010

REPORT

ON

GEOLOGICAL MAPPING AND PROSPECTING

TARP LAKE PROPERTY

DISTRICT OF KENORA, PATRICIA MINING DIVISION

NORTHWESTERN ONTARIO

FOR

POWER EXPLORATIONS INC.

August 1987

Robert A.V. Higginson, B.Sc.

APPENDICES

LIST OF DRAWINGS

1.0 SUMMARY

The Tarp Lake property is almost entirely covered by swamp. Compiled geological and geophysical survey data of regional and property scale indicate that the property straddles a granite-greenstone contact on a northeast trending limb of the Pickle Lake greenstone belt. Property geophysical surveys suggest the presence of several potential gold-bearing horizons and structures.

Further work is warranted to delineate the extent of the zones prior to testing by diamond drilling.

2.0 INTRODUCTION

The following report describes the results of a comprehensive geological mapping and prospecting on the Tarp Lake property of Power Explorations Inc. The property is located approximately ten miles northeast of the town of Pickle Lake (Fig. No. 1) in the Patricia Mining Division, District of Kenora, northwestern Ontario.

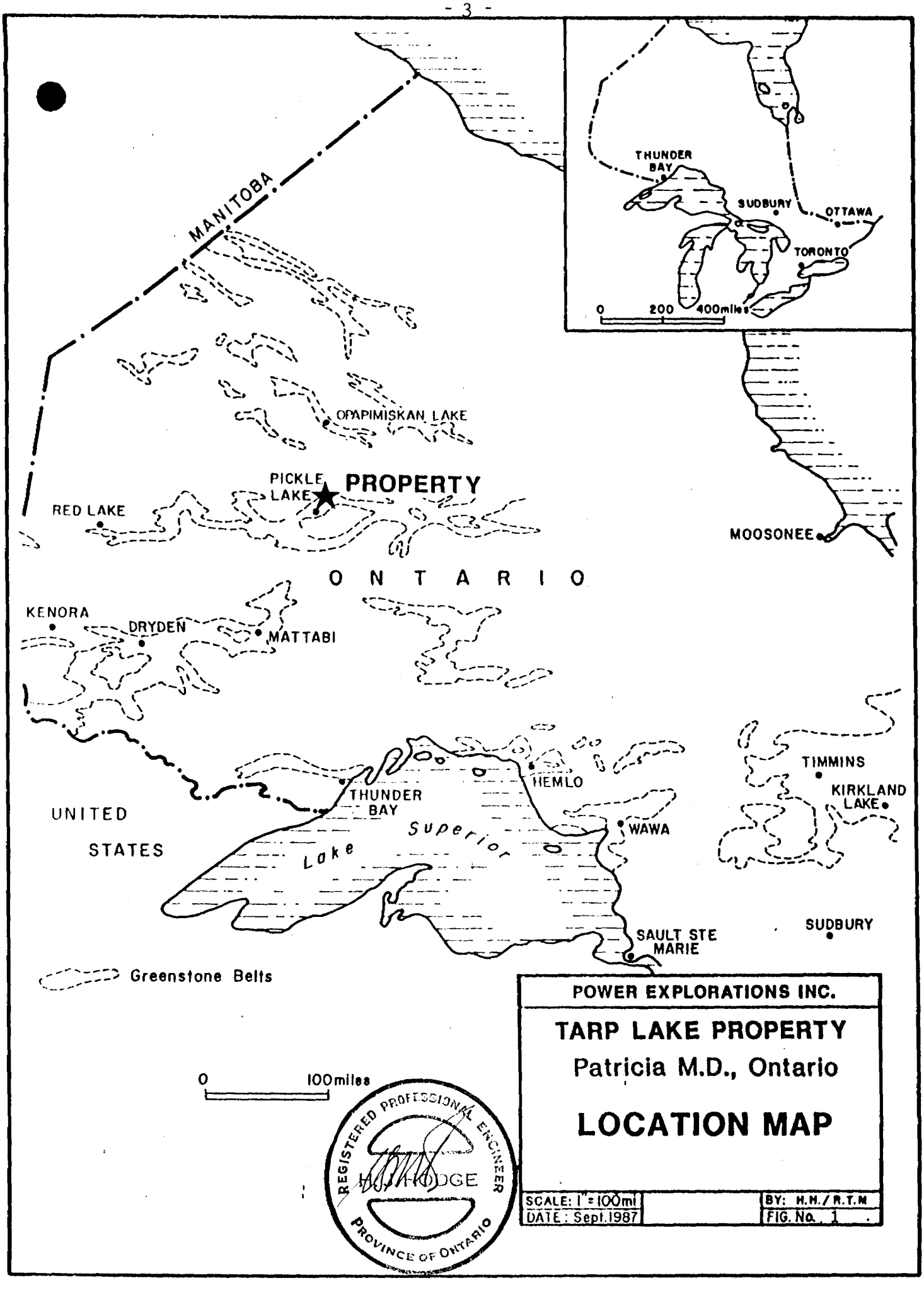
The mapping and concurrent geophysical surveys including ground magnetics and VLF-EM were carried out by Geocanex Ltd.

The property consists of 26 contiguous unpatented claims. All work was done on a cut picket line grid. The grid has baseline trending at N37°E with perpendicular lines at 400 foot intervals across the strike of the local stratigraphy. Tie lines were cut to ensure control on long picket lines. Geological mapping and geophysical plotting were done at a scale of 1 inch = 400 feet.

The personnel involved in the program were:

R. Higginson	Project Geologist	Oro Station, Ontario
J. Drew	Geologist	North Bay, Ontario
P. Taylor	Geologist	Kingston, Ontario
B. Howes	Field Assistant	Kingston, Ontario
K. Wright	Field Assistant	Scarborough, Ontario

Geophysical anomalies were prospected and quartz veins and mineralized volcanics were sampled during the program. All sample descriptions and assays are included in this report.



REGISTERED PROFESSIONAL ENGINEER
HUGH RODGE
PROVINCE OF ONTARIO

POWER EXPLORATIONS INC.

TARP LAKE PROPERTY

Patricia M.D., Ontario

LOCATION MAP

SCALE: 1" = 100mi		BY: H.H./R.T.M
DATE: Sept.1987		FIG. No. 1

The work was performed between June 27, 1987 and July 3, 1987. The time breakdown for the work performed is as follows:

Man-Days

Mapping/Prospecting 13 1/4 Days

3.0 PROPERTY DESCRIPTION

The Tarp Lake property consists of 26 contiguous unpatented mining claims in the Tarp Lake area, Patricia Mining Division, District of Kenora, northwestern Ontario (Fig. No. 2). The claim numbers and recording dates are as follows:

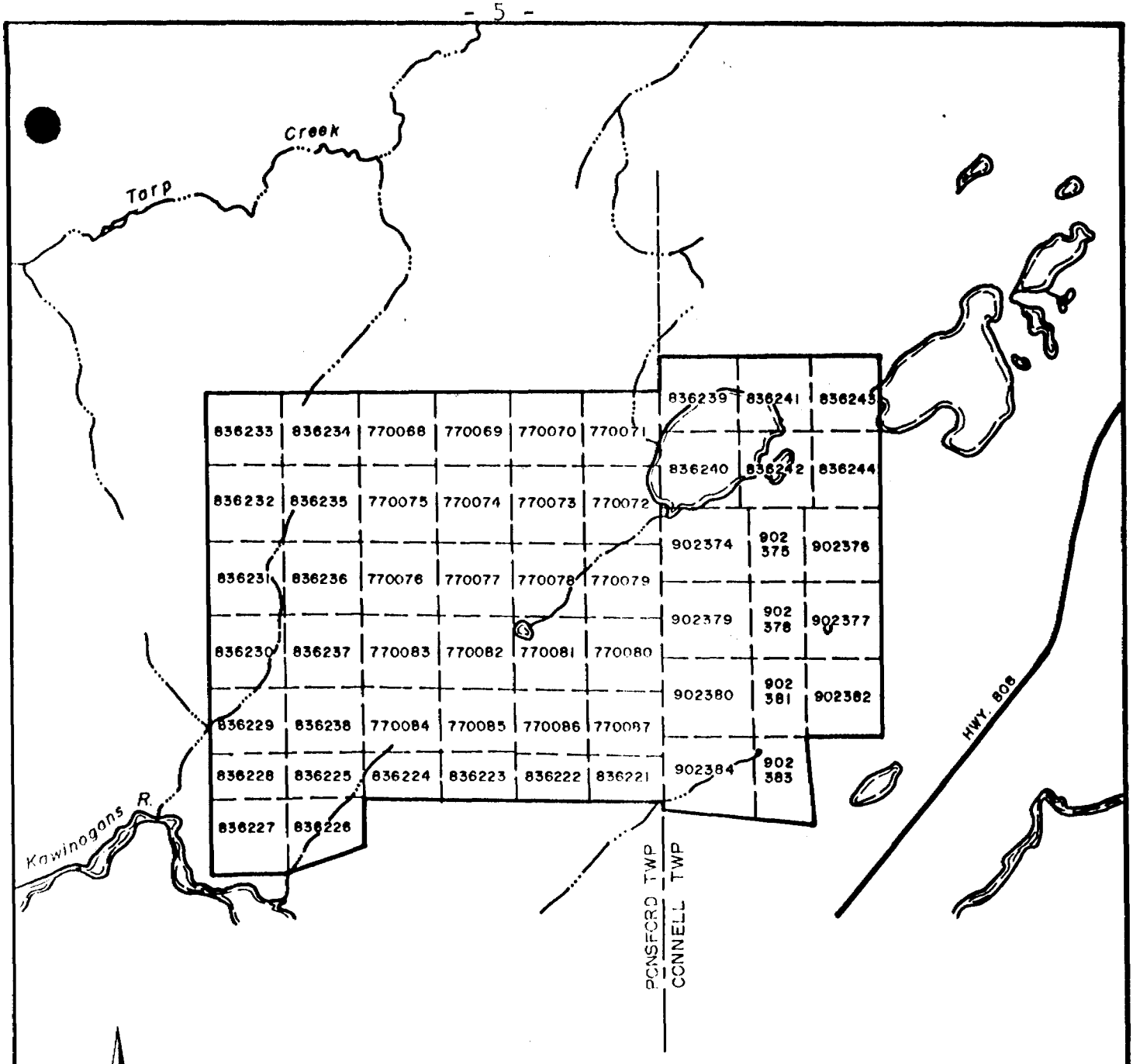
Claim Numbers		Recording Dates
Pa 893970 to 893995 inclusive	(26)	October 21, 1986

Total 26 Claims

The claims are wholly owned by Power Explorations Inc. of 1003-34 King Street East, Toronto, Ontario, M5C 1E5.

4.0 LOCATION, ACCESS AND SERVICES

The Tarp Lake property is located approximately ten miles northeast of the town of Pickle Lake. The property is accessible from Pickle Lake via Highway 808, an all-weather gravel road which passes through the southeast corner of the claim group.



REGISTERED PROFESSIONAL ENGINEER
H. HODGE
PROVINCE OF ONTARIO

ROCKSPAN RESOURCES LTD.

HODGE-BEST OPTION

TARP LAKE PROPERTY
Patricia M.D., Ontario

CLAIM SKETCH

GEOCANEX LTD
TORONTO, CANADA

BY: R.T.M.
DATE: MAR. 87
SCALE: 1"=2640'
FIG. No: 2

Pickle Lake is a mining and transportation centre with a population of approximately 250. UMEX (Union Miniere) operates a 4,000 TPD copper-nickel mine and concentrator, seven miles northwest of Pickle Lake with 14,000,000 tons of ore grading 1.6% copper and 0.2% nickel. The mine is presently closed due to depressed base metal prices, therefore, there is abundant vacant housing in town.

Pickle Lake is connected by paved Highway 599 to Savant Lake and the Canadian National Transcontinental railway line, 90 miles to the south. Electricity is supplied by a hydro line connecting Pickle Lake to Ear Falls generating station. Air, ground and water transportation for local use are readily available in town. Pickle Lake is also serviced by regular NorOntair flights from Thunder Bay.

5.0 PHYSIOGRAPHY AND VEGETATION

Outcrop exposure constitutes less than 1% of the property area. Approximately 30% of the property area is covered by Tarp Lake and a small unnamed lake east of Tarp Lake.

A major northeast-southwest trending esker crosses the southwestern corners of the property, roughly parallel to Highway 808. The central portion of the property is dominated by low-lying swamp. Vegetation consists of sparse black spruce and tamarack on muskeg in the swampy areas and by birch-poplar-alder forests on the esker.

6.0 PREVIOUS WORK

In 1946, Norpick Gold Mines Ltd. carried out a diamond drilling program south of the Tarp Lake property. No record of hole logs or locations were reported.

In 1971, UMEX carried out regional airborne and electromagnetic surveys which covered the Tarp Lake property.

In 1971, Transterre Explorations Ltd. carried out geological mapping and geophysical surveys over an area which included the southern part of the present property. No anomalies of interest were noted.

In 1985, Geoterrex Ltd. undertook a regional airborne magnetics and electromagnetics survey for the Ontario Geological Survey. The surveys covered the Tarp Lake property.

7.0 REGIONAL GEOLOGY AND ECONOMIC MINERALIZATION

The Pickle Lake area is located within the Uchi Subprovince, a part of the Superior Province of the Canadian Shield. The area is characterized by several arcuate, highly deformed and coalescing greenstone belts, consisting predominantly of mafic to intermediate volcanic flows, which have been intruded by numerous granitic to ultramafic intrusive bodies. The metamorphic grade ranges from greenschist-to-amphibolite facies. The volcanics host subordinate amounts of felsic to mafic pyroclastics, sediments and iron formation. Felsic quartz-feldspar porphyry dykes are commonly found in all lithologies (Fig. No. 3).

GEOLOGY LEGEND

- Geological boundary
- Diabase dykes (Keewanawan) — 7
- Granitic intrusives — 6
- Mafics, ultramafic intrusives — 5
- Migmatites — 4
- Intermediate to felsic volcanics — 3
- Mafic volcanics — 2
- Sediments — 1
- Mineral occurrence
- Mine, past producer — ⚒A
- Iron formation

Geology from Ontario Geological Survey
Misc paper 199, 1984
Stott G.M & Wallace H
and Map 2218, Cat Lake - Pickle Lake,
Sage et al, 1972

LOCATION MAP

MINES, PAST PRODUCE

- A Central Patricia No 1
- B Central Patricia No 2
- C Pickle Crow No 1
- D Pickle Crow No 2
- E Albany River
- F Crawshaw
- G [illegible] Thierry Mine

GOLD PRODUCTION

MINE PROPERTY	TONS	OZS
Central Patricia	129,248	62
Pickle Crow	3,237,572	1,44
Total	4,966,820	2,06

91°00'
90°30'
51°30'
51°15'
Open
Dobie Lake
RED LAKE M.D.
PATRICIA M.D.
Meen L.
Golden Patricia Discovery
860,000 tons at 0·58 oz/ton Au
Dorothy L.
Obaskaka Lake
Wright Lake
Kawinogans Lake
Trebell L.
Pickle L.
Ochig Lake
Knuppi L.
Dempster L.
Hasaga
200,000 tons at 0·19 oz/ton Au
Teevin L.
Carpenter L.
LAKE ST. JOSEPH

ND

7
6
5
4
3
2
1
A

urvey

Pickle Lake.

LOCATION MAP

MINES, PAST PRODUCER

A Central Patricia No 1
B Central Patricia No 2
C Pickle Crow No 1
D Pickle Crow No 2
E Albany River
F Crowshore
G [illegible] Thierry Mine

GOLD PRODUCTION

MINE PROPERTY	TONS	OZS GOLD	OZ/TON
Central Patricia	[illegible]729,248	[illegible]621,806	0.359
Pickle Crow	3,237,572	1,446,214	0.44
Total	4,966,820	2,068,020	0.416

90°30'

90°00'

TARP LAKE PROPERTY

Collishaw Lake

Hwy 808

Tarp Lake

Trebell L.

PONSFORD TWP

CONNELL TWP

McCULLAGH TWP

51°30'

Pickle Lake

Pickle L.

Dona L.

Dona Lake Discovery
1,400,000 tons at 0·24 oz/ton Au

Ochig Lake

Kawinogans Lake

Knuppi L.

Hasaga
200,000 tons at 0·19 oz/ton Au

LAKE ST. JOSEPH

Osnaburgh I.R. 63B

Hwy 599

50°15

rpenter L.

90°30'

REGISTERED PROFESSIONAL ENGINEER
H. G. HODGE
PROVINCE OF ONTARIO

0 2 4 6 8 10 miles
Scale 1 inch = 4 miles

90°00'

POWER EXPLORATIONS INC.

TARP LAKE PROPERTY

Patricia M.D., Ontario

PROPERTY LOCATION AND REGIONAL GEOLOGY

GEOCANEX

GEOCANEX LTD
TORONTO, CANADA

BY: R.T.M.
DATE: Sept. 1987
SCALE: 1" = 4 mi
FIG. No: 3

St. Joe Canada's Golden Patricia property is reported to have an estimated 500,000 ounces of gold reserves with a grade of 0.58 ounces of gold per ton. The gold mineralization occurs in a quartz vein at a contact between a mylonitized unit and sheared mafic volcanics in close proximity to banded iron formation (Northern Miner Magazine, September 1986). The initial mining project has drill indicated reserves of 283,000 tons grading 0.88 ounces per ton and is expected to produce 40,000 ounces of gold annually (Northern Miner, March 23, 1987).

8.0 PROPERTY GEOLOGY

Regional geological and geophysical maps indicate that the eastern half of the property is underlain by northeast-southwest trending rocks of the Pickle Lake greenstone belt. The western portion of the property is underlain by granitic-gneissic rocks. Limited bedrock exposures on the property were of mafic to intermediate volcanics with minor felsic inclusions and traces of pyrite and pyrrhotite. The rocks are generally foliated, dark green to black and fine-grained. The metamorphic grade of the exposed rocks is amphibolite facies.

9.0 GEOPHYSICAL SUMMARY

Ground magnetics data suggests that the western portion of the property is underlain by magnetic rich granitic intrusive rocks. The eastern portion is probably underlain by mafic to intermediate volcanics. The contact zone between the granite and volcanics is interpreted as being coincident with a northeast-southwest trending, slightly elevated magnetic

Ultramafic rocks host copper-nickel mineralization at the Union Miniere Thierry Mine, seven miles northwest of Pickle Lake, with mined ore and mineral reserves totalling 14,000,000 tons grading 1.6% copper and 0.2% nickel.

Historically, gold production in the Pickle Lake area has been from structurally controlled vein type deposits or sulphide replacement bodies spatially associated with, or contained within, bands of Algoman (chert-magnetite) iron formation.

The former producing Pickle Crow and Central Patricia mines operated from 1935 to 1966 and 1934 to 1951, respectively, collectively producing 2,068,820 tons of ore for an average grade of 0.416 ounces of gold per ton. Gold was recovered from quartz veins, vein networks and sulphide replacement bodies which occupied shears, faults, fissures and fold axial plane fractures in highly deformed mafic volcanics and iron formation. Gold-bearing quartz veins were also mined within quartz-albite porphyry sills near the contact of mafic volcanics and iron formation.

Dome Mines and St. Joe Canada both recently announced their intentions to open new mines in the Pickle Lake area. Dome Mines' Dona Lake property has reported reserves of 1,500,000 tons grading 0.3 ounces of gold per ton. Gold mineralization occurs as sulphide replacement bodies within a band of highly deformed oxide facies iron formation (Northern Miner, September, 1986). The mine is expected to produce approximately 40,000 ounces of gold per year over a 10 year period.

response. The magnetic feature has no associated conductor and may represent either weak iron formation or magnetite enrichment at the contact. A bifurcating, northeasterly trending magnetic feature located in the volcanics on the east side of the property is interpreted as a lean band of iron formation.

Six VLF-EM conductors with probable bedrock sources are interpreted as sulphide mineralization associated with localized shear/fault structures within the volcanics or along the granite-greenstone contact.

10.0 LITHOGEOCHEMICAL SAMPLING

During the mapping and prospecting program grab samples were taken from mineralized volcanics. A total of six grab samples were taken and analyzed for gold. Bondar-Clegg and Co. Ltd. of Ottawa assayed all samples using standard fire assay - atomic absorption/mass spectrophotometry techniques.

All grab samples are plotted on the geology maps (map pocket) and all sample descriptions and assay results are listed in Appendices C and D.

11.0 DISCUSSION OF RESULTS

Grab samples taken during the present program returned values of less than 5 to 25 ppb gold. These values represent local background gold values. None of the sampled exposures were associated with geophysically anomalous zones.

12.0 CONCLUSIONS

The Tarp Lake property is located on the Pickle Lake greenstone belt and straddles the local granite-mafic volcanic contact. Compiled geological and geophysical data suggests that gold mineralization may occur in:

1) folded bands of weak iron formation,
2) several crosscutting to concordant conductive sulphide zones interpreted as localized shears or faults.

Further work is required, including detailed magnetometer and induced polarization surveys to delineate potentially gold-bearing structures and horizons. The lack of bedrock exposure would require that diamond drilling be used to test geophysical targets.

13.0 RECOMMENDATIONS

A two-phase exploration program is recommended for the property and would involve the following:

13.1 Phase I

Geophysical Surveys: Including detailed magnetics and induced polarization to define potentially gold-bearing horizons and structures.

13.2 Phase II

Diamond Drilling to test the horizons or structures delineated in Phase I.

14.0 ESTIMATED COST OF RECOMMENDED PROGRAM

14.1 Phase I

Induced Polarization Survey:
Rate of $1,500/line mile, over 3 miles,
all inclusive----------$ 4,500.00

Magnetometer Survey: Detailed magnetics
on 100 foot line spacing and 10 foot
reading intervals, 60 miles at $350/line
mile, all inclusive----------$21,000.00

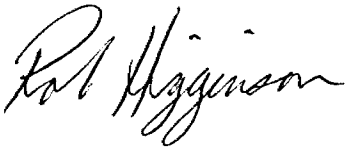
Contingency 20%----------$ 5,100.00

Total Cost of Phase I----------$30,600.00

14.2 Phase II

Diamond Drilling: Amount and cost
to be contingent upon the results of
Phase I.

Respectfully submitted,



Robert A.V. Higginson, B.Sc.
Geocanex Ltd.

15.0 REFERENCES

Gillick, R.E. Report on Ground Magnetics and VLF-EM Surveys on the Tarp Lake Property; District of Kenora, Patricia Mining Division, Northwestern Ontario for Power Explorations Inc., August 1987, unpublished.

Ontario Geological Survey, 1986. Airborne Electromagnetic and Total Intensity Magnetic Survey, Pickle Lake Area, District of Kenora, (Patricia Portion), Ontario; by Geoterrex Ltd., for O.G.S., Geophysical/ Geochemical Series, Map 80927, Scale 1:20,000.

Ontario Geological Survey. Resident Geologists Files, Sioux Lookout and Toronto: Various unpublished assessment reports.

Sage, R.P. and Breaks, F.W., 1982. Geology of the Cat Lake - Pickle Lake Area, Districts of Kenora and Thunder Bay; Ontario Geological Survey, Report 207, 238 p. Map. 2218, Scale 1:253,440.

APPENDIX A

CERTIFICATE OF QUALIFICATIONS

CERTIFICATE OF QUALIFICATIONS

THIS IS TO CERTIFY THAT:

I am a resident of Oro Township, Ontario.

I am a graduate of the University of Waterloo, Waterloo, Ontario, with a degree in Bachelor of Science, Earth Science; major (Geology).

I have worked as an exploration geologist in gold exploration in northwestern Ontario since 1984.

I supervised geological mapping and geochemical sampling programs on the Tarp Lake property, from June 27, 1987 to July 3, 1987.

The statements contained in this report, and conclusions reached, are based upon the study of all relevant assessment work records of the Ontario Geological Survey, and geological reports and maps published by the Ontario Ministry of Natural Resources.

In this report I have disclosed all relevant descriptive and interpretive material which is, to the best of my knowledge, necessary to gain a complete understanding of the viability of the project and the recommendations.

DATED THIS 25th DAY OF November, 1987

Robert A.V. Higginson, B.Sc.
Geologist

Rob Higginson

APPENDIX B

TECHNICAL DATA STATEMENT

Ministry of Northern Development and Mines

Ontario

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.

Type of Survey(s) Geological

Township or Area Tarp Lake Area

Claim Holder(s) Power Explorations Inc.

Survey Company Geocanex Ltd.

Author of Report Robert A.V. Higginson

Address of Author R.R. #1, Oro, Ontario

Covering Dates of Survey June 27 to July 3, 1987
(linecutting to office)

Total Miles of Line Cut 23.8

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	
–Magnetometer	
–Radiometric	
–Other	
Geological	40
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Jan 20/88 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 2.9753

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

See Attached Sheet
(prefix) (number)

TOTAL CLAIMS 26

If space insufficient, attach list

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION / RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

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) _____

(specify for each type of survey)

Accuracy _____

(specify 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 Pa 893978, 893980, 893984

Total Number of Samples 6

Type of Sample Rock
(Nature of Material)

Average Sample Weight 5 lbs.

Method of Collection Channel and Grab Sampling

Soil Horizon Sampled

Horizon Development

Sample Depth

Terrain

Drainage Development

Estimated Range of Overburden Thickness

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis

General

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☒

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others Gold

Field Analysis (____ tests)

Extraction Method

Analytical Method

Reagents Used

Field Laboratory Analysis

No. (____ tests)

Extraction Method

Analytical Method

Reagents Used

Commercial Laboratory (6 tests)

Name of Laboratory Bondar-Clegg & Co.

Extraction Method Aqua Regia

Analytical Method FA - AA

Reagents Used

General

TARP LAKE AREA

POWER EXPLORATIONS INC.

MINING CLAIMS

Pa 893970
893971
893972
893973
893974
893975
893976
893977
893978
893979
893980
893981
893982
893983
893984
893985
893986
893987
893988
893989
893990
893991
893992
893993
893994
893995

Total 26 Claims

APPENDIX D

ROCK ANALYTICAL CERTIFICATES

TARP LAKE

GRAB SAMPLE DESCRIPTIONS

Sample Number	Assay Number	Location	Description	Assay Au ppb
TP-N-1	1053	L04+00N,12+00W	Mafic Volcanic, coarse-medium grained, trace pyrite, pyrrhotite, feldspar stringers	25
KTL-1	1054	11+90S,13+80W	Mafic Volcanic, trace chalcopyrite, pyrrhotite	<5
JD-TL-01	1055	L34+00S,13+00W	Intermediate Volcanic, fine grained, no sulphides	<5
JD-TL-02	1056	L34+00S,13+00W	Intermediate Volcanic, medium grained, no sulphides	<5
JD-TL-03	1057	L37+00S,13+00W	Mafic Volcanic with felsic blebs and bands	<5
JD-TL-04	1058	L34+00S,13+00W	2" wide dacite band, no sulphides	<5

APPENDIX C

GRAB AND CHANNEL SAMPLE DESCRIPTIONS

AND ANALYSES

Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1J 9G5
Phone: (613) 749-2220
Telex: 053-3233

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 017-3134 (COMPLETE)

REFERENCE INFO:

CLIENT: GEOCANEX LIMITED
PROJECT: TARP LAKE

SUBMITTED BY: R. HIGGINSON
DATE PRINTED: 21-JUL-87

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold		5 PPB	AQUA REGIA	FA-AA @ 10 gm weight

SAMPLE TYPES	NUMBER
ROCK	6

SIZE FRACTIONS	NUMBER
-200	6

SAMPLE PREPARATIONS	NUMBER
CRUSH,PULVERIZE -200	6

REMARKS: < MEANS LESS THAN.

REPORT COPIES TO: GEOCANEX
R. HIGGINSON

INVOICE TO: GEOCANEX

Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1J 9G5
Phone: (613) 749-2220
Telex: 053-3233

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 017-3134 | PROJECT: TARP LAKE | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB
1053		25
1054		<5
1055		<5
1056		<5
1057		<5
1058		<5

TARP LAKE AREA

POWER EXPLORATIONS INC.

MINING CLAIMS

Pa 893970
893971
893972
893973
893974
893975
893976
893977
893978
893979
893980
893981
893982
893983
893984
893985
893986
893987
893988
893989
893990
893991
893992
893993
893994
893995

Total 26 Claims

Ministry of Northern Affairs and Mines
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

NE 52.215 Tarp Lake

#8

MINING LANDS 2.10759 Min

52009SE0021 2.10759 TARP LAKE

900

Type of Survey(s): Geological	Township or Area: Tarp Lake Area G-2231
Claim Holder(s): Power Explorations Inc.	Prospector's Licence No.: T4642
Address: 1003-34 King Street East, Toronto, Ontario, M5C 1E5	
Survey Company: Geocanex Ltd.	Date of Survey (from & to): 27 06 87 (Day Mo. Yr.) 03 07 87 (Day Mo. Yr.)
Total Miles of line Cut: 23.8	
Name and Address of Author (of Geo-Technical report): Robert A.V. Higginson, R.R.#1, Oro, Ontario LOL 2E0	

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions: For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	40
	Geochemical	
Man Days: Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits: Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
See	Attached	Sheet

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
NOV 24 1987
PATRICIA MINING DIVISION

Total number of mining claims covered by this report of work: 26

Expenditures (excludes power stripping)

Type of Work Performed	
Performed on Claim(s)	

Calculation of Expenditure Days Credits

Total Expenditures: $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Pa. 893948

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
1040	Nov. 24, 1987	
	Date Approved as Recorded	Branch Director

See serial work Statement

Date: Nov. 20/87. Recorded Holder or Agent (Signature): H.J. Hodge

Certification Verifying Report of Work

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.

Name and Postal Address of Person Certifying: H.J. Hodge, 1003-34 King Street East, Toronto, Ontario, M5C 1E5

Date Certified: Nov 20/87. Certified by (Signature): H.J. Hodge

Ministry of
Northern Development
and Mines

Ontario

Ministère du
Développement du Nord
et des Mines

February 16, 1988

Your File: 87-215
Our file: 2.10759

Mining Recorder
Ministry of Northern Development and Mines
Court House
P.O. Box 3000
Sioux Lookout, Ontario
P0V 2T0

Dear Sir:

RE: Notice of Intent dated February 1, 1988
Geological Survey
submitted on Mining Claims PA 893970 et al
in the Area of Tarp Lake

The assessment work credits, as listed with the above-mentioned 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,

W.R. Cowan, Manager
Mining Lands Section
Mines and Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

DK:pl
Enclosure: Technical Assessment Work Credits

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

Resident Geologist
Sioux Lookout, Ontario

Power Explorations Inc.
Suite 1003
34 King Street East
Toronto, Ontario
M5C 1E5

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File: 2.10759

Date: February 1, 1988

Mining Recorder's Report of Work No.: 87-215

Recorded Holder: Power Explorations Inc.

~~TXXXXXXX~~ Area: Tarp Lake

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	PA-893970 893972-73 893977 to 81 inclusive 893983 to 88 inclusive 893991 to 94 inclusive
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological 20 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

10 days Geological	5 days Geological
PA-893971 893974 893989	PA-893975-76 893982

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ insufficient technical data filed

PA-893990
893995

- Linecutting credits have been previously approved on December 2, 1987 (file 2.10531).

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; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

ATIK LAKE G-1938

PONSFORD LAKE G-2176

FIRSTLOON LAKE G-2037

FOR STATUS SEE
PONSFORD TWP.
G - 2181

DONA LAKE G-2009

CONNELL TWP.

McCULLAGH TWP.

Tarp Lake

Tarp Creek

Ponsford Creek

Kawinogans River

Pipestone River

Kawinogans Creek

REFERENCE

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

June 9, 87
June 10/87
July 8/87
Aug. 13/87
Nov. 20/87

SAND and GRAVEL

(P) GRAVEL FILE 142626
(P) MTC GRAVEL PIT 996
(P) MTC GRAVEL PIT 1F32
(P) MNR GRAVEL PIT 200, FILE 142626
(P) GRAVEL FILE 187749
▲ Land Use Permit for S.R.O.

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
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER IN COUNCIL	OC
RESERVATION	
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

1 INCH = 1000 2000 4000 6000 8000
METRES 0 200 400 800 1 KM

AREA

TARP LAKE

M.N.R. ADMINISTRATIVE DISTRICT
SIOUX LOOKOUT
MINING DIVISION
PATRICIA
LAND TITLES / REGISTRY DIVISION
KENORA (PATRICIA PORTION)

Ontario
Ministry of Natural Resources
Ministry of Northern Development and Mines

Date NOVEMBER, 1986

Number G-2231

515901

LEGEND

QUATERNARY

Stream, lake, bog deposits
Glacial, glaciofluvial lacustrine sediments

LATE PRECAMBRIAN (Keeweenawan?)

11 — 11a Diabase

EARLY PRECAMBRIAN

10 — Intermediate and Felsic Intrusives
- 10a Granite pegmatite
- 10b Aplite
- 10c Granite
- 10d Syenite
- 10e Quartz monzonite
- 10f Granodiorite
- 10g Trondjemite
- 10h Quartz diorite
- 10j Diorite
- 10k Unsubdivided gneiss
- 10l Granite gneiss

9 — Mafic Intrusives
- 9a Unsubdivided
- 9b Gabbro
- 9c Leucogabbro
- 9d Plagioclase-phyric gabbro
- 9e Peridotite
- 9f Pyroxenite

8 — Iron Formation
- 8a Oxide facies
- 8b Carbonate facies
- 8c Silicate facies
- 8d Sulphide facies

7 — Chemical Metasediments
- 7a Chert
- 7b Calcitic marble
- 7c Dolomitic marble

6 — Clastic Metasediments
- 6a Clast supported conglomerate
- 6b Matrix supported conglomerate
- 6c Oligomictic conglomerate
- 6d Polymictic conglomerate
- 6e Sandstone, unsubdivided
- 6f Wacke
- 6g Arenite
- 6h Mudstone, argillite
- 6j Feldspathic wacke
- 6k Feldspathic arenite
- 6l Quartz arenite
- 6m Schistose rock ± amphibole, ± biotite, ± garnet, ± chlorite of probable sedimentary origin

5 — Felsic and Intermediate Subvolcanic Rocks
- 5a Unsubdivided
- 5b Quartz-feldspar porphyry
- 5c Quartz porphyry
- 5d Feldspar porphyry

4 — Felsic Metavolcanics
- 4a Massive fine-medium grained flow
- 4b Pyroclastic breccia, tuff breccia
- 4c Tuff, lapilli tuff

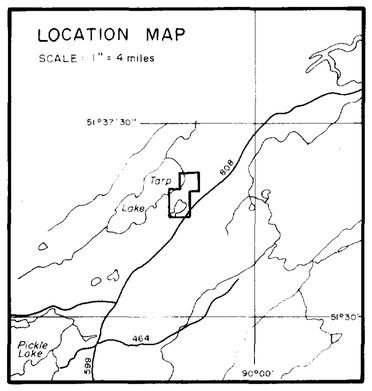
3 — Intermediate Metavolcanics
- 3a Massive fine-medium grained flow
- 3b Flow breccia
- 3c Pyroclastic breccia, tuff breccia
- 3d Tuff, lapilli tuff

2 — Mafic Metavolcanics
- 2a Massive fine-medium grained flow
- 2b Amygdaloidal flow
- 2c Variolitic flow
- 2d Pillowed flow, pillow breccia
- 2e Flow breccia
- 2f Medium-coarse grained flow centres
- 2g Plagioclase-phyric flow
- 2h Amphibolite
- 2i Co-magmatic sills, dikes
- 2j Pyroclastic breccia, tuff breccia
- 2k Tuff, lapilli tuff
- 2l Chorite ± amphibole schist

1 — Ultramafic Metavolcanics
- 1a Massive fine-medium grained flow
- 1b Spinifex textured flow
- 1c Talc-carbonate ± magnetite ± amphibole ± serpentine ± chlorite schist

LOCATION MAP

SCALE: 1" = 4 miles

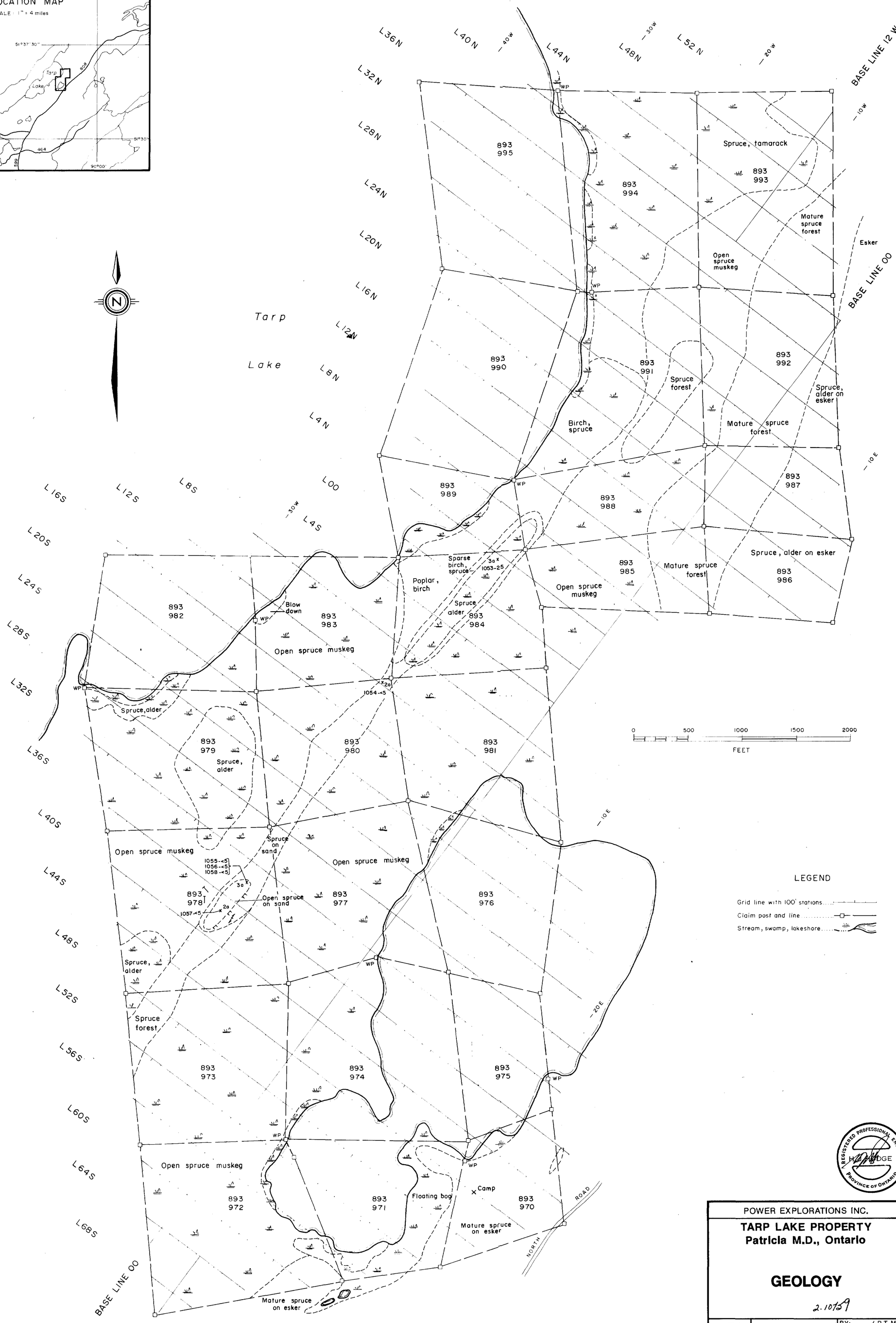


SYMBOLS

- Shoreline
- Creek, showing flow
- Swamp
- Beaver Dam
- Break in slope
- Claim post, line, witness post — WP
- Township line
- Trench, pit
- Diamond drill hole
- Highway, bush road
- Power transmission line
- Outcrop, outcrop area — x
- Geological boundary, observed,
- Inferred, inferred from geophysics — G—G
- Surficial feature boundary
- Rock sample location & number — •17501
- Assay for Au(ppb), Ag(ppm) — -13-0·6
- Pillow; tops known, unknown
- Bedding; inclined, vertical — 70
- Foliation, cleavage; — 60
- Inclined, vertical, unknown — 50
- Gneissosity; incl., vert., unknown
- Lineation, plunge — 70
- Fracture; inclined, vertical — 60
- Shear zone; dip — 50
- Shear fracture; inclined, vertical — 60
- Fault zone; dextral, sinistral
- Anticline, syncline; plunge
- Drag folds with plunge
- Dyke; width, dip — 2 / 50 — 9a
- Vein; width, dip, quartz, carbonate — 3 / 50 — Q.V., C.V.
- Glacial striae — 10

ABBREVIATIONS

Silicification	SIL, sil
Sericitization	SER, ser
Carbonatization	CAR, car
Chloritization	CHL, chl (strong / weak)
Pyrite	py
Pyrrhotite	po
Chalcopyrite	cp
Arsenopyrite	asp
Sphalerite	sph
Galena	ga
Bornite	br
Malachite	mal
Graphite	gr
Chrysocolla	chry
Magnetite	mt
Limonite	lim
Hematite	hem
Molybdenite	mo
Grunerite	grun
Siderite	sid
Dolomite	dol
Ankerite	ank
Garnet	gnt
Epidote	ep
Tourmaline	tl
Xenolith	xn
Mylonite	myl
Shearing	sh
Carbonatized	cc



LEGEND

- Grid line with 100' stations
- Claim post and line
- Stream, swamp, lakeshore

H. M. RIDGE
REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

POWER EXPLORATIONS INC.

TARP LAKE PROPERTY
Patricia M.D., Ontario

GEOLOGY

2.10759

GEOCANEX LTD
TORONTO, CANADA

BY: / R.T.M.
DATE: AUG. 1987
SCALE: 1" = 400'
DWG. No: 1

52089SE0021 2.10759 TARP LAKE