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CANADA TUNGSTEN MINING CORPORATION LTD.

LEM #1-11 MINERAL CLAIMS

Mayo M.D., Y.T., Sheet 105M-14

63°54'N. Lat., 135°14'W. Long.

GEOLOGICAL REPORT

July-August, 1979

by

T.M. Elliott, B.Sc., M.S.

February 22, 1980

090544

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CANADA TUNGSTEN MINING CORPORATION LTD.

Lem #1-11 Mineral Claims

Mayo M.D., Y.T., Sheet 105M-14

63°54' N. Lat., 135°14' W. Long.

1. INTRODUCTION

During July and August, 1979, the writer and his assistants, C. Orssich and J. Slipetz (see Appendix 1), spent two weeks on a prelimary geological survey of the Lem #1-11 mineral claims. Mapping consisted mainly of noting rock talus and float on the claims as well as geological mapping of sparse rock outcrops.

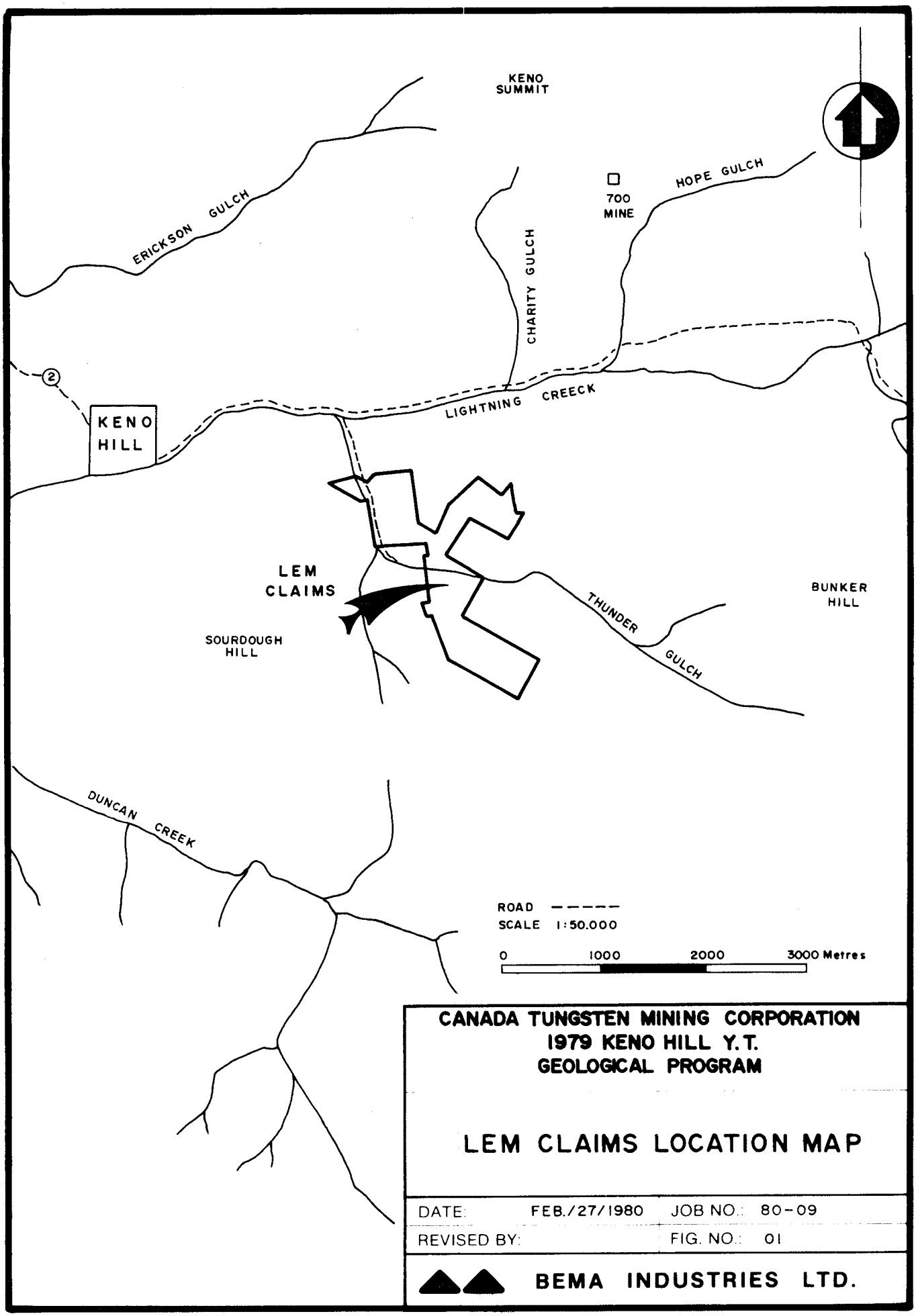
2. LOCATION AND ACCESS

The Lem Claims straddling Thunder Gulch which is south of Lightning Creek, are approximately 2.2 line kilometers east of Keno City (Figure 1). Access is by the four-wheel drive road that services the small gold placer operation at Thunder Gulch.

3. CLAIM STATUS

The following list of eleven (11) claims are owned outright by Canada Tungsten Mining Corporation Ltd. and expire on November 14, 1980.

Claim Name		Grant No.
Lem	1	YA17395
	2	YA17396
	3	YA17397
	4	YA17398
	5	YA17399
	6	YA17400
	7	YA17401
	8	YA17402
	9	YA17403
	10	YA17404
	11	YA17405



CANADA TUNGSTEN MINING CORPORATION
1979 KENO HILL Y.T.
GEOLOGICAL PROGRAM

LEM CLAIMS LOCATION MAP

DATE:	FEB./27/1980	JOB NO.:	80-09
REVISED BY:		FIG. NO.:	01

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4. SURVEY AND GRID SYSTEM

Four (4) picketed baselines were roughly surveyed by compass with a picket interval of sixty meters except for a section of one hundred meter spacing on the Lem #11 claim. Crosslines were roughly surveyed perpendicular to the picketed lines. Labelled flagging was tied to vegetation every sixty meters along the crosslines to establish sites for any future survey such as soil geochemistry.

Geological mapping was carried out along the surveyed lines on claims Lem #1-10. On claim Lem #11 mapping was done twenty five meters to either side of the crosslines; two geologists were required for this phase of the mapping.

5. GEOLOGY

GENERAL GEOLOGY

Rocks of two major formations underlie the Lem #1-11 claim group (refer to Figure 6-22). In the north and west, Keno Hill (Central) Quartzite is found and in the southeast there is Upper Schist float and outcrop.

KENO HILL (CENTRAL) QUARTZITE FORMATION

Outcrops of Keno Hill Quartzite are predominantly massive beds thirty (30) centimeters to two (2) meters in thickness. Interbeds of graphitic phyllite, phyllitic quartzite and phyllite are common. They vary from two (2) centimeters to one meter in thickness and constitute less than ten percent of any given sequence of Keno Hill Quartzite Formation.

In detail, the quartzite varies in colour from white to dark gray with intermediate colours being the most common. Light to dark gray bands ranging in size from one to five millimeters are at times visible. These bands are probably original sedimentary layers.

In many quartzite samples a phyllitic foliation is present. Platy minerals causing this foliation are fine to coarse grained golden muscovite and black graphite.

UPPER SCHIST FORMATION

Both quartz-sericitic and graphitic varieties of schist are found on the Lem claims. Both types of schist are strongly foliated and crenulated; small drag folds are common.

Quartz boudins are abundant. These range in thickness from one to five centimeters with widths varying from five (5) to fifty (50) centimeters.

DETAILED GEOLOGY

It is thought that mapping of angular float directly reflects underlying bedrock geology. Where sparse outcrops are found there is a perfect correlation between the float mapped and the outcrop rock type.

Lem #1-7 claims are covered only locally by abundant quartzite float. Lem #8 has numerous outcrops of dark gray quartzite containing local 2 to 7 centimeters wide quartz "sweats"; some outcrops have interbedded phyllite. Bedding attitudes vary from 065^{o} to 105^{o} and dips measured were 16^{o} to 35^{o} south.

In the southern part of the claim group, sparse float suggests that there is a north-south contact between quartzite on the west and schist and phyllite on the east. Outcrops on Lem #10 and #11 claims to the southeast verify this change in rock type. On these claims rusty quartz-sericite schist and black graphitic phyllite crop out. Foliation attitudes measured were east-west with shallow southerly dips. Float on Lem #10 and #11 is predominantly schist and phyllite but some areas have dark gray quartzite float.

6. MINERALIZATION

Mineralization on the claim group is limited and as such only two samples were assayed. Both samples were collected from the Lem #4 claim which is in the northeast portion of the claim group.

Sample 8942, on line 60 and 270 meters NE, consists of a fragment of a 15 centimeter wide white quartz vein containing some coarse siderite which assayed

0.06 oz/ton Ag and less than 0.002 oz/ton Au.

Sample 8941, northwest of line 360 at 170 meters NE was collected from a 6 to 8 foot deep pit in medium gray quartzite. The sample consisted of quartz containing wad and minor galena. An assay of this material ran 0.20 oz/ton Ag and 0.04 oz/ton Au.

Elsewhere on the claim group quartz vein float is found only locally. Most vein fragments are 5 to 10 centimeters across, but a fragment at 60N and 160 meters E on Lem #6 measures 30 centimeters across.

7. RECOMMENDATIONS

Many of the claims (Lem #1-9) are underlain by structurally favourable quartzite, however, float mapping did not result in the delineation of any especially favourable areas for further detailed work. Therefore a Ag-Pb-Zn soil geochemical survey is recommended in an effort to outline possible metal-rich areas.

The existing roughly flagged grids could be used as control for the initial geochemical survey. Further follow-up geochemistry and cat trenching should follow if warranted.

CERTIFICATION

I, Terence M. Elliott of #309, 6001 Yew Street, in the city of Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

1. That I am a Geologist for Bema Industries Ltd., with a business address at 5780 - 203rd Street, in the City of Langley, in the Province of British Columbia.

2. That I am a graduate of the University of British Columbia (1967) and Stanford University (1973) where I obtained my B.Sc. and M.S. degrees, respectively.

3. That I have practiced my profession as a geologist for the past 12 years.

4. That the information contained in this report on the ZAP, CONE and BE M.C. is based on field work during the summer of 1979.

5. That I have no direct or indirect interest in any of the securities or claims of Canada Tungsten Mining Corporation Ltd., nor do I expect to receive or acquire any.

Dated this 14th day of February, 1980.

Terence M. Elliott

T.M. Elliott, B.Sc., M.S.

APPENDIX 1 - SURVEY PERSONNEL

The following persons performed the geological survey on the Lem #1-11 M.C. during July and August of 1979:

1. Terence M. Elliott
   #309, 6001 Yew St.
   Vancouver, B.C.
   V6M 3Y7

2. Cyrill Orssich
   #27, 2 Bertona St.
   Ottawa, Ontario
   K2G 0W2

3. Jan Slipetz
   R.R. #5
   Thunder Bay, Ontario
   P7C 5M9

APPENDIX 2 - STATEMENT OF COSTS OF ASSESSMENT WORK COMPLETED

A. FIELD EMPLOYEE SALARIES (July and August, 1979)

Name	Title	Salary Per Day	Number Of Days	Total Salary ($)
D. Esson	Senior Geologist	149.09	1.26	187.72
T. Elliott	Geologist	127.07	14.10	1791.13
C. Orssich	S. Geol. Asst.	89.07	13.19	1174.47
J. Slipetz	Geol. Assistant	74.75	3.17	236.70
Cook		112.12	1.24	138.75
Construction Crew		112.12	2.06	231.33
		SUBTOTALS	35.02	$3760.10

B. OFFICE EMPLOYEE SALARIES (April 1, 1979 to January 31, 1980)

Name	Title	Salary Per Day	Number Of Days	Total Salary ($)
R. Barclay	Supervisor	175.00	1.38	241.10
T. Elliott	Geologist	112.12	3.01	337.67
I. Johnson	Operations Mgr.	112.12	0.64	71.32
Secretarial		120.00	0.96	115.51
Expediting		112.12	0.88	98.37
		SUBTOTALS	6.87	$863.97

C. CAMP COST

$33.40/man day X 35.02 man days $1,169.67

D. VEHICLES

$26.52/man day X 35.02 man days $ 928.73

E. COMMUNICATIONS

$3.64/man day X 35.02 man days $ 127.47

F.	COMMERCIAL AIR	
	$9.51/man day X 35.02 man days	$ 333.04
G.	ASSAYING	$ 32.46
H.	GEOLOGY SUPPLIES	$ 243.03
I.	DRAFTING SERVICES & SUPPLIES	$ 45.83
J.	OFFICE SUPPLIES	$ 9.90
K.	EXPEDITING	$ 34.19
	SUB TOTAL	$2,924.32
	TOTAL EXPENDITURE	$7,548.39

The above total of $7,548.39 is applied as credit for 5 claim years of assessment work; i.e., this work will keep the Lem #1-11 claims in good standing until November 14, 1985.

LEGEND

SYMBOLS

- OUTCROP
- 090 / 45 — INCLINED BEDDING, STRIKE 090°, DIP 45°
- 090 / 45 — INCLINED FOLIATION, STRIKE 090°, DIP 45°
- APPROXIMATE GEOLOGIC CONTACT
- CLAIM BOUNDARY
- SHAFT
- PIT
- CLAIM POST
- TRENCH
- MAIN ROAD
- CAT ROAD or TRAIL

ABBREVIATIONS

LT.	LIGHT
MED.	MEDIUM
DK.	DARK
GY.	GREY
Q.	QUARTZITE
PHYLL.	PHYLLITIC
QTZ.	QUARTZ
SER.	SERICITE
O.C.	OUTCROP
VN.	VEIN
cm.	CENTIMETRE
PPM.	PARTS PER MILLION
Ag.	SILVER
Pb.	LEAD
Au.	GOLD

CANADA TUNGSTEN MINING CORPORATION
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GEOLOGICAL PROGRAM

GEOLOGY
LEM CLAIM GROUP

DATE DEC. '79	JOB NO. 79-09	FIG. NO. 6-22
DRAWN BY	SCALE 1:2,500	
REVISED BY		

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