



consulting western ltd.

environmental planning and engineering consultants

302 jarvis street, whitehorse, yukon territory Y1A 2H2 phone (403) 667-6327

January 5, 1982.

C.W. Friday Contracting
1505 Birch Street
Whitehorse, Yukon

Attention: Mr. C.W. Friday

Dear Sir:

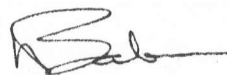
Enclosed please find a statement in the amount of \$4,152.13 for
invoice #951342.

Your immediate response would be appreciated. This amount is past due.

Yours truly,

EPEC CONSULTING WESTERN LTD.

4459


Larry Whelan
Area Manager

091003

File No: 6999-001-01-99

81 10 16

BARITE MOUNTAIN

PROPERTY LOCATION

Mr. C. Friday
C/O EPEC Consulting Western Ltd.
302 Jarvis Street
Whitehorse, Yukon
Y1A 2H2

AND EVALUATION

Dear Sir,

Subject: Barite Mountain Property - Location and Evaluation

Attached hereto, please find a short report detailing the results of our investigation of the barite deposits in the vicinity of Barite Mountain (Latitude 61°51' and Longitude 133°0', approximately), Yukon Territory.

As outlined, during the course of this investigation:

- (i) major barite outcrops were located and described in the area, and
- (ii) should economic factors be favourable, an outline of the further work required to establish proven ore reserves has been recommended.

We would be pleased to provide any additional services to this project, as required. In the meantime, should you have any questions relating to this report, please contact the undersigned.

Yours truly,

EPEC CONSULTING WESTERN LTD.

October, 1981

A.M. McCann, P.Geol.
Senior Geologist

AMM/dam

091003

BARITE MOUNTAIN
PROPERTY LOCATION
AND EVALUATION



Prepared for:
Mr. C. Friday
Whitehorse, Yukon

October, 1981

09 1003



This report was prepared by
the Yukon Department of Mineral Resources and Geology
under Section 25 of the Quartz
Mining Act and is valued as
representation work in the amount
of \$ 4,000.

A. Watson

Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

PROPERTY LOCATION
AND EVALUATION

Yukon Department of Mineral Resources and Geology
1000-101st Street
Whitehorse, Yukon



consulting western ltd.



302 jarvis street
whitehorse, yukon territory Y1A 2H2
phone (403) 667-6327

FILE No. 60-6999-001-01-99

TO: C.W. Friday Contracting
1505 Birch Street
Whitehorse, Yukon
Attention: Mr. C.W. Friday

Date October 31, 1981

INVOICE No. 951342

TERMS: Net Payable on Receipt of Invoice - 1½ % per Month Interest Charged on Overdue Accounts.

re: Barofite Mountain Property - Evaluation & Report
for: Professional Services Rendered to end of October, 1981

FEES

Mr. A. McCann, P. Geologist	27.0 hrs @ 61.66 =	1,664.82
Mr. Noel Hogan, Jr. Eng.	30.0 hrs @ 33.78 =	1,013.40
Mr. Dumphy, Dftg.	13.5 hrs @ 30.27 =	<u>418.09</u>

\$3,096.31

EXPENSES

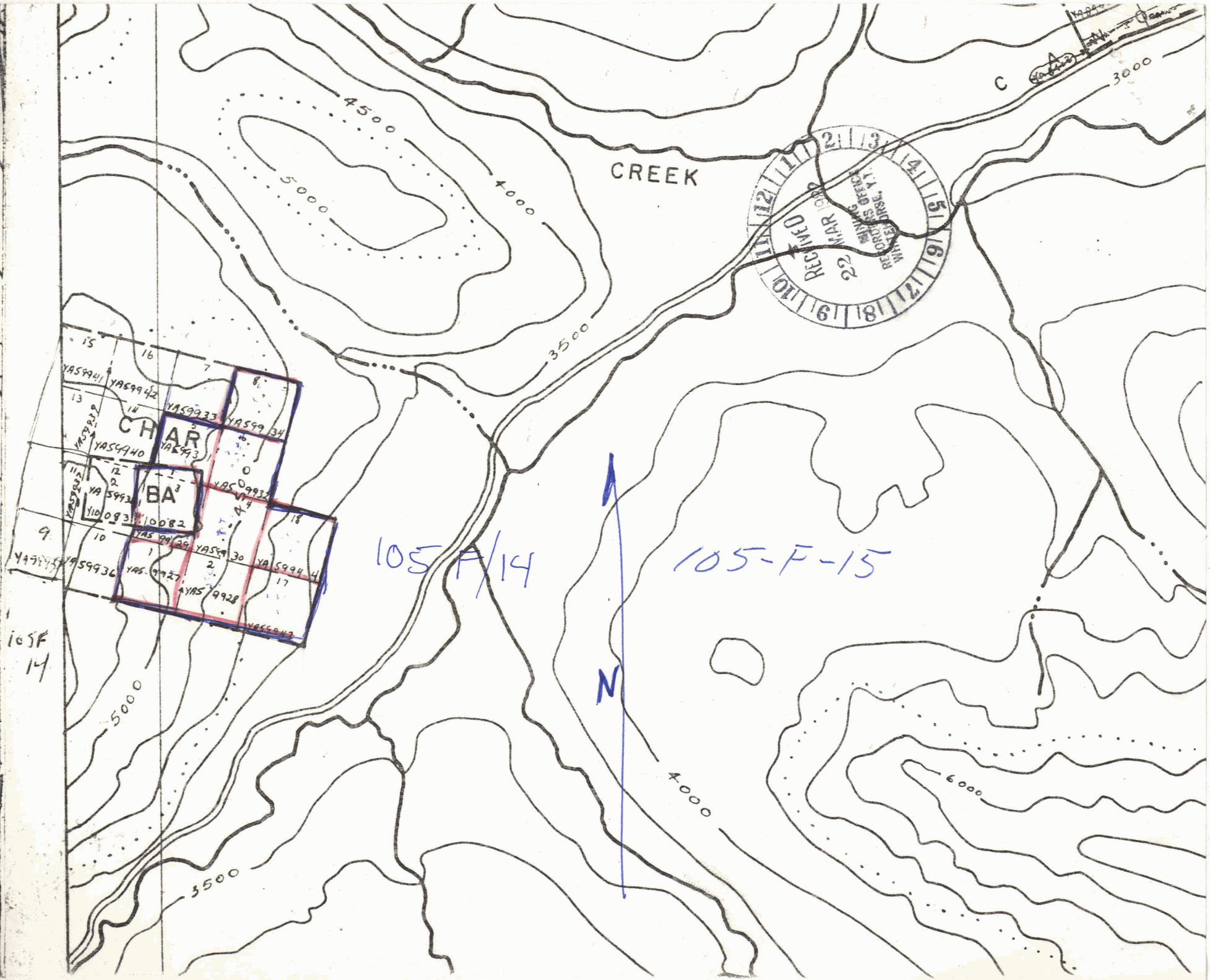
Vehicle	954 kl. X 30¢ km. =	286.20
Hotel		= 208.50
Air Fare		= <u>351.00</u>
		904.35
Plus 10%		<u>90.41</u>

994.46

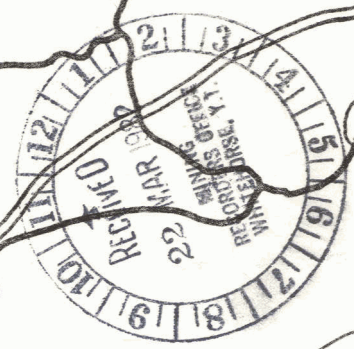
TOTAL DUE THIS INVOICE



4,090.77



CREEK



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LOCATION

The property is situated on the northeast flank of Barite Mountain in the St. Cyr Range (Pelly Mountains), Yukon Territory. This location is approximately 35 km (straight line) southwest of Ross River post at the junction of the Ross and Pelly Rivers. The barite veins outcrop between elevation 1,430 m and 1,845 m, approximately and are accessible on foot via a temporary service road from the Canol Highway at Km.186.6.

EVALUATION

A field inspection of the property was carried out by EPEC personnel on September 6, 1981. The inspection included accessibility considerations, mapping of barite outcrops and an overview of the geology of the area.

Access to the deposits is provided by the temporary service road reportedly constructed in 1968-1969. This road is presently impassable to vehicles due to vegetation regrowth and deadfall, washouts and bank instability resulting from groundwater seepage between 200 - 300 m (approx.) from its junction with the Canol Highway. The road is approximately 1.6 km in length and from EL. 1,075 m (approx.) to its termination at EL. 1,225 m (approx.) the grade is excessively steep.

As indicated above, the barite deposits are located on the northeast flank of Barite Mountain. In this area, barite occurs in a series of near-parallel veins which are best exposed on the north and south sides of two, (southern and northern, respectively) NW-SE trending gullies. The presence of barite veins in the southern gully (approximately 300 m south of documented deposits) has apparently not been previously reported. The locations of those veins which are generally more than 1 m thick are shown on Figure 1 and a summary of pertinent data is outlined in Table I.

McCann S. Brian
Michael
B

TABLE I - SUMMARY OF BARITE OUTCROP DATA

South Gully (Lower to Upper Outcrops)

<u>Elevation (m)</u>	<u>Strike</u>	<u>Dip</u>	<u>Thickness (m)</u>	<u>Length (m)</u>
1,430 (approx.)	N40°E	70°SE	1-3.5 (approx.)	75+ (approx.)
1,477 (approx.)	N50°E-N60°E	60°SE	1 (approx.)	60+ (approx.)
1,640 (approx.)	N70°W	90°	1 (approx.)	
1,729 (approx.)	N30°E		1 (approx.)	
1,843 (approx.)	N50°E	73°SE	0.6 (approx.)	

North Gully (Upper to Lower Outcrops)

<u>Elevation (m)</u>	<u>Strike</u>	<u>Dip</u>	<u>Thickness (m)</u>
1,860 (approx.)	N50°E		1 (approx.)
1,727 (approx.)			3 (variable)
1,654 (approx.)			0.6 (approx.)
1,605 (approx.)	N50°E		1 (variable)
1,569 (approx.)	N50°E		1 (approx.)
1,542 (approx.)	N50°E	80°SE	1.5 (approx.)
1,520 (approx.)	N60°E		1 (variable)
1,505 (approx.)	N40°E		1 (variable)
1,493 (approx.)	N16°W		1 (approx.)
1,483 (approx.)	N15°E		1 (approx.)

It should be noted that:

- elevations were measured on the barite veins with a pocket altimeter (referenced to the bench mark adjacent to the Canol Highway-BM73Y091) at the base of respective gullies
- barite vein locations indicated on Figure 1 are based on the measured elevation; due to the scale of the map these locations are considered to be approximate
- in places, variations in the strike of the veins were observed

The barite veins occur in a thick Lower Palaeozoic limestone and dolomitic limestone sequence (Kindle, E.D., G.S.C. Paper 45-21, c.1969). They are thought to infill sets of fractures related to the northwesterly trending Barite Fault which is reportedly located in the vicinity of the northern gully on the northeast flank of Barite Mountain (Figure 1). This investigation has revealed the presence of additional barite veins in a gully approximately 300 m south of the above noted gully. In the southern gully, the barite veins terminate against an apparent fault which has a similar strike to the Barite Fault. Further work will be required, however, in order to verify this relationship. Minor faults and fractures were also noted in the vicinity of the barite deposits. In places, these features may be associated with variations in strike along the barite veins.

SUMMARY

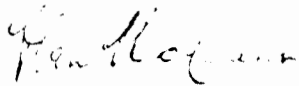
This investigation has confirmed the presence of barite deposits on the northeast flank of Barite Mountain. The approximate locations of barite veins generally greater than 1 m thick are shown on Figure 1 at a scale of 1:25,000. Detailed mapping of the deposits was not undertaken during the

site inspection. This inspection, however, has indicated that the structural geology (faulting and fracturing) may be more complex than previously considered. Consequently, should it be decided to conduct detailed studies of the deposits, the following approach is recommended:

- (1) large scale contour plans be obtained for the site;
- (2) a detailed air photo interpretation be made of the area;
- (3) detailed on-site geologic mapping and surveys be undertaken; and
- (4) depending on results of the above, an exploration drilling program could be designed and implemented such that accurate estimates of barite reserves could be prepared.

Respectfully submitted,

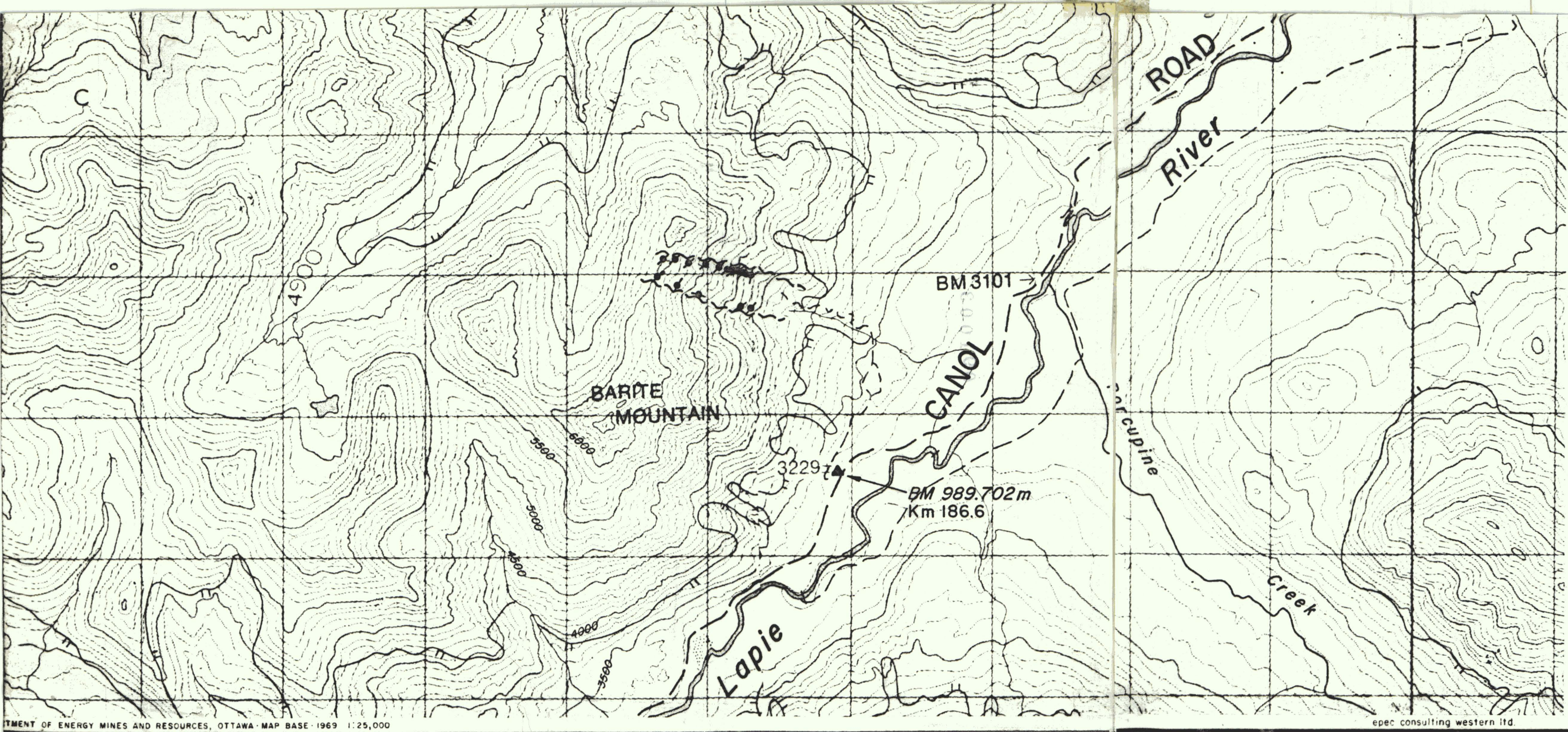
EPEC CONSULTING WESTERN LTD.



A.M. McCann, M.Sc., P.Geol.

Senior Geologist

AMM/dam



MR. C. FRIDAY
WHITEHORSE, YUKON

Figure I. Location Plan.



LEGEND

- fault zone (approximate)
- barite outcrop (approximate)
- / strike of barite vein

