

4445

92I/7E

A GEOPHYSICAL and GEOCHEMICAL

Report

on the 18 "WES" Claim Property of

BART MINES LTD

Situated $4\frac{1}{2}$ miles West

of Lac Le Jeune

In the Kamloops Mining Division

N.T.S. 92I/7(E)

Lat: $50^{\circ}28'N$ Long: $120^{\circ}36'W$

on behalf of

BART MINES LTD

by

D.R. Morgan, P. Eng.

Dates of Survey: 20-26Sept, 1972

Date of Report: 20 June, 1973

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4445 MAP



**BRITISH
COLUMBIA**

BART MINES LTD

"WES" 57-74 Claims

Lac Le Jeune, B.C.

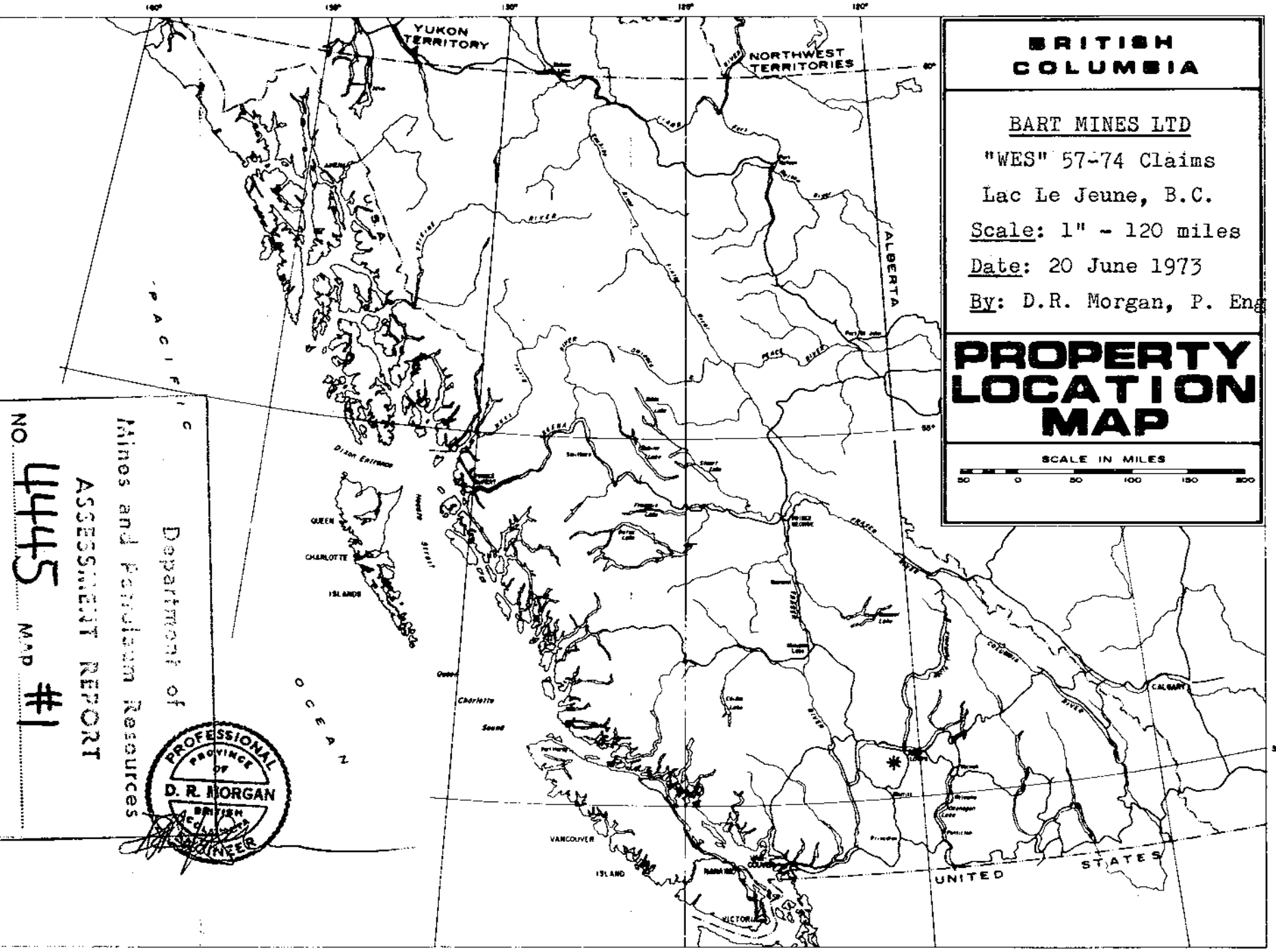
Scale: 1" - 120 miles

Date: 20 June 1973

By: D.R. Morgan, P. Eng

**PROPERTY
LOCATION
MAP**

SCALE IN MILES



Department of

Mines and Petroleum Resources

ASSESSMENT REPORT

NO 4445 MAP #1



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Maps Accompanying this Report:

1. #1 Property Location Map.
2. #2 Magnetometer & Geochemical Survey Map - 1" - 400 feet (pocket)
- #3 Linecutting
- #4 Topographic map

1 - 0 SUMMARY:

Magnetometer and soil sampling surveys were carried out on the 18 "WES" claims near Lac Le Jeune in September 1972.

In addition two days were spent on the property by the writer carrying out a reconnaissance geological examination as an aid to the interpretation of the other surveys.

A total of 86,900 feet of line was brushed out, blazed and chained. Chainages were marked on metal tags for permanence.

Magnetometer readings were taken at 100 foot intervals and soils were sampled at 200 foot intervals along these lines.

2 - 0 CONCLUSIONS:

The magnetometer survey showed that the property is almost devoid of magnetic relief, indicating rock types having uniform magnetic properties.

The geochemical survey indicated an elongate area with anomalous copper values in WES # 64 & 66 claims. A smaller anomalous area lies to the south in WES # 72. This area lacked outcrop.

The geological examination of the property showed the northeast part of the property is underlain largely by agglomerate. In the southwest part of the property on WES # 71 there is an outcrop of basalt cut by an N.E. striking monzonite dyke, however the basalt is probably not too extensive judging by its lack of magnetic expression.

3 - 0 INTRODUCTION:

3 - 1 Scope & Dates of Report: On the 18th September 1972 the writer was asked by Mr. W. Hamilton on behalf of Bart Mines Ltd., to visit the Company's "WES" 57 - 74 claims in the Lac Le Jeune area. The purposes of this visit were:

1. To make a reconnaissance geological investigation of the main outcrop areas encountered by the crew carrying out the magnetometer and soil sampling surveys.

2. To use this data as an aid in the interpretation of the results of the geophysical and geochemical surveys.

The line cutting, geophysical and geochemical surveys were carried out between September 23th and 26th 1972. The writer visited the property on the 27th and 28th September 1972. This report was written between the 18th and 20th June 1973.

3 - 2 Title: The property consists of 18 claims as set out below:

<u>Claims</u>	<u>Record Numbers</u>	<u>Years Applied</u>	<u>New C of W Due</u>
WES 57-74	111906 - 111923	2 years each	24 April 1974

An application for a Certificate of Work was filed in Vancouver in April 1973.

4 - 0 GEOGRAPHY:

4 - 1 Location: The property is located $4\frac{1}{2}$ miles west of Lac Le Jeune, near Kamloops, B.C. The property is in the Kamloops Mining Division, lies in National Topographic System Area 92 I/7(E) and has a latitude of $50^{\circ}28'N$ and a longitude of $120^{\circ}36'W$.

4 - 2 Access: The property is accessible by a road leading westerly from Lac Le Jeune. A logging road traverses the property in a northerly direction.

4 - 3 Topography: The property lies on a gently south facing slope between 4,100 and 5,100 elevation.

5 - 0 GEOLOGY:

The G.S.C. map # 886A (Nicola Sheet) shows the property to be underlain by Upper Triassic Nicola Group rocks.

Most of the outcrop on the property lies in claims WES #s 57 - 63. This part of the property is underlain by a coarse grained andesitic agglomerate. No mineralization was observed in this area.

In the southern part of the property there is a far smaller area of outcrop on WES # 71 and 72. Here a basalt is cut by a northeast trending monzonite dyke.

6 - 0 SURVEY CONTROL:

A north - south base line was cut and chained; side lines were turned off at 500 foot intervals and cut and chained to property limits. All chainages were marked on permanent aluminum tags.

7 - 0 MAGNETOMETER SURVEY:

7 - 1 Instrument: The instrument used in this survey was a Geotronic G - 100 fluxgate type magnetometer.

This instrument is a hand held, self-orienting type which requires only approximate levelling with a bull's eye bubble.

This instrument has a range of plus or minus 100,000 gammas on the highest scale. Its sensitivity is plus or minus 20 gammas on the most sensitive scale. Readings are taken by obtaining an audio null.

7 - 2 Field Procedure: Magnetometer readings were taken, first at a base station and then along the base line in a closed loop. The base station was referred to each day at the start and finish of the day's work. Survey traverses were run in closed loops beginning and ending at the base line.

7 - 3 Corrections: Diurnal magnetic variations during each loop were detected by the initial and final readings at the base station which formed the start and end of a loop. This variation was distributed among the stations along the loop by assuming it to be linear, and then applying to any station on the loop the ratio of the time elapsed when the reading was taken divided by the total elapsed time for the loop.

7 - 4 Results: The results of the survey are shown on the map (in pocket) accompanying this report.

These results show that this property is almost devoid of magnetic relief, indicating rock type(s) with uniform magnetic properties.

8 - 0 GEOCHEMICAL SURVEY:

8 - 1 Sampling Procedure: Soil samples were taken at 200 foot intervals along the lines from the "B" soil horizon and were placed in high wet strength paper sample bags. These samples were analysed for copper by hot acid extraction and atomic absorption.

8 - 2 Results: The frequency distribution of metal values was as follows:

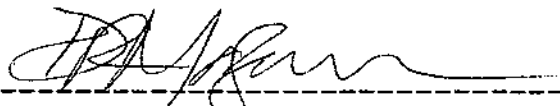
<u>Range</u> <u>ppm Cu</u>	0-19	20-39	40-59	60-79	80-99	100-119	120-139	140-159	160-179
<u>Frequency</u>	58	250	74	26	7	6	1	1	2

A fairly sharp break occurs in the 60-79 ppm range, and values above 80 ppm Cu can definitely be considered anomalous.

Thus defined, two anomalous areas were detected by this survey, the first in WES # 64 & 66 and the second in WES # 72 as shown on the accompanying map. Since no outcrop occurs in either of these areas, the cause of these anomalies is not known.

These anomalies are relatively minor and do not in themselves justify bulldozer trenching. Their significance may however be enhanced in the light of work don on adjacent properties, in which case further attention may be justified.

Respectfully submitted,



David R. Morgan, Geolcgist, P. Eng



DOMINION OF CANADA:
PROVINCE OF BRITISH COLUMBIA.
To Wit:

In the Matter of the GEOPHYSICAL & GEOCHEMICAL SURVEY on the "WES" 57 - 74 claims held by BART MINES LTD., 4½ miles West of Lac Le Jeune, near Kamloops, B.C.,

I, David R. Morgan, geologist, P. Eng
of 3424 West 6th Avenue, Vancouver 8, B.C.

in the Province of British Columbia, do solemnly declare that the following costs were incurred in carrying out the work:

Personnel:

Line Cutters & Soil Samplers:

Ed Anderson:	Sept 20 - 26th, 1972. 7 days @ \$61./day:	427.
Jan Pearson:	" " " " " "	427.
Lou Krause:	" " " " " "	427.
Ken Douglas:	" " " " " "	427.

Magnetometer operator & supervisor:

Bill Hamilton	" " " " \$91./day:	637.
Geologist: (Reconnaissance & report writing)		
D.R. Morgan, P. Eng.	5½ days @ \$125/day	687.

Transportation:

Truck: 7 days at \$18/day:	\$126.	
mileage:	150.	
Cars:	84.	
	<hr/>	360.

Geochemical Assays:

461.

Magnetometer Rental:

100.

Field Supplies, tags, bags, flagging etc:

100.
\$4,053.

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the City of Vancouver, in the Province of British Columbia, this 22nd day of June, 1973, A.D.

A Commissioner for taking Affidavits for British Columbia or
A Notary Public in and for the Province of British Columbia.

SUB-MINING RECORDER

In the Matter of

.....

.....

.....

.....

Statutory Declaration
(CANADA EVIDENCE ACT)

540	470	410	350	290	230	170	110	50	
480	410	350	290	230	170	110	50		
420	350	290	230	170	110	50			
360	290	230	170	110	50				
300	230	170	110	50					
240	170	110	50						
180	110	50							
120	50								
60									
0									

Values in Gammas

32	26	20	14	8	2	-4	-10	-16	-22
26	20	14	8	2	-4	-10	-16	-22	-28
20	14	8	2	-4	-10	-16	-22	-28	-34
14	8	2	-4	-10	-16	-22	-28	-34	-40
8	2	-4	-10	-16	-22	-28	-34	-40	-46
2	-4	-10	-16	-22	-28	-34	-40	-46	-52
-4	-10	-16	-22	-28	-34	-40	-46	-52	-58
-10	-16	-22	-28	-34	-40	-46	-52	-58	-64
-16	-22	-28	-34	-40	-46	-52	-58	-64	-70
-22	-28	-34	-40	-46	-52	-58	-64	-70	-76

Values in ppm Cu

Analyses by Aeco Laboratories, Surrey

Professional Engineer
 D.R. Morgan
 No. 4445 MAP #2

4445 M-2

BART MINES LTD
 "WES" 57-74 CLAIMS, LAC LE JEUNE, B.C.
MAGNETOMETER & GEOCHEMICAL SURVEYS
 Scale: 1 = 400'
 Date: 20 June 1973
 By: D.R. Morgan, P. Eng
 To accompany a Geophysical & Geochemical Report on the WES 57-74 Claims of the Kootenai M.D., by D.R. Morgan P. Eng., Dated: 20 June 1973.

- PLACED TIE LINES
- BASED PLACED + TIED
-

17.4 miles Line Cutting
 5 miles of tie lines
 17.4 miles Soil Sampling
 at 100' intervals
 17.4 miles Mag.
Readings

BART MINES.
 WES. GROUP.
 " KAMLOOPS AREA
 " Sept. 1973

+ Geological Mapping.



~~100~~
~~200,000~~
~~300,000~~
~~85,000~~



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 44445

ADA

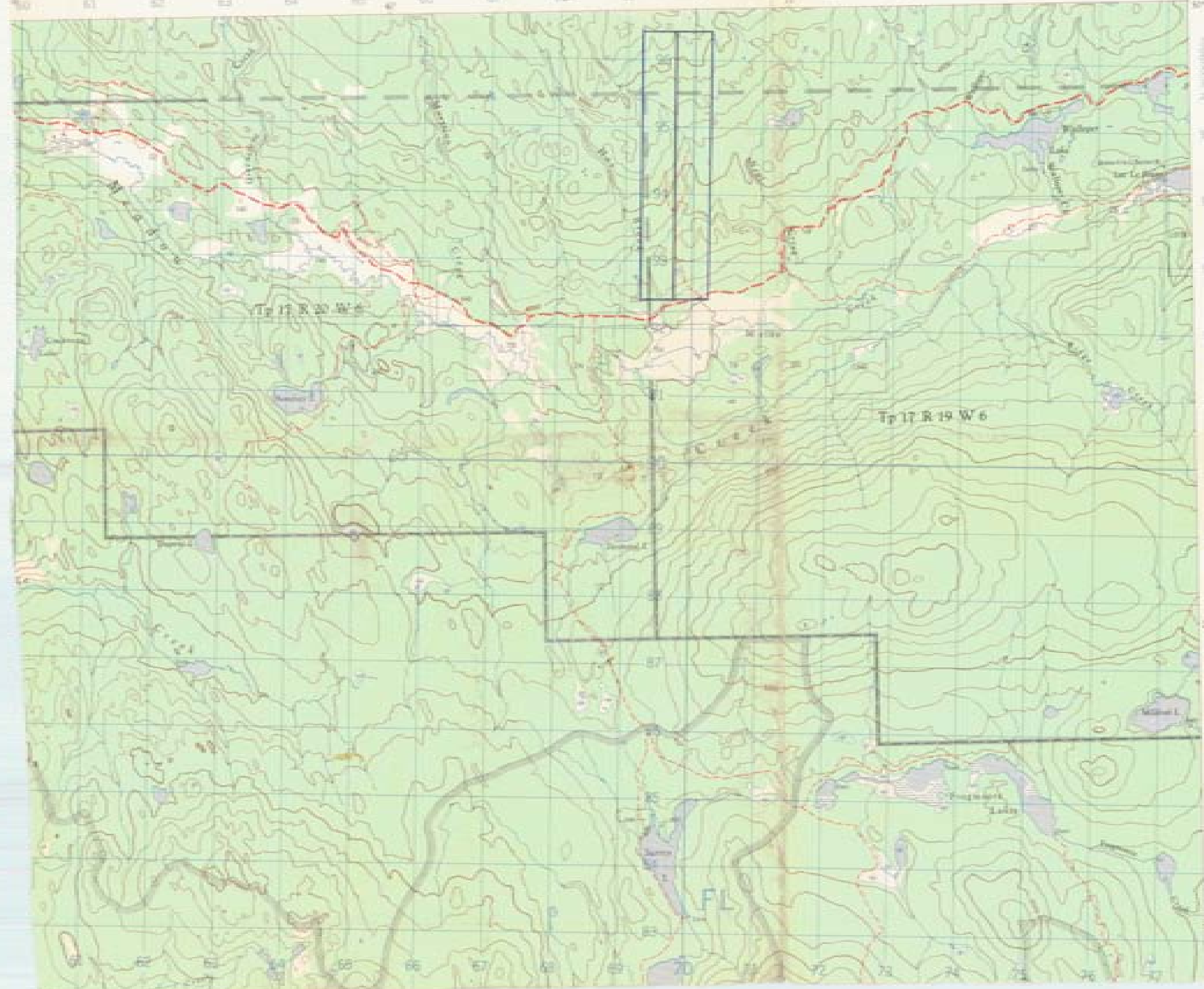
CARTE PROVISOIRE

92-1/7

EDITION 1

6260000 E

Refer to this map as:	92/7 EDITION 1 USE SERIES A 701
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Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4445 MAP #4

4445
M-4

