



32004NW0126 2.5210 GAUTHIER

010

REPORT  
OF  
GEO-CHEMICAL SURVEY AND PROPERTY EVALUATION  
OF

CASAN MINING LIMITED  
DOBIE MINERAL CLAIMS  
GAUTHIER TOWNSHIP , TIMISKAMING DISTRICT  
LARDER LAKE DIVISION

**RECEIVED**

NOV 24 1982

MINING LANDS SECTION

FOR THE YEAR 1980-1981

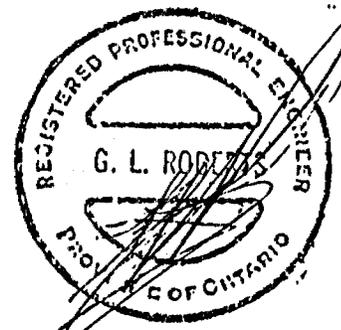
Date: April 21, 1982

Prepared by:

CANDALE MINING MANAGEMENT  
SERVICES LIMITED

G.L. Roberts, P.Eng., M.E.I.C.  
President

G.C. Roberts





32D04NW0126 2.5210 GAUTHIER

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INDEX

	<u>Page No.</u>
1. General	1
2. Surveyed Claim Area	1
3. Location and Access	2
4. Previous Work	2
5. Topography	5
6. Geology	5
7. Survey Methods	5
8. Chemical Analysis - General	6
9. Conclusions and Recommendations	6

INDEX

APPENDIX

- I. General Map of Area
- II. Claim Map
- III. Map Showing Topographic Contours of Claim Area
- IV. Certificate of analysis
- V. Detail Map of Soil Analysis Plotted in  
PPB Scale 1" = 200'

GENERAL

This report describes the results of a program of extensive soil sampling and assaying, conducted and carried out under the supervision of Candale Mining Management Services Limited, covering a four-claim group property of Casan Mining Limited, located in Gauthier Township, East Kirkland Lake gold area, Ontario. The work was carried out by the writer and his assistants in July and August of 1981.

The four claims were staked in 1979 adjacent to the original group of 18 claims staked in 1976. The soil sampling technique and grid systems used were developed and perfected on the original property. The sampling was done to determine the extension and possible development of new anomalous areas, in relation to those on the original claim group. Since the new claims were adjacent to the main property, the original grid system was extended through them. The four claims detailed in this report establish the northern boundary of the Casan property.

SURVEYED CLAIM AREA

The four claims covered by this report are continuous and are identified as follows:

L-489658

L-489659

L-489660

L-489661

LOCATION AND ACCESS

The property is located at the north central part of Gauthier Township, one mile north of Dobie, tying on to the north of Upper Canada Mine. It extends northwesterly with its northwest part adjoining to the northeast of Crestland Mines Limited, formerly Northland Mines Limited.

Access was made by truck from Kirkland Lake via Highway #66 to Northlands Park, and by a bush road from Northlands Park, eastward through the No. 1 shaft area of Northland Mines to the bush road which runs across the central part of the property, and turns to the northern boundary of the property.

PREVIOUS WORK

Casan has not engaged in any previous work with respect to these four claims, but detailed work has been completed upon the main body of the twenty-two claim group. A detailed work history follows:

In the winter of 1976-77, the Company conducted a program of geophysical surveys on this eighteen-claim group. The surveys were carried out by Cana Exploration Consultants Limited, and the results were described by Dr. S.S. Szetu in a report dated January 20th, 1977. Readers are referred to this report for the geophysical data and also to the history of the property.

It should be noted here that the airborne E.M. anomaly referred to in said report was conducted by Upper Canada Mines Ltd.,

apparently prior to May, 1966, and the ground follow-up E.M. surveys were conducted in March and May, 1966 by Moreau Woodward and Company Limited, of Toronto. While the first survey failed, the second survey succeeded in detecting a conductor zone at an inferred depth of over 210' on the ground held under option by Upper Canada Mines. The conductor zone opens to the west to a patented claim then held by Northland Mines.

Data in the office of the Resident Geologist at Kirkland Lake also showed one hole drilled in 1966 on the then known as Taylor Option, logged by J.G. Bragg, Chief Geologist, Upper Canada Mines. This hole was located at the central part of then Claim 79866 across the eastern section of the airborne E.M. anomaly, which showed stronger conduction to the west. The hole cut a narrow band of graphite sediments with occasional bands and nodules of pyrite at a considerable depth.

Another hole was drilled to a shallow depth of 148.6' at a location further east by the then owner of the property, Mr. T.C. Taylor, for assessment work purposes. According to Mr. Taylor, the drill site found near L28N, 1450'E. was the setup for this shallow hole.

As Casan Mining Limited now has claims covering the full length of the airborne conductor, including the unchecked and apparently more outstanding western section, detailed information about these drill holes and other relevant data will be added to the Company's compilation map for further evaluation. During the month

of June, 1978, the Company, Casan Mining Limited, conducted two programs, a geological survey and a radiation survey, on this eighteen-claim group. The surveys were carried out by Cana Exploration Consultants Limited under the direction of Dr. S.S. Szetu and the results are described by the author, Dr. S.S. Szetu in his reports, dated July 29th, 1978 and August 21st, 1978.

The geological report produced for Casan Mining Limited by Cana Exploration Consultants Limited and written by Dr. S.S. Szetu dated July 29, 1978, requested that detailed surface sampling of the claims held by this Company be carried out before any drilling exploration be undertaken.

Casan Mining Limited contracted with Dynamic Construction Ltd. of Toronto to undertake the excavation of trenches and surface blasting, trenching and drilling that would allow detailed sampling of the rock areas available for exploration. This work was carried out in 1978 and submitted in our report dated December 10, 1978.

A thorough geo-chemical survey was undertaken and completed in 1980, and the results demonstrated an extremely strong relationship and coordination between the geochemical anomalic areas and the E.M. anomalic areas already defined. The results and map produced can be found in our report dated October 20, 1980. Due to the successful nature and reliability of the data obtained, soil sampling on a specific grid pattern was implemented in 1981 on the four more recently acquired claims. The sampling only covered three of the four claims, as only enough lines (grid lines) had been cut at the time surveying was completed.

Casan Mining contracted Dynamic Construction of Toronto to drill selected anomalic areas in 1980 and 1981, the results of each

drilling program are expressed in their corresponding reports, dated October 29, 1980 & October 25, 1981.

### TOPOGRAPHY

Most of the area covered by the claims involved is covered with glacial sand overburden to depths of up to 150'. Few areas have rock exposed on or near the surface, which would allow sampling to a definitive extent. Many swamps and a few creeks are present. Sand eskers rising to 100' are common. A section map of the topography is shown on the map of Appendix III.

### GEOLOGY

The north part of the property is mostly underlain by Keewatin acid volcanics and the central part is underlain by Timiskaming sediments with two narrow zones of interbanded acid volcanics. The southwest part of the property is underlain by Algoman Syenite and porphyry syenite, intruding the sediments.

The volcanics and sediments are steeply dipping and apparently schistosed to various degrees. The contacts between the various rock formations are all covered by overburden.

### SURVEY METHODS

A line grid spaced at 400-foot intervals was extended into the four claims from the main property. These picket lines were at a northeast southwest direction turned off from two base lines established at N45°W. The second base line was also extended into the new claims. Stations were claimed at 100' intervals with pickets.

A fifteen' length, 1" diameter auger was used to obtain the samples. To the best of our ability, the auger was pushed through the muskeg until it encountered firm soil, and from this layer a six inch sample was extracted.

This procedure was carried out at each of the forty-three stations which had been laid out on the grid. At each station, ground and soil conditions were recorded, as well as the depth of muskeg, or organic overburdened; also, each type of soil recovered for sampling was recorded.

#### CHEMICAL ANALYSIS - GENERAL

The chemical analysis of the samples was given to the Mississauga firm of Technical Service Laboratories Limited, who utilize a method of analysis, using a nuclear reactor to detect the presence of gold in the samples. The samples of humus submitted are compressed into wafers and sent for radiation, alongside the core of the McMasters' Pool-Type reactor. The reactor adds extra neutrons to the elements in the sample, creating what is known as isotopes. The characteristic wavelengths of the gamma rays given off as these isotopes de-activate are analyzed on a gamma-ray spectrometer, giving a reading on the material in the sample. This type of analysis is very precise. The presence of gold in a sample can be measured down to one part per billion. In older techniques, which required burning the sample, much of the gold disappeared in the burning.

#### CONCLUSIONS AND RECOMMENDATIONS

Results of the assay have been plotted in PPB on the accompanying map in Appendix V. We have joined the higher readings in an attempt to show the anomalic areas that have surfaced and to correlate their locations with respect to those anomalic areas which

were obtained in the Geochemical Survey in 1980 of the main claim group.

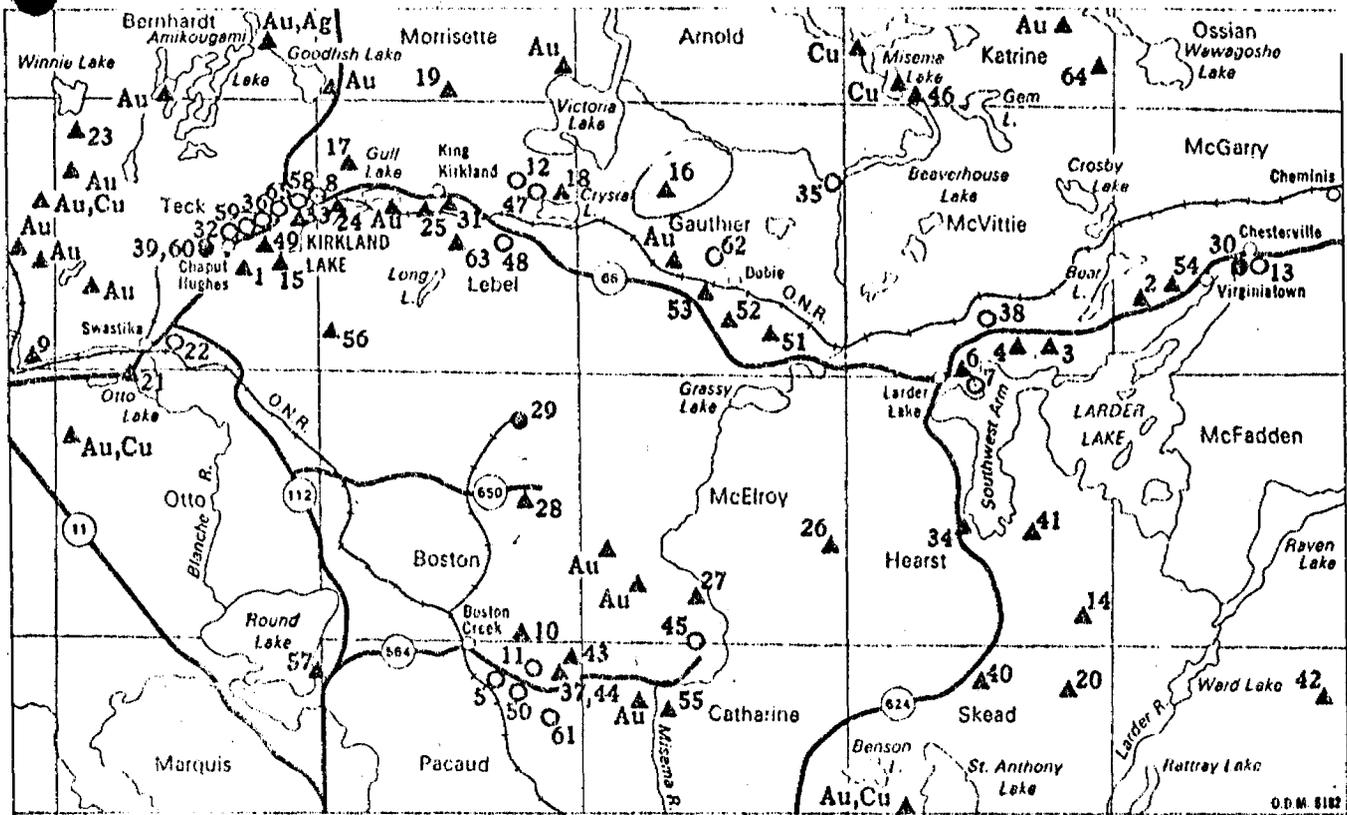
The results, as it seems, demonstrate the expected very low traces of gold. Although disappointing, it adds to the belief that the gold and conductor bands running through our property swing through the central parts, not to the higher northern extremities. Much information as to overburden depths, types of organic top soil and lack of possible new trenching and drilling sites to the north were acquired. The grid system now existing in these claims can now be utilized for further exploration and coordinate systems.

It should be noted that the detailed map supplied here can be attached to the previously completed geochemical survey map in the report of October 20, 1980, for a complete overview of the Casan property.

APPENDIX I

General Map of Area

# PROPERTIES, PAST AND PRESENT PRODUCERS, MINERAL OCCURRENCES



Scale of miles

O.D.M. 5112

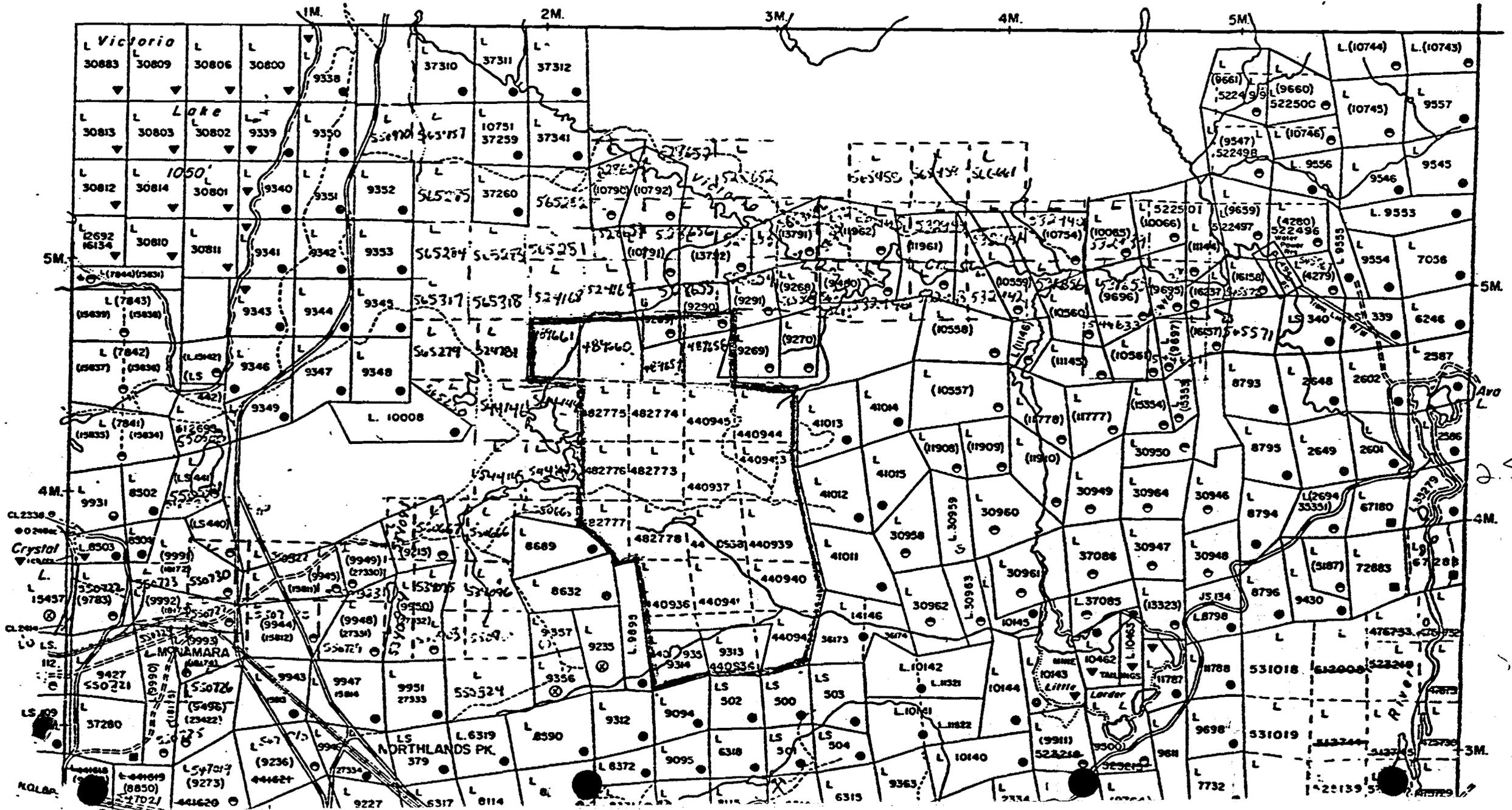
▲ Occurrence	○ Producer
○ Past Producer	
Ag - Silver	Pb - Lead
Au - Gold	U - Uranium
Cu - Copper	Zn - Zinc
Fe - Iron	

- |   |   |   |
|---|---|---|
| 1. Amalgamated Kirkland Mines ... Au                        | 16. Consolidated Northland Mines ... Au                       | 43. Miller occurrence ... Au                            |
| 2. Amalgamated Larder Mines                                 | 17. Continental Kirkland Mines ... Au                         | 44. Miller Independence ... Au                          |
| 3. Barber-Larder occurrence ... Au                          | 18. Crystal Kirkland (Max Kaplan) . U,Au                      | 45. Mirado Nickel Mines (Cathroy mine) ... Au           |
| 4. Cheminis occurrence ... Au                               | 19. Dolsan Mines  | 46. Misema Lake Mining Corp. (Forwood) ... Au,Cu        |
| 5. Fernland occurrence ... Au                               | 20. Fabis (Lal'ond) occurrence ... Au                         | 47. Moffat-Hall mine ... Au                             |
| 6. Amity mine ... Cu  | 21. Gateford Mines  | 48. Morris-Kirkland Gold Mines ... Au                   |
| 7. Argosy Mining Corp.                                      | 22. Crescent occurrence ... Au                                | 49. Northgate Exploration (Kirkland-Hudson Bay) ... Au  |
| 8. New Laguerre occurrence ... Au                           | 23. Golden Gate mine ... Au                                   | 50. Patterson mine ... Cu                               |
| 9. Raven River mine ... Au                                  | 24. Gauthier (Winnie Lake) ... Cu,Zn                          | 51. Princeton Gold Mines (Ritoria mine) ... Au          |
| 10. Associated Arcadia Nickel Corp. (Toburn mine) ... Au    | 25. Glenora (Albert Kokotow) ... Au                           | 52. Queenston Gold Mines ... Au                         |
| 11. Baldwin Consolidated Mines ... Au                       | 26. Harriston (Kirkroyale) ... Au                             | 53. Queenston Gold Mines (Anoki mine) ... Au            |
| 12. Bargnesi Mines ... Cu,Au                                | 27. Hearst-Larder (Detfield Lowe and Emil Chorzepa) Zn,Pb,Cu  | 54. Rio Algom Mines (Armistice) ... Au                  |
| 13. Barry-Hollinger mine ... Au                             | 28. Hennessey occurrence ... Au                               | 55. Riverton Gold Mines (Gold Hill) . Au                |
| 14. Bideop Mines (Bidgood mine) ... Au                      | 29. Jalore Mining Co. ... Fe,Pb,Zn                            | 56. Shelp (Dane Copper) ... Cu                          |
| 15. Chesterville Mines ... Au                               | 30. The Adams Mine ... Fe                                     | 57. Sheromac Mining Corp. (Round Lake cooper) ... Cu,Zn |
| 16. Combined Larder Mines, The ... Au                       | 31. Kerr Addison Mines ... Au                                 | 58. Sylvanite gold mine ... Au                          |
| 17. Consolidated Canorama Explorations (Hudson-Rand) ... Au | 32. King Kirkland Gold Mines ... Au                           | 59. Teck Corporation (Teck-Hughes mine) ... Au          |
|   | 33. Kirkland Minerals Corp. (Kirkland Lake gold mine) ... Au  | 60. Tegen Goldfields ... Au                             |
|   | 34. Kirkland Townsite Gold Mines ... Au                       | 61. Trethewey-Ossian mine (Mrs. Claire Cameron) ... Cu  |
|   | 35. Korola-Larder Mines ... Au                                | 62. Upper Canada Mines ... Au                           |
|   | 36. Upper Beaver Mine (Argonaut) (Lake Beaverhouse) ... Cu,Au | 63. Upper Canada Mines (Pawnee-Kirkland) ... Au         |
|   | 37. Lake Shore Mines ... Au                                   | 64. Wadge Mines (Walsh Katrine) ... Cu                  |
|   | 38. Lebon Gold Mines ... Au                                   | 65. Wright-Hargreaves Mine ... Au                       |
|   | 39. Lomega (Omega) mine ... Au                                |   |
|   | 40. Macassa Gold Mines ... Au                                 |   |
|   | 41. Manor occurrence ... Au                                   |   |
|   | 42. Martin-Bird Gold Mines ... Au                             |   |
|   | 43. Mathias occurrence ... Cu                                 |   |

APPENDIX II

Map of Claim Area

# ARNOLD TP. M.321



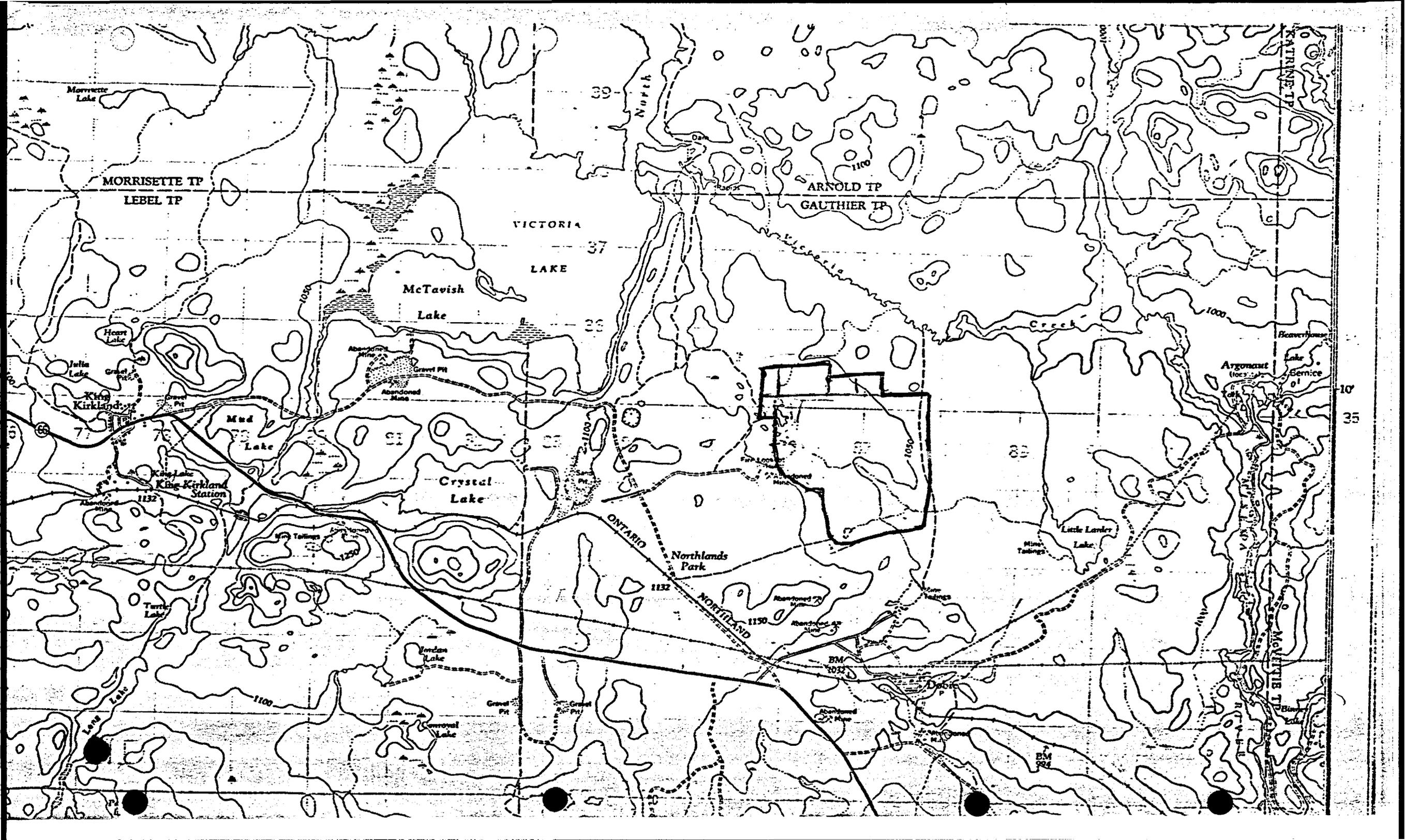
BEL TP. M.359

IE TP. M.370

APPENDIX III

Map Showing Topographic Contours

Of Claim Area



APPENDIX IV

Certificate of Analysis



# TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DR., MISSISSAUGA, ONTARIO L4W 1A2  
TELEPHONE: (416) 625-1544

INVOICE NO.  
**19283**

A6359

<b>CHARGE TO</b>  Casqn Mining Ltd. (Burnhamdale Investments) 1320 Winding Trail, Mississauga, Ont.	<b>DATE</b> April 20/82	<b>REFERENCE NO.</b> T 9668	<b>YOUR ORDER NO.</b>
	<b>SHIP TO</b> Attn: G.L. Roberts		<b>TERMS: NET 30 DAYS</b>

CODE	DESCRIPTION	UNIT PRICE	TOTAL
(1.5)	43 Sample preparations	\$1.20	\$51.60
	43 Samples analysed for Au	\$8.00	\$344.00
			<u>\$395.60</u>

**INVOICE - PLEASE ENCLOSE COPY OF INVOICE WITH PAYMENT**

13

- CHEMICAL RESEARCH AND ANALYSIS
- CONTRACT LABORATORIES

# TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE: (416) 625-1544

TELEX 08-960215

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Casgn Mining Ltd.  
1350 Winding Trail,  
Mississauga, Ont.

REPORT No.

T 9698

Attn: G.L. Roberts

Inv. #19283

SAMPLE(S) OF

SOIL

<u>Samples</u>	<u>Gold (Au) ppb</u>	<u>Samples</u>	<u>Gold (Au) ppb</u>
1001	12	1023	6
1002	24	1024	3
1003	5	1025	2
1004	25	1026	2
1005	9	1027	4
1006	5	1028	2
1007	7	1029	6
1008	4	1030	5
1009	5	1031	4
1010	9	1032	5
1011	11	1033	2
1012	6	1034	3
1013	2	1035	5
1014	3	1036	3
1015	4	1037	2
1016	10	1038	2
1017	3	1039	2
1018	*	1040	11
1019	23	1041	5
1020	7	1042	6
1021	4	1043	4
1022	3	1044	5

Note: \* Sample lost from tape when submitted to Nuclear Activation Services.

Samples, Pulps and Rejects discarded after two months

DATE April 19th, 1982

SIGNED

*Paul E. Burgner*



APPENDIX V

Detail Map of Soil Analysis Plotted

In PPB Scale 1" = 200'



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900

5210

1983 07 07

2.5210

Mr. George J. Koleszar  
Mining Recorder  
Ministry of Natural Resources  
4 Government Road East  
P.O. Box 984  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir:

RE: Geochemical Survey on Mining Claims L489658 and L489659  
in the Township of Gauthier

---

The Geochemical Survey assessment work credits as shown on the attached statement have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

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

D. Kinvig:mc

Encl.

cc: Casan Mining Limited  
Suite 806  
110 Bloor Street West  
Toronto, Ontario  
M5S 1M4

cc: Resident Geologist  
Kirkland Lake, Ontario



1983 07 07

Recorded Holder	CASAN MINING LIMITED
Township or Area	GAUTHIER TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Section 86 (18) _____ days Geological _____ days Geochemical _____ <b>40</b> days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>  <input type="checkbox"/> Credits have been reduced because of partial coverage of claims.  <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	L 489658 - 59

Special credits under section 86 (15a) for the following mining claims

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 86(18)-60:



2,5210

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

Recording Office  
4 Gov't Road East  
Kirkland Lake, Ontario  
P2N 1A2

**RECEIVED**  
DEC - 3 1982  
MINING LANDS SECTION

Lands Administration Branch  
Mining Lands Section  
Ministry of Natural Resources  
Room 1617, Whitney Block  
Queen's Park, Toronto  
M7A 1W3

Date of recording of work: November 26, 1982

Recorded holder: CASAN MINING LIMITED

Address: Suite 806, 110 Bloor St. W., Toronto, Ont. M5S 1M4

Township or Area: Gauthier Township

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	L 489658-59  <i>See Revised work statement</i>
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric <u>20</u> <i>2,5210</i> days	
Induced polarization _____ days	
Section 86 (18) _____ days	
Geological _____ days	
✓ Geochemical <u>40</u> days	
Man days <input type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input type="checkbox"/>

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to the Lands Administration Branch with this letter.

*[Signature]*  
Mining recorder / 1p

c.c. George L. Roberts  
#86, 1350 Winding Trail  
Mississauga, Ont.  
L4Y 2T8



1982 12 21

2.5210

Mining Recorder  
Ministry of Natural Resources  
4 Government Road East  
P.O. Box 984  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir:

We have received reports and maps for a Geochemical Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 489658 in the Township of Gauthier.

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

DM:sc

cc: Casan Mining Limited  
Toronto, Ontario

President  
G. L. ROBERTS, P. ENG., M.E.I.C.  
Vice-President  
S. S. SZETU, PH.D., P. ENG.

**CASAN  
MINING** Head Office  
L I M I T E D

Suite #806, 110 Bloor Street West, Toronto, Ontario  
Telephone (416) 922-8148 Canada. M5S 1M4

Land Management Branch  
Room 6450, Whitney Block  
Queen's Park  
Toronto, Ontario. M7H 1N3

November 22, 1982

**RECEIVED**

NOV 24 1982

Attention: Arthur Barr

**MINING LANDS SECTION**

Dear Mr. Barr:

Enclosed please find two (2) copies of the following reports: "Geochemical & Property Evaluation of Casan Mining Limited, Dobie Mineral Claims, Gauthier Township, Timiskaming District, Larder Lake Division, prepared by Candale Mining Management Services Ltd, dated April 21, 1982" and of the "Radiometric Survey of Casan Mining Limited, Dobie Mineral Claims, Gauthier Township, Timiskaming District, Larder Lake Division, dated April 23, 1982, prepared by Candale Mining Management Services Ltd."

Duplicate copies of the Reports of Work for these two reports have been sent to the Recording Office, Larder Lake Division, Kirkland Lake. Work reports for Geochemical work of eighty (80) days is to be credited to the claims numbered L489-658 - 40 days & L489-659 - 40 days; for Geophysical-Radiometric work of forty (40) days, to be credited to the claims numbered L489-658 - 20 days & L489-659 - 20 days.

If any further information is required, please contact me at our Head Office at the above address.

Yours truly,

*G.L. Roberts*

G.L. Roberts, P. Eng., M.E.I.C.  
President

*Qualif.*

*2.2975*

GLR:m;  
Encl.

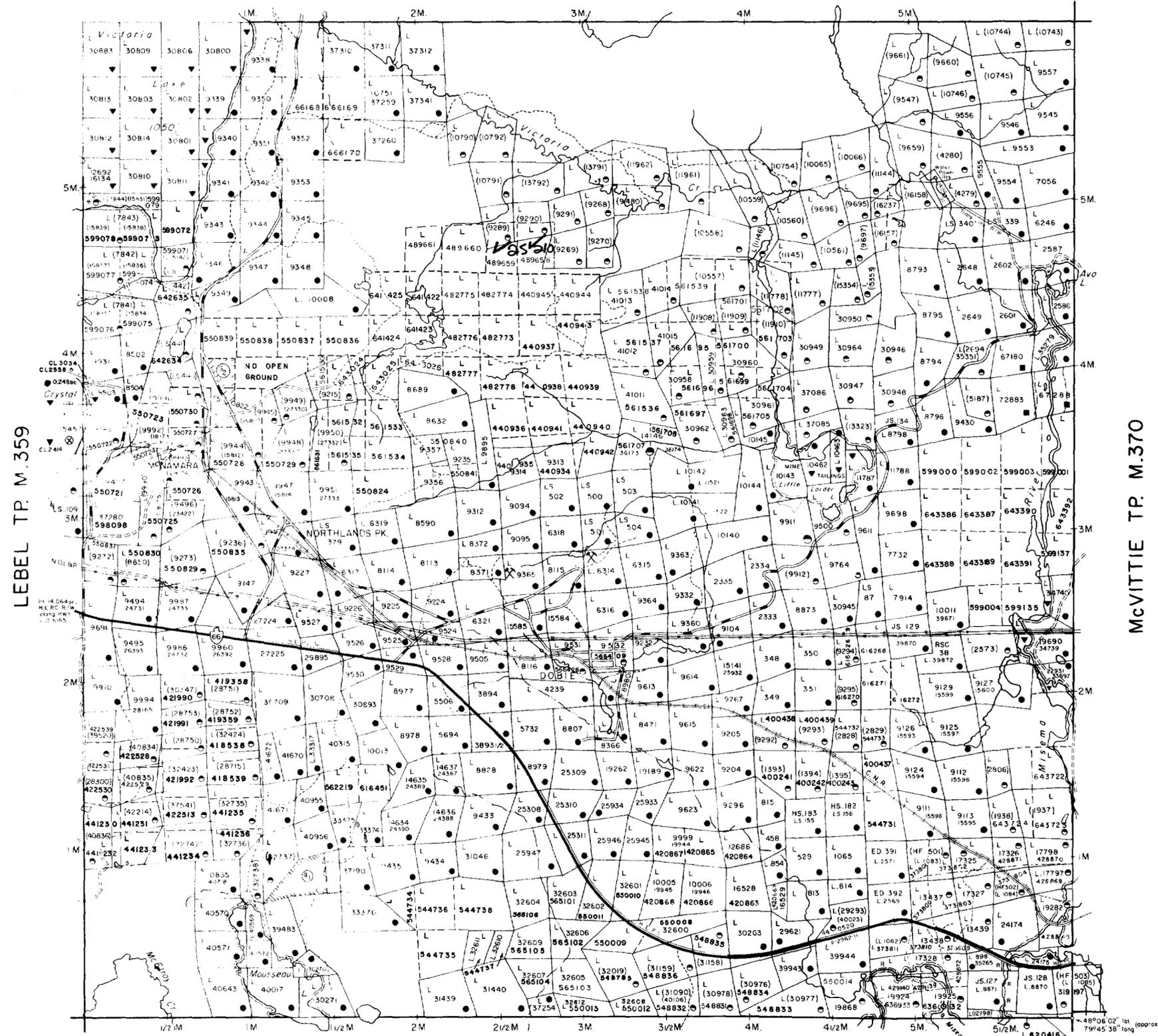
NOTES

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

SAND & GRAVEL

- ① M.T.C. PIT No.1666 FILE 101421
- ② M.T.C. PIT 3F-27

ARNOLD TP. M.321



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
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

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          |        |
| CROWN LAND SALE                |        |
| ORDER-IN-COUNCIL               |        |
| RESERVATION                    |        |
| CANCELLED                      |        |
| SAND & GRAVEL                  |        |



ACRES	HECTARES
40	16

TOWNSHIP  
**GAUTHIER**  
 DISTRICT  
 TIMISKAMING  
 MINING DIVISION  
 LARDER LAKE

Ministry of Natural Resources  
 Ontario Surveys and Mapping Branch  
 Date JAN. 1973 Plan No. M.350  
 Whitney Block Queen's Park, Toronto

DATE OF ISSUE  
**FEB - 4 1983**  
 Ministry of Natural Resources  
 TORONTO



McELROY TP. M.366

LEGEND

- ✕ ✕ ALDER / GRASS SWAMP
- ↓ ↓ SWAMP WITH TREES
- ⋯ HIGH GROUND
- ~ CREEK
- ~ POND/LAKE
- == BUSH ROAD
- OBSERVED / ASSUMED BOUNDARY
- CLAIM POST ASSUMED
- CLAIM POST FOUND
- CLAIM LINE OBSERVED
- CLAIM LINE ASSUMED
- PICKET LINE
- PICKET LINE PROPOSED
- DEPTH TO SAMPLE (FROM SURFACE)
- STATION
- SAMPLE NUMBER
- GOLD (Au) PEB

PLAN 11B

GEO CHEMICAL SURVEY  
 SCALE 1" = 200'  
 DATE APRIL 21 1982

