

# 5049

REPORT

On

# 82G/4W

Geophysical and Geochemical Work carried out on the Midway Mine Property consisting of the following full sized mineral claims near Moyie Lake, Fort Steele Mining Division, British Columbia, called Midway Group:

Midway 1, 2, 3, 4 and 5.

Jan

Railway

Gordon

Kelly

Respective Record Numbers 16996-7, 17085, 19173-4, 17719, 19175, 18284-5.

By

James F. Winslow, B.A. Geologist  
3579 Bella Vista Street, Vancouver B.C.  
and

Ronald P. McBean, Exploration Mgr.  
370 North Ranelagh Avenue, N. Burnaby, B.C.

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 5049	MAP.....

May 18, 1974

- #1 Plan and elevation
- #2 Claim map with EM and Mag survey grid
- #3 Geochemical map

This report was made for Dorvan Mines Ltd. c/o William E. Schmidt, Barrister and Solicitor, 540 Howe Street, Vancouver, B. C. at the request of Benmac Holdings Ltd. of the same address.

Gentlemen:

This report covers initial work done on a combined geophysical and geochemical survey of a portion of the Midway Group of claims near Moyie, B. C.

Property Location and Access:

The Midway Group consists of nine claims that have been held, in part at least, by right of assessment for many years by members of the Leask family of Cranbrook, B.C. and a few of their associates. The claims are now under option to Dorvan Mines Ltd. and consist of:

Midway 1, 2	Reg. #16996/7	Expiry date 1/6/74
Midway 3	17085	25/6/74
Midway 4, 5	19173/4	14/6/74
Railway	19175	14/6/74
Jan	17719	25/11/74
Gordon	18284	10/7/74
Kelly	18285	10/7/74

The above nine claims are grouped.

The Property is alongside Highway #93, the C.P.R. railway and the Moyie River, some twenty-five miles south of Cranbrook, and is therefore readily accessible to all facilities.

Physiography:

The surface of the ground underlying the claims between elevations 3,000 ft. and 5,000 ft. is moderately steep with occasional canyons and small gulches. Overburden is generally shallow, but there are few actual rock outcrops. The flora consists of fir, jackpine and tamarack. Underbrush is sparse. Precipitation is

(2)

generally light. Snow remains in the upper areas well into May.

Geology & Mineralization:

The mineralization being sought on the surface consists of pyrite and arsenopyrite in and adjacent to an auriferous, argentiferous quartz-filled fault fissure cutting obliquely across the favourable Aldridge Quartzites of the Purcell Sedimentary series of Precambrian age; rocks in which the Sullivan Mine in B. C. and other large mines in Idaho have been found. Diabase sills occur in the sediments, and may have a bearing on the mineralization.

Purpose of the Survey:

This Survey is preliminary in nature, starting from the known location of a vein partially developed by underground work and following the approximate projection of the trace of the vein. Anomalous readings are to be checked by trenching prior to deciding to do further surveying with the particular instruments used.

Instrumentation:

The geophysical equipment consisted of (1) a McPhar 700 Fluxgate Magnetometer with a range of 200,000 gammas and a sensitivity of 5 gammas, and (2) an EM-15 designed to locate sulphide or metallic conductors under overburden not exceeding 30 feet in depth. It consists essentially of a transmitter-coil and a receiving coil in the one instrument.

Grid:

A Base Point was taken 75 feet west of the portal of the upper tunnel in the vicinity of #1 post of the Midway #3 claim and a Baseline was extended uphill to the northwest, deviating about 45 degrees from the strike direction of the flat dipping vein to adjust to the slope of the hill. Cross lines at right angles to the strike of the vein were run out to the east and west from the base line at 400 foot intervals. Stations were taken at 100 foot intervals on these cross lines. A total of 10,000 feet of line was run.

Results:(1) Magnetometer

As shown in the drawings attached to, and forming a part of this report, anomalous readings were recorded on all except Line #5. On Line 2 the only anomalous reading was found between stations 3 and 4, where a reading was taken on a narrow crushed zone east of the base line.

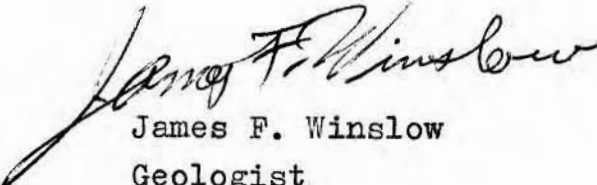
There appears to be a left lateral strike slip fault between lines 3 and 4. It was noted that a vein filling outcropping in this vicinity is oriented north 78 degrees east, dipping 70 degrees south. It was also noted that a diabase intrusive with outcrop of 30 feet had been intruded about parallel to line 3 approximately 100 feet uphill.

(2) EM Results

Generally speaking the EM results were disappointing from the standpoint of the purpose of the survey, which was to help define the surface pattern of the vein outcrop across the property, and to locate the point of intersection of the vein and Purcell Sills. It was decided in the field that a limited number of soil samples be taken on the same stations with a view to correlation of geophysical and geochemical readings. Due probably to steep grade of the area covered the overall results, as shown in the accompanying drawing, although interesting should not be considered as conclusive.

Recommendations:

In view of the inconclusive results obtained, it is not recommended that further surveys of this nature be carried out on the Midway group, unless the number of claims is considerably increased. With gold and silver at their current high values, it is the writer's opinion that if sufficient funds are available, every effort should be made to put this property back in production. This work should, of course, be carried out under the supervision of a competent mining engineer.

  
James F. Winslow  
Geologist

(4A)

APPENDIX I.

Expenses:

Instrument rentals	\$ 60.00
Batteries	8.50
Wages	
R. McBean, 4 days @ 50.00	200.00
M. Leask, 2 days @ 45.00	90.00
N. Hagglund 6 days @ 50.00	300.00
Assay costs, Gen. Testing Lab.	220.50
Ret. fares Cranbrook to Van, (3)	230.00
Vehicle rental	55.50
Motel, Cranbrook	38.50
Cafe meals	36.00
Geologist fee (Jas. Winslow)	200.00
Bus fares paid	<u>11.00</u>
Total Costs	\$1,450.00

REPORT ON GEOCHEMICAL SURVEY ON  
PART OF MIDWAY MINES, MOYIE LK.

INTRODUCTION:

This report is submitted as part of requirements for assessment work on the claims. The work was carried out between August 16, 1973 and May 18, 1974, and was recorded on May 29, 1974 together with geophysical work for a total cost of \$1,450.00

DESCRIPTION:

The property under investigation is the Midway Group of nine claims lying approximately two miles west of Moyie LK. Past work on this property includes some two thousand feet of tunnel driven on two levels. Shipments to Trail have shown high silver content, and sampling indicates possibilities of further substantial ore tonnage. The claims held in the group are:

MIDWAY 1-5 incl.	Record nos. 16996-7, 17085, 19173-4.
JAN	17719.
RAILWAY	19175.
GORDON	18284.
KELLY	18285.

Further work is planned on these claims when financing arrangements have been completed.

GEOLOGY & MINERALIZATION

Silver and gold mineralization of interest has been found associated with galena, arsenopyrite, pyrite, and small amounts of sphalerite and chalcopyrite, occurring in a quartz vein cutting the Eldridge quartzites. The vein has been explored at intervals for a short



(2A)

distance on the surface, and by two tunnels some seventy feet apart in elevation. Both drifts are caved at less than half their length from the portals. As surface cuts are all caved it was decided to trace the vein to the far boundary of the claims, if possible. As there were few rock outcrops, and the vein was nowhere exposed on surface it was decided this should be done by geophysical methods. Accordingly, magnetometer and EM-15 were employed. Initially it was intended to run only geophysical surveys, but as EM-15 did not appear to give adequate results, probably because it lacked the necessary depth of penetration, it was decided to take soil samples to compare with results the geophysical survey.

SOIL SAMPLE PROCEDURE:

Samples were taken from "B" horizon by spade and shipped to General Testing Laboratories, Vancouver, for Silver, Lead and Arsenic determination. It was noted from past reports on the underground sampling that the silver content appeared to correlate with the lead content, and gold with the arsenic, and for that reason the arsenic determinations were made.

The baseline for the grid was tied into the initial post of the Jan and Midway #3 claims near the upper adit. This baseline was run N. 70° W. (magnetic). Six crosslines were cut at 400 foot intervals and extended on both sides of the baseline a distance considered sufficient to straddle the vein at the bedrock surface. Stations were made at 100 foot intervals. Samples taken by spade were placed in moisture-proof paper sample bags. Samples were dried and screened at the lab. and treated as described in the assayer's report attached.



RESULTS:

The exceedingly high assay results at two stations supported by flanking highs are considered significant, and should be tested by detailed sampling and either bulldozing or drilling to determine the cause of these high readings. They appear to parallel the strike of the vein, and that of a magnetic low, (see geophysical report). The latter, however, appears to be faulted to the S W of the baseline on line #4, but swings back onto line of geochemical highs on lines 5 and 6.

With this in mind, there would appear to be sufficient correlation with the magnetic low on the N E of the baseline to warrant further investigation. There is no corresponding correlation with EM results, which consequently are not considered dependable. If any further EM surveys are to be done, an instrument capable of deeper penetration will be used.

It is concluded that the magnetometer and soil sampling results are sufficiently indicative to warrant further similar tests on the balance of the property while the main progress is concentrated on the vertical development of the known vein as traced underground to date. (see map of u/g workings).



Ronald P. McBean, Exploration Mgr.

QUALIFICATIONS

I, James F. Winslow, of 3579 Bella Vista Street, Vancouver, British Columbia, hereby certify that:-

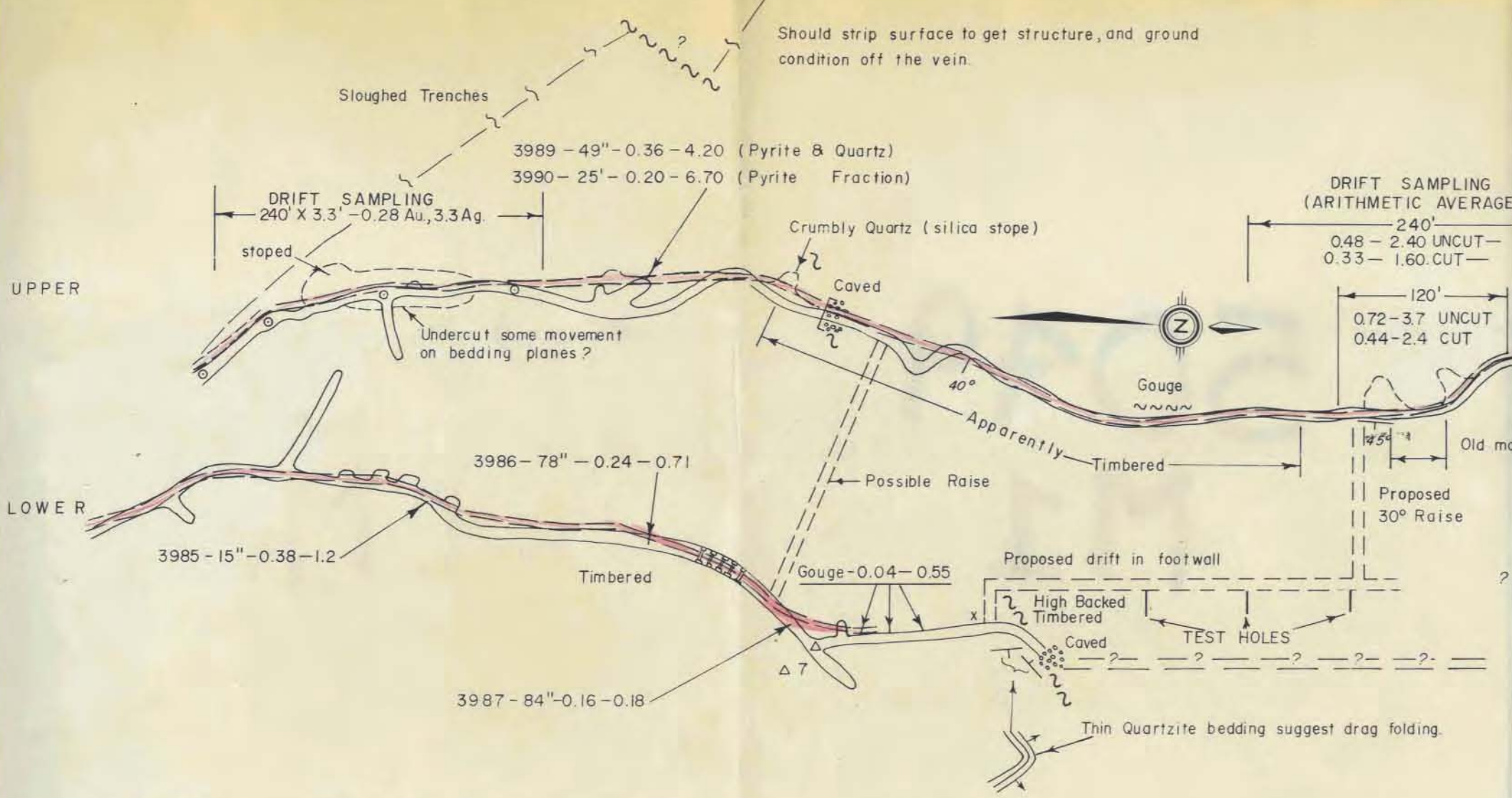
1. I am a graduate of the University of Montana B A in Geology 1971.
2. I have no direct or indirect <sup>interest</sup> in the Midway property nor in any securities of Dorvan Mines Ltd., the Company now actively engaged in exploring this property.
3. During parts of 1971 and 1972 I was employed on a consulting basis by Geo-Associates, and have since been self employed on claims staked by myself in British Columbia.
4. Information contained in the accompanying report is based on data obtained by me personally on the Midway Property during the period May 14 - 15, 1974, research from government maps and records of the Midway property.

*James F. Winslow*  
James F. Winslow, Geologist

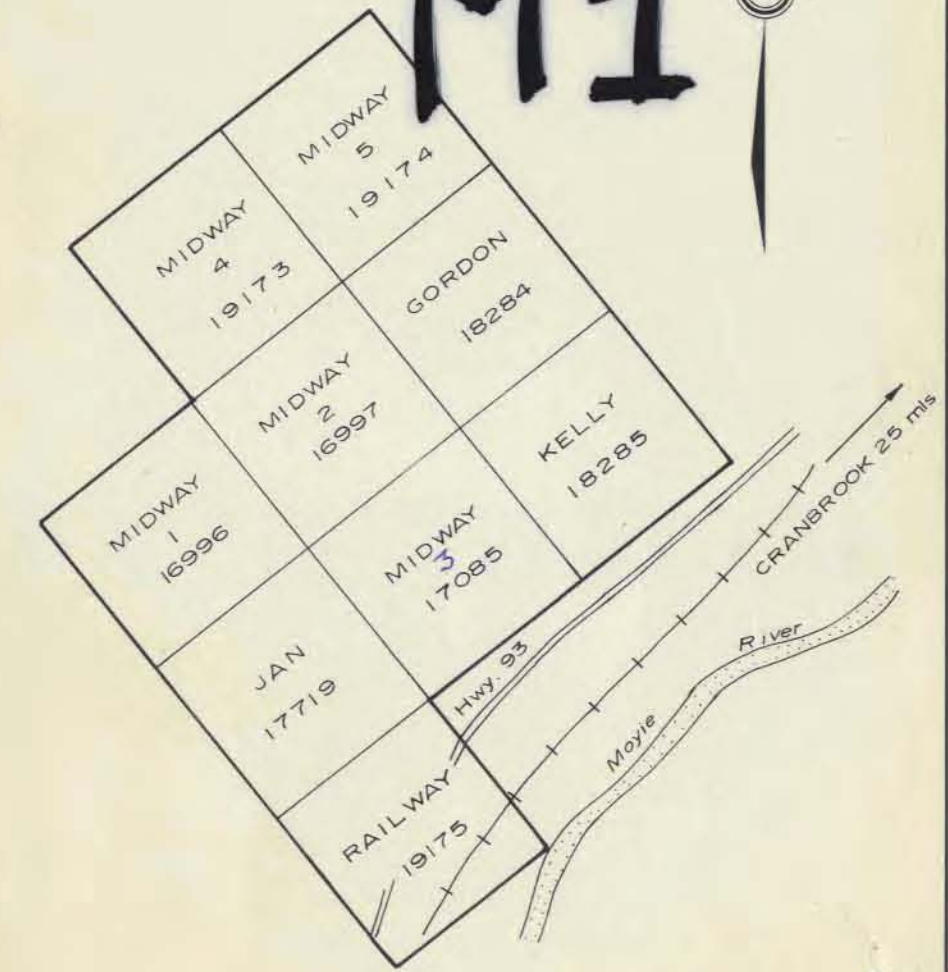
To accompany Report on the Midway property, Fort Steele Lining Division, British Columbia.



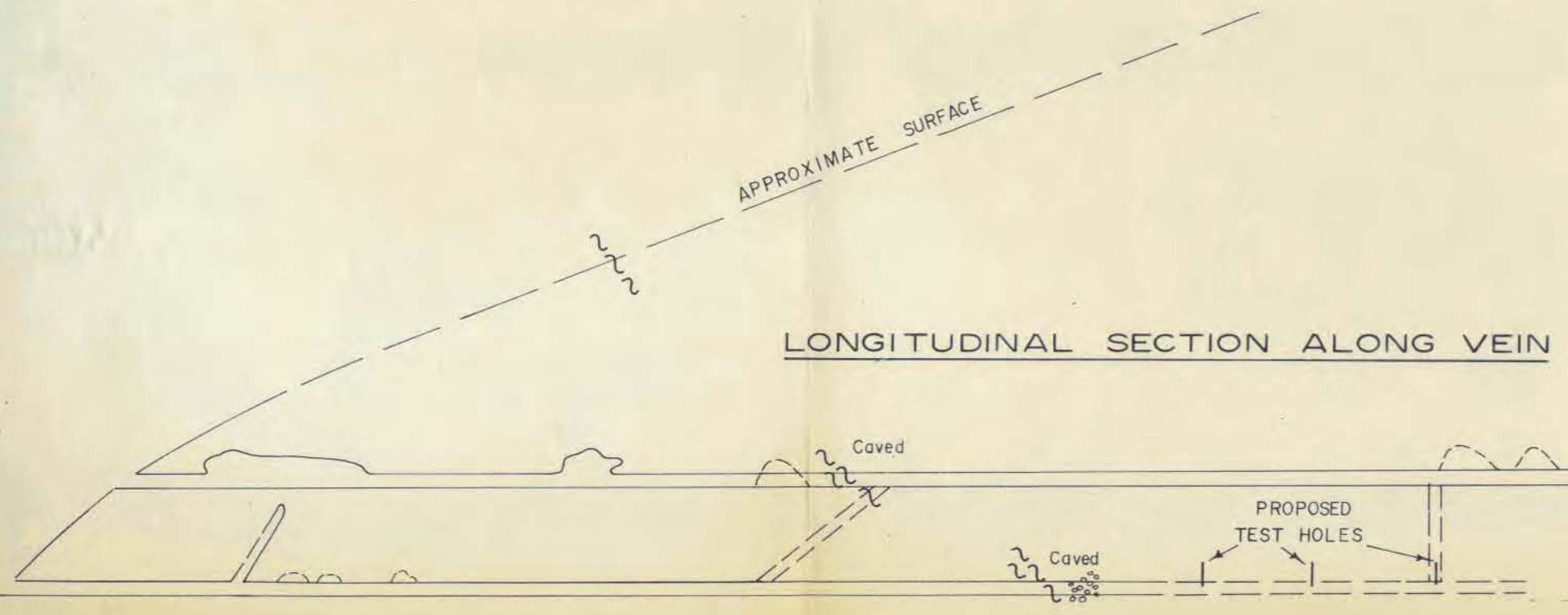
PLAN



5049  
 M1

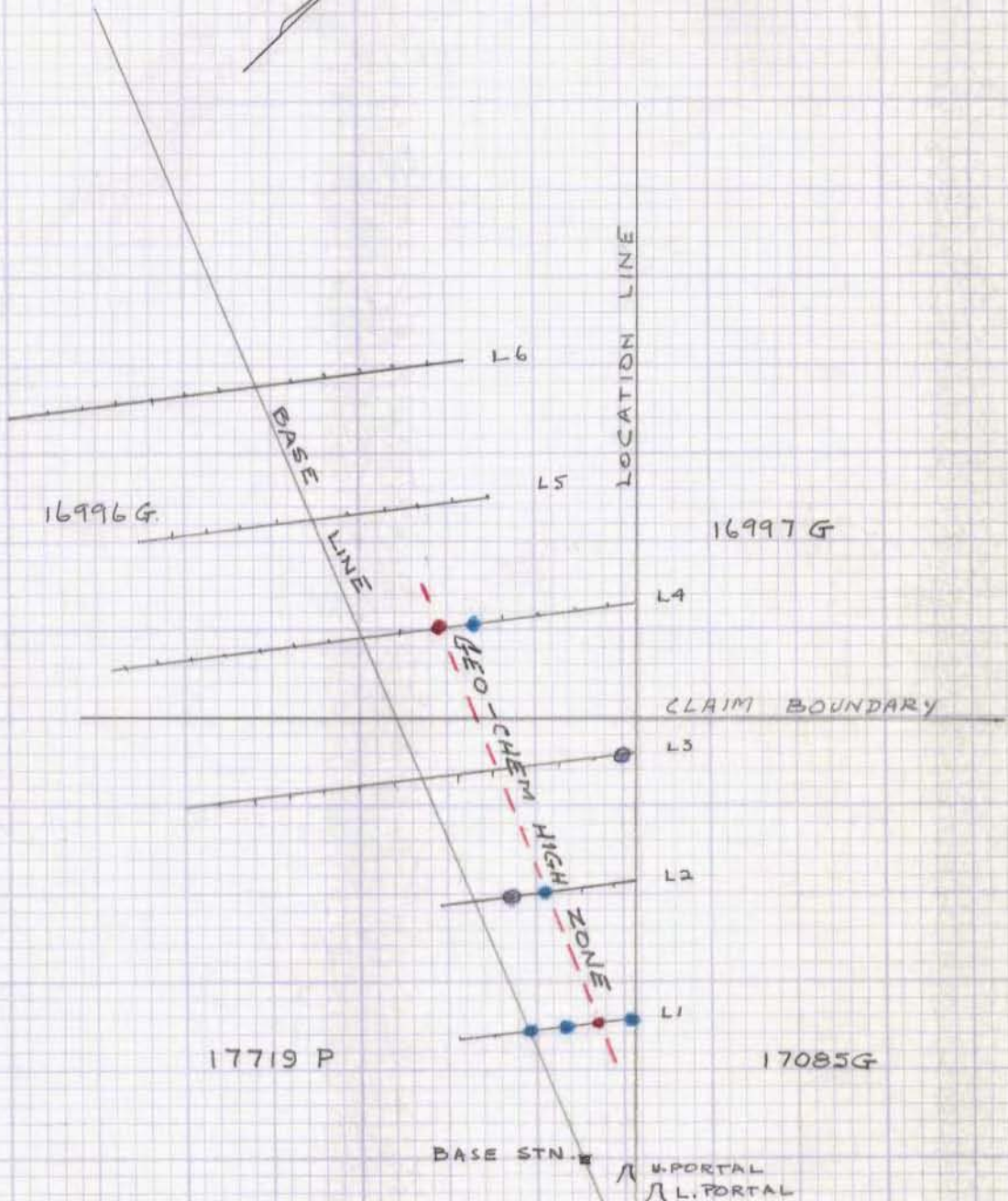
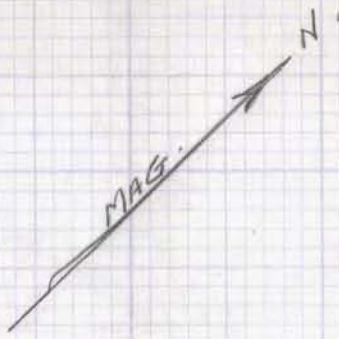


SEQUENCE OF FIGURES: - SAMPLE NO., WIDTH (if available), oz Au., oz Ag



DORVAN MINES LTD.  
 MIDWAY MINE, MOYLE, B.C.  
 PLAN & ELEVATION





ARSENIC (GOLD)  
PPM  
● 3500+  
● 20-125  
● 10-20

Department of  
Mines and Metallurgical Resources

ASSESSMENT REPORT

NO. **5049** MAP # **3**

# EM AND MAG PLOT OF LINE ONE

EM PLOT  
BLUE RED  
33-0-23

MAG PLOT  
3K20  
3K10  
3K0  
-3K10  
-3K20

BASE LINE

FEET





# EM and MAG PLOT OF LINE TWO

EM  
LINE 2  
Blue  
Red

3K 20  
MAG  
LINE 2

3K 10

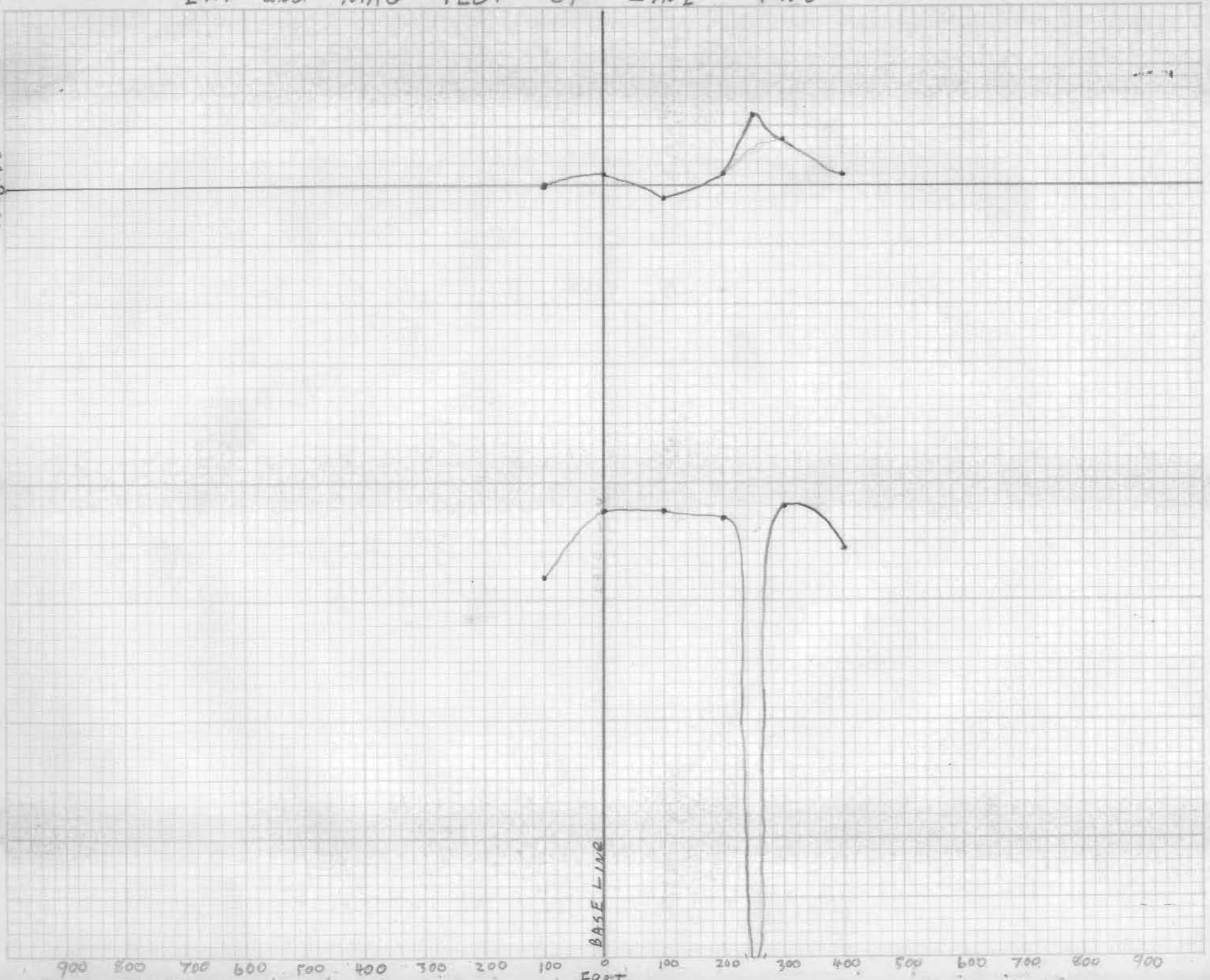
3K 0

-3K 10

-3K 20

BASE LINE

FEET



# EM and MAG PLOT of LINE THREE

EM PLOT

W 0 - 0 - 2 2 4

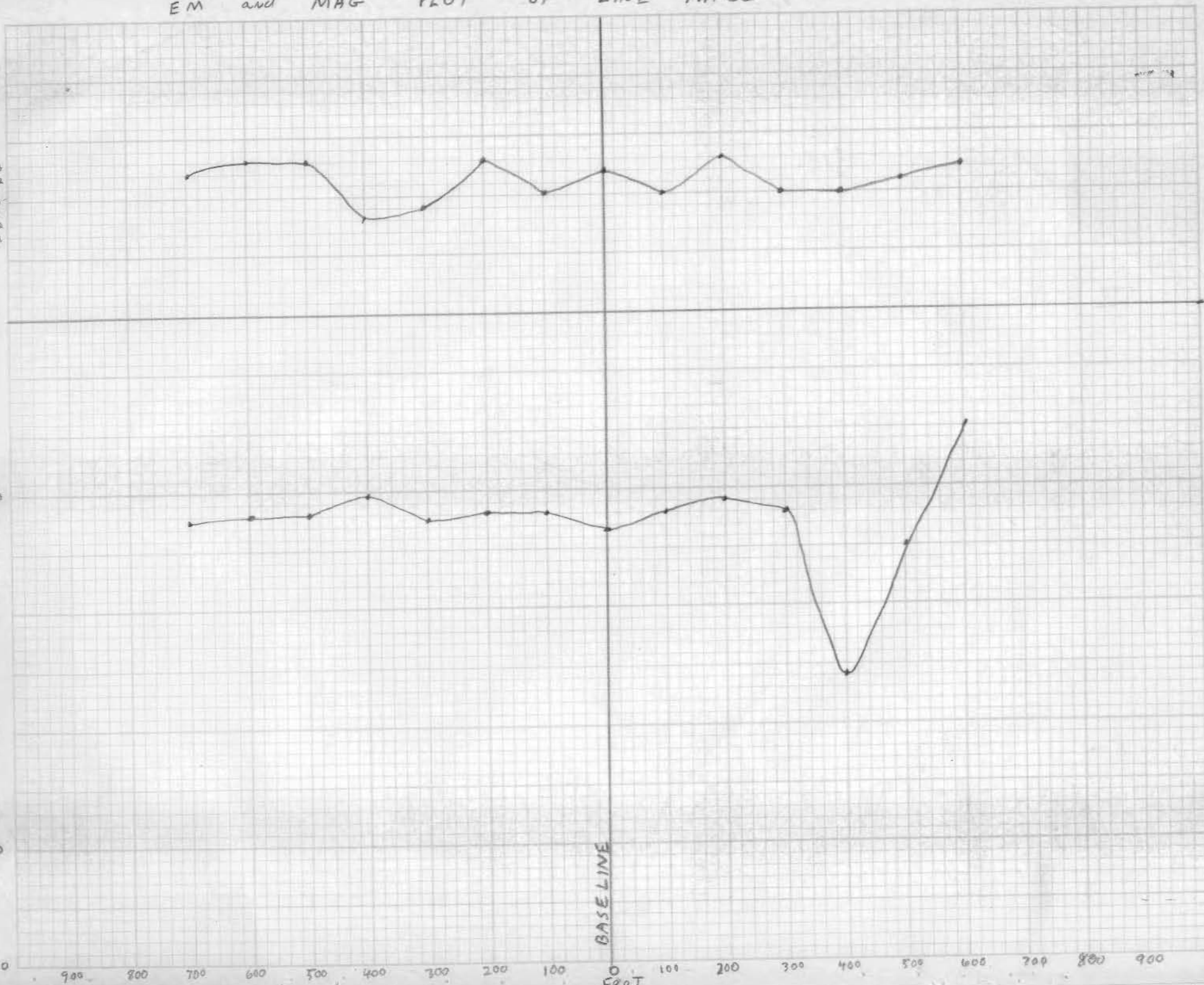
MAG PLOT

3K 20  
3K 10  
3K 0  
-3K 10  
-3K 20

BASELINE

Feet

900 800 700 600 500 400 300 200 100 0 100 200 300 400 500 600 700 800 900

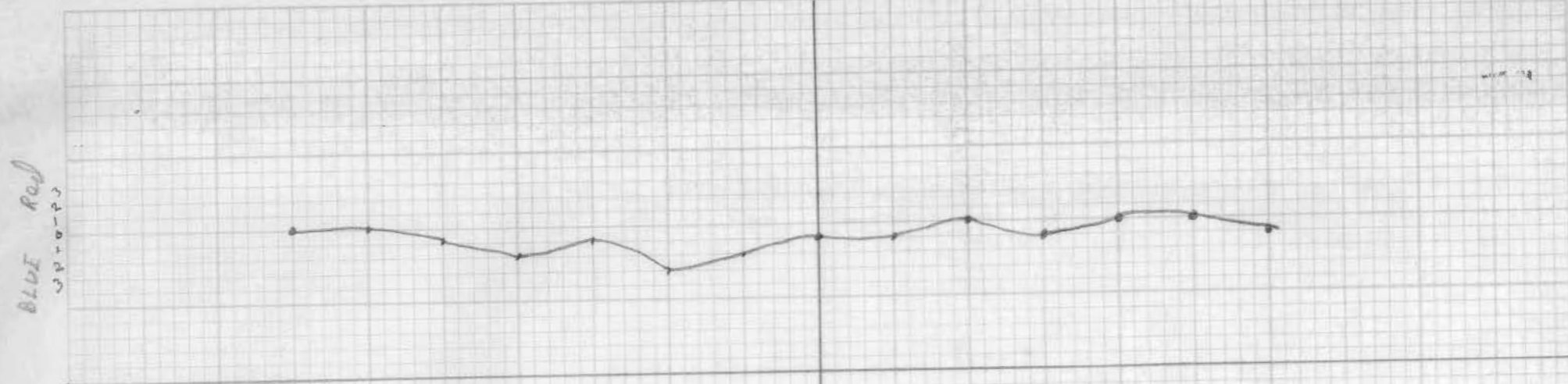




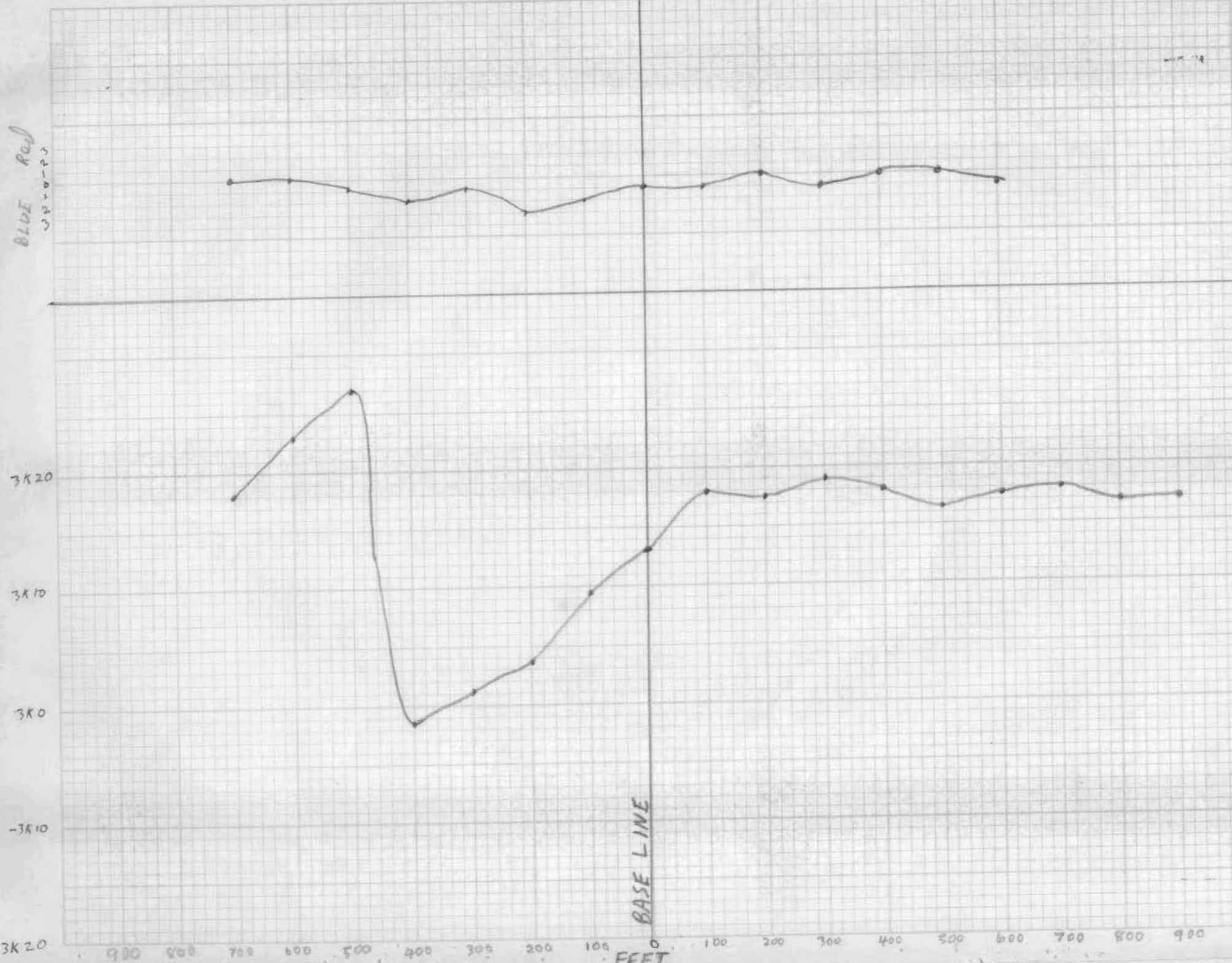
# EM AND MAG PLOT OF LINE FOUR

EM PLOT

BLUE ROAD  
32+0-23



MAG PLOT



-3K20

900 800 700 600 500 400 300 200 100 0 100 200 300 400 500 600 700 800 900

BASE LINE  
FEET

# EM AND MAG PLOT OF LINE FIVE

EM PLOT  
BLUE RED  
WAVELENGTH

3K20

3K10

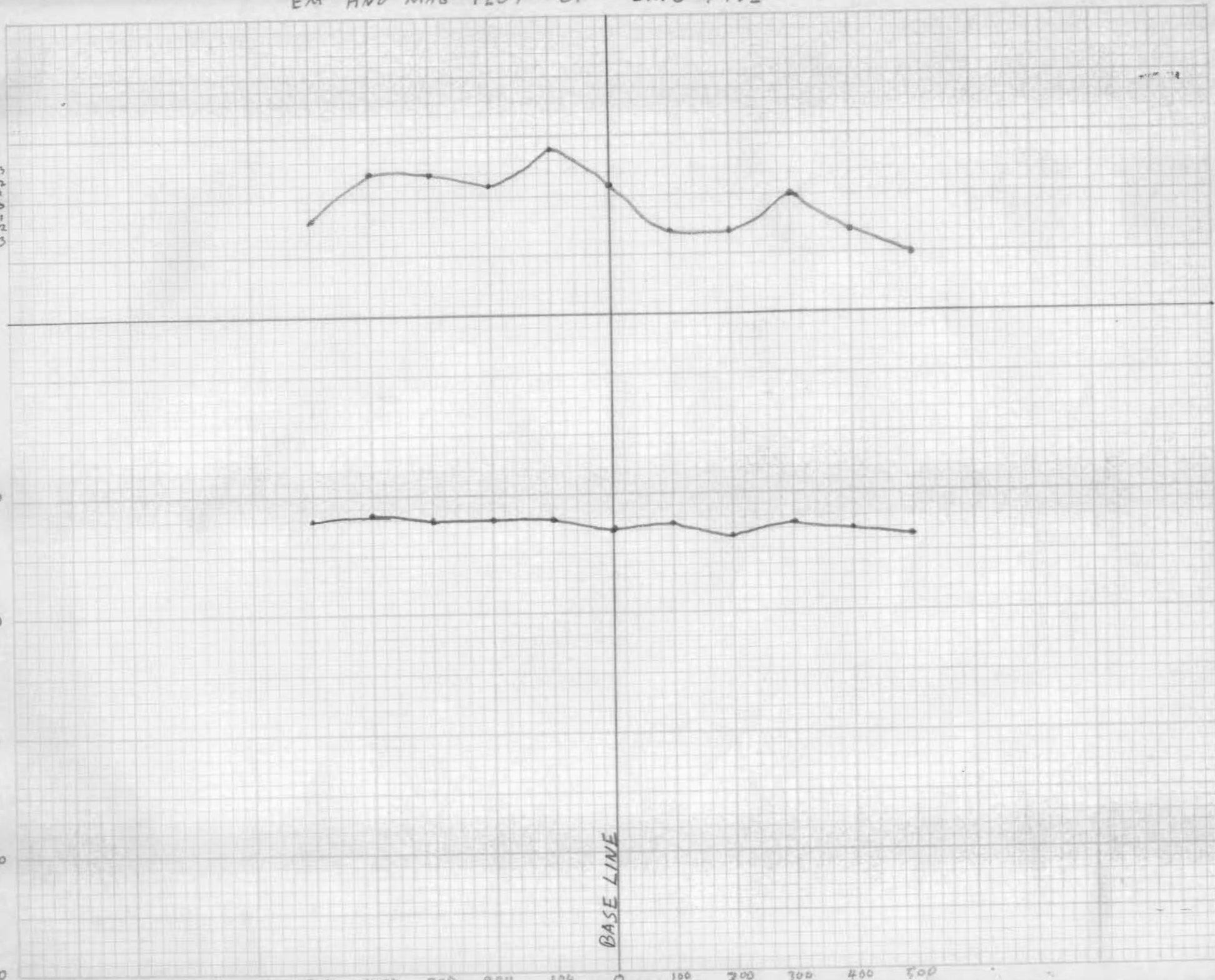
MAG PLOT  
3K0

-3K10

-3K20

BASE LINE

FEET



# EM AND MAG PLOT OF LINE SIX

EM PLOT

BLUE RED  
↑ ↓

3K20

3K10

3K0

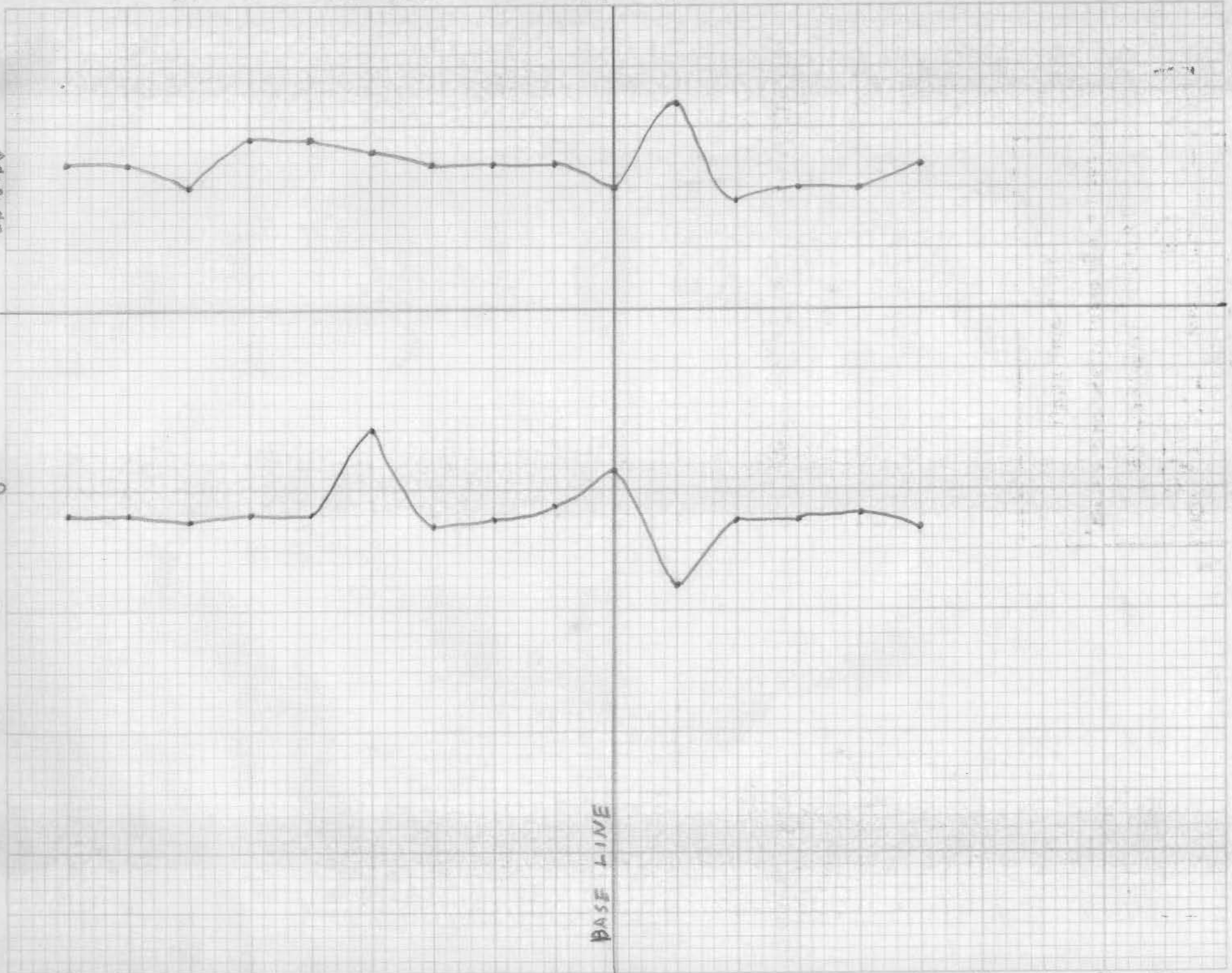
-3K10

-3K20

BASE LINE

FEET

900 800 700 600 500 400 300 200 100 100 200 300 400 500 600 700 800 900

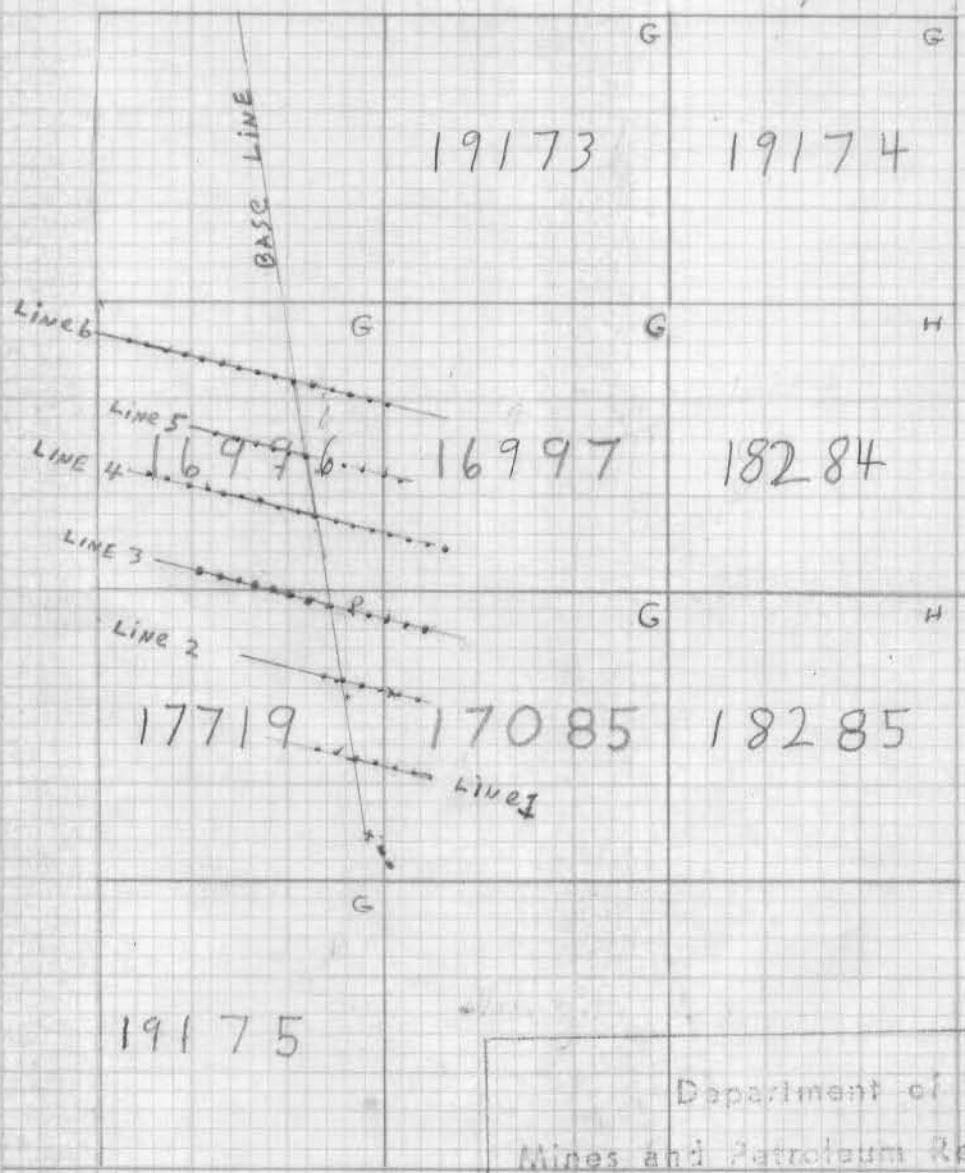




MIDWAY MINE

MAY, 16 1974

CLAIM MAP WITH EM AND MAG.  
SURVEY GRID



Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. **5049** MAP # **2**



# GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2  
 PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

TO:  
**DORVAN MINES LTD.**  
**#707 - 543 Granville St.**  
**Vancouver, B.C.**  
**V6C 1X8**

## CERTIFICATE OF ASSAY

No.: **7406-0751**      DATE: **June 18th/74**

We hereby certify that the following are the results of assays on: **GEOCHEM SOIL SAMPLES**

MARKED	<del>XXXXXX</del>	SILVER	LEAD	ARSENIC				
	OZ/ST GR/MT	<del>XXXXXX</del> <del>XXXXXX</del>	(Pb)PPM	(As)PPM	<del>XXXXXXXXXXXXXXXXXXXX</del>	<del>XXXXXXXXXXXXXXXXXXXX</del>	<del>XXXXXXXXXXXXXXXXXXXX</del>	<del>XXXXXXXXXXXXXXXXXXXX</del>
		(Ag)PPM						
BL 01		0.8	58	25.0				
BL 2		0.6	30	N.D.				
BL 3		0.6	31	N.D.				
BL 04 + 60		0.8	32	N.D.				
BL 05		1.0	40	N.D.				
01 L1		0.9	54	5.0				
01 L2		0.6	33	N.D.				
02 L1		0.5	44	3.5				
03 L1		0.7	33	N.D.				
03 L2		0.6	29	N.D.				
03 L3		0.7	40	N.D.				
03 L5		1.3	131	N.D.				
03 L6		0.8	73	6.5				
03 L7		1.2	60	9.0				
03 L4		0.8	48	5.0				
05 L1		0.9	36	2.0				
05 L2		1.0	34	3.5				
05 L3		0.9	40	2.0				
04-60 L1		0.6	30	3.5				
04-60 L2		0.9	29	3.5				
04-60 L3		0.5	31	5.0				
04-60 L4		0.4	26	2.0				
04-60 L5		0.5	33	3.5				
04-60 L6		0.7	29	5.0				
04-60 L7		0.7	29	6.5				
01 R1		0.4	33	22.5				
01 R2		0.9	44	**5000				
01 R3		0.5	44	122.5				
02 R1		0.6	45	10.0				
02 R2		0.9	33	100.0				
02 R3		0.3	33	6.5				
02 R4		0.8	28	2.0				
03 R1		2.5	33	3.5				
03 R2		0.5	30	3.5				
03 R3		0.5	29	6.5				

Cont'd...

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.  
 BG/pm  
 ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSION OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED.

*B. Given*  
**B. Given** PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists' Society • Canadian Testing Association  
 REFEREE AND OR OFFICIAL CHEMISTS FOR: Vancouver Merchants Exchange • National Institute Of Oilseed Products • The American Oil Chemists' Society  
 OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade • Vancouver Merchants Exchange



# GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2  
 PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

TO:  
**DORVAN MINES LTD.**  
**#707 - 543 Granville St.**  
**Vancouver, B.C.**  
**V6C 1XB**

## CERTIFICATE OF ASSAY

No.: **7406-0751** DATE: **June 17th/74**

We hereby certify that the following are the results of assays on: **GEOCHEM SOIL SAMPLES** Page 2

MARKED	<del>XXXXX</del>	SILVER	LEAD	ARSENIC				
	OZ/ST GR/MT	<del>XXXXX</del> <del>XXXXX</del>	(Pb) %PPM	(As) PPM	<del>XXXXXXXXXXXXXXXXXXXX</del>	<del>XXXXXXXXXXXXXXXXXXXX</del>	<del>XXXXXXXXXXXXXXXXXXXX</del>	<del>XXXXXXXXXXXXXXXXXXXX</del>
		(Ag) PPM						
03 R4		0.5	29	5.0				
03 R5		1.0	33	6.5				
03 R6		0.7	34	12.5				
05 R1		1.0	30	N.D.				
05 R2		0.8	38	3.5				
04+60 R1		0.8	61	3.5				
04+60 R2		0.9	46	3500				
04+60 R3		0.7	44	48				
04+60 R4		0.8	28	2				
04+60 R5		0.6	31	3.5				
04+60 R6		0.8	35	N.D.				
04+60 R7		0.8	56	6.5				
04+60 R8		0.8	38	9				
04+60 R9		0.6	29	N.D.				

\*\* Greater Than 5,000 PPM

N.D. = NOT DETECTED

PROCEDURE: Decomposition with HOT HNO<sub>3</sub> + HClO<sub>4</sub> - A.A. for Ag, Pb

BG/pm

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSION OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED.

*B. Given*  
**B. Given - Industrial Chemist** PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

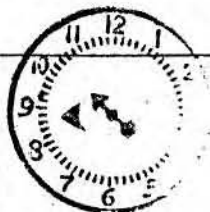
MEMBER American Society For Testing Materials • The American Oil Chemists' Society • Canadian Testing Association  
 REFEREE AND/OR OFFICIAL CHEMISTS FOR Vancouver Merchants Exchange • National Institute Of Oilseed Products • The American Oil Chemists' Society  
 OFFICIAL WEIGHMASTERS FOR Vancouver Board Of Trade • Vancouver Merchants Exchange



YUKONADIAN MINERAL  
EXPLORATIONS LIMITED  
ROOM 707 - 543 GRANVILLE ST.,  
VANCOUVER, B.C. V6C 1X8

OCT 7 '74 AM

TELEPHONE (604) 684-6722



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
No. **5049** MAP

DEPT. OF  
AND PETROLEUM

October 1, 1974

Mr. E. J. Bowles,  
Chief Geologist Commissioner,  
Victoria, B.C.

Your file no. 116-Ft. Steele

Dear Mr. Bowles:

10653

Re: MIDWAY, JAN, RAILWAY, GORDON,  
KELLY Mineral Claims.  
Geochemical-Geophysical Report

This will acknowledge your letter of enquiry on the method of operation of the EM-15 instrument and numbers on the EM and Mag. plots contained in the above report.

- (1) At the start of the survey the output indicator on the EM-15 instrument was set at zero in a non-magnetic area by use of the zero adjuster. Keeping the instrument horizontal, readings were then taken at stations as indicated, the distance from ground to instrument being kept constant.
- (2) Numbers shown on the EM plots represent units of conductivity (red scale) shown above the EM 0 line, and magnetic permeability (blue scale) shown below the EM 0 line on the EM plots. These do not relate to PPM as with certain other instruments. The numbers on the Mag. plots represent the relative magnetic susceptibility shown on the indicator at any particular station. The range used is governed by the switch position which shows in the left hand margin of the plot sheet. The 3-K range was used throughout the entire survey.

I trust the above is the information you require. Please contact the writer if further data are needed.

Yours very truly,

Ron McBean



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

707 543 Granville St.,  
Vancouver, B. C.  
January 15, 1975

No. 5049 MAP.....

Mr. E.J. Bowles,  
Chief Gold Commissioner,  
Victoria, B. C.

Dear Sir:

Re: The M700 McPhar Magnetometer

This will acknowledge your letter dated Jan.13/75. The full scale measurement capability of the above instrument is  $\pm 100,000$  gammas. The range selected during the Midway survey was "3K." (K being a constant of 1000) which allows a full scale reading of 3000 gammas.

Each division on the scale represents 50 gammas, (red scale) 3K. The recorded value of -20 to + 27 would be equivalent to - 1000 gammas low to + 1350 gammas high

I trust this information will serve to clarify the matter, and that receipt of certificates of work may now be expected.

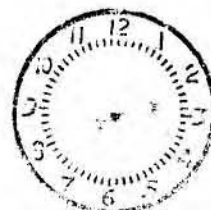
Yours very truly,

893

*Ron McBean*  
Ron McBean

cc. Mining Recorder, Granbrook, B.C.

JAN 20 '75 PM



DEPT. OF MINES  
AND PETROLEUM RESOURCES

DECLARED TO	DATE	INITIAL
D.M.		
ADM (S)		
ADM (S)	/	
FILE NO.		
FILED CLERK		



**YUKONADIAN MINERAL  
EXPLORATIONS LIMITED**

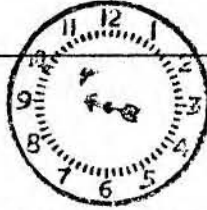
ROOM 707 - 543 GRANVILLE ST.,  
VANCOUVER, B.C. V6C 1X8  
Department of

NOV 1 '74 AM

TELEPHONE (604) 684-6722

Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 5049 MAP



DEPT. OF MINES October 30, 1974  
AND PETROLEUM RESOURCES

REFERRED TO	DATE	INITIAL
D.M.		
ADM (M)		
ADM (P)		
C.G.C.	✓	
C.P.R.		
D.C.S.C.		
ACPR		
G.C.		
ACCTS.		
GEOL.		
INSP.		
M. REV.		
E.C. & P.		
FILE NO.		
FILING CLERK		

Chief Gold Commissioner,  
Victoria B. C.

11638

Dear Sir:

Re: MIDWAY GROUP, CRANBROOK, B.C.

Enclosed please find the letter of explanation of the operation, and calibration of the EM15 Unit.

As has been pointed out previously, this EM15 unit was used only as a complementary instrument, and the readings appear to show that it has served its purpose in that capacity. James A. Mitchell, however, is of the opinion that the limited depth to which the Unit is effective (30 feet) could be insufficient for certain areas of the claims. This matter was discussed between Mr. Mitchell and James Winslow, the geologist in charge of the survey, and they apparently decided that if further geophysical work was to be done on adjoining claims that another instrument should be substituted for the EM15. My own opinion is that the depth of overburden increases considerably to the south of this survey, and that the EM15 would not give maximum results.

However, the readings obtained in the survey submitted were considered significant by both Mr. Winslow and Mr. Mitchell, and were therefore incorporated in the report. The actual additional cost of using the EM15 unit was small in comparison to other work done on the property at the time, including a complete geological report on the claims by James A. Mitchell, P.Eng., sampling and mapping for Dorvan Mines Ltd.

Neither Mr. Mitchell or Mr. Winslow can be contacted at the moment, but I have no reason to question their competence. Mr. Mitchell's 20 page report is on file, and is dated May, 1974, and is available, if needed.

Yours very truly,

*Ron McBean*  
Ron McBean

encl.



YUKONADIAN MINERAL  
EXPLORATIONS LIMITED  
ROOM 707 - 543 GRANVILLE ST.,  
VANCOUVER, B.C. V6C 1X8

TELEPHONE (604) 684-6722

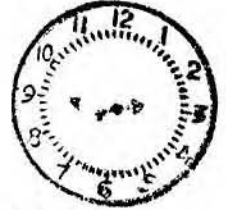
Department of  
Mines and Petroleum Resources

ASSESSMENT REPORT

October 16, 1974

OCT 21 '74 AM

NO. 5049 MAP \_\_\_\_\_



DEPT. OF MINES  
AND PETROLEUM RESOURCES

Mr. E.J. Bowles,  
Chief Gold Commissioner,  
Dept. of Mines and Petroleum Resources,  
Victoria, B. C.

111111

Dear Sir:

Re: Midway. Jan, Railway, Gordon,  
and Kelly Mineral Claims  
Geochemical-Geophysical Report.

Thank you for your letter of October 9 requesting further explanation of the method used in EM and Mag. work on the above mentioned claims.

In reply to (a)

K = 1,000 Gammas. (Relative)  
As is noted on the Mag. plot sheets, all readings were taken using the 3K range; that is to say - between zero and 3,000 gammas. All readings should therefore be multiplied by 1,000 to accentuate variation.

In reply to (b)

See enclosed description sheets.  
The EM-15 has, to my personal knowledge, been widely used by Hudson Bay Exploration and Development Co. Ltd. as it was in this case, as a complementary geophysical tool.

In reply to (c)

The term "magnetic susceptibility" used in paragraph (2) of my letter of Oct. 1 to you is in no way compared to electrical conductivity as your letter would imply. Geonics Limited clearly state, however, that the pointer movement indicates the effect of target conductivity (red scale) or magnetic permeability (blue scale) as pointed out in my letter of Oct. 1. I have written to Geonics Ltd. for the name of the specific unit indicated, and will forward you a copy of their reply.

Yours very truly,

cc: Mining Recorder, Cranbrook  
Dorvan Mines Ltd., c/o W.E. Schmidt  
Vancouver, B.C. Ron McBean