

83 #146 - #11269
4

GEOPHYSICAL REPORT

on the

ELM CLAIM GROUP

KAMLOOPS MINING DIVISION

921/15W

Lat. 50°58'

Long. 120°52'

by

JAY D. MURPHY, P. ENG.

OWNER AND OPERATOR

1983-4-27

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,269

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INTRODUCTION

The ELM Group of eight claims, located under the 2 - Post system, is centred on the junction of Criss and McGee Creeks, 25 km almost due north of Savona on the Trans Canada Highway and 41.5 km by road. Access from Savona is via the Trans Canada Highway 9.3 km west to Deadman Creek road. This is followed north for 12.4 km, the first 5 km being hard surfaced, the balance well maintained gravel. From Deadman Creek road an active logging road branches northeast for 10.8 km to Criss Creek where a good camp site is located just north of the bridge. From here a little used logging road leads north, then southeast to the ELM claims, a distance of 9 km. The area has been partially logged, mainly on the west side of Criss Creek, but also on claim no. 7 east of the creek. The resulting network of logging trails provides good access within the claims. The area is now extensively used for cattle grazing during the snow free period.

Elevations within the claims vary from 900 to 1100 metres. Relief is generally moderate. One exception is the northwest trending ridge along the southwest side of the claim group which slopes steeply south-east to Criss Creek, a drop of over 200 metres. The area is well drained by Criss Creek, a fast flowing stream draining southwest to Deadman River, which in turn flows south to the Thompson River.

Bush is fairly open and park like, with negligible underbrush even where tree growth is thickest. Topography is subdued with relatively gentle slopes except immediately adjacent to Criss Creek where near vertical rock scarps up to 30 metres, but usually much less, are common.

Rock exposures are confined mainly to the channels and banks of Criss and McGee Creeks. Elsewhere, overburden predominates and rock exposures are restricted to ridges and road cuts.

Overburden varies from a thin mantle of detritus from the current erosion cycle to remnants of glacial outwash deposits 5 to 10m thick as seen at several locations along Criss Creek. These remnants vary from silt grade to boulders and exhibit distinct cross bedding.

Government reports indicate that mineralization on Criss Creek has stimulated exploration activity since at least as early as 1893. Initial work was done for placer gold, later, mercury and lode gold. More recently, molybdenum has been the metal of interest.

The purpose of current induced polarisation work was to determine the total width of the mineralised shear partially exposed in McGee Creek. This structure carries disseminated pyrite throughout in addition to a series of quartz veins with strong molybdenite mineralisation, and therefore should respond well to I.P. methods. It was reasoned that if the mineralised shear zone was indicated by I.P. to have a greater width than seen in outcrop, then the chances of increasing the total width of molybdenite mineralisation would be correspondingly enhanced.

Geophysical fieldwork was carried out by JP Geophysical Services, Kamloops, B.C. under the direction of Peter Slominski.

SUMMARY AND CONCLUSIONS

A definite resistivity low was established over the mineralised zone seen in McGee Creek. This low appears to increase with increased depth from approximately 20m at surface to 75m at a depth of 75m. Correspondingly high frequency effect and metal factor were also obtained but little credibility is assigned to these parameters due to unreliable readings on the I.P. effect.

RECOMMENDATIONS

A comprehensive I.P. survey covering the entire ELM group is recommended using an instrument with better depth penetration capability than the unit employed in the current survey.



JP Geophysical Services

Telephone (604) 372-7481

2462 Thompson Drive, Kamloops, B.C., V2C 4L1

April 26, 1983.

Jay Murphy
1335 Todd Road
Barberton, B.C.

Final Report on Induced Polarization Survey conducted on your
Criss Creek Property.

Equipment Used - Sabre Electronics 21 Frequency Domain Induced
Polarization Unit.

25 Meter Separation on Frequencies of 10 Hz and 1 kHz at N = 1, 2, 3.

Work performed by	P. Slominski	Party Chief
	D. Koras	Operator
	T. Knorr	Helper

Array used was Dipole - Dipole A = 25 B = 1, 2, 3

Resistivity low established at 100 + 60, on N = 1 detected from
100 + 50 - 100 + 75 on N = 2 on the depth of 50 meters and from
100 + 25 - 100 + 60 at N = 3 on 75 meters. Continues to depth with
a corresponding P.E. and metal factor.

At 100 + 60 another Resistivity low with the same effect anomaly
was established but does not go to depth.

Please note that P.E. is not conclusively accurate on N = 3
due to poor signal.

Yours truly,
P. Slominski
Peter Slominski
JP GEOPHYSICAL SERVICE

JS / hm

STATEMENT OF COSTS

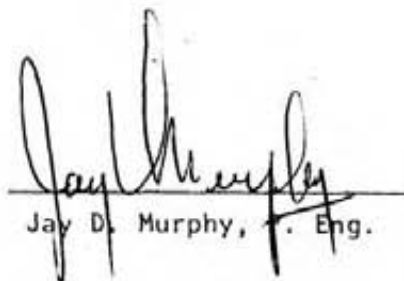
The following costs were incurred on the ELM Group of mineral claims between 1983-04-02 and 1983-04-21 by J. D. Murphy, P. Eng.

83-04-02	Reflag grid lines		
	1 day at \$150	\$150.00	
	1 day 4x4 rental at \$25	25.00	
	95 miles at \$.25	23.75	
	Total	<u>\$198.75</u>	
83-04-18	examine showing with P. Slominski same as for 83-04-02	\$198.75	
83-04-21	Reflag grid lines & orient I.P. crew, same as for 83-04-02	198.75	
	Total	<u>\$596.25</u>	\$ 596.25
I.P. survey as per Appendix 1			750.00
	TOTAL COSTS		<u>\$1346.25</u>

STATEMENT OF QUALIFICATIONS

I, Jay D. Murphy, hereby certify:

1. That I am a Consulting Geological Engineer, resident at 1335 Todd Road, Kamloops, B.C.
2. That I am a graduate from the University of Manitoba (1954) with a B. Sc. in Geological Engineering.
3. That I have practiced my profession continuously since graduation.
4. That I am a member of the Association of Professional Engineers of British Columbia and Ontario.
5. That the information contained in this report is based on a personal examination of the subject property.


Jay D. Murphy, P. Eng.





JP Geophysical Services

Telephone (604) 372-7481

2462 Thompson Drive, Kamloops, B.C., V2C 4L1

April 26, 1983.

Jay Murphy
1335 Todd Road
Barnhartvale, B.C.

Dear Sir;

Please accept this invoice for work performed on your
Criss Creek Property.

Surveyed L 99 + 00 N 8 + 00 to 11 + 50
P. Slominski, D. Moraal, Tony Knorr
Electronics Frequency Induced Polarization Unit
4 x 4 Pickup and accessories.

Survey 1 day	\$ 650.00
P. Slominski 1 day investigate property prepare report	\$ 100.00
	<hr/>
TOTAL	\$ 750.00

Yours truly,

P. Slominski
P. Slominski
J.P. Geophysical

PS / km

JP Geophysical Services

PROJECT FIELD REPORT

APPENDIX 2

CLIENT Jay Murphy AREA Criss Creek PERIOD Apr. 19 to 21 19 83
(Month)
 PROJECT No. 83 - 102 TYPE OF SURVEY I.P. Survey EQUIPMENT USED Subre Electronics 21 I.P. unit

DATE	PERSONNEL WORKING	DETAILS OF DAILY WORK	REMARKS
Monday Apr. 18 / 83	P. Slominski	Investigated Criss Creek property	Type of showing responsive to I.P.
Tuesday Apr. 19 / 83	P. Slominski J. Israel T. Knorr	TEST IP EQUIPMENT	
Wednesday Apr. 20 / 83	P. Slominski J. Israel T. Knorr	TEST EQUIPMENT over known conductor	
Thursday Apr. 21 / 83	P. Slominski J. Israel T. Knorr	Run 11. 1 99 8 + 00 - 11 + 50	
Friday			
Saturday			
Sunday			

SPECIFIC REMARKS

SIGNATURE

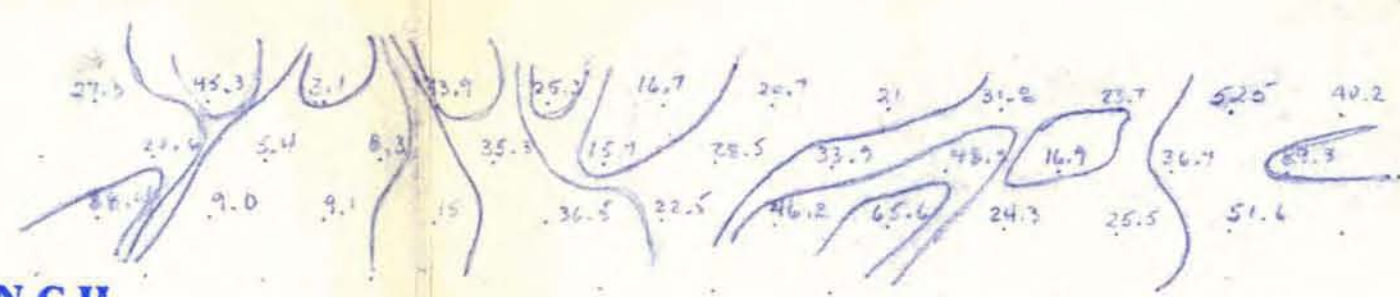


NAME

P. Slominski
PARTY CHIEF

Line 99+00-N
 102+50-E, 102+100-E, 10450-E, 101+00-E, 100+50-E, 100+00-E, 99+50-E, 99+00-E, 98+50-E, 98+00-E

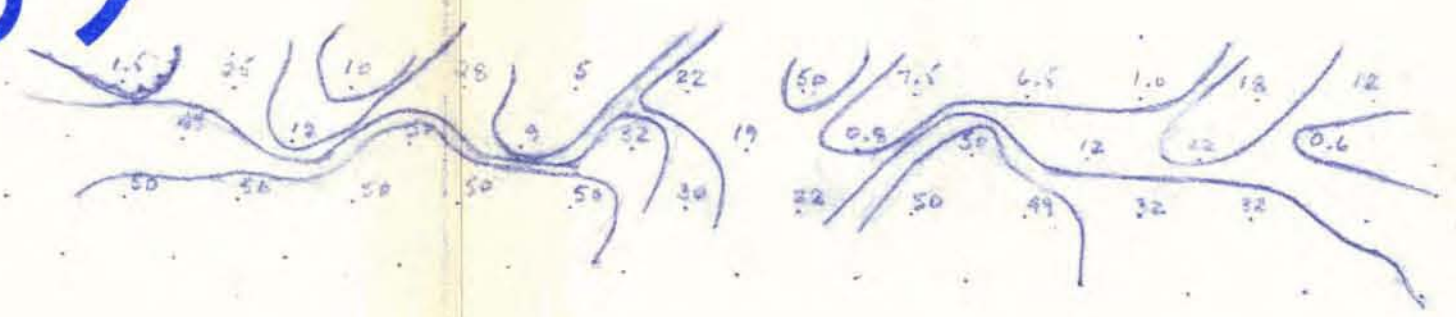
$\frac{Pa}{2M}$
 N=1
 N=2
 N=3



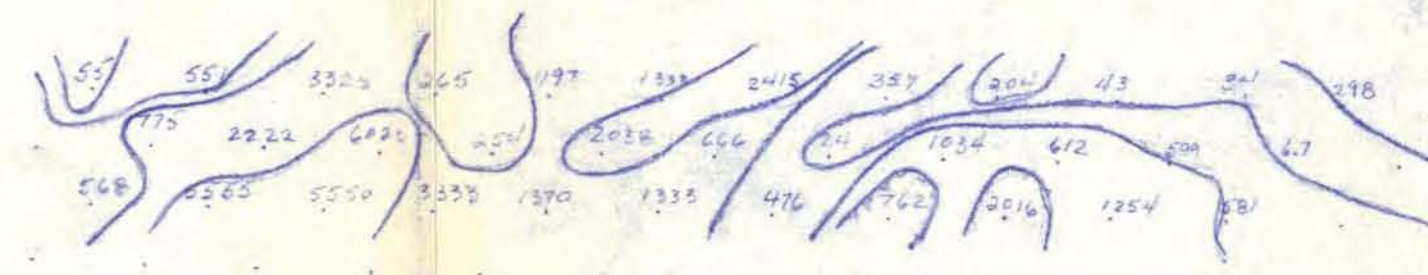
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$\frac{1}{2} F.E$
 N=1
 N=2
 N=3



M.F.
 N=1
 N=2
 N=3

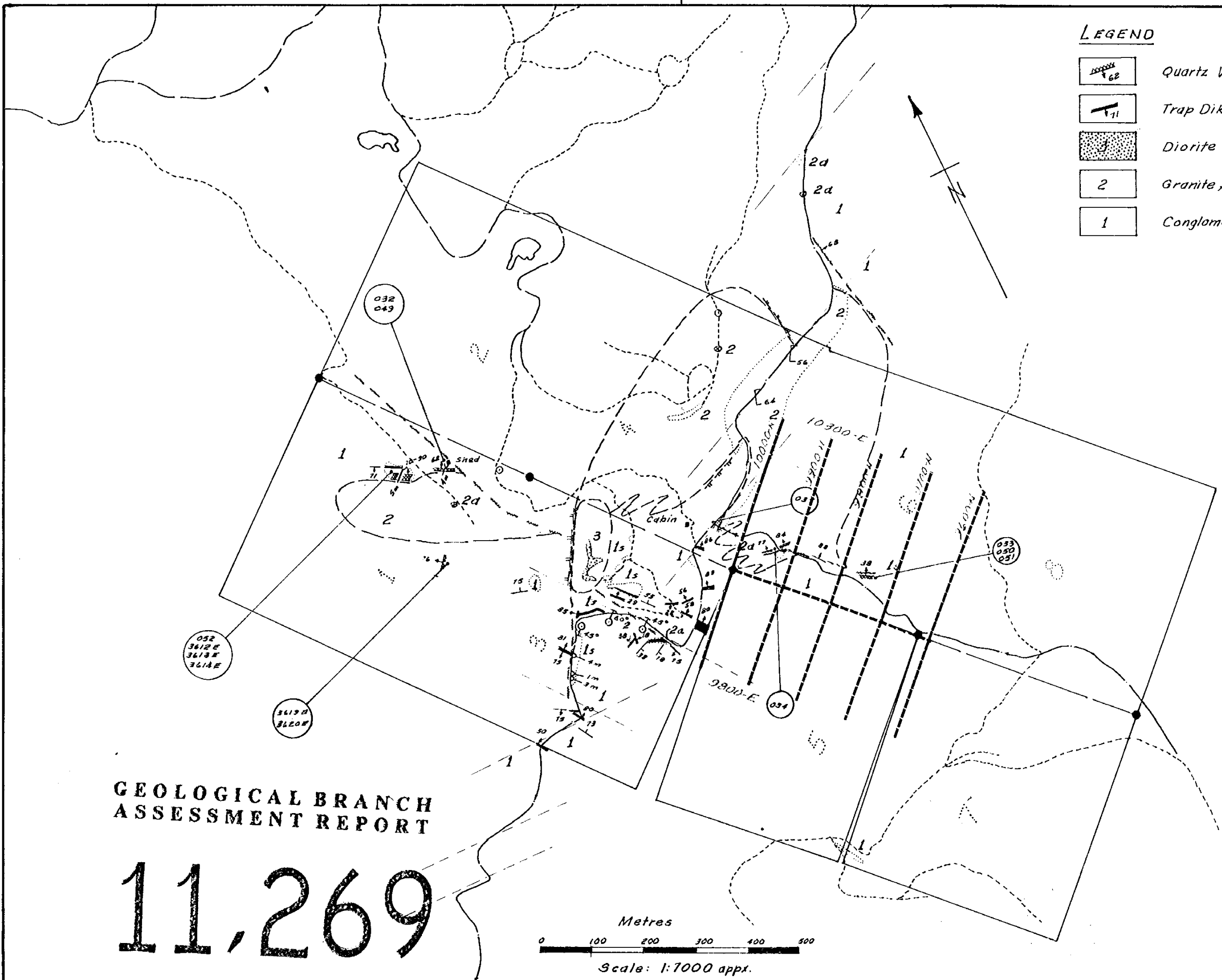


R: 25 M
 N=1
 2
 3



PLATE NO. 2

JP Geophy sheet		
I P BUDD SECTION		
APRIL 1963	P.S. Dm	6cm=100m

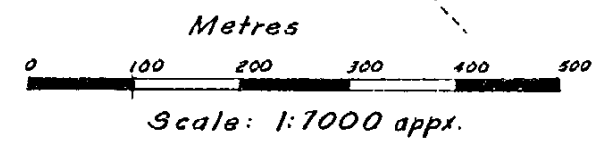
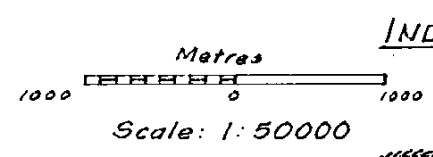
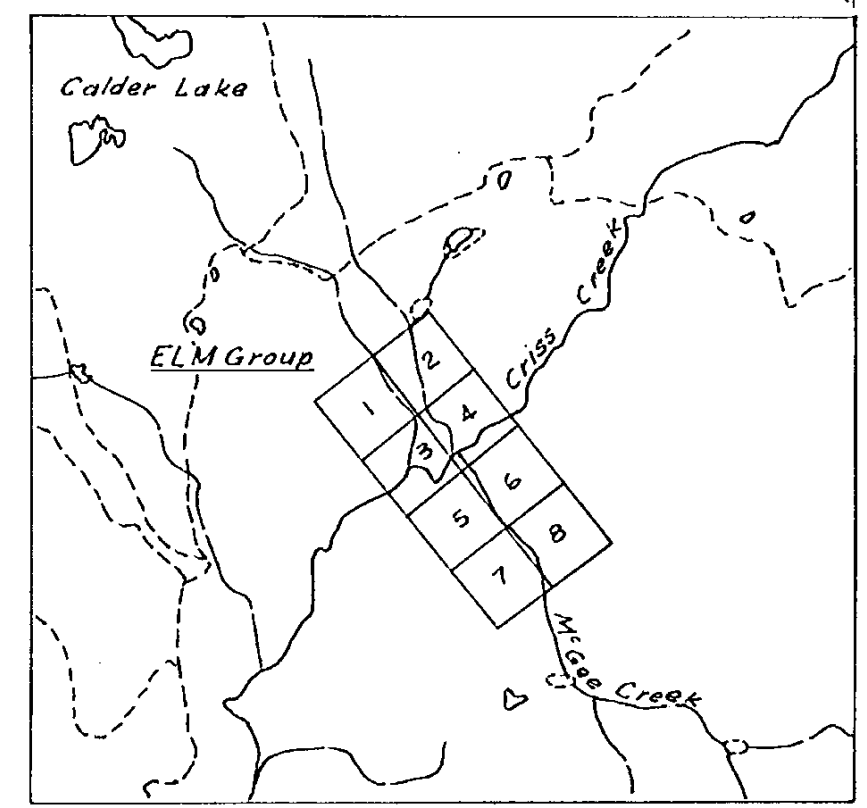
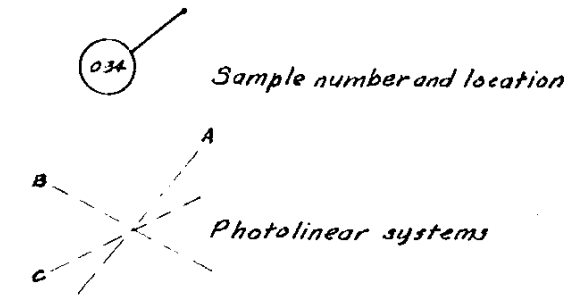


LEGEND

	Quartz Vein
	Trap Dike
	Diorite
	Granite, a- aplitic & felsitic
	Conglomerate, s- sheared

SYMBOLS

	Outcrop boundary, small outcrop
	Geological contact defined, inferred
	Bedding
	Joint
	Fault or shear defined, inferred
	Stream
	Scarp
	Road- 2 wheel drive, 4 x 4 or foot
	Diamond drill hole & inclination
	Percussion drill hole - vertical
	Adit, length indicated
	Claim post



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PLATE NO. 1

GEOLOGICAL PLAN
SHOWING GRID
ELM GROUP
92115W

J.D. Murphy 1978-8-27 Scale Noted

