supervised during November, 1988 and May, 1989.

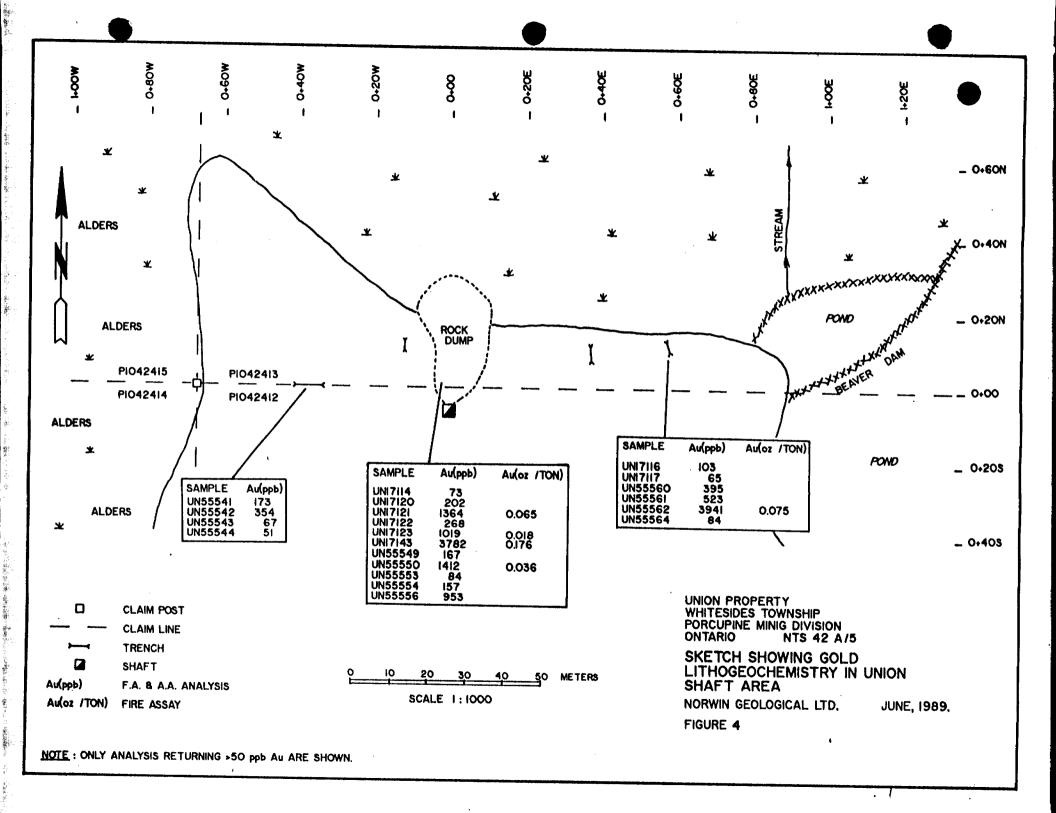
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Glen J. Prior, M.Sc., Norwin Geological Ltd. August, 1989



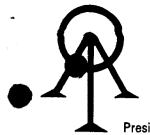






APPENDIX 1

ANALYSES



21969

## **ACCURASSAY LABORATORIES LTD.**

P.O. BOX 604 KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5 TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

# Certificate of Analysis

Mr. Glen Prior Norwin Resources Ltd. 560 Notre Dame Ave.

Sudbury, Ontario P3C-5L2

Page:

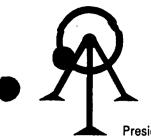
Date: November 23

1988

Work Order # : 881169

Project

SAMPLE	NUMBERS	Gold	
Accurassay	Customer	ppb	
155492	UN17101	48	
155493	UN17102	31	
155494	UN17103	16	
155495	UN17104	12	
155496	UN17105	19	
<b>1</b> 55497	UN17106	12	
55498	UN17107	15	
155499	UN17108	16	
155500	UN17109	26	
155501	UN17110	16	
155501	UN17110	20	Check
155502	UN17111	14	OHOOR
155503	UN17112	12	
155504	UN17113	20	
155505	UN17114	73	
155506	UN55541	173	
155507	UN55542	354	
155508	UN55543	67	
155509	UN55544	51	
155510	UN55545	17	
155510	UN55545	15.	Check
155511	UN55546	48	JEGGE
155512	UN55547	16	
155513	UN55548	12	
155513	UN55548	21	Check



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# Certificate of Analysis

Page:

24649 Norwin Resources Ltd. 560 Notre Dame Ave. Sudbury, Ontario P3C-5L2

Date: May 25 1989

Work Order # : 891366

Project

			•
	NUMBERS	Gold	
Accurassay	Customer	ppb	
193491	UN-55549	167	
193492	UN-55550	1412	
193493	UN-55551	36	
193494	UN-55552	44	
193495	UN-55553	84	
193496	UN-55554	157	
193497	UN-55555	44	
193498	UN-55556	953	
193499	UN-55557	27	
193500	UN-55558	6	
193500	UN-55558	13	Check
193501	UN-55559	13	CHECK
193502	UN-55560	395	
193503	UN-55561	523	
193504	UN-55562	3941	
193505	UN-55563	84	
193506	UN-55564	5	
193507	UN-55565	<b>&lt;</b> 5	
193508	UN-17115	9	
193509	UN-17116	103	
193509	UN-17116	86	Check
193510	UN-17117	65	CHECK
193511	UN-17118	10	
193512	UN-17119	8	
193513	UN-17120	202	
193514	UN-17121	1364	
193515	UN-17122	268	
193516	UN-17123	1019	
193517	UN-17124	10	
193518	UN-17134	29	
717271	~ · · · · · · · · · · · · · · ·	<i>u</i>	

UN-17134



Per: <u>G. Uluncan</u>

193518

22

Check



# **ACCURASSAY LABORATORIES LTD.**

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# Certificate of Analysis

Page:

24650 Norwin Resources Ltd. 560 Notre Dame Ave. Sudbury, Ontario P3C-5L2

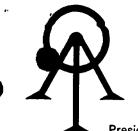
Date: May 25

1989

Work Order # : 891366

Project

	SAMPLE	NUMBERS	Gold	
	Accurassay	Customer	ppb	
	193519	UN-17135	36	
	193520	UN-17136	18	
	193521	UN-17137	<5	
	193522	UN-17138	9	
	193523	UN-17139	8	
D	193524	UN-17140	6	
	193525	UN-17141	<b>&lt;</b> 5	
	193526	UN-17142	10	
	193527	UN-17143	3782	
	193527	UN-17143	3871	Check
	193528	UN-17144	31	Oneck
	193529	UN-17145	8	
	193530	UN-17146	13	
	193530	UN-17146		Ch = = 1=
		011-11140	13	Check



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# Certificate of Analysis

Norwin Resources Ltd. 560 Notre Dame Ave. 24818 Sudbury, Ontario P3C-5L2

Page #1

Date: 06/05/89

19 \_

Assay results are as follows:

Project REASSAY

Work Order 891366

SAMPLE NUMBER Accurassay Customer	Original Gold	Check Oz/T
193492 UN-55550	1412	0.036
193504 UN-55562	3941	0.075
193514 UN-17121	1364	0.065
193516 UN-17123	1019	0.013
193527 UN-17143	3782	0.176
193527 UN-17143	3871 Check	



Per: \_\_\_\_ g Wuncan

APPENDIX 2

ASSESSMENT DATA



#### Ministry of Northern Development and Mines

# Geophysical-Geological-Geochemical Technical Data Statement

File	

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.

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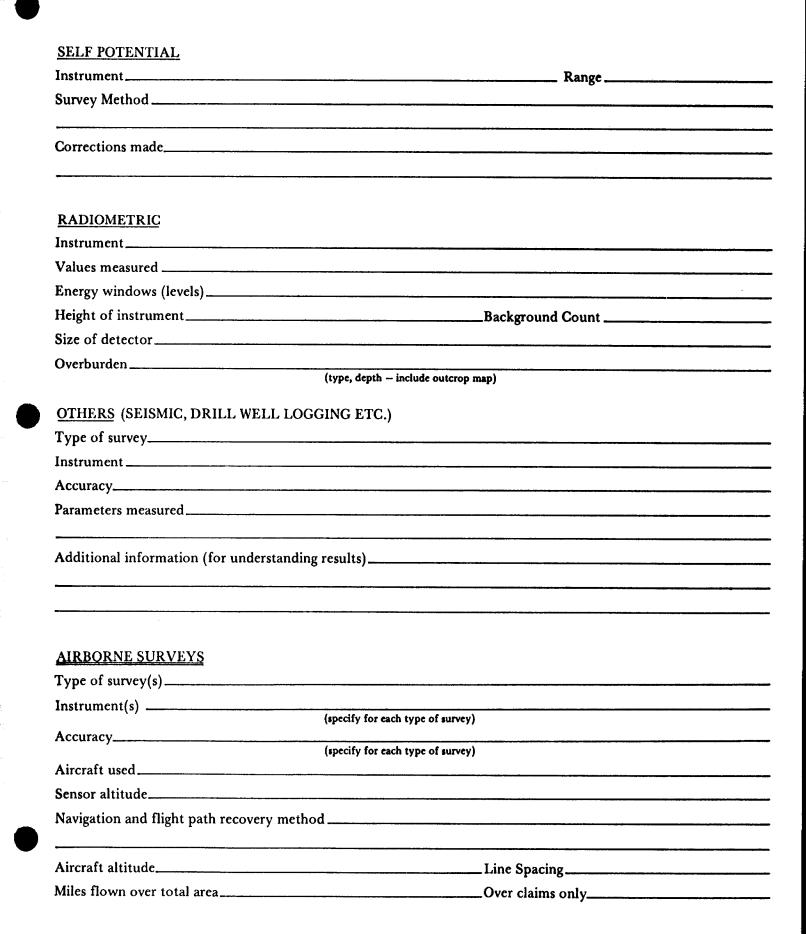
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#### **GEOPHYSICAL TECHNICAL DATA**

GROUND SURVEYS - If more than one survey, specify data for each type of survey

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#### GEOCHEMICAL SURVEY – PROCEDURE RECORD

A .	
Total Number of Samples 62	
Type of Sample Rock (Nature of Material)	─ Values expressed in: per cent □
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Method of Collection GRAB SAMPLES FROM	
OUTCROP, TRENCHES, AND SHAFT ROCK D	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)
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Horizon Development	Field Analysis (tests
Sample Depth	Extraction Method
Terrain	Analytical Method
Drainage Development	
Estimated Range of Overburden Thickness	
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION	Commercial Laboratory ( 62 + 5 = 67 tests
(Includes drying, screening, crushing, ashing)	Name of Laboratory ACCURASSAY LABORAT
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#### FINANCIAL SUMMARY

#### **EXPENDITURES**

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#### Rock Samples:

Nov. 23/89	22 Analyses @ \$6.50 22 Sample Props @ \$3.50	\$ 143.00 77.00
May 25/89	40 Analyses @ \$6.50 40 Sample Props @ \$3.95	260.00 158.00
June 5/89	5 Gold Checks @ \$8.00	 40.00
		\$ 678.00

#### CALCULATION OF EXPENDITURE CREDITS

\$678.00 % 15 = 42.5 days credit

#### ASSIGNMENT OF EXPENDITURE CREDITS

Mining Claims	Expenditure Days Credits
P.1042414	22.6
P.1042415	22.6

ACCURASSAY LABORATORIE TD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 604, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5



# 88810

TEL.: (705) 567-6343 - FAX: (705) 568-8368

Norwin Resources Ltd 560 Notre Dame Ave. Sudbury, Ontario F3C-51.2 -

DATE November 23, 1988 CUSTOMER ORDER Nº WORK-ORDER Nº .881169 DATE SUBMITTED

net 30 days, 2.03 per month on everque accounts.

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Thank You!

# ACCURASSAY LABORATORIES LTD. CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS

CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS

Box 604, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5

## INVOICE

# 890727

TEL.: (705) 567-6343 - FAX: (705) 568-8368

Norwin Rescurces Ltd 560 Notre Dame Ave. Sudbury, Ontario PSC-5L2

CUSTOMER ORDER Nº

May 25,

Various

DATE SUBMITTED

TERMS

net 30 days, 2.0% per month on overdue accounts.

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Thank You!

CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 604, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5



TEL.: (705) 567-6343 - FAX: (705) 568-8368

Horwin Resources Ltd 560 Notre Dame Ave. Sudbury, Ontario POC 5L2

June 5', 1989 CUSTOMER ORDER Nº WORK ORDER Nº Various DATE SUBMITTED

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#### Report of Work

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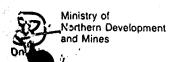


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June 29, 1989	Men Im			west	17_	1. Wh	Ku	لبحد
ertification Verifying Report	rt of Work			KM	ι.			

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work

Name and Postal Address of Person Certifying

or witnessed same during and/or after its completion and the annexed report is true.



#### Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT 8906	
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nctions: — Please type or print.

— If number of mining claims traversed exceeds space on this form, attach a list.

Note: — Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

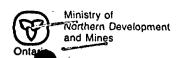
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C412 -	1290 Bancrof	t. Sud	dburv. Onta	rio Pi	RR AF1			
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	Geological L	td.				05 89 Mo. 1 Yr.		
Name and Address of Author (o		·			··· ]	1410. ] 11.	I	
Glen Prior,				ry, Ont	cario	P3B 4E		
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June 29, 1989	Ilen Pm		LOV L	Dept.	25/89	WES	Con-	
rtification Verifying Repor				IRM				
I hereby certify that I have a por witnessed same during and/	personal and intimate knows	owledge of	the facts set forth in t	the Report of	Work annexe	d hereto, h	aving performed t	he work

Name and Postal Address of Person Certifying

L.D.S. Winter c/o Norwin Geological Ltd. 560 Notre Dame Avenue/
Sudbury. Ontario P3C 512

Date Certified Contributed Contribut

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#### Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

nstructions: - Please type or print.

- If number of mining claims traversed exceeds space on this form, attach a list.

More: -								
	"€	xper	nditui	es" se	ction	may I	be ent	ere
				pend.				
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Lithogeochemical 2 12 Whitesides Township  Claim Holder(s)  Glen J. Prior 560-8735 Prospector's Licence No.  D-19738	<u> </u>	Mining Act	<ul> <li>Do not use shaded areas below.</li> </ul>
Claim Holder(s)  Glen J. Prior  Glen J. Prior  C412 - 1290 Bancroft Drive, Sudbury, Ontario P3B 4E1  Survey Company  Norwin Geological Ltd.  Name and Address of Author (of Geo-Technical report)  Glen Prior, C412 - 1290 Bancroft Drive, Sudbury, Ontario P3B 4E1	Type of Survey(s)	2 2 2 2 2 3	Township or Area
Claim Holder(s)  Glen J. Prior  560-8735  D-19738  Address  C412 - 1290 Bancroft Drive, Sudbury, Ontario P3B 4E1  Survey Company  Norwin Geological Ltd.  Name and Address of Author (of Geo-Technical report)  Glen Prior, C412 - 1290 Bancroft Drive, Sudbury, Ontario P3B 4E1		2.12.00	Whitesides Township
C412 - 1290 Bancroft Drive, Sudbury, Ontario P3B 4E1  Survey Company  Norwin Geological Ltd.  Name and Address of Author (of Geo-Technical report)  Glen Prior, C412 - 1290 Bancroft Drive, Sudbury, Ontario P3B 4E1		560-8735	Prospector's Licence No.
Norwin Geological Ltd.  Name and Address of Author (of Geo-Technical report)  Glen Prior, C412 - 1290 Bancroft Drive, Sudbury, Ontario P3B 4E1	Address		1 0-13730
Norwin Geological Ltd.  Name and Address of Author (of Geo-Technical report)  Glen Prior, C412 - 1290 Bancroft Drive, Sudbury, Ontario P3B 4E1	C412 - 1290 Bancro	ft Drive, Sudbury, Ontar	io P3B 4E1
Name and Address of Author (of Geo-Technical report)  Glen Prior, C412 - 1290 Bancroft Drive, Sudbury, Ontario P3B 4E1	Survey Company	Date of Survey	(from & to) ex Total Miles of line Cut
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	Glen Prior, C412	- 1290 Bancroft Drive, S	udbury, Ontario P3B 4E1
	Credits Requested per Each Claim in Columns at		

Norwin	Geological L	td.	Day   Mo.   Yr.   Day   Mo.   Yr.	ut
Name and Address of Author (	of Geo-Technical report)			
Glen Pr	ior, C412 -	1290	Bancroft Drive, Sudbury, Ontario P3B 4	E 1
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Man Days	Geophysical	Days per Claim		
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	- Other		JUN 80 1989	
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P1042412 and	P1042413			·
Calculation of Expenditure Days	Credits			
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\$ 678	+ 15 = 45	5.2	Total number of mining claims covered by this	

Total Expenditures Days Credits	1 19 23 11	
\$ 678 ÷ 15 = 45.2	Total number of mining claims covered by this report of work.	
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.	For Office Use Only  Total Days Cr. Date Recorded Recorded  Mining Roorder	
Date Recorded Holder or Agent (Signature)  June 29, 1989 Min France	15.1 Date Approved as Recorded Branch Director	
Certification Verifying Report of Work	RM	

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

me and Postal Address of Person Certifying

c/o Norwin Geological Ltd., 560 Notre Dame Avenue,

Date Certified Contiled L.D. S. Winter

Sudbury, Ontario P3C 5L2

June 29 1989

## **REFERENCES**

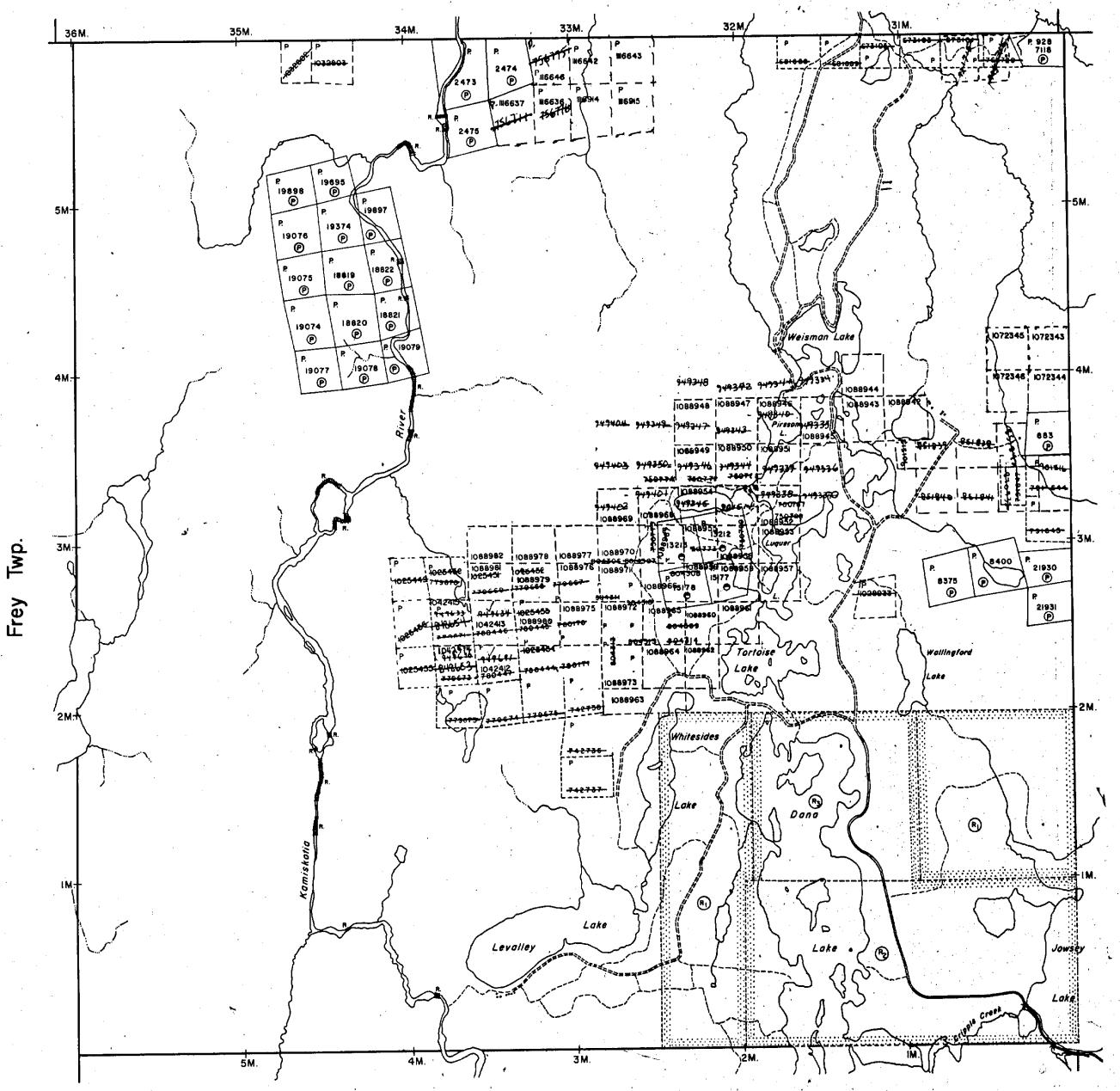
#### AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY S.R.O. -- SURFACE RIGHTS ONLY

M.+ S. - MINING AND SURFACE RIGHTS

Duscription		Order No.		Date	Disposition		File
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Keefer Twp.

# arscallen

#### LEGEND HIGHWAY AND ROUTE No. OTHER ROADS TRAILS SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. LOTS, MINING CLAIMS, PARCELS, ETC. **UNSURVEYED LINES:** LOT LINES PARCEL BOUNDARY MINING CLAIMS ETC. RAILWAY AND RIGHT OF WAY UTILITY LINES NON-PERENNIAL STREAM FLOODING OR FLOODING RIGHTS SUBDIVISION OR COMPOSITE PLAN RESERVATIONS ORIGINAL SHORELINE MARSH OR MUSKEG TRAVERSE MONUMENT

### **DISPOSITION OF CROWN LANDS**

TYPE OF DOCUMENT SYMBOL
PATENT, SURFACE & MINING RIGHTS ® or •
" , SURFACE RIGHTS ONLY
" , MINING RIGHTS ONLY •
LEASE, SURFACE & MINING RIGHTS
", SURFACE RIGHTS ONLY
" MINING RIGHTS ONLY
LICENCE OF OCCUPATION
ORDER-IN-COUNCIL OC
RESERVATION ①
CANCELLED
SAND & GRAVEL
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET	<u>_</u>	1000	2000	4000	6000	800
-	200	1000		2000		
METRI	ES			(1 KM)	[2 KM]	

TOWNSHIP

# WHITESIDES

M.N.R. ADMINISTRATIVE DISTRICT

**TIMMINS** 

MINING DIVISION

**PORCUPINE** 

LAND TITLES / REGISTRY DIVISION

COCHRANE



Ministry of Land Natural

Management

Ontario

Resources Branch

Date FEBRUARY 1985 Vel.

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