



42A03NW0014 2.4283 MCARTHUR

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2.4283

GEOPHYSICAL REPORT
LACANA CLAIM GROUP
MC ARTHUR TOWNSHIP
PROCUPINE MINING DIVISION

RECEIVED
NOV 12 1981
MINING LANDS SECTION

Author: Ronald C. Wells

Lacana Mining Corporation
Kirkland Lake, Ontario

October 1981

R. C. Wells
Nov 5th / 81.

INTRODUCTION

Lacana Mining Corporation of Toronto holds six contiguous unpatented claims in McArthur Township, Porcupine Mining Division. The claim numbers are as follows: P579008, P579018 to 021 inclusive, P579026. The claims were staked by Lacana in October of 1980 and cover the central part of the old Triple Lake Porcupine Gold Mine property.

LOCATION AND ACCESS

The claims are situated in the southern portion of McArthur Township and cover the central part of Triple Lake and the adjacent high ground. Access is by all-weather road from Timmins to the south boundary of McArthur Township, then by a newly widened cottage road which passes through the claim group.

PREVIOUS WORK

Triple Lake Porcupine Gold Mine Ltd. held 15 claims on Triple Lake in the 1930's. The only available description of the property is by Erie Canadian Mines Ltd. in a report by Burke in 1938. Early work was concentrated on a gold-copper bearing quartz vein on the east side of Triple Lake. "A two-compartment shaft, sunk on the vein at a point no more than 25 feet from the lake shore, has been completed to a depth of 55 feet. The vein passed out of the shaft at a vertical distance of 20 feet. In addition to the shaft sinking, the vein has been partially explored by two diamond drill holes which gave indefinite results" (Burke 1938). The shaft was not extended past 55 feet, and no further work seems to have taken place.

GEOLOGY

McArthur Township was mapped by Pyke and Assistants on a scale of 1 inch to 1/2 mile in 1972. Details occur in Geoscience Report 161 'Geology of the Redstone River Area, District of Timiskaming' by D. R. Pyke, Ministry of Natural Resources.

A single outcrop occurs on the property on the east side of Triple Lake and includes the gold bearing quartz vein on which all the early work was concentrated. Intermediate bedded tuffs occur at the north end of the outcrop and strike northwest with northeast dip of approximately 60° . The tuffs are intruded by a diorite sill, the top of which was not observed.

The main quartz vein occurs within the tuffs close to the diorite contact and strike northeast. Burke in 1938 describes the vein and suggests that the vein which averages 2 feet in width is a quartz filled cross fracture. Assays of up to 2 oz./ton Au were reported from the quartz vein during the early work.

GEOPHYSICS

A grid, 6.0 miles long, was laid out by Lacana staff during March and June of 1981 to cover the claims group. Grid lines were put in every 400 feet along the base line with stations every 50 feet. Magnetometer, VLF electromagnetic and geological surveys followed. The VLF survey is being submitted for assessment credits.

A Crone Radem VLF unit was used for the survey with Annapolis, Maryland as the transmitter station. Dip angle

readings were taken every 100 feet on the grid. The results are plotted in Figure 1, which accompanies this report.

Two anomalies of short length are apparent from Figure 1. Anomaly A in the western part of the property has southeast trend and was picked up on two lines. Anomaly B occurs on line 0+00, close to the old shaft. The amount of metal in the old shaft area could be responsible for Anomaly B. Anomaly A is parallel to the local stratigraphy and is of interest.



Ministry of
Natural
Resources

2.4283

McArthur's exp.
Report of Work
(Geophysical, Geological,
Geochemical and Expenditures) #

W8106.00396

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42A03NW0014 2.4283 MCARTHUR

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15.

Type of Survey(s) GEOPHYSICAL		Township or Area N. ARTHUR TWP. P.M.D	
Claim Holder(s) LACANA MINING CORPORATION		Prospector's Licence No. 7814	
Survey Company SAME AS ABOVE	Survey Dates (linecutting to office) 1 11 80 1 9 81 Day Mo. Yr. Day Mo. Yr.		Total Miles of line Cut 6.0
Name and Address of Author (of Geo-Technical report) RONALD C. WELLS PO Box 338 KIRKLAND LAKE ONT.			

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	E.M. Electromagnetic	20
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	579008				
	579018				
	579026				
	579019				
	579020				
	579021				

Man Days

Instructions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.

OCT 1 1981
Electromagnetic

RECEIVED

Expenditures (excluding power stripping)

PERFORMED ON CLAIM

SEP 28 1981

7:8 AM 9:10:11:12:12:3:4:5:6 PM

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.

Report Completed

Date of Report: 28th Sept 81

Recorded Holder or Agent (Signature): *R. C. Wells*

For Office Use Only

Total Days Cr. Recorded: 120

Date Recorded: Oct 1/81

Date Approved or Recorded: 82:10:25

Mining Recorder: *[Signature]*

Regional Branch Director: *[Signature]*

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:
R. C. Wells PO Box 338 KIRKLAND LAKE ONT.

Date Certified: 28th Sept 81

Certified by (Signature): *R. C. Wells*



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 Survey(s) GEOPHYSICAL VLF.

Township or Area Mc ARTHUR TWP

Claim Holder(s) LACANA MINING CORPORATION

Survey Company SAME AS ABOVE

Author of Report RONALD C. WELLS

Address of Author 7 GREENWELL RD, SWANIKA KIRKLAND LAKE
PO BOX 328

Covering Dates of Survey 1ST NOV 1980 - 1ST OCT 1981
(linecutting to office)

Total Miles of Line Cut 6.0 MILES.

MINING CLAIMS TRAVERSED
List numerically

- P. 579008. ✓
(prefix) (number)
- P. 579018. ✓
- P. 579019. ✓
- P. 579020. ✓
- P. 579021. ✓
- P. 579026. ✓

If space insufficient, attach list

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

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

ENTER 20 days for each
additional survey using
same grid.

- Geophysical
- Electromagnetic 40.
- Magnetometer _____
- Radiometric _____
- Other _____
- Geological _____
- Geochemical _____

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

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

DATE: 6th Nov 81. SIGNATURE: R. C. Wells
Author of Report or Agent

Res. Geol. _____ Qualifications 2.3507

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 6.

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 339 Number of Readings 339
Station interval 100 FEET Line spacing 100 FEET
Profile scale 1" = 20° DIP ANGLE
Contour interval

MAGNETIC

Instrument
Accuracy - Scale constant
Diurnal correction method
Base Station check-in interval (hours)
Base Station location and value

ELECTROMAGNETIC

Instrument CRONE RADEM VLF
Coil configuration
Coil separation
Accuracy 10
Method: [] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency ANNAPOLIS MARYLAND (specify V.L.F. station)
Parameters measured DIP ANGLE

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

Mining Lands Comments

You wanted to see this rep. & again.

To: Geophysics *Mr. Barlow.*

Comments

Approved Wish to see again with corrections Date *Oct 6 / 82* Signature *Ryan [Signature]*

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections Date Signature

To: Geochemistry

Comments

Approved Wish to see again with corrections Date Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

Don Wells

P.O. Box 338

Kirkland Lake

Ont

FILE NO's

2.4283

2.4282

15/8/52.

To : Mr F.W. Matthews - Land Management Branch.

Regarding: VLF maps for Ossin and McArthur Townships

Dear Sir

Find enclosed completed maps showing raw data
as required. Sorry for any delay I have been out
of the office for the major part of the summer.

Regards

Don Wells

Lacana Mining Corporation
Kirkland Office

1982 07 05

2.4283

Mr. R.C. Wells
Lacanna Mining Corp.
P.O. Box 338
Kirkland Lake, Ontario

Dear Sir:

Re: Geophysical (Electromagnetic) Survey submitted
on Mining Claims P 579008 et al, in the Township
of McArthur

Enclosed are the V.L.F. maps (in duplicate) for the
above-mentioned survey. Please show the readings at
each station, i.e., raw data, and return them to this
office

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

A. Barr/amc

Encl.

cc: Mining Recorder
Timmins, Ontario



Mining Lands Comments

V.L.F map needs readings. L.D

To: Geophysics

Mr. Barlow.

Comments

VLF map needs readings added

Approved

Wish to see again with corrections

Date

June 21 1982

Signature

Roger Barlow

To: Geology - Expenditures

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geochemistry

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

2.4283

November 13, 1981

2.4283

Office of the Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P.579008 et al, in the Township of McArthur.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

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

J. Skura/bk

cc: Ronald C. Wells
Kirkland Lake, Ontario

Adams Twp. - M.261

THE TOWNSHIP OF
OF

McARTHUR

DISTRICT OF
TIMISKAMING

PORCUPINE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	====
IMPROVED ROADS	====
KING'S HIGHWAYS	====
RAILWAYS	====
POWER LINES	====
MARSH OR MUSKEG	***
MINES	Ⓜ
CANCELLED	ⓧ

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

RESERVATIONS:

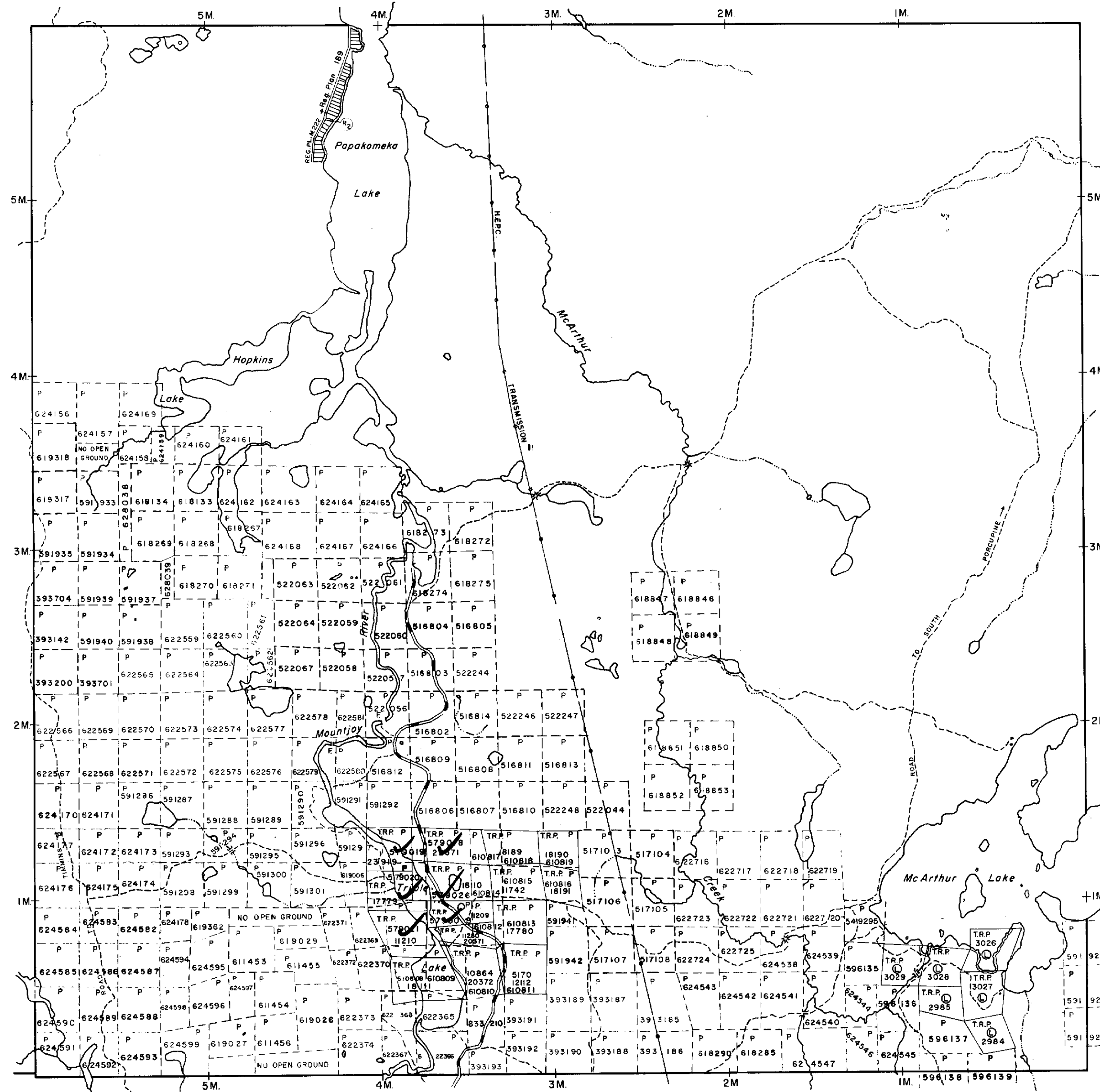
- Ⓡ₁ - Reserved for recreational purposes under Sec.3 P.L.A. File 168543.
- Ⓡ₂ - PUBLIC ACCESS POINT - S.R.O. RES. FILE 164584, vol.2

DATE OF ISSUE
FEB 24 1982
Ministry of Natural Resources
TORONTO

2.4283

PLAN NO. - M.298

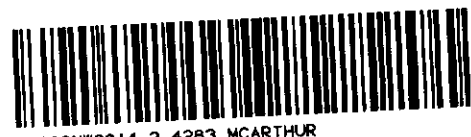
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

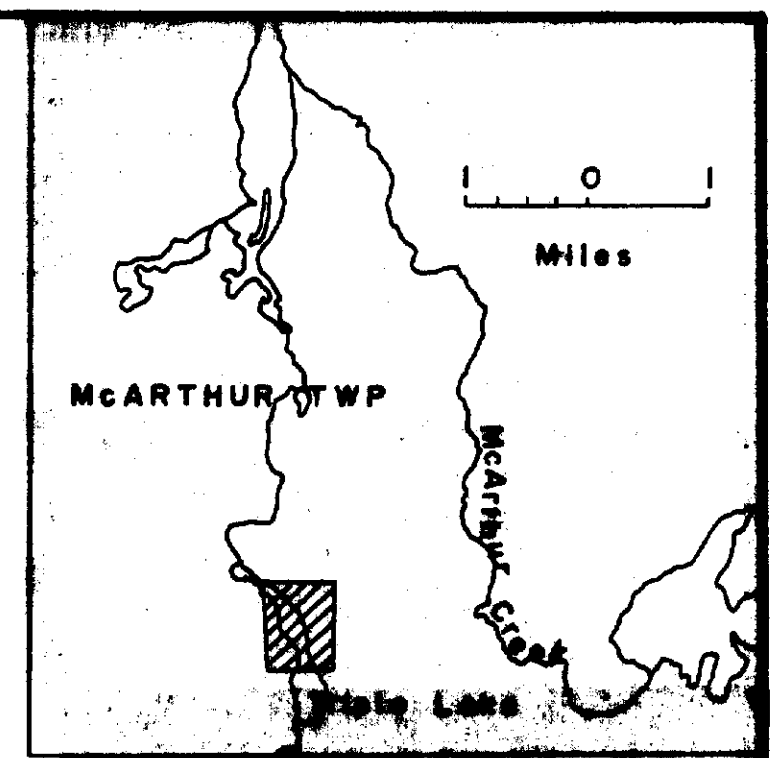
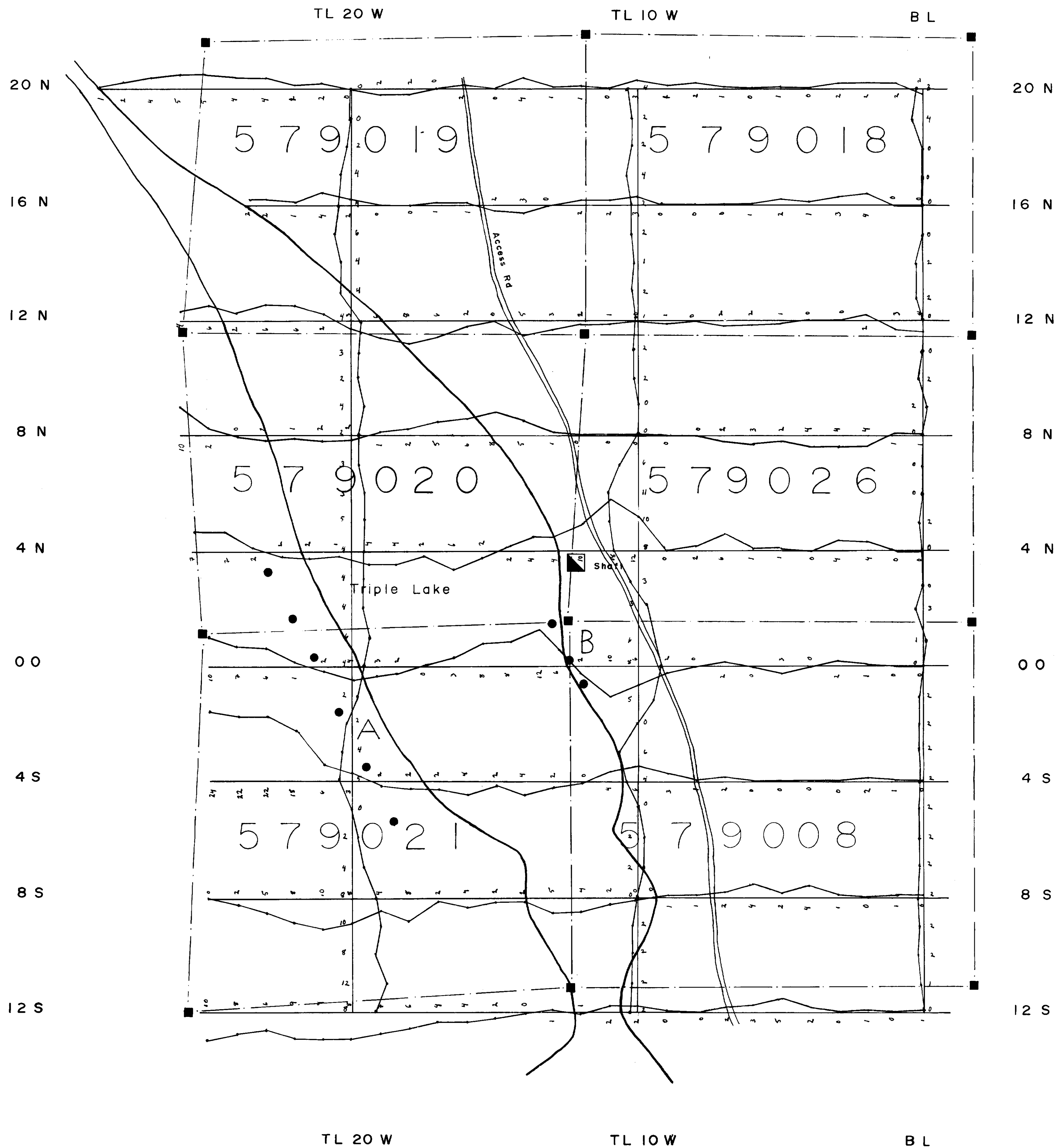


Fripp Twp. - M.281

Douglas Twp. - M.274

Bartlett Twp. - M.262



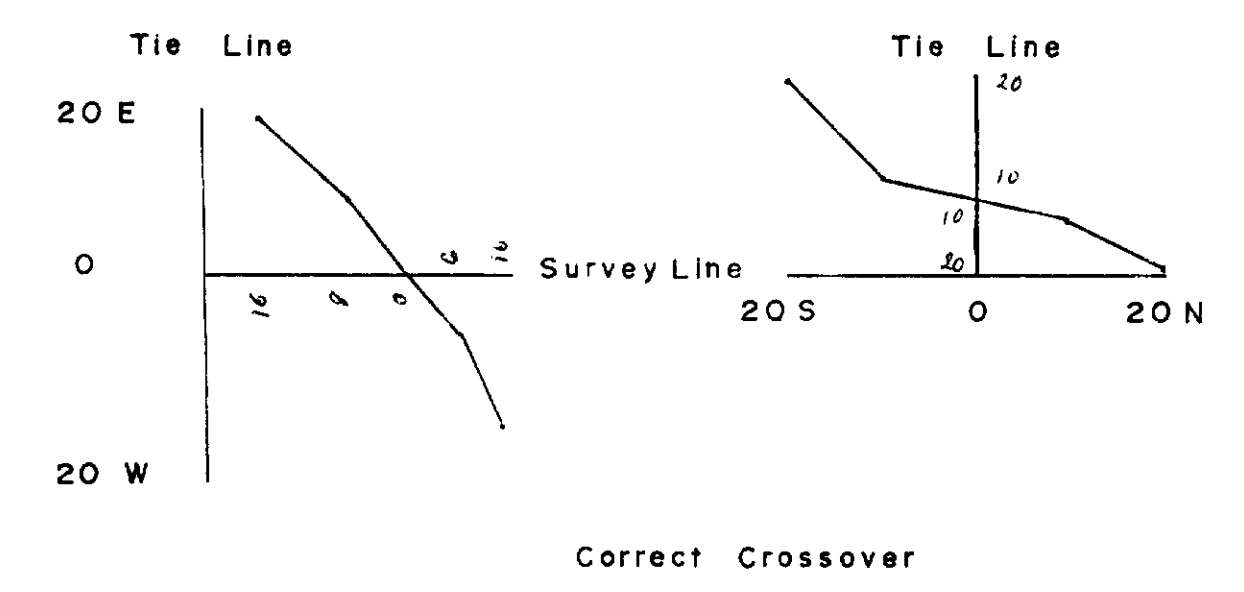


Claim Location Map

GEOPHYSICAL LEGEND

Instrument CRONE RADEM VLF EM UNIT
 Station Annapolis, Md.
 Operator LACANA
 Date 1981

PLOTTING CONVENTION



- ■ — Claim post & claim line
- ● ● Anomaly

24282



LACANA		CONVENTURES LIMITED	
		MURPHY OIL COMPANY LTD	
		LACANA MINING CORPORATION	
CANADIAN MINERALS JOINT VENTURE			
McARTHUR PROJECT			
McARTHUR TOWNSHIP			
VLF SURVEY			
PREPARED BY	SCALE	DATE	FIGURE
R.W.	1"=200'	Nov. 81	42A/3/6 1

*R. W. Wells
Nov 5/81*