

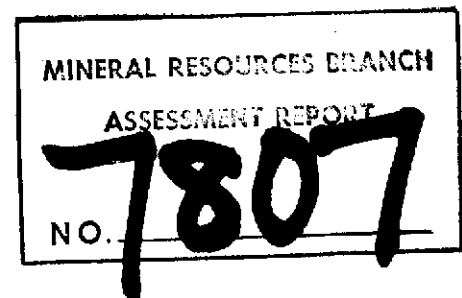


PLACER DEVELOPMENT LIMITED

ADANAC

PLANT AND TAILING SITE GEOPHYSICS

V-164  
104N-11



R.W. CANNON

October 23, 1979

## TABLE OF CONTENTS

	<u>Page</u>
Summary and Conclusions	1
Introduction	1
Location and Access	1
Property	1
Previous Work	1
Present Work	2
Equipment Used	2
Presentation of Results	2
Discussion of Results	3
Conclusions and Recommendations	5

<u>List of Figures (In Pockets)</u>	<u>Figure</u>
Location Map	1, 1A
Claim Map	2
Plant Site Seismic Plan	3
Tailing and Water Dam Seismic Plan	4
VLF EM-16 Survey Profiles	5
VLF EM-16 Survey (Fraser Filtered)	6
Magnetometer Survey	7

### Appendices

- Appendix 1 - Smoothed Position of Layers Beneath Shotpoints and Geophones (Seismic).
- Appendix 2 - Seismic Profiles.

ADANAC SEISMIC SURVEY COSTS

Salaries applicable during period June 24 to August 9, 1979:

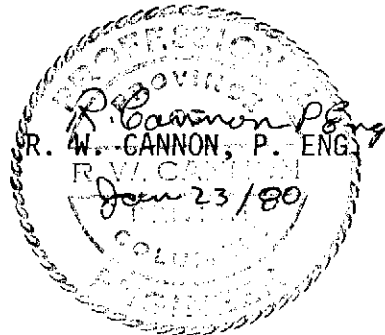
R. W. Cannon	20 days x \$100/day	\$	2,000.00
S. J. Tennant	10 days x \$130/day	\$	1,300.00
G. Pentland	10 days x \$ 50/day	\$	500.00
	<u>40 man days</u>		

Camp Operation

Room and board	40 x \$30.00/man day	\$	1,200.00
Equipment Rental	2 months x \$2922.00	\$	5,844.00
Graph Paper	10 rolls x \$16.00 each	\$	160.00
Transportation 4 x 4 truck	20 x \$30/day	\$	600.00
Administration, supervision, compensation	40 x \$30/man day	\$	1,200.00
Report writing, Interpretation, Drafting and Computer time approx. 2½ weeks		\$	3,000.00

Total Cost           \$ 15,804.00

RWC/pf



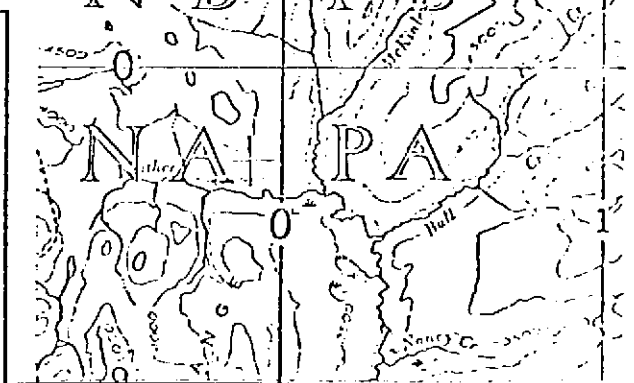
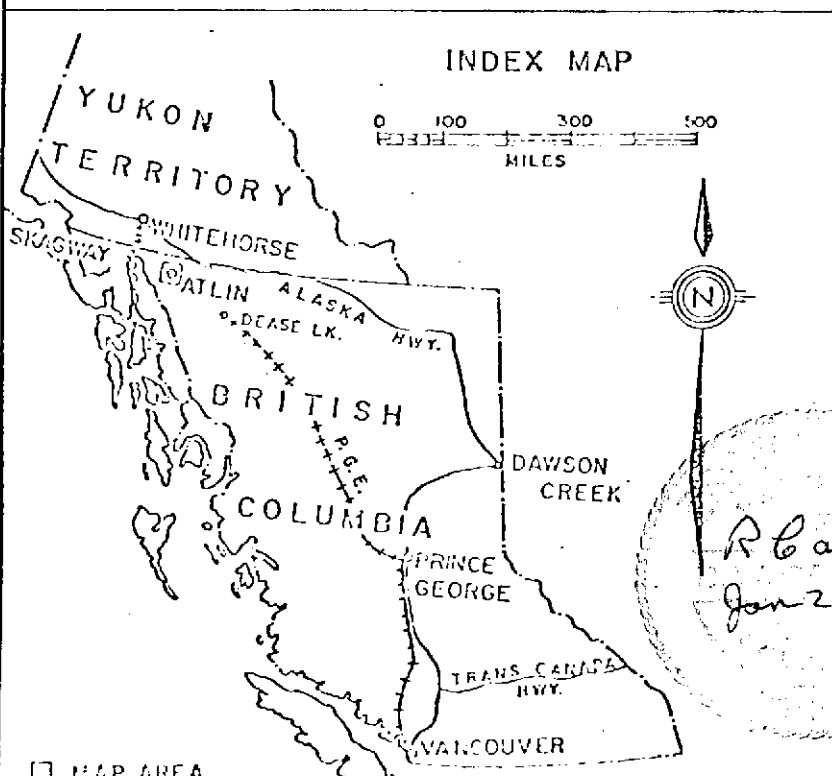
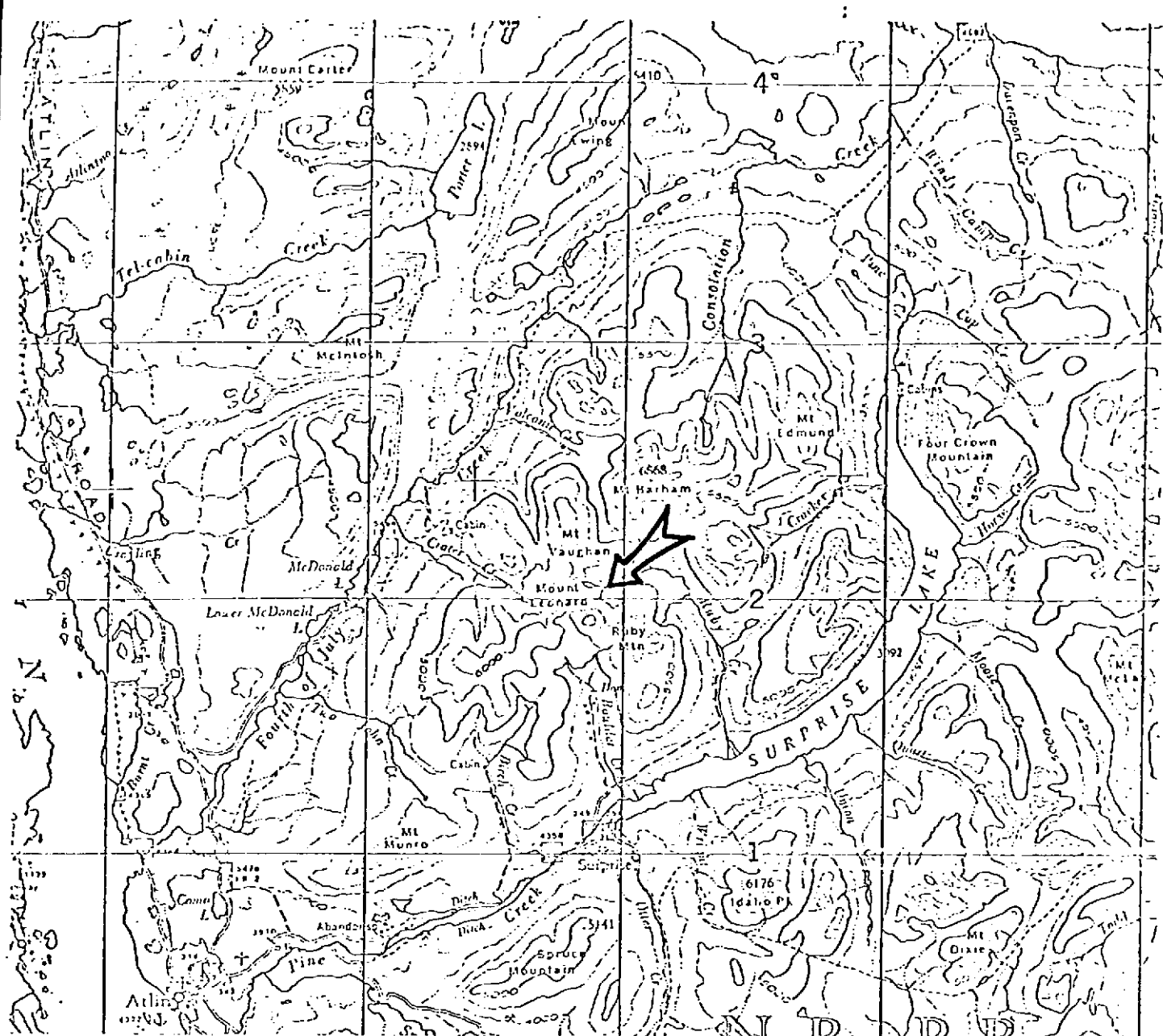
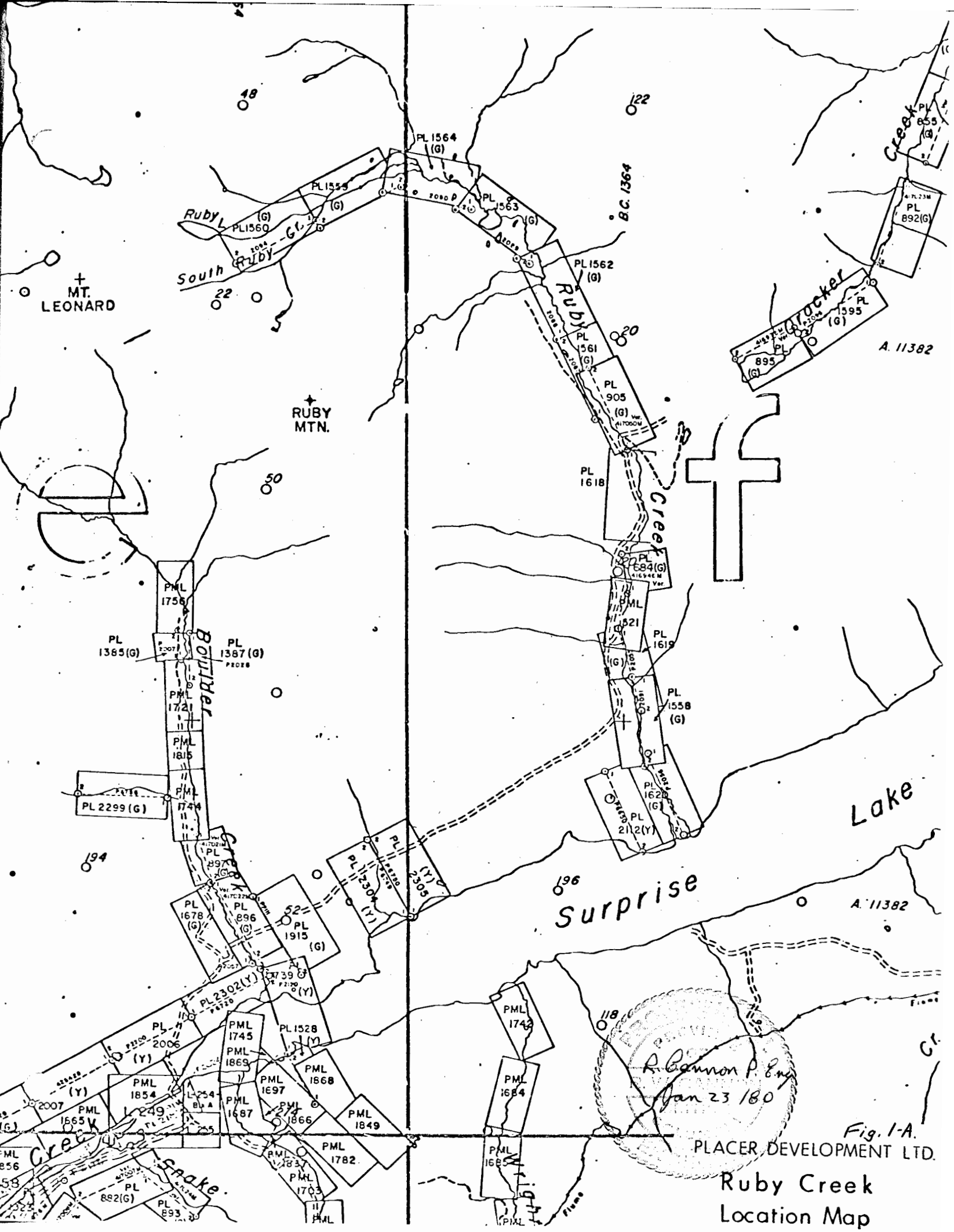


FIGURE 1  
PLACER DEVELOPMENT LIMITED

LOCATION MAP  
ADANAC PROPERTY

OCT. 1979. R.W.C.  
SCALE 1:250 000



MT. LEONARD

RUBY MTN.

Lake

Surprise

R. Cannon P. Eng.  
Jan 23 1980

PLACER DEVELOPMENT LTD.

Ruby Creek Location Map

Fig. 1-A

ADANAC  
PLANT AND TAILINGS SITE GEOPHYSICS

Summary and Conclusions

The VLF-EM (very low frequency electromagnetic) survey responded well to the Adera fault and made it quite easy to map the fault location in the plant site area. The seismic survey appeared to give reasonable correlation with the Kohn-Leonoff test pits as well as with the diamond drill results in both the plant site and the tailing dam site areas.

Introduction

The geophysical program consisted of VLF-EM and magnetometer surveys in the proposed plant site area, and a refraction seismic survey in portions of the plant site and tailing dam areas. This report summarizes the results of the various geophysical programs.

Location and Access

The Adanac property is located in northern B.C., 5 kilometres northwest of Surprise Lake. Access to the property is by means of two-wheel drive pick-up via a 30 kilometre gravel road from Atlin, B.C. Co-ordinates of the property are approximately latitude  $59^{\circ}40'$ ; Longitude  $133^{\circ}15'$ .

Property

The property consists of 155 old claims and fractions and 62 units staked under the new system. There are also 9 placer leases in addition to the above claims. A considerable number of these claims are optioned to Adanac from Johns-Manville Canada Inc.

Previous Work

To the best of the author's knowledge, no previous geophysical work has been conducted on the property.

### Present Work

This work consisted of 2.4 Km of seismic refraction along 21 various lines, 7.15 Km of VLF-EM Survey and 4.55 Km of magnetometer survey. A grid for the VLF and magnetometer surveys was established in the plant site area with lines being 60 m apart and stations marked every 15 m along the lines.

### Equipment Used

A Geonics EM-16 was used for the VLF-EM survey (Very Low Frequency Electromagnetics) employing the use of the transmitter station in Hawaii. In-phase and quadrature readings were taken at right angles to the station direction.

The magnetometer survey was conducted using the Geometrics total field proton-precession magnetometer, Model G-816.

A Geometrics Model ES-1200 seismograph system, which is a 12 channel signal enhancement unit, was used to carry out the refraction seismic survey. Geophone stations were 3.05 metres apart, due to the cable takeouts being 10 feet apart, and a sledgehammer was used as the signal source.

### Presentation of Results

The VLF results are presented on plan maps as both profiles and as "Fraser filtered" contours (scale 1:2000).

A contoured plan map was used to present the magnetometer results (scale 1:2000).

The seismic results are presented as computer calculated and plotted distance-depth profiles (distance 1:500, depth 1:250). Seismic line location maps are included in the pockets at the end of the report (1:2000). Interpretation of the seismic results was done using the U.S. Dept. of the Interior, Bureau of Mines (1972) FSIP Computer analysis of seismic refraction data program by James H. Scott.

Discussion of Results

Seismic

The average seismic refracted wave velocities of the various layers is broken down as follows:

1) Plant Site

$V_1 = 348$ m/sec.	unconsolidated overburden
$V_2 = 1415$ m/sec.	consolidated overburden
$V_3 = 4681$ m/sec	bedrock

2) Tailing Dam

$V_1 = 417$ m/sec.	unconsolidated overburden
$V_2 = 925$ m/sec.	consolidated overburden
$V_3 = 2500$ m/sec.	possible scoraceous basalt flows

3) Water Dam

$V_1 = 400$ m/sec.	unconsolidated overburden
$V_2 = 1413$ m/sec.	consolidated overburden
$V_3 = 2718$ m/sec.	scoraceous basalt flows

The average depth of the unconsolidated overburden is given in the listing below.

1) Plant Site

Barham Road	3.0 m
Tailing Pond to Bridge	2.0 m
Tailing Road	2.0 m
Plantsite to Bridge	1.8 m
1+20E	2.2 m
Pipeline	1.8 m
1+80E	2.9 m
17-S	2.7 m
Lower Road	2.2 m
Main Road	1.7 m
Drill Road	<u>3.5 m</u>
Plant Site Avg.	2.4 m



2) Tailing Dam

DS-1	1.3 m
DS-2	1.4 m
DS-3	1.1 m
DS-4	0.7 m
DS-5	2.0 m
DS-6	1.0 m
DS-7	<u>1.4 m</u>

Tailing Dam Avg. 1.3 m

2) Water Dam

WS-1	2.2 m
WS-2	3.0 m
WS-3	<u>1.3 m</u>

Water Dam Avg. 2.2 m

Bedrock depths and unconsolidated overburden depths are given as depths below the individual geophones in Appendix 1. A brief description of Appendix 1 is presented in the following example.

SP	Position	Surf. Elev.	Layer 2		Layer 3	
			Depth	Elev.	Depth	Elev.
A	0.0	1424.3	1.5	1422.8	5.1	1419.2
B	33.5	1424.8	2.3	1422.5	6.3	1418.5
<u>GEO</u>						
1	.0	1424.3	1.5	1422.8	5.1	1419.2
2	3.0	1424.3	1.5	1422.8	4.8	1419.5
:	:	:	:	:	:	:
.	.	.	.	.	.	.

- SP = Shotpoints for Spread
- Position = Distance shotpoints and geophones are from the start of a particular line.
- Surf. Elev. = Surface elevation in metres
- Layer 2 ) = Depth to top of layer 2 (i.e. thickness of layer 1)
- Depth Elev.) and elevation of the top of layer 2
- Layer 3 ) = Depth to the top of layer 3 (i.e. the thickness of layer 1+2)
- Depth Elev.) and elevation of the top of layers.
- GEO = Geophone number

### VLF-EM Survey

The electromagnetic survey revealed a rather good cross-over which when "Fraser filtered" gave an excellent correlation with the Adera fault. The filtered anomaly was traced across the entire grid area and was shown to be on strike with a fault zone which occurs on the southern ridge of Mt. Barham. The VLF data shows the anomaly to strike at  $055^{\circ}$  and to be nearly vertical.

### Magnetometer Survey

No correlation could be made between the Adera fault and the results obtained from the magnetic survey.

Diamond drill hole PS-1, which was drilled to confirm the VLF determined location of the Adera fault, encountered two major fault zones in the area coincident with the VLF anomaly calculated using the Fraser filter (33.5m - 54.9m and 91.4m - 113.1m). Overburden depth in this hole was 7.9m while the seismic data showed it to be 10.1m when adjusted for the different surface elevations. Drill hole W-1 gave an overburden depth of 5.5m to the top of scoraceous basalt and the seismic survey gave 5.5m and 6.2m. A near tie between T-2 and Line DS-3 gives 21m and 14.9m respectively. At this depth, the 14.9m figure would only be a minimum value due to the limitations of the hammer source.

### Conclusions and Recommendations

It was concluded that the VLF electromagnetic survey worked very well in outlining the Adera fault where it traverses the proposed plant site area. The seismic survey gave good correlation with the klohn-Leonoff test pits in the determination of the consolidated-unconsolidated overburden interface. The determination of bedrock depth by seismic methods proved to correlate quite well with the diamond drill results. It is recommended that, if seismic surveys are of any duration or where depths are greater than 15-20 m, the survey should be conducted by an outside contractor.

R.W. Cannon



RWC/cs

APPENDIX I

DATA FOR BARHAM ROAD SPREADS 5 SPREADS

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
A	.0	1439.1	1.8	1437.3	12.9	1426.2	
B	33.5	1435.7	2.7	1433.0	12.8	1422.9	
GEO							
1	.0	1439.1	1.8	1437.3	12.9	1426.2	
2	3.0	1438.8	.9	1437.9	12.7	1426.1	
3	6.1	1438.5	1.6	1436.9	12.7	1425.8	
4	9.1	1438.2	2.3	1435.9	12.7	1425.5	
5	12.2	1437.9	2.2	1435.7	12.7	1425.2	
6	15.2	1437.6	3.0	1434.6	12.7	1424.9	
7	18.3	1437.2	3.0	1434.2	12.6	1424.6	
8	21.3	1436.9	2.8	1434.1	12.6	1424.3	
9	24.4	1436.6	2.8	1433.8	12.4	1424.2	
10	27.4	1436.3	2.8	1433.5	12.2	1424.1	
11	30.5	1436.0	2.8	1433.2	12.3	1423.7	
12	33.5	1435.7	2.7	1433.0	12.8	1422.9	

DATA FOR BARHAM ROAD SPREADS 5 SPREADS

SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
C	33.5	1435.7	2.8	1432.9	12.8	1422.9	
D	67.0	1431.5	2.3	1429.2	8.1	1423.4	
<u>GEO</u>							
1	33.5	1435.7	2.8	1432.9	12.8	1422.9	
2	36.5	1435.3	2.7	1432.6	12.7	1422.6	
3	39.6	1434.9	2.6	1432.3	12.2	1422.7	
4	42.6	1434.6	2.7	1431.9	11.9	1422.7	
5	45.7	1434.2	2.7	1431.5	11.0	1423.2	
6	48.7	1433.8	2.8	1431.0	9.5	1424.3	
7	51.8	1433.4	2.9	1430.5	8.1	1425.3	
8	54.8	1433.0	2.8	1430.2	7.1	1425.9	
9	57.9	1432.6	3.1	1429.5	6.6	1426.0	
10	60.9	1432.3	2.8	1429.5	7.1	1425.2	
11	64.0	1431.9	2.5	1429.4	8.0	1423.9	
12	67.0	1431.5	2.3	1429.2	8.1	1423.4	

DATA FOR BARHAM ROAD SPREADS 5 SPREADS

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LA
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
E	67.1	1431.5	2.3	1429.2	8.1	1423.4	
F	100.6	1427.6	2.8	1424.8	9.2	1418.4	
GEO							
1	67.1	1431.5	2.3	1429.2	8.1	1423.4	
2	70.1	1431.1	2.1	1429.0	7.4	1423.7	
3	73.2	1430.8	2.0	1428.8	7.5	1423.3	
4	76.2	1430.4	2.0	1428.4	8.0	1422.4	
5	79.3	1430.1	2.1	1428.0	8.8	1421.3	
6	82.3	1429.7	2.0	1427.7	9.1	1420.6	
7	85.4	1429.4	1.9	1427.5	9.3	1420.1	
8	88.4	1429.0	1.9	1427.1	9.6	1419.4	
9	91.5	1428.7	2.3	1426.4	10.1	1418.6	
10	94.5	1428.3	2.4	1425.9	10.0	1418.3	
11	97.6	1428.0	2.6	1425.4	9.5	1418.5	
12	100.6	1427.6	2.8	1424.8	9.2	1418.4	

DATA FOR BARHAM ROAD SPREADS 5 SPREADS

SPREAD & SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LA
			DEPTH	ELEV	DEPTH	ELEV	
G	100.6	1427.6	2.8	1424.8	9.2	1418.4	
H	134.1	1424.8	2.4	1422.4	11.7	1413.1	
GEO							
1	100.6	1427.6	2.8	1424.8	9.2	1418.4	
2	103.6	1427.3	2.7	1424.6	9.6	1417.7	
3	106.7	1427.1	2.8	1424.3	10.1	1417.0	
4	109.7	1426.8	2.7	1424.1	10.1	1416.7	
5	112.8	1426.6	2.9	1423.7	9.2	1417.4	
6	115.8	1426.3	3.3	1423.0	7.9	1418.4	
7	118.9	1426.1	3.8	1422.3	7.3	1418.8	
8	121.9	1425.8	4.1	1421.7	7.0	1418.8	
9	125.0	1425.6	4.0	1421.6	7.3	1418.3	
10	128.0	1425.3	3.4	1421.9	8.2	1417.1	
11	131.1	1425.1	3.0	1422.1	9.8	1415.3	
12	134.1	1424.8	2.4	1422.4	11.7	1413.1	

DATA FOR BARHAM ROAD SPREADS 5 SPREADS

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
I	134.1	1424.8	2.4	1422.4	11.7	1413.1	
J	167.6	1422.1	3.5	1418.6	10.6	1411.5	
GEO							
1	134.1	1424.8	2.4	1422.4	11.7	1413.1	
2	137.1	1424.6	2.6	1422.0	12.2	1412.4	
3	140.2	1424.3	2.6	1421.7	10.9	1413.4	
4	143.2	1424.1	3.4	1420.7	9.6	1414.5	
5	146.3	1423.8	3.8	1420.0	8.5	1415.3	
6	149.3	1423.6	4.3	1419.3	8.6	1415.0	
7	152.4	1423.3	4.1	1419.2	9.4	1413.9	
8	155.4	1423.1	3.8	1419.3	10.1	1413.0	
9	158.5	1422.8	3.7	1419.1	11.0	1411.8	
10	161.5	1422.6	3.6	1419.0	11.3	1411.3	
11	164.6	1422.3	3.5	1418.8	10.6	1411.7	
12	167.6	1422.1	3.5	1418.6	10.6	1411.5	
M	66	0					



DATA FOR SPREADS FROM THE TAILING POND TO BRIDGE 2 SPREADS

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
A	.0	1417.0	1.8	1415.2	10.7	1406.3	
B	33.5	1413.2	2.1	1411.1	7.6	1405.6	
<u>GEO</u>							
1	.0	1417.0	1.8	1415.2	10.7	1406.3	
2	3.0	1416.7	2.1	1414.6	10.4	1406.3	
3	6.1	1416.3	2.4	1413.9	10.1	1406.2	
4	9.1	1416.0	2.9	1413.1	9.9	1406.1	
5	12.2	1415.6	2.8	1412.8	9.6	1406.0	
6	15.2	1415.3	2.8	1412.5	9.1	1406.2	
7	18.3	1414.9	2.6	1412.3	8.5	1406.4	
8	21.3	1414.6	2.6	1412.0	8.5	1406.1	
9	24.4	1414.2	2.4	1411.8	8.6	1405.6	
10	27.4	1413.9	2.3	1411.6	8.6	1405.3	
11	30.5	1413.5	2.2	1411.3	8.2	1405.3	
12	33.5	1413.2	2.1	1411.1	7.6	1405.6	

DATA FOR SPREADS FROM THE TAILING POND TO BRIDGE 2 SPREADS

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LA.
			DEPTH	ELEV	DEPTH	ELEV	
C	33.5	1413.2	2.1	1411.1	7.6	1405.6	
D	67.0	1409.3	1.5	1407.8	9.0	1400.3	
GEO							
1	33.5	1413.2	2.1	1411.1	7.6	1405.6	
2	36.5	1412.8	1.9	1410.9	6.9	1405.9	
3	39.6	1412.5	1.9	1410.6	6.7	1405.8	
4	42.6	1412.1	1.8	1410.3	6.8	1405.3	
5	45.7	1411.8	1.6	1410.2	7.2	1404.6	
6	48.7	1411.4	1.3	1410.1	7.9	1403.5	
7	51.8	1411.1	1.2	1409.9	8.5	1402.6	
8	54.8	1410.7	1.0	1409.7	8.7	1402.0	
9	57.9	1410.4	1.3	1409.1	8.9	1401.5	
10	60.9	1410.0	1.5	1408.5	8.8	1401.2	
11	64.0	1409.7	1.5	1408.2	8.8	1400.9	
12	67.0	1409.3	1.5	1407.8	9.0	1400.3	
M	66	0					

DATA FOR SPREADS ALONG TAILING ROAD 5 SPREADS

SPREAD S SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
A	.0	1444.2	2.6	1441.6	1443.4	.8		
B	33.5	1439.4	1.9	1437.5	16.5	1422.9		
GEO								
1	.0	1444.2	2.6	1441.6	1443.4	.8		
2	3.0	1443.8	2.6	1441.2	1372.6	71.2		
3	6.1	1443.3	2.6	1440.7	1226.4	216.9		
4	9.1	1442.9	2.7	1440.1	1085.1	357.8		
5	12.2	1442.5	2.7	1439.8	939.1	503.4		
6	15.2	1442.0	2.6	1439.4	797.7	644.3		
7	18.3	1441.6	2.5	1439.1	651.7	789.9		
8	21.3	1441.1	2.4	1438.7	510.2	930.9		
9	24.4	1440.7	2.7	1438.0	364.2	1076.5		
10	27.4	1440.3	2.4	1437.9	222.9	1217.4		
11	30.5	1439.8	2.2	1437.6	76.8	1363.0		
12	33.5	1439.4	1.9	1437.5	16.5	1422.9		

DATA FOR SPREADS ALONG TAILING ROAD 5 SPREADS

SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
C	33.5	1439.4	1.9	1437.5	16.5	1422.9		
D	67.0	1435.1	1.7	1433.4	11.3	1423.8		
GEO								
1	33.5	1439.4	1.9	1437.5	16.5	1422.9		
2	36.5	1439.0	1.4	1437.6	13.7	1425.3		
3	39.6	1438.6	1.4	1437.2	12.3	1426.3		
4	42.6	1438.2	1.4	1436.8	11.8	1426.4		
5	45.7	1437.8	1.4	1436.4	11.3	1426.5		
6	48.7	1437.4	1.5	1435.9	10.9	1426.5		
7	51.8	1437.1	1.5	1435.6	10.5	1426.6		
8	54.8	1436.7	1.4	1435.3	10.0	1426.7		
9	57.9	1436.3	1.4	1434.9	9.5	1426.8		
10	60.9	1435.9	1.6	1434.3	9.1	1426.8		
11	64.0	1435.5	1.6	1433.9	8.6	1426.9		
12	67.0	1435.1	1.7	1433.4	11.3	1423.8		

DATA FOR SPREADS ALONG TAILING ROAD 5 SPREADS

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
E	67.1	1435.1	1.7	1433.4	11.3	1423.8		
F	100.6	1431.6	1.8	1429.8	11.4	1420.2		
GEO								
1	67.1	1435.1	1.7	1433.4	11.3	1423.8		
2	70.1	1434.8	1.8	1433.0	8.6	1426.2		
3	73.2	1434.5	1.7	1432.8	8.5	1426.0		
4	76.2	1434.1	1.6	1432.5	8.4	1425.7		
5	79.3	1433.8	1.7	1432.1	9.3	1424.5		
6	82.3	1433.5	1.8	1431.7	11.0	1422.5		
7	85.4	1433.2	1.8	1431.4	11.8	1421.4		
8	88.4	1432.9	1.7	1431.2	12.0	1420.9		
9	91.5	1432.6	1.8	1430.8	12.3	1420.3		
10	94.5	1432.2	1.8	1430.4	12.3	1419.9		
11	97.6	1431.9	1.8	1430.1	12.0	1419.9		
12	100.6	1431.6	1.8	1429.8	11.4	1420.2		

DATA FOR SPREADS ALONG TAILING ROAD 5 SPREADS

SPREAD & SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
G	100.6	1431.6	1.8	1429.8	11.4	1420.2		
H	134.1	1428.3	1.9	1426.4	9.7	1418.6		
GEO								
1	100.6	1431.6	1.8	1429.8	11.4	1420.2		
2	103.6	1431.3	2.2	1429.1	11.0	1420.3		
3	106.7	1431.0	2.1	1428.9	11.0	1420.0		
4	109.7	1430.7	2.1	1428.6	11.3	1419.4		
5	112.8	1430.4	2.0	1428.4	11.7	1418.7		
6	115.8	1430.1	2.1	1428.0	12.1	1418.0		
7	118.9	1429.8	2.1	1427.7	12.5	1417.3		
8	121.9	1429.5	2.1	1427.4	12.3	1417.2		
9	125.0	1429.2	2.3	1426.9	11.7	1417.5		
10	128.0	1428.9	2.3	1426.6	11.1	1417.8		
11	131.1	1428.6	2.1	1426.5	10.5	1418.1		
12	134.1	1428.3	1.9	1426.4	9.7	1418.6		

DATA FOR SPREADS ALONG TAILING ROAD 5 SPREADS

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
I	134.1	1428.3	2.0	1426.3	9.7	1418.6		
J	167.6	1424.7	2.3	1422.4	7.0	1417.7		
GEO								
1	134.1	1428.3	2.0	1426.3	9.7	1418.6		
2	137.1	1428.0	2.0	1426.0	8.9	1419.1		
3	140.2	1427.6	2.0	1425.6	8.4	1419.2		
4	143.2	1427.3	2.2	1425.1	7.8	1419.5		
5	146.3	1427.0	2.3	1424.7	7.6	1419.4		
6	149.3	1426.7	2.3	1424.4	7.6	1419.1		
7	152.4	1426.3	2.3	1424.0	7.3	1419.0		
8	155.4	1426.0	2.3	1423.7	7.3	1418.7		
9	158.5	1425.7	2.4	1423.3	7.3	1418.4		
10	161.5	1425.4	2.4	1423.0	7.3	1418.1		
11	164.6	1425.0	2.3	1422.7	7.1	1417.9		
12	167.6	1424.7	2.3	1422.4	7.0	1417.7		
M,	66, 0,	0						

DATA FOR SPREADS FROM PS TO BRIDGE 5 SPREADS

SPREAD S SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
A	.0	1420.3	1.7	1418.6	10.3	1410.0	
B	33.5	1416.0	1.2	1414.8	11.5	1404.5	
GEO							
1	.0	1420.3	1.7	1418.6	10.3	1410.0	
2	3.0	1419.9	1.6	1418.3	10.0	1409.9	
3	6.1	1419.5	1.6	1417.9	10.0	1409.5	
4	9.1	1419.1	1.8	1417.3	9.8	1409.3	
5	12.2	1418.7	1.7	1417.0	9.3	1409.4	
6	15.2	1418.3	1.8	1416.5	8.8	1409.5	
7	18.3	1418.0	2.0	1416.0	8.7	1409.3	
8	21.3	1417.6	1.7	1415.9	9.0	1408.6	
9	24.4	1417.2	1.7	1415.5	9.8	1407.4	
10	27.4	1416.8	1.4	1415.4	10.5	1406.3	
11	30.5	1416.4	1.3	1415.1	10.9	1405.5	
12	33.5	1416.0	1.2	1414.8	11.5	1404.5	



DATA FOR SPREADS FROM PS TO BRIDGE 5 SPREADS

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
C	33.5	1416.0	1.2	1414.8	11.5	1404.5		
D	67.0	1413.9	2.0	1411.9	7.7	1406.2		
GEO								
1	33.5	1416.0	1.2	1414.8	11.5	1404.5		
2	36.5	1415.8	1.2	1414.6	11.7	1404.1		
3	39.6	1415.6	1.1	1414.5	11.4	1404.2		
4	42.6	1415.4	1.4	1414.0	11.1	1404.3		
5	45.7	1415.2	1.4	1413.8	10.8	1404.4		
6	48.7	1415.0	1.1	1413.9	10.4	1404.6		
7	51.8	1414.9	1.2	1413.7	10.0	1404.9		
8	54.8	1414.7	1.0	1413.7	9.6	1405.1		
9	57.9	1414.5	1.0	1413.5	9.1	1405.4		
10	60.9	1414.3	1.2	1413.1	8.5	1405.8		
11	64.0	1414.1	1.6	1412.5	8.0	1406.1		
12	67.0	1413.9	2.0	1411.9	7.7	1406.2		

DATA FOR SPREADS FROM RS TO BRIDGE 5 SPREADS

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
E	67.1	1413.9	2.0	1411.9	7.7	1406.2	
F	100.6	1411.2	2.0	1409.2	11.3	1399.9	
GEO							
1	67.1	1413.9	2.0	1411.9	7.7	1406.2	
2	70.1	1413.7	2.0	1411.7	7.7	1406.0	
3	73.2	1413.4	2.0	1411.4	7.9	1405.5	
4	76.2	1413.2	2.0	1411.2	8.6	1404.6	
5	79.3	1412.9	1.8	1411.1	9.7	1403.2	
6	82.3	1412.7	1.9	1410.8	11.1	1401.6	
7	85.4	1412.4	2.6	1409.8	11.9	1400.5	
8	88.4	1412.2	2.4	1409.8	12.2	1400.0	
9	91.5	1411.9	2.5	1409.4	12.2	1399.7	
10	94.5	1411.7	2.4	1409.3	12.3	1399.4	
11	97.6	1411.4	2.2	1409.2	11.8	1399.6	
12	100.6	1411.2	2.0	1409.2	11.3	1399.9	

DATA FOR SPREADS FROM PS TO BRIDGE 5 SPREADS

SPREAD & SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
G	100.6	1411.2	2.0	1409.2	11.3	1399.9		
H	134.1	1409.0	2.3	1406.7	12.2	1396.8		
GEO								
1	100.6	1411.2	2.0	1409.2	11.3	1399.9		
2	103.6	1411.0	1.9	1409.1	10.9	1400.1		
3	106.7	1410.8	1.7	1409.1	10.9	1399.9		
4	109.7	1410.6	1.7	1408.9	11.0	1399.6		
5	112.8	1410.4	2.0	1408.4	10.9	1399.5		
6	115.8	1410.2	2.1	1408.1	10.8	1399.4		
7	118.9	1410.0	2.1	1407.9	10.9	1399.1		
8	121.9	1409.8	2.2	1407.6	10.9	1398.9		
9	125.0	1409.6	2.4	1407.2	10.9	1398.7		
10	128.0	1409.4	2.4	1407.0	10.8	1398.6		
11	131.1	1409.2	2.4	1406.8	11.2	1398.0		
12	134.1	1409.0	2.3	1406.7	12.2	1396.8		

DATA FOR SPREADS FROM PS TO BRIDGE 5 SPREADS

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
I	134.1	1409.0	2.3	1406.7	12.2	1396.8		
J	167.6	1406.3	.9	1405.4	11.8	1394.5		
GEO								
1	134.1	1409.0	2.3	1406.7	12.2	1396.8		
2	137.1	1408.8	2.3	1406.5	12.9	1395.9		
3	140.2	1408.5	2.1	1406.4	13.0	1395.5		
4	143.2	1408.3	2.1	1406.2	13.3	1395.0		
5	146.3	1408.0	1.9	1406.1	13.2	1394.8		
6	149.3	1407.8	2.2	1405.6	12.9	1394.9		
7	152.4	1407.5	2.6	1404.9	12.6	1394.9		
8	155.4	1407.3	2.1	1405.2	12.5	1394.8		
9	158.5	1407.0	2.2	1404.8	12.2	1394.8		
10	161.5	1406.8	1.2	1405.6	12.1	1394.7		
11	164.6	1406.5	.9	1405.6	11.8	1394.7		
12	167.6	1406.3	.9	1405.4	11.8	1394.5		
M	66	0						

DATA FOR SPREAD 1+20E 3 SPREADS

SPREAD S SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
A	.0	1424.3	1.5	1422.8	5.1	1419.2		
B	33.5	1424.8	2.3	1422.5	6.3	1418.5		
GEO								
1	.0	1424.3	1.5	1422.8	5.1	1419.2		
2	3.0	1424.3	1.5	1422.8	4.8	1419.5		
3	6.1	1424.4	1.5	1422.9	4.5	1419.9		
4	9.1	1424.4	1.6	1422.8	4.2	1420.2		
5	12.2	1424.5	1.7	1422.8	4.3	1420.2		
6	15.2	1424.5	1.8	1422.7	4.1	1420.4		
7	18.3	1424.6	1.9	1422.7	4.2	1420.4		
8	21.3	1424.6	1.9	1422.7	4.2	1420.4		
9	24.4	1424.7	2.1	1422.6	4.5	1420.2		
10	27.4	1424.7	2.1	1422.6	4.9	1419.8		
11	30.5	1424.8	2.3	1422.5	5.7	1419.1		
12	33.5	1424.8	2.3	1422.5	6.3	1418.5		

DATA FOR SPREAD 1+20E 3 SPREADS

SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
C	33.5	1424.8	2.3	1422.5	6.3	1418.5		
D	67.0	1425.8	2.4	1423.4	7.7	1418.1		
GEO								
1	33.5	1424.8	2.3	1422.5	6.3	1418.5		
2	36.5	1424.9	2.1	1422.2	6.6	1418.3		
3	39.6	1425.0	1.9	1423.1	7.0	1418.0		
4	42.6	1425.1	1.6	1423.5	7.4	1417.7		
5	45.7	1425.2	.6	1424.6	8.1	1417.1		
6	48.7	1425.3	.9	1424.4	8.5	1416.8		
7	51.8	1425.3	1.1	1424.2	8.6	1416.7		
8	54.8	1425.4	1.3	1424.1	8.5	1416.9		
9	57.9	1425.5	1.6	1423.9	8.3	1417.2		
10	60.9	1425.6	1.8	1423.8	8.0	1417.6		
11	64.0	1425.7	2.1	1423.6	7.8	1417.9		
12	67.0	1425.8	2.4	1423.4	7.7	1418.1		

DATA FOR SPREAD 1+20E 3 SPREADS

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
E	67.1	1425.8	2.5	1423.3	7.7	1418.1		
F	100.6	1425.9	2.5	1423.4	8.7	1417.2		
GEO								
1	67.1	1425.8	2.5	1423.3	7.7	1418.1		
2	70.1	1425.8	2.8	1423.0	7.4	1418.4		
3	73.2	1425.8	3.2	1422.6	6.9	1418.9		
4	76.2	1425.8	3.6	1422.2	6.7	1419.1		
5	79.3	1425.8	3.4	1422.4	7.0	1418.8		
6	82.3	1425.8	3.2	1422.6	7.4	1418.4		
7	85.4	1425.9	3.1	1422.8	7.8	1418.1		
8	88.4	1425.9	2.9	1423.0	8.2	1417.7		
9	91.5	1425.9	2.7	1423.2	8.6	1417.3		
10	94.5	1425.9	2.6	1423.3	8.7	1417.2		
11	97.6	1425.9	2.6	1423.3	8.6	1417.3		
12	100.6	1425.9	2.5	1423.4	8.7	1417.2		
M	66' 0"	0						

DATA FOR PIPELINE SPREADS 3 SPREADS.

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
A	.0	1440.9	1.9	1439.0	11.2	1429.7		
B	33.5	1437.3	.6	1436.7	10.4	1426.9		
GEO								
1	.0	1440.9	1.9	1439.0	11.2	1429.7		
2	3.0	1440.6	2.2	1438.4	10.9	1429.7		
3	6.1	1440.2	2.5	1437.7	10.2	1430.0		
4	9.1	1439.9	2.7	1437.2	9.2	1430.7		
5	12.2	1439.6	2.9	1436.7	8.1	1431.5		
6	15.2	1439.3	2.9	1436.4	7.5	1431.8		
7	18.3	1438.9	2.2	1436.7	7.7	1431.2		
8	21.3	1438.6	1.6	1437.0	8.1	1430.5		
9	24.4	1438.3	1.6	1436.7	8.7	1429.6		
10	27.4	1438.0	1.5	1436.5	9.7	1428.3		
11	30.5	1437.6	1.0	1436.6	10.2	1427.4		
12	33.5	1437.3	.6	1436.7	10.4	1426.9		



DATA FOR PIPELINE SPREADS 3 SPREADS.

SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
C	33.5	1437.3	.6	1436.7	10.4	1426.9	
D	67.0	1433.7	1.9	1431.8	9.7	1424.0	
GEO							
1	33.5	1437.3	.6	1436.7	10.4	1426.9	
2	36.5	1437.0	1.4	1435.6	10.4	1426.6	
3	39.6	1436.6	2.1	1434.5	9.8	1426.8	
4	42.6	1436.3	2.4	1433.9	8.7	1427.6	
5	45.7	1436.0	2.6	1433.4	7.8	1428.2	
6	48.7	1435.7	2.4	1433.3	7.6	1428.1	
7	51.8	1435.3	2.0	1433.3	7.9	1427.4	
8	54.8	1435.0	1.8	1433.2	8.6	1426.4	
9	57.9	1434.7	1.3	1433.4	9.5	1425.2	
10	60.9	1434.4	1.5	1432.9	9.9	1424.5	
11	64.0	1434.0	1.7	1432.3	9.8	1424.2	
12	67.0	1433.7	1.9	1431.8	9.7	1424.0	

DATA FOR PIPELINE SPREADS 3 SPREADS.

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
E	67.1	1433.7	1.9	1431.8	9.7	1424.0		
F	100.6	1430.6	1.3	1429.3	4.1	1426.5		
GEO								
1	67.1	1433.7	1.9	1431.8	9.7	1424.0		
2	70.1	1433.4	1.9	1431.5	9.5	1423.9		
3	73.2	1433.1	1.8	1431.3	9.3	1423.8		
4	76.2	1432.9	1.8	1431.1	8.9	1424.0		
5	79.3	1432.6	1.5	1431.1	8.1	1424.5		
6	82.3	1432.3	1.0	1431.3	7.4	1424.9		
7	85.4	1432.0	1.0	1431.0	6.9	1425.1		
8	88.4	1431.7	1.1	1430.6	6.4	1425.3		
9	91.5	1431.4	1.2	1430.2	5.7	1425.7		
10	94.5	1431.2	1.3	1429.9	5.2	1426.0		
11	97.6	1430.9	1.3	1429.6	4.7	1426.2		
12	100.6	1430.6	1.3	1429.3	4.1	1426.5		
M	66.0	0						

DATA FOR FIRST 5 OF MAIN ROAD SPREADS

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
A	.0	1376.0	-1.6	1377.6	12.9	1363.1	
B	33.5	1378.0	.4	1377.6	10.2	1367.8	
<u>GEO</u>							
1	.0	1376.0	.0	1376.0	12.9	1363.1	
2	3.0	1376.2	.0	1376.2	12.7	1363.5	
3	6.1	1376.4	.0	1376.4	12.9	1363.5	
4	9.1	1376.5	.0	1376.5	13.0	1363.5	
5	12.2	1376.7	.0	1376.7	13.0	1363.7	
6	15.2	1376.9	.0	1376.9	13.0	1363.9	
7	18.3	1377.1	.0	1377.1	13.1	1364.0	
8	21.3	1377.3	.0	1377.3	13.1	1364.2	
9	24.4	1377.5	.0	1377.5	12.7	1364.8	
10	27.4	1377.6	.0	1377.6	11.8	1365.8	
11	30.5	1377.8	.2	1377.6	10.9	1366.9	
12	33.5	1378.0	.4	1377.6	10.2	1367.8	

DATA FOR FIRST 5 OF MAIN ROAD SPREADS

SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
C	33.5	1378.0	.4	1377.6	10.2	1367.8		
D	67.0	1380.2	2.6	1377.6	7.4	1372.8		
GEO								
1	33.5	1378.0	.4	1377.6	10.2	1367.8		
2	36.5	1378.2	.6	1377.6	9.4	1368.8		
3	39.6	1378.4	.8	1377.6	8.5	1369.9		
4	42.6	1378.6	1.0	1377.6	7.8	1370.8		
5	45.7	1378.8	1.2	1377.6	7.9	1370.9		
6	48.7	1379.0	1.4	1377.6	8.1	1370.9		
7	51.8	1379.2	1.6	1377.6	7.9	1371.3		
8	54.8	1379.4	1.8	1377.6	7.6	1371.8		
9	57.9	1379.6	2.0	1377.6	7.7	1371.9		
10	60.9	1379.8	2.2	1377.6	7.9	1371.9		
11	64.0	1380.0	2.4	1377.6	7.9	1372.1		
12	67.0	1380.2	2.6	1377.6	7.4	1372.8		

DATA FOR FIRST 5 OF MAIN ROAD SPREADS

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
E	67.1	1380.2	2.6	1377.6	7.4	1372.8		
F	100.6	1382.5	2.3	1380.2	6.4	1376.1		
GEO								
1	67.1	1380.2	2.6	1377.6	7.4	1372.8		
2	70.1	1380.4	2.6	1377.8	6.9	1373.5		
3	73.2	1380.6	2.5	1378.1	6.6	1374.0		
4	76.2	1380.8	2.4	1378.4	6.6	1374.2		
5	79.3	1381.0	2.3	1378.7	6.5	1374.5		
6	82.3	1381.2	2.2	1379.0	6.2	1375.0		
7	85.4	1381.5	2.2	1379.3	6.0	1375.5		
8	88.4	1381.7	2.1	1379.6	6.0	1375.7		
9	91.5	1381.9	2.0	1379.9	6.1	1375.8		
10	94.5	1382.1	1.9	1380.2	6.3	1375.8		
11	97.6	1382.3	2.1	1380.2	6.4	1375.9		
12	100.6	1382.5	2.3	1380.2	6.4	1376.1		

DATA FOR FIRST 5 OF MAIN ROAD SPREADS

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
I	134.1	1384.9	2.5	1382.4	6.3	1378.6		
J	167.6	1387.3	3.7	1383.6	7.7	1379.6		
GEO								
1	134.1	1384.9	2.5	1382.4	6.3	1378.6		
2	137.1	1385.1	2.5	1382.6	6.5	1378.6		
3	140.2	1385.3	2.5	1382.8	5.8	1379.5		
4	143.2	1385.6	2.5	1383.1	5.4	1380.2		
5	146.3	1385.8	2.1	1383.7	5.9	1379.9		
6	149.3	1386.0	1.8	1384.2	7.1	1378.9		
7	152.4	1386.2	1.6	1384.6	8.2	1378.0		
8	155.4	1386.4	1.7	1384.7	8.7	1377.7		
9	158.5	1386.6	1.9	1384.7	8.7	1377.9		
10	161.5	1386.9	2.6	1384.3	8.3	1378.6		
11	164.6	1387.1	3.2	1383.9	7.5	1379.6		
12	167.6	1387.3	3.7	1383.6	7.7	1379.6		
M	66.0	0						

DATA FOR FIRST 5 OF MAIN ROAD SPREADS

SPREAD & SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
G	100.6	1382.5	2.3	1380.2	6.4	1376.1		
H	134.1	1384.9	2.5	1382.4	6.3	1378.6		
GEO								
1	100.6	1382.5	2.3	1380.2	6.4	1376.1		
2	103.6	1382.7	2.3	1380.4	6.8	1375.9		
3	106.7	1382.9	2.3	1380.6	7.3	1375.6		
4	109.7	1383.2	2.1	1381.1	7.7	1375.5		
5	112.8	1383.4	1.7	1381.7	7.8	1375.6		
6	115.8	1383.6	1.7	1381.9	7.8	1375.8		
7	118.9	1383.8	1.9	1381.9	7.6	1376.2		
8	121.9	1384.0	2.0	1382.0	7.2	1376.8		
9	125.0	1384.2	2.0	1382.2	6.4	1377.8		
10	128.0	1384.5	2.2	1382.3	5.8	1378.7		
11	131.1	1384.7	2.4	1382.3	5.9	1378.8		
12	134.1	1384.9	2.5	1382.4	6.3	1378.6		

DATA FOR SPREADS 3 TO 7 OF MAIN ROAD SPREADS

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
E	67.1	1380.2	2.6	1377.6	6.6	1373.6		
F	100.6	1382.5	2.3	1380.2	6.5	1376.0		
GEO								
1	67.1	1380.2	2.6	1377.6	6.6	1373.6		
2	70.1	1380.4	2.6	1377.8	6.7	1373.7		
3	73.2	1380.6	2.5	1378.1	6.6	1374.0		
4	76.2	1380.8	2.4	1378.4	6.6	1374.2		
5	79.3	1381.0	2.3	1378.7	6.5	1374.5		
6	82.3	1381.2	2.2	1379.0	6.3	1374.9		
7	85.4	1381.5	2.2	1379.3	6.1	1375.4		
8	88.4	1381.7	2.1	1379.6	6.0	1375.7		
9	91.5	1381.9	2.0	1379.9	6.2	1375.7		
10	94.5	1382.1	1.9	1380.2	6.4	1375.7		
11	97.6	1382.3	2.1	1380.2	6.4	1375.9		
12	100.6	1382.5	2.3	1380.2	6.5	1376.0		



DATA FOR SPREADS 3 TO 7 OF MAIN ROAD SPREADS

SPREAD & SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
G	100.6	1382.5	2.3	1380.2	6.5	1376.0		
H	134.1	1384.9	2.5	1382.4	6.8	1378.1		
GEO								
1	100.6	1382.5	2.3	1380.2	6.5	1376.0		
2	103.6	1382.7	2.3	1380.4	6.8	1375.9		
3	106.7	1382.9	2.3	1380.6	7.3	1375.6		
4	109.7	1383.2	2.1	1381.1	7.7	1375.5		
5	112.8	1383.4	1.7	1381.7	7.8	1375.6		
6	115.8	1383.6	1.7	1381.9	8.0	1375.6		
7	118.9	1383.8	1.9	1381.9	7.8	1376.0		
8	121.9	1384.0	2.0	1382.0	7.3	1376.7		
9	125.0	1384.2	2.0	1382.2	6.5	1377.7		
10	128.0	1384.5	2.2	1382.3	5.9	1378.6		
11	131.1	1384.7	2.4	1382.3	6.1	1378.6		
12	134.1	1384.9	2.5	1382.4	6.8	1378.1		

DATA FOR SPREADS 3 TO 7 OF MAIN ROAD SPREADS

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
I	134.1	1384.9	2.5	1382.4	6.8	1378.1		
J	167.6	1387.3	3.4	1383.9	7.1	1380.2		
GEO								
1	134.1	1384.9	2.5	1382.4	6.8	1378.1		
2	137.1	1385.1	2.5	1382.6	7.1	1378.0		
3	140.2	1385.3	2.5	1382.8	6.9	1378.4		
4	143.2	1385.6	2.5	1383.1	6.9	1378.7		
5	146.3	1385.8	2.1	1383.7	7.3	1378.5		
6	149.3	1386.0	1.8	1384.2	8.2	1377.8		
7	152.4	1386.2	1.6	1384.6	9.0	1377.2		
8	155.4	1386.4	1.8	1384.6	9.8	1376.6		
9	158.5	1386.6	2.0	1384.6	9.8	1376.8		
10	161.5	1386.9	2.5	1384.4	8.8	1378.1		
11	164.6	1387.1	3.0	1384.1	7.6	1379.5		
12	167.6	1387.3	3.4	1383.9	7.1	1380.2		

DATA FOR SPREADS 3 TO 7 OF MAIN ROAD SPREADS

SPREAD > SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
K	167.6	1387.3	3.4	1383.9	7.1	1380.2	
L	201.1	1390.0	1.5	1388.5	11.1	1378.9	
GEO							
1	167.6	1387.3	3.4	1383.9	7.1	1380.2	
2	170.6	1387.5	3.1	1384.4	7.1	1380.4	
3	173.7	1387.8	2.8	1385.0	7.3	1380.5	
4	176.7	1388.0	2.5	1385.5	7.8	1380.2	
5	179.8	1388.3	2.1	1386.2	8.8	1379.5	
6	182.8	1388.5	2.3	1386.2	9.6	1378.9	
7	185.9	1388.8	2.3	1386.5	10.1	1378.7	
8	188.9	1389.0	2.3	1386.7	10.2	1378.8	
9	192.0	1389.3	2.3	1387.0	10.4	1378.9	
10	195.0	1389.5	2.4	1387.1	10.7	1378.8	
11	198.1	1389.8	2.0	1387.8	11.3	1378.5	
12	201.1	1390.0	1.5	1388.5	11.1	1378.9	

DATA FOR SPREADS 3 TO 7 OF MAIN ROAD SPREADS

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
M	201.2	1390.0	1.5	1388.5	11.1	1378.9		
N	234.7	1393.4	.0	1393.4	10.5	1382.9		
GEO								
1	201.2	1390.0	1.5	1388.5	11.1	1378.9		
2	204.2	1390.3	.9	1389.4	10.5	1379.8		
3	207.3	1390.6	.3	1390.3	9.9	1380.7		
4	210.3	1390.9	.7	1390.2	9.8	1381.1		
5	213.4	1391.2	.3	1390.9	9.7	1381.5		
6	216.4	1391.5	.6	1390.9	9.8	1381.7		
7	219.5	1391.9	.9	1391.0	9.8	1382.1		
8	222.5	1392.2	.5	1391.7	9.7	1382.5		
9	225.6	1392.5	.3	1392.2	10.0	1382.5		
10	228.6	1392.8	.2	1392.6	10.4	1382.4		
11	231.7	1393.1	.1	1393.0	10.6	1382.5		
12	234.7	1393.4	.0	1393.4	10.5	1382.9		
M,	66,	0,						

DATA FOR SPREADS 5 TO 9 OF MAIN ROAD SPREADS

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
I	134.1	1384.9	2.5	1382.4	7.4	1377.5		
J	167.6	1387.3	3.6	1383.7	6.6	1380.7		
GEO								
1	134.1	1384.9	2.5	1382.4	7.4	1377.5		
2	137.1	1385.1	2.5	1382.6	7.3	1377.8		
3	140.2	1385.3	2.4	1382.9	6.7	1378.6		
4	143.2	1385.6	2.5	1383.1	6.5	1379.1		
5	146.3	1385.8	2.0	1383.8	7.0	1378.8		
6	149.3	1386.0	1.8	1384.2	8.1	1377.9		
7	152.4	1386.2	1.5	1384.7	9.3	1376.9		
8	155.4	1386.4	1.7	1384.7	9.4	1377.0		
9	158.5	1386.6	1.9	1384.7	8.8	1377.8		
10	161.5	1386.9	2.5	1384.4	8.1	1378.8		
11	164.6	1387.1	3.1	1384.0	7.1	1380.0		
12	167.6	1387.3	3.6	1383.7	6.6	1380.7		

DATA FOR SPREADS 5 TO 9 OF MAIN ROAD SPREADS

SPREAD > SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
K	167.6	1387.3	3.5	1383.8	6.6	1380.7		
L	201.1	1390.0	1.5	1388.5	11.1	1378.9		
GEO								
1	167.6	1387.3	3.5	1383.8	6.6	1380.7		
2	170.6	1387.5	3.2	1384.3	6.6	1380.9		
3	173.7	1387.8	2.9	1384.9	7.1	1380.7		
4	176.7	1388.0	2.4	1385.6	7.8	1380.2		
5	179.8	1388.3	2.1	1386.2	8.7	1379.6		
6	182.8	1388.5	2.2	1386.3	9.4	1379.1		
7	185.9	1388.8	2.3	1386.5	9.9	1378.9		
8	188.9	1389.0	2.2	1386.8	10.0	1379.0		
9	192.0	1389.3	2.3	1387.0	10.3	1379.0		
10	195.0	1389.5	2.4	1387.1	10.7	1378.8		
11	198.1	1389.8	2.0	1387.8	11.4	1378.4		
12	201.1	1390.0	1.5	1388.5	11.1	1378.9		

DATA FOR SPREADS 5 TO 9 OF MAIN ROAD SPREADS

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
M	201.2	1390.0	1.5	1388.5	11.1	1378.9		
N	234.7	1393.4	.9	1392.5	7.9	1385.5		
GEO								
1	201.2	1390.0	1.5	1388.5	11.1	1378.9		
2	204.2	1390.3	.9	1389.4	10.4	1379.9		
3	207.3	1390.6	.3	1390.3	9.7	1380.9		
4	210.3	1390.9	.7	1390.2	9.5	1381.4		
5	213.4	1391.2	.3	1390.9	9.3	1381.9		
6	216.4	1391.5	.6	1390.9	9.4	1382.1		
7	219.5	1391.9	.9	1391.0	9.2	1382.7		
8	222.5	1392.2	.5	1391.7	8.8	1383.4		
9	225.6	1392.5	.3	1392.2	8.7	1383.8		
10	228.6	1392.8	.5	1392.3	8.6	1384.2		
11	231.7	1393.1	.7	1392.4	8.2	1384.9		
12	234.7	1393.4	.9	1392.5	7.9	1385.5		

DATA FOR SPREADS 5 TO 9 OF MAIN ROAD SPREADS

SPREAD + SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
0	234.7	1393.4	.9	1392.5	7.9	1385.5		
P	268.2	1395.7	1.6	1394.1	8.6	1387.1		
GEO								
1	234.7	1393.4	.9	1392.5	7.9	1385.5		
2	237.7	1393.6	1.6	1392.0	8.2	1385.4		
3	240.8	1393.8	2.4	1391.4	8.2	1385.6		
4	243.8	1394.0	2.8	1391.2	7.6	1386.4		
5	246.9	1394.2	2.7	1391.5	7.0	1387.2		
6	249.9	1394.4	2.6	1391.8	6.8	1387.6		
7	253.0	1394.7	2.6	1392.1	6.9	1387.8		
8	256.0	1394.9	2.5	1392.4	7.0	1387.9		
9	259.1	1395.1	2.4	1392.7	7.6	1387.5		
10	262.1	1395.3	2.4	1392.9	8.4	1386.9		
11	265.2	1395.5	2.0	1393.5	8.9	1386.6		
12	268.2	1395.7	1.6	1394.1	8.6	1387.1		



DATA FOR SPREADS 5 TO 9 OF MAIN ROAD SPREADS

SPREAD ! SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
Q	268.2	1395.7	1.6	1394.1	8.6	1387.1		
R	301.7	1398.2	2.0	1396.2	5.3	1392.9		
GEO								
1	268.2	1395.7	1.6	1394.1	8.6	1387.1		
2	271.2	1395.9	1.4	1394.5	8.0	1387.9		
3	274.3	1396.2	1.3	1394.9	7.4	1388.8		
4	277.3	1396.4	1.2	1395.2	6.6	1389.8		
5	280.4	1396.6	1.8	1394.8	5.5	1391.1		
6	283.4	1396.8	2.0	1394.8	4.6	1392.2		
7	286.5	1397.1	2.0	1395.1	4.0	1393.1		
8	289.5	1397.3	1.9	1395.4	4.0	1393.3		
9	292.6	1397.5	1.8	1395.7	4.5	1393.0		
10	295.6	1397.7	1.8	1395.9	5.2	1392.5		
11	298.7	1398.0	2.0	1396.0	5.7	1392.3		
12	301.7	1398.2	2.0	1396.2	5.3	1392.9		
M,	66,	0,						

DATA FOR SPREADS ON DRILL ROAD FIRST 5 OF 6 SPREADS

SPREAD S SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
A	.0	1420.9	3.9	1417.0	17.1	1403.8	
B	33.5	1417.9	4.0	1413.9	15.9	1402.0	
GEO							
1	.0	1420.9	3.9	1417.0	17.1	1403.8	
2	3.0	1420.6	4.2	1416.4	16.9	1403.7	
3	6.1	1420.4	4.7	1415.7	16.7	1403.7	
4	9.1	1420.1	4.7	1415.4	16.2	1403.9	
5	12.2	1419.8	4.7	1415.1	15.6	1404.2	
6	15.2	1419.5	5.0	1414.5	15.0	1404.5	
7	18.3	1419.3	5.0	1414.3	14.4	1404.9	
8	21.3	1419.0	4.9	1414.1	13.9	1405.1	
9	24.4	1418.7	4.6	1414.1	14.6	1404.1	
10	27.4	1418.4	4.4	1414.0	15.4	1403.0	
11	30.5	1418.2	4.2	1414.0	16.1	1402.1	
12	33.5	1417.9	4.0	1413.9	15.9	1402.0	

DATA FOR SPREADS ON DRILL ROAD FIRST 5 OF 6 SPREADS

SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
C	33.5	1417.9	4.1	1413.8	15.9	1402.0		
D	67.0	1414.9	4.0	1410.9	9.4	1405.5		
GEO								
1	33.5	1417.9	4.1	1413.8	15.9	1402.0		
2	36.5	1417.6	3.7	1413.9	16.4	1401.2		
3	39.6	1417.4	3.6	1413.8	16.5	1400.9		
4	42.6	1417.1	4.0	1413.1	14.6	1402.5		
5	45.7	1416.8	4.3	1412.5	12.5	1404.3		
6	48.7	1416.5	4.2	1412.3	10.6	1405.9		
7	51.8	1416.3	4.5	1411.8	8.7	1407.6		
8	54.8	1416.0	4.5	1411.5	7.7	1408.3		
9	57.9	1415.7	4.6	1411.1	8.1	1407.6		
10	60.9	1415.4	4.4	1411.0	8.7	1406.7		
11	64.0	1415.2	4.3	1410.9	9.1	1406.1		
12	67.0	1414.9	4.0	1410.9	9.4	1405.5		

DATA FOR SPREADS ON DRILL ROAD FIRST 5 OF 6 SPREADS

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
E	67.1	1414.9	4.0	1410.9	9.4	1405.5		
F	100.6	1412.0	3.1	1408.9	11.0	1401.0		
GEO								
1	67.1	1414.9	4.0	1410.9	9.4	1405.5		
2	70.1	1414.6	3.7	1410.9	9.9	1404.7		
3	73.2	1414.4	3.5	1410.9	10.2	1404.2		
4	76.2	1414.1	3.1	1411.0	10.0	1404.1		
5	79.3	1413.8	2.8	1411.0	10.0	1403.8		
6	82.3	1413.6	2.9	1410.7	10.0	1403.6		
7	85.4	1413.3	3.3	1410.0	9.3	1404.0		
8	88.4	1413.1	3.8	1409.3	8.3	1404.8		
9	91.5	1412.8	3.5	1409.3	7.9	1404.9		
10	94.5	1412.5	3.4	1409.1	7.9	1404.6		
11	97.6	1412.3	3.3	1409.0	8.9	1403.4		
12	100.6	1412.0	3.1	1408.9	11.0	1401.0		

DATA FOR SPREADS ON DRILL ROAD FIRST 5 OF 6 SPREADS

SPREAD & SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
G	100.6	1412.0	3.1	1408.9	11.0	1401.0		
H	134.1	1409.3	3.1	1406.2	9.2	1400.1		
GEO								
1	100.6	1412.0	3.1	1408.9	11.0	1401.0		
2	103.6	1411.8	3.3	1408.5	11.7	1400.1		
3	106.7	1411.5	3.4	1408.1	10.8	1400.7		
4	109.7	1411.3	3.6	1407.7	9.8	1401.5		
5	112.8	1411.0	3.6	1407.4	8.6	1402.4		
6	115.8	1410.8	3.8	1407.0	8.0	1402.8		
7	118.9	1410.5	3.7	1406.8	8.4	1402.1		
8	121.9	1410.3	3.5	1406.8	9.3	1401.0		
9	125.0	1410.0	3.2	1406.8	10.0	1400.0		
10	128.0	1409.8	3.2	1406.6	10.0	1399.8		
11	131.1	1409.5	3.1	1406.4	9.4	1400.1		
12	134.1	1409.3	3.1	1406.2	9.2	1400.1		

DATA FOR SPREADS ON DRILL ROAD FIRST 5 OF 6 SPREADS

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	
I	134.1	1409.3	3.1	1406.2	9.2	1400.1	
J	167.6	1405.4	2.8	1402.6	11.2	1394.2	
GEO							
1	134.1	1409.3	3.1	1406.2	9.2	1400.1	
2	137.1	1408.9	3.0	1405.9	9.4	1399.5	
3	140.2	1408.6	2.9	1405.7	10.3	1398.3	
4	143.2	1408.2	2.8	1405.4	10.7	1397.5	
5	146.3	1407.9	2.8	1405.1	10.8	1397.1	
6	149.3	1407.5	2.7	1404.8	10.7	1396.8	
7	152.4	1407.2	2.4	1404.8	10.4	1396.8	
8	155.4	1406.8	2.7	1404.1	10.1	1396.7	
9	158.5	1406.5	3.2	1403.3	10.5	1396.0	
10	161.5	1406.1	3.0	1403.1	11.0	1395.1	
11	164.6	1405.8	2.9	1402.9	11.1	1394.7	
12	167.6	1405.4	2.8	1402.6	11.2	1394.2	
M	66'	0'	0				

DATA FOR SPREADS ON DRILL ROAD LAST 5 OF 6 SPREADS

SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		L DEPTH
			DEPTH	ELEV	DEPTH	ELEV	
C	33.5	1417.9	3.6	1414.3	13.5	1404.4	
D	67.0	1414.9	4.0	1410.9	10.8	1404.1	
GEO							
1	33.5	1417.9	3.6	1414.3	13.5	1404.4	
2	36.5	1417.6	3.7	1413.9	13.4	1404.2	
3	39.6	1417.4	3.6	1413.8	13.1	1404.3	
4	42.6	1417.1	4.0	1413.1	12.7	1404.4	
5	45.7	1416.8	4.3	1412.5	12.3	1404.5	
6	48.7	1416.5	4.2	1412.3	12.0	1404.5	
7	51.8	1416.3	4.5	1411.8	11.9	1404.4	
8	54.8	1416.0	4.5	1411.5	12.0	1404.0	
9	57.9	1415.7	4.6	1411.1	12.4	1403.3	
10	60.9	1415.4	4.4	1411.0	12.6	1402.8	
11	64.0	1415.2	4.3	1410.9	12.1	1403.1	
12	67.0	1414.9	4.0	1410.9	10.8	1404.1	

DATA FOR SPREADS ON DRILL ROAD LAST 5 OF 6 SPREADS

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		DEPTH
			DEPTH	ELEV	DEPTH	ELEV	
E	67.1	1414.9	4.0	1410.9	10.8	1404.1	
F	100.6	1412.0	3.1	1408.9	10.8	1401.2	
GEO							
1	67.1	1414.9	4.0	1410.9	10.8	1404.1	
2	70.1	1414.6	3.7	1410.9	10.5	1404.1	
3	73.2	1414.4	3.5	1410.9	11.4	1403.0	
4	76.2	1414.1	3.1	1411.0	11.5	1402.6	
5	79.3	1413.8	2.8	1411.0	10.8	1403.0	
6	82.3	1413.6	2.9	1410.7	10.2	1403.4	
7	85.4	1413.3	3.3	1410.0	9.1	1404.2	
8	88.4	1413.1	3.8	1409.3	8.1	1405.0	
9	91.5	1412.8	3.5	1409.3	7.6	1405.2	
10	94.5	1412.5	3.4	1409.1	7.5	1405.0	
11	97.6	1412.3	3.3	1409.0	8.6	1403.7	
12	100.6	1412.0	3.1	1408.9	10.8	1401.2	



DATA FOR SPREADS ON DRILL ROAD LAST 5 OF 6 SPREADS

SPREAD & SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
G	100.6	1412.0	3.1	1408.9	10.8	1401.2	
H	134.1	1409.3	3.1	1406.2	9.5	1399.8	
GEO							
1	100.6	1412.0	3.1	1408.9	10.8	1401.2	
2	103.6	1411.8	3.3	1408.5	11.5	1400.3	
3	106.7	1411.5	3.4	1408.1	10.6	1400.9	
4	109.7	1411.3	3.6	1407.7	9.7	1401.6	
5	112.8	1411.0	3.6	1407.4	8.4	1402.6	
6	115.8	1410.8	3.8	1407.0	7.9	1402.9	
7	118.9	1410.5	3.7	1406.8	8.3	1402.2	
8	121.9	1410.3	3.5	1406.8	9.2	1401.1	
9	125.0	1410.0	3.2	1406.8	9.9	1400.1	
10	128.0	1409.8	3.2	1406.6	10.0	1399.8	
11	131.1	1409.5	3.1	1406.4	9.4	1400.1	
12	134.1	1409.3	3.1	1406.2	9.5	1399.8	

DATA FOR SPREADS ON DRILL ROAD LAST 5 OF 6 SPREADS

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LA
			DEPTH	ELEV	DEPTH	ELEV	
I	134.1	1409.3	3.1	1406.2	9.5	1399.8	
J	167.6	1405.4	2.8	1402.6	9.2	1396.2	
<u>GEO</u>							
1	134.1	1409.3	3.1	1406.2	9.5	1399.8	
2	137.1	1408.9	3.0	1405.9	10.0	1398.9	
3	140.2	1408.6	2.9	1405.7	10.6	1398.0	
4	143.2	1408.2	2.8	1405.4	10.9	1397.3	
5	146.3	1407.9	2.8	1405.1	11.1	1396.8	
6	149.3	1407.5	2.7	1404.8	10.8	1396.7	
7	152.4	1407.2	2.4	1404.8	10.0	1397.2	
8	155.4	1406.8	2.7	1404.1	9.3	1397.5	
9	158.5	1406.5	3.2	1403.3	9.6	1396.9	
10	161.5	1406.1	3.0	1403.1	10.4	1395.7	
11	164.6	1405.8	2.9	1402.9	10.3	1395.5	
12	167.6	1405.4	2.8	1402.6	9.2	1396.2	

DATA FOR SPREADS ON DRILL ROAD LAST 5 OF 6 SPREADS

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	
K	167.6	1405.4	2.8	1402.6	9.2	1396.2	
L	201.1	1400.1	2.5	1397.6	10.1	1390.0	
GEO							
1	167.6	1405.4	2.8	1402.6	9.2	1396.2	
2	170.6	1404.9	2.7	1402.2	8.5	1396.4	
3	173.7	1404.4	2.7	1401.7	8.6	1395.8	
4	176.7	1404.0	2.7	1401.3	9.0	1395.0	
5	179.8	1403.5	2.7	1400.8	9.2	1394.3	
6	182.8	1403.0	2.8	1400.2	9.4	1393.6	
7	185.9	1402.5	2.9	1399.6	9.7	1392.8	
8	188.9	1402.0	2.8	1399.2	9.8	1392.2	
9	192.0	1401.5	2.9	1398.6	9.8	1391.7	
10	195.0	1401.1	2.8	1398.3	9.8	1391.3	
11	198.1	1400.6	2.7	1397.9	10.0	1390.6	
12	201.1	1400.1	2.5	1397.6	10.1	1390.0	
M,	66,	0,					

DATA FOR SPREADS ON LOWER ROAD 4 SPREADS.

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
A	.0	1401.2	3.6	1397.6	6.6	1394.6		
B	33.5	1404.6	4.3	1400.3	10.5	1394.1		
GEO								
1	.0	1401.2	3.6	1397.6	6.6	1394.6		
2	3.0	1401.5	3.7	1397.8	7.0	1394.5		
3	6.1	1401.8	3.3	1398.5	7.5	1394.3		
4	9.1	1402.1	2.9	1399.2	8.1	1394.0		
5	12.2	1402.4	2.5	1399.9	8.8	1393.6		
6	15.2	1402.7	2.7	1400.0	9.4	1393.3		
7	18.3	1403.1	3.0	1400.1	9.7	1393.4		
8	21.3	1403.4	3.2	1400.2	9.8	1393.6		
9	24.4	1403.7	3.4	1400.3	10.1	1393.6		
10	27.4	1404.0	3.7	1400.3	10.6	1393.4		
11	30.5	1404.3	4.0	1400.3	10.9	1393.4		
12	33.5	1404.6	4.3	1400.3	10.5	1394.1		

DATA FOR SPREADS ON LOWER ROAD 4 SPREADS.

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
C	33.5	1404.6	4.3	1400.3	10.5	1394.1		
D	67.0	1403.3	2.5	1400.8	7.5	1395.8		
GEO								
1	33.5	1404.6	4.3	1400.3	10.5	1394.1		
2	36.5	1404.5	4.1	1400.4	9.4	1395.1		
3	39.6	1404.4	3.9	1400.5	8.3	1396.1		
4	42.6	1404.2	3.6	1400.6	8.0	1396.2		
5	45.7	1404.1	3.4	1400.7	8.6	1395.5		
6	48.7	1404.0	2.8	1401.2	9.3	1394.7		
7	51.8	1403.9	2.2	1401.7	9.6	1394.3		
8	54.8	1403.8	2.2	1401.6	9.6	1394.2		
9	57.9	1403.7	2.4	1401.3	9.4	1394.3		
10	60.9	1403.5	2.4	1401.1	8.6	1394.9		
11	64.0	1403.4	2.4	1401.0	7.8	1395.6		
12	67.0	1403.3	2.5	1400.8	7.5	1395.8		

DATA FOR SPREADS ON LOWER ROAD 4 SPREADS.

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
E	67.1	1403.3	2.5	1400.8	7.5	1395.8		
F	100.6	1401.0	.6	1400.4	9.8	1391.2		
GEO								
1	67.1	1403.3	2.5	1400.8	7.5	1395.8		
2	70.1	1403.1	2.3	1400.8	7.3	1395.8		
3	73.2	1402.9	2.2	1400.7	6.7	1396.2		
4	76.2	1402.7	2.2	1400.5	6.2	1396.5		
5	79.3	1402.5	2.2	1400.3	6.3	1396.2		
6	82.3	1402.3	2.3	1400.0	6.7	1395.6		
7	85.4	1402.0	2.2	1399.8	7.3	1394.7		
8	88.4	1401.8	2.2	1399.6	8.4	1393.4		
9	91.5	1401.6	2.2	1399.4	9.0	1392.6		
10	94.5	1401.4	2.3	1399.1	9.5	1391.9		
11	97.6	1401.2	2.3	1398.9	9.9	1391.3		
12	100.6	1401.0	.6	1400.4	9.8	1391.2		

DATA FOR SPREADS ON LOWER ROAD 4 SPREADS.

SPREAD & SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
G	100.6	1401.0	.6	1400.4	9.8	1391.2		
H	134.1	1397.9	.8	1397.1	9.8	1388.1		
GEO								
1	100.6	1401.0	.6	1400.4	9.8	1391.2		
2	103.6	1400.7	.0	1400.7	9.6	1391.1		
3	106.7	1400.4	.0	1400.4	9.5	1390.9		
4	109.7	1400.2	.0	1400.2	9.8	1390.4		
5	112.8	1399.9	.0	1399.9	10.0	1389.9		
6	115.8	1399.6	.0	1399.6	10.0	1389.6		
7	118.9	1399.3	.0	1399.3	9.7	1389.6		
8	121.9	1399.0	.5	1398.5	9.5	1389.5		
9	125.0	1398.7	.7	1398.0	9.5	1389.2		
10	128.0	1398.5	1.0	1397.5	9.9	1388.6		
11	131.1	1398.2	.9	1397.3	9.8	1388.4		
12	134.1	1397.9	.8	1397.1	9.8	1388.1		
M,	66,	0,						

DATA FOR 17-S SPREAD 3 SPREADS

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
A	.0	1413.2	1.3	1411.9	11.9	1401.3		
B	33.5	1410.5	3.1	1407.4	9.3	1401.2		
GEO								
1	.0	1413.2	1.3	1411.9	11.9	1401.3		
2	3.0	1413.0	2.2	1410.8	11.3	1401.7		
3	6.1	1412.7	3.0	1409.7	9.6	1403.1		
4	9.1	1412.5	3.5	1409.0	8.3	1404.2		
5	12.2	1412.2	3.9	1408.3	7.3	1404.9		
6	15.2	1412.0	3.7	1408.3	6.9	1405.1		
7	18.3	1411.7	3.4	1408.3	7.4	1404.3		
8	21.3	1411.5	3.3	1408.2	8.5	1403.0		
9	24.4	1411.2	3.0	1408.2	9.1	1402.1		
10	27.4	1411.0	2.9	1408.1	9.4	1401.6		
11	30.5	1410.7	2.9	1407.8	9.4	1401.3		
12	33.5	1410.5	3.1	1407.4	9.3	1401.2		



DATA FOR 17-S SPREAD 3 SPREADS

SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
C	33.5	1410.5	3.1	1407.4	9.3	1401.2		
D	67.0	1406.5	1.2	1405.3	13.7	1392.8		
GEO								
1	33.5	1410.5	3.1	1407.4	9.3	1401.2		
2	36.5	1410.1	3.1	1407.0	8.9	1401.2		
3	39.6	1409.8	3.1	1406.7	8.9	1400.9		
4	42.6	1409.4	3.1	1406.3	9.3	1400.1		
5	45.7	1409.0	3.2	1405.8	10.2	1398.8		
6	48.7	1408.7	2.9	1405.8	11.3	1397.4		
7	51.8	1408.3	2.7	1405.6	12.2	1396.1		
8	54.8	1408.0	2.5	1405.5	13.3	1394.7		
9	57.9	1407.6	1.1	1406.5	14.2	1393.4		
10	60.9	1407.2	1.1	1406.1	14.5	1392.7		
11	64.0	1406.9	.9	1406.0	14.2	1392.7		
12	67.0	1406.5	1.2	1405.3	13.7	1392.8		

DATA FOR 17-S SPREAD 3 SPREADS

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
E	67.1	1406.5	1.3	1405.2	13.7	1392.8		
F	100.6	1402.3	2.7	1399.6	9.7	1392.6		
GEO								
1	67.1	1406.5	1.3	1405.2	13.7	1392.8		
2	70.1	1406.1	2.0	1404.1	13.3	1392.8		
3	73.2	1405.7	2.8	1402.9	12.8	1392.9		
4	76.2	1405.4	2.7	1402.7	12.2	1393.2		
5	79.3	1405.0	2.5	1402.5	11.6	1393.4		
6	82.3	1404.6	2.7	1401.9	11.0	1393.6		
7	85.4	1404.2	2.8	1401.4	10.3	1393.9		
8	88.4	1403.8	2.7	1401.1	9.9	1393.9		
9	91.5	1403.4	2.7	1400.7	9.7	1393.7		
10	94.5	1403.1	2.7	1400.4	9.9	1393.2		
11	97.6	1402.7	2.7	1400.0	10.2	1392.5		
12	100.6	1402.3	2.7	1399.6	9.7	1392.6		
M,	66,	0,						

DATA FOR LINE 1+80E 1 SPREAD

SPREAD S SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER		DEPTH	EL
			DEPTH	ELEV	DEPTH	ELEV		
A	.0	1400.0	3.3	1396.7				
B	33.5	1400.0	2.5	1397.5				
GEO								
1	.0	1400.0	3.3	1396.7				
2	3.0	1400.0	3.3	1396.7				
3	6.1	1400.0	3.2	1396.8				
4	9.1	1400.0	3.2	1396.8				
5	12.2	1400.0	2.9	1397.1				
6	15.2	1400.0	2.8	1397.2				
7	18.3	1400.0	2.8	1397.2				
8	21.3	1400.0	2.6	1397.4				
9	24.4	1400.0	2.6	1397.4				
10	27.4	1400.0	2.4	1397.6				
11	30.5	1400.0	2.7	1397.3				
12	33.5	1400.0	2.5	1397.5				
M,	66,	0,	0					

DATA FOR FIRST 5 OF 6 SPREADS ON DS1

SPREAD S SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
A	.0	1318.7	.8	1317.9	10.2	1308.5	
B	33.5	1321.5	.3	1321.2	7.3	1314.2	
GEO							
1	.0	1318.7	.8	1317.9	10.2	1308.5	
2	3.0	1319.0	.9	1318.1	9.9	1309.1	
3	6.1	1319.2	1.0	1318.2	10.0	1309.2	
4	9.1	1319.5	1.0	1318.5	9.9	1309.6	
5	12.2	1319.7	1.2	1318.5	9.6	1310.1	
6	15.2	1320.0	.8	1319.2	9.3	1310.7	
7	18.3	1320.2	.1	1320.1	8.9	1311.3	
8	21.3	1320.5	.0	1320.5	8.5	1312.0	
9	24.4	1320.7	.0	1320.7	8.1	1312.6	
10	27.4	1321.0	.0	1321.0	7.7	1313.3	
11	30.5	1321.2	.0	1321.2	7.3	1313.9	
12	33.5	1321.5	.3	1321.2	7.3	1314.2	

DATA FOR FIRST 5 OF 6 SPREADS ON DS1

SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	
C	33.5	1321.5	.3	1321.2	7.3	1314.2	
D	67.0	1323.9	.9	1323.0	9.7	1314.2	
GEO							
1	33.5	1321.5	.3	1321.2	7.3	1314.2	
2	36.5	1321.7	.5	1321.2	7.5	1314.2	
3	39.6	1321.9	1.4	1320.5	7.4	1314.5	
4	42.6	1322.2	1.4	1320.8	7.4	1314.8	
5	45.7	1322.4	1.6	1320.8	7.3	1315.1	
6	48.7	1322.6	1.4	1321.2	7.7	1314.9	
7	51.8	1322.8	.7	1322.1	8.5	1314.3	
8	54.8	1323.0	.3	1322.7	9.1	1313.9	
9	57.9	1323.2	.5	1322.7	9.4	1313.8	
10	60.9	1323.5	1.2	1322.3	9.7	1313.8	
11	64.0	1323.7	1.0	1322.7	9.6	1314.1	
12	67.0	1323.9	.9	1323.0	9.7	1314.2	

DATA FOR FIRST 5 OF 6 SPREADS ON DS1

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
E	67.1	1323.9	.9	1323.0	9.7	1314.2	
F	100.6	1325.0	1.0	1324.0	11.1	1313.9	
GEO							
1	67.1	1323.9	.9	1323.0	9.7	1314.2	
2	70.1	1324.0	1.1	1322.9	10.0	1314.0	
3	73.2	1324.1	1.4	1322.7	10.3	1313.8	
4	76.2	1324.2	1.2	1323.0	10.6	1313.6	
5	79.3	1324.3	1.6	1322.7	10.8	1313.5	
6	82.3	1324.4	2.0	1322.4	11.0	1313.4	
7	85.4	1324.5	2.0	1322.5	11.2	1313.3	
8	88.4	1324.6	1.4	1323.2	11.7	1312.9	
9	91.5	1324.7	1.1	1323.6	12.6	1312.1	
10	94.5	1324.8	1.2	1323.6	12.6	1312.2	
11	97.6	1324.9	1.1	1323.8	11.9	1313.0	
12	100.6	1325.0	1.0	1324.0	11.1	1313.9	

DATA FOR FIRST 5 OF 6 SPREADS ON DS1

SPREAD & SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	
G	100.6	1325.0	1.0	1324.0	11.1	1313.9	
H	134.1	1324.6	1.0	1323.6	6.8	1317.8	
GEO							
1	100.6	1325.0	1.0	1324.0	11.1	1313.9	
2	103.6	1325.0	1.3	1323.7	10.3	1314.7	
3	106.7	1324.9	1.3	1323.6	9.4	1315.5	
4	109.7	1324.9	1.1	1323.8	8.5	1316.4	
5	112.8	1324.9	.1	1324.8	7.8	1317.1	
6	115.8	1324.8	1.0	1323.8	7.1	1317.7	
7	118.9	1324.8	1.2	1323.6	6.4	1318.4	
8	121.9	1324.7	.7	1324.0	5.6	1319.1	
9	125.0	1324.7	.9	1323.8	5.1	1319.6	
10	128.0	1324.7	1.1	1323.6	4.9	1319.8	
11	131.1	1324.6	1.0	1323.6	5.4	1319.2	
12	134.1	1324.6	1.0	1323.6	6.8	1317.8	

DATA FOR FIRST 5 OF 6 SPREADS ON US1

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
I	134.1	1324.6	1.0	1323.6	6.8	1317.8	
J	167.6	1321.7	2.1	1319.6	10.8	1310.9	
GEO							
1	134.1	1324.6	1.0	1323.6	6.8	1317.8	
2	137.1	1324.3	1.2	1323.1	7.6	1316.7	
3	140.2	1324.1	1.5	1322.6	7.9	1316.2	
4	143.2	1323.8	1.6	1322.2	7.6	1316.2	
5	146.3	1323.5	2.1	1321.4	7.2	1316.3	
6	149.4	1323.3	2.1	1321.2	7.4	1315.9	
7	152.4	1323.0	2.1	1320.9	7.9	1315.1	
8	155.4	1322.8	2.4	1320.4	8.8	1314.0	
9	158.5	1322.5	2.0	1320.5	9.8	1312.7	
10	161.5	1322.2	2.2	1320.0	10.1	1312.1	
11	164.6	1322.0	2.2	1319.8	10.5	1311.5	
12	167.6	1321.7	2.1	1319.6	10.8	1310.9	
M.	66, 0'	0					



DATA FOR LAST 5 OF 6 SPREADS ON DS1

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
C	33.5	1321.5	.8	1320.7	7.9	1313.6	
D	67.0	1323.9	.9	1323.0	9.2	1314.7	
GEO							
1	33.5	1321.5	.8	1320.7	7.9	1313.6	
2	36.5	1321.7	.9	1320.8	8.3	1313.4	
3	39.6	1321.9	1.1	1320.8	8.5	1313.4	
4	42.6	1322.2	1.0	1321.2	8.5	1313.7	
5	45.7	1322.4	1.2	1321.2	7.9	1314.5	
6	48.7	1322.6	1.2	1321.4	7.5	1315.1	
7	51.8	1322.8	.7	1322.1	7.5	1315.3	
8	54.8	1323.0	.4	1322.6	7.8	1315.2	
9	57.9	1323.2	.6	1322.6	8.1	1315.1	
10	60.9	1323.5	1.2	1322.3	8.5	1315.0	
11	64.0	1323.7	1.0	1322.7	8.8	1314.9	
12	67.0	1323.9	.9	1323.0	9.2	1314.7	

DATA FOR LAST 5 OF 6 SPREADS ON DS1

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
E	67.1	1323.9	.8	1323.1	9.2	1314.7	
F	100.6	1325.0	1.0	1324.0	12.4	1312.6	
GEO							
1	67.1	1323.9	.8	1323.1	9.2	1314.7	
2	70.1	1324.0	1.1	1322.9	9.5	1314.5	
3	73.2	1324.1	1.4	1322.7	9.8	1314.3	
4	76.2	1324.2	1.2	1323.0	10.1	1314.1	
5	79.3	1324.3	1.6	1322.7	10.5	1313.8	
6	82.3	1324.4	2.0	1322.4	10.9	1313.5	
7	85.4	1324.5	2.0	1322.5	11.2	1313.3	
8	88.4	1324.6	1.4	1323.2	11.7	1312.9	
9	91.5	1324.7	1.2	1323.5	12.1	1312.6	
10	94.5	1324.8	1.2	1323.6	12.4	1312.4	
11	97.6	1324.9	1.1	1323.8	12.6	1312.3	
12	100.6	1325.0	1.0	1324.0	12.4	1312.6	

DATA FOR LAST 5 OF 6 SPREADS ON DS1

SPREAD & SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
G	100.6	1325.0	1.0	1324.0	12.4	1312.6	
H	134.1	1324.6	1.0	1323.6	7.7	1316.9	
GEO							
1	100.6	1325.0	1.0	1324.0	12.4	1312.6	
2	103.6	1325.0	1.2	1323.8	11.6	1313.4	
3	106.7	1324.9	1.2	1323.7	10.6	1314.3	
4	109.7	1324.9	1.1	1323.8	9.8	1315.1	
5	112.8	1324.9	.1	1324.8	8.8	1316.1	
6	115.8	1324.8	1.0	1323.8	7.6	1317.2	
7	118.9	1324.8	1.2	1323.6	6.6	1318.2	
8	121.9	1324.7	.7	1324.0	5.5	1319.2	
9	125.0	1324.7	.8	1323.9	4.8	1319.9	
10	128.0	1324.7	1.0	1323.7	4.6	1320.1	
11	131.1	1324.6	1.0	1323.6	5.5	1319.1	
12	134.1	1324.6	1.0	1323.6	7.7	1316.9	

DATA FOR LAST 5 OF 6 SPREADS ON DS1

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
1	134.1	1324.6	1.1	1323.5	7.7	1316.9	
J	167.6	1321.7	.9	1320.8	9.3	1312.4	
GEO							
1	134.1	1324.6	1.1	1323.5	7.7	1316.9	
2	137.1	1324.3	1.2	1323.1	8.7	1315.6	
3	140.2	1324.1	1.4	1322.7	8.9	1315.2	
4	143.2	1323.8	1.6	1322.2	8.5	1315.3	
5	146.3	1323.5	2.1	1321.4	7.7	1315.8	
6	149.4	1323.3	2.5	1320.8	7.3	1316.0	
7	152.4	1323.0	2.8	1320.2	7.2	1315.8	
8	155.4	1322.8	2.9	1319.9	8.4	1314.4	
9	158.5	1322.5	3.0	1319.5	9.6	1312.9	
10	161.5	1322.2	2.8	1319.4	10.0	1312.2	
11	164.6	1322.0	1.9	1320.1	10.0	1312.0	
12	167.6	1321.7	.9	1320.8	9.3	1312.4	

DATA FOR LAST 5 OF 6 SPREADS ON DS1

SPREAD # SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
K	167.6	1321.7	.8	1320.9	9.3	1312.4	
L	201.1	1320.8	1.9	1318.9	14.0	1306.8	
GEO							
1	167.6	1321.7	.8	1320.9	9.3	1312.4	
2	170.6	1321.6	.8	1320.8	9.3	1312.3	
3	173.7	1321.5	.8	1320.7	9.8	1311.7	
4	176.7	1321.5	1.5	1320.0	10.4	1311.1	
5	179.8	1321.4	1.5	1319.9	10.9	1310.5	
6	182.9	1321.3	2.0	1319.3	11.4	1309.9	
7	185.9	1321.2	2.0	1319.2	11.9	1309.3	
8	188.9	1321.1	1.8	1319.3	12.4	1308.7	
9	192.0	1321.0	2.0	1319.0	12.6	1308.4	
10	195.0	1321.0	2.0	1319.0	13.1	1307.9	
11	198.1	1320.9	2.0	1318.9	13.6	1307.3	
12	200.9	1320.8	1.9	1318.9	14.0	1306.8	
M	66, 0'	0					

DATA FOR DS2 SPREADS 3 SPREADS

SPREAD S SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LA
			DEPTH	ELEV	DEPTH	ELEV	
A	.0	1319.2	.9	1318.3	12.4	1306.8	
B	33.5	1320.9	1.3	1319.6	10.1	1310.8	
GEO							
1	.0	1319.2	.9	1318.3	12.4	1306.8	
2	3.0	1319.4	1.0	1318.4	12.2	1307.2	
3	6.1	1319.5	.9	1318.6	12.0	1307.5	
4	9.1	1319.7	1.2	1318.5	11.9	1307.8	
5	12.2	1319.8	1.8	1318.0	11.5	1308.3	
6	15.2	1320.0	1.9	1318.1	11.4	1308.6	
7	18.5	1320.1	1.7	1318.4	11.3	1308.8	
8	21.3	1320.3	2.0	1318.3	11.2	1309.1	
9	24.4	1320.4	1.8	1318.6	10.7	1309.6	
10	27.4	1320.6	1.6	1319.0	10.5	1310.1	
11	30.5	1320.7	.9	1319.8	10.0	1310.7	
12	33.5	1320.9	1.3	1319.6	10.1	1310.8	

DATA FOR DS2 SPREADS 3 SPREADS

SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
C	33.5	1320.9	1.4	1319.5	10.1	1310.8	
D	67.0	1321.7	.4	1321.3	17.6	1304.1	
<u>GEO</u>							
1	33.5	1320.9	1.4	1319.5	10.1	1310.8	
2	36.5	1321.0	1.6	1319.4	10.6	1310.4	
3	39.6	1321.0	1.6	1319.4	11.3	1309.7	
4	42.6	1321.1	2.1	1319.0	12.0	1309.1	
5	45.7	1321.2	1.9	1319.3	12.9	1308.3	
6	48.7	1321.3	2.2	1319.1	13.6	1307.7	
7	51.8	1321.3	2.3	1319.0	14.3	1307.0	
8	54.8	1321.4	2.0	1319.4	14.7	1306.7	
9	57.9	1321.5	1.9	1319.6	15.5	1306.0	
10	60.9	1321.6	1.5	1320.1	16.2	1305.4	
11	64.0	1321.6	.9	1320.7	16.8	1304.8	
12	67.0	1321.7	.4	1321.3	17.6	1304.1	

DATA FOR DS2 SPREADS 3 SPREADS

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	
E	67.1	1321.7	.4	1321.3	17.6	1304.1	
F	100.6	1320.8	2.0	1318.8	23.7	1297.1	
GEO							
1	67.1	1321.7	.4	1321.3	17.6	1304.1	
2	70.1	1321.6	.3	1321.3	18.1	1303.5	
3	73.2	1321.5	.8	1320.7	18.7	1302.8	
4	76.2	1321.5	.6	1320.9	19.3	1302.2	
5	79.3	1321.4	.5	1320.9	19.8	1301.6	
6	82.3	1321.3	.6	1320.7	20.3	1301.0	
7	85.4	1321.2	.6	1320.6	20.9	1300.3	
8	88.4	1321.1	1.1	1320.0	21.4	1299.7	
9	91.5	1321.0	1.6	1319.4	22.0	1299.0	
10	94.5	1321.0	1.8	1319.2	22.6	1298.4	
11	97.6	1320.9	2.0	1318.9	23.1	1297.8	
12	100.6	1320.8	2.0	1318.8	23.7	1297.1	
M,	66,	0,					



DATA FOR DS3 3 SPREADS

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
A	.0	1316.8	1.3	1315.5	14.9	1301.9	
B	33.5	1318.5	1.0	1317.5	8.3	1310.2	
GEO							
1	.0	1316.8	1.3	1315.5	14.9	1301.9	
2	3.0	1317.0	2.0	1315.0	14.3	1302.7	
3	6.1	1317.1	1.7	1315.4	13.5	1303.6	
4	9.1	1317.3	1.4	1315.9	12.9	1304.4	
5	12.2	1317.4	1.9	1315.5	12.5	1304.9	
6	15.2	1317.6	2.4	1315.2	11.6	1306.0	
7	18.3	1317.7	2.2	1315.5	10.5	1307.2	
8	21.3	1317.9	2.1	1315.8	9.6	1308.3	
9	24.4	1318.0	1.1	1316.9	8.6	1309.4	
10	27.4	1318.2	.6	1317.6	8.1	1310.1	
11	30.5	1318.3	.8	1317.5	8.1	1310.2	
12	33.5	1318.5	1.0	1317.5	8.3	1310.2	

DATA FOR DS3 3 SPREADS

SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAY
			DEPTH	ELEV	DEPTH	ELEV	DEPTH
C	33.5	1318.5	1.0	1317.5	8.3	1310.2	
D	67.0	1320.1	.6	1319.5	9.5	1310.6	
GEO							
1	33.5	1318.5	1.0	1317.5	8.3	1310.2	
2	36.5	1318.6	1.1	1317.5	8.3	1310.3	
3	39.6	1318.8	.8	1318.0	8.5	1310.3	
4	42.6	1318.9	.7	1318.2	8.5	1310.4	
5	45.7	1319.1	.5	1318.6	8.5	1310.6	
6	48.7	1319.2	.4	1318.8	8.5	1310.7	
7	51.8	1319.4	.4	1319.0	8.5	1310.9	
8	54.8	1319.5	.6	1318.9	8.6	1310.9	
9	57.9	1319.7	.7	1319.0	8.7	1311.0	
10	60.9	1319.8	.5	1319.3	8.7	1311.1	
11	64.0	1320.0	.6	1319.4	9.1	1310.9	
12	67.0	1320.1	.6	1319.5	9.5	1310.6	

DATA FOR DS3 3 SPREADS

SPREAD \* SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4
			DEPTH	ELEV	DEPTH	ELEV	
E	67.1	1320.1	.6	1319.5	9.6	1310.5	
F	100.6	1319.2	1.5	1317.7	3.7	1315.5	
GEO							
1	67.1	1320.1	.6	1319.5	9.6	1310.5	
2	70.1	1320.0	.8	1319.2	9.8	1310.2	
3	73.2	1319.9	1.1	1318.8	10.0	1309.9	
4	76.2	1319.9	.9	1319.0	10.1	1309.8	
5	79.3	1319.8	1.0	1318.8	9.9	1309.9	
6	82.3	1319.7	1.2	1318.5	9.2	1310.5	
7	85.4	1319.6	1.3	1318.3	8.7	1310.9	
8	88.4	1319.5	1.0	1318.5	7.9	1311.6	
9	91.5	1319.4	.9	1318.5	6.6	1312.8	
10	94.5	1319.4	1.2	1318.2	5.2	1314.2	
11	97.6	1319.3	1.3	1318.0	4.3	1315.0	
12	100.6	1319.2	1.5	1317.7	3.7	1315.5	
M	66.0	0					

DATA FOR DS4 SPREADS 1 SPREAD

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
A	.0	1383.2	.5	1382.7	3.5	1379.7		
B	33.5	1384.4	1.1	1383.3	5.4	1379.0		
GEO								
1	.0	1383.2	.5	1382.7	3.5	1379.7		
2	3.0	1383.3	.4	1382.9	3.5	1379.8		
3	6.1	1383.4	.2	1383.2	3.4	1380.0		
4	9.1	1383.5	.4	1383.1	3.3	1380.2		
5	12.2	1383.6	.0	1383.6	3.4	1380.2		
6	15.2	1383.7	.0	1383.7	3.7	1380.0		
7	18.3	1383.9	.6	1383.3	4.0	1379.9		
8	21.3	1384.0	1.1	1382.9	4.2	1379.8		
9	24.4	1384.1	1.6	1382.5	4.4	1379.7		
10	27.4	1384.2	1.5	1382.7	4.9	1379.3		
11	30.5	1384.3	1.3	1383.0	5.2	1379.1		
12	33.5	1384.4	1.1	1383.3	5.4	1379.0		
M	66'	0'						

DATA FOR DSS SPREADS 1 SPREAD

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
A	.0	1339.3	2.0	1337.3	6.0	1333.3		
B	33.5	1338.5	2.3	1336.2	10.2	1328.3		
GEO								
1	.0	1339.3	2.0	1337.3	6.0	1333.3		
2	3.0	1339.2	1.9	1337.3	6.0	1333.2		
3	6.1	1339.2	2.0	1337.2	6.1	1333.1		
4	9.1	1339.1	1.9	1337.2	6.0	1333.1		
5	12.2	1339.0	1.6	1337.4	6.4	1332.6		
6	15.2	1338.9	1.5	1337.4	7.2	1331.7		
7	18.3	1338.9	1.8	1337.1	8.1	1330.8		
8	21.3	1338.8	1.9	1336.9	9.1	1329.7		
9	24.4	1338.7	2.1	1336.6	9.5	1329.2		
10	27.4	1338.6	2.2	1336.4	9.2	1329.4		
11	30.5	1338.6	2.3	1336.3	9.8	1328.8		
12	33.5	1338.5	2.3	1336.2	10.2	1328.3		
M	66	0						

DATA FOR DS6 SPREADS 2 SPREADS

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER		DEPTH	EL
			DEPTH	ELEV	DEPTH	ELEV		
A	.0	1335.0	.9	1334.1				
B	33.5	1333.4	.9	1332.5				
GEO								
1	.0	1335.0	.9	1334.1				
2	3.0	1334.9	1.2	1333.7				
3	6.1	1334.7	1.1	1333.6				
4	9.1	1334.6	.8	1333.8				
5	12.2	1334.4	.0	1334.4				
6	15.2	1334.3	.1	1334.2				
7	18.3	1334.1	.7	1333.4				
8	21.3	1334.0	.8	1333.2				
9	24.4	1333.8	.6	1333.2				
10	27.4	1333.7	.7	1333.0				
11	30.5	1333.5	.1	1333.4				
12	33.5	1333.4	.9	1332.5				

DATA FOR DS6 SPREADS 2 SPREADS

SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER		DEPTH	ELEV
			DEPTH	ELEV	DEPTH	ELEV		
C	33.5	1333.4	.9	1332.5				
D	67.0	1330.8	1.6	1329.2				
GEO								
1	33.5	1333.4	.9	1332.5				
2	36.5	1333.2	1.3	1331.9				
3	39.6	1332.9	1.4	1331.5				
4	42.6	1332.7	1.3	1331.4				
5	45.7	1332.5	1.3	1331.2				
6	48.7	1332.2	1.5	1330.7				
7	51.8	1332.0	1.6	1330.4				
8	54.8	1331.7	1.1	1330.6				
9	57.9	1331.5	1.1	1330.4				
10	60.9	1331.3	1.8	1329.5				
11	64.0	1331.0	1.8	1329.2				
12	67.0	1330.8	1.6	1329.2				
M,	66,	0,	0					

DATA FOR DS7 SPREADS 2 SPREADS

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
A	.0	1341.0	1.1	1339.9	16.5	1324.5		
B	33.5	1340.5	.0	1340.5	15.0	1325.5		
GEO								
1	.0	1341.0	1.1	1339.9	16.5	1324.5		
2	3.0	1341.0	.7	1340.3	16.4	1324.6		
3	6.1	1340.9	1.3	1339.6	16.2	1324.7		
4	9.1	1340.9	1.1	1339.8	16.1	1324.8		
5	12.2	1340.8	1.5	1339.3	15.9	1324.9		
6	15.2	1340.8	1.7	1339.1	15.8	1325.0		
7	18.3	1340.7	1.7	1339.0	15.7	1325.0		
8	21.3	1340.7	1.2	1339.5	15.6	1325.1		
9	24.4	1340.6	1.0	1339.6	15.4	1325.2		
10	27.4	1340.6	.1	1340.5	15.3	1325.3		
11	30.5	1340.5	.0	1340.5	15.1	1325.4		
12	33.5	1340.5	.0	1340.5	15.0	1325.5		



DATA FOR DS7 SPREADS 2 SPREADS

SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
C	33.5	1340.5	.0	1340.5	15.0	1325.5		
D	67.0	1340.0	2.0	1338.0	13.6	1326.4		
GEO								
1	33.5	1340.5	.0	1340.5	15.0	1325.5		
2	36.5	1340.5	.7	1339.8	14.9	1325.6		
3	39.6	1340.4	1.3	1339.1	14.8	1325.6		
4	42.6	1340.4	1.7	1338.7	14.8	1325.6		
5	45.7	1340.3	2.0	1338.3	14.6	1325.7		
6	48.7	1340.3	2.1	1338.2	14.5	1325.8		
7	51.8	1340.2	2.1	1338.1	14.3	1325.9		
8	54.8	1340.2	2.1	1338.1	14.2	1326.0		
9	57.9	1340.1	1.7	1338.4	14.0	1326.1		
10	60.9	1340.1	1.8	1338.3	13.9	1326.2		
11	64.0	1340.0	2.4	1337.6	13.7	1326.3		
12	67.0	1340.0	2.0	1338.0	13.6	1326.4		
M,	66,	0,	0					

DATA FOR SPREAD WS1

SPREAD S SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
A	.0	1269.8	2.3	1267.5	5.5	1264.3		
B	33.5	1270.4	2.3	1268.1	4.4	1266.0		
GEO								
1	.0	1269.8	2.3	1267.5	5.5	1264.3		
2	3.0	1269.9	2.3	1267.6	5.3	1264.6		
3	6.1	1269.9	2.2	1267.7	5.1	1264.8		
4	9.1	1270.0	2.2	1267.8	5.3	1264.7		
5	12.2	1270.0	2.2	1267.8	5.3	1264.7		
6	15.2	1270.1	2.2	1267.9	5.2	1264.9		
7	18.3	1270.1	2.2	1267.9	5.3	1264.8		
8	21.3	1270.2	2.3	1267.9	5.4	1264.8		
9	24.4	1270.2	2.2	1268.0	5.3	1264.9		
10	27.4	1270.3	2.3	1268.0	4.9	1265.4		
11	30.5	1270.3	2.2	1268.1	4.4	1265.9		
12	33.5	1270.4	2.3	1268.1	4.4	1266.0		
M	66'	0'						

DATA FOR WS2 1 SPREAD

SPREAD 5 SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
A	.0	1270.1	2.1	1268.0	6.2	1263.9		
B	33.5	1271.5	3.7	1267.8	5.0	1266.5		
GEO								
1	.0	1270.1	2.1	1268.0	6.2	1263.9		
2	3.0	1270.2	2.3	1267.9	7.1	1263.1		
3	6.1	1270.4	2.6	1267.8	7.9	1262.5		
4	9.1	1270.5	2.8	1267.7	7.7	1262.8		
5	12.2	1270.6	2.9	1267.7	7.3	1263.3		
6	15.2	1270.7	3.0	1267.7	6.5	1264.2		
7	18.3	1270.9	3.2	1267.7	5.1	1265.8		
8	21.3	1271.0	3.3	1267.7	3.6	1267.4		
9	24.4	1271.1	3.3	1267.8	3.3	1267.8		
10	27.4	1271.2	3.4	1267.8	4.2	1267.0		
11	30.5	1271.4	3.6	1267.8	4.7	1266.7		
12	33.5	1271.5	3.7	1267.8	5.0	1266.5		
M,	66,	0,						

DATA FOR WS3 2 SPREADS

SPREAD S SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

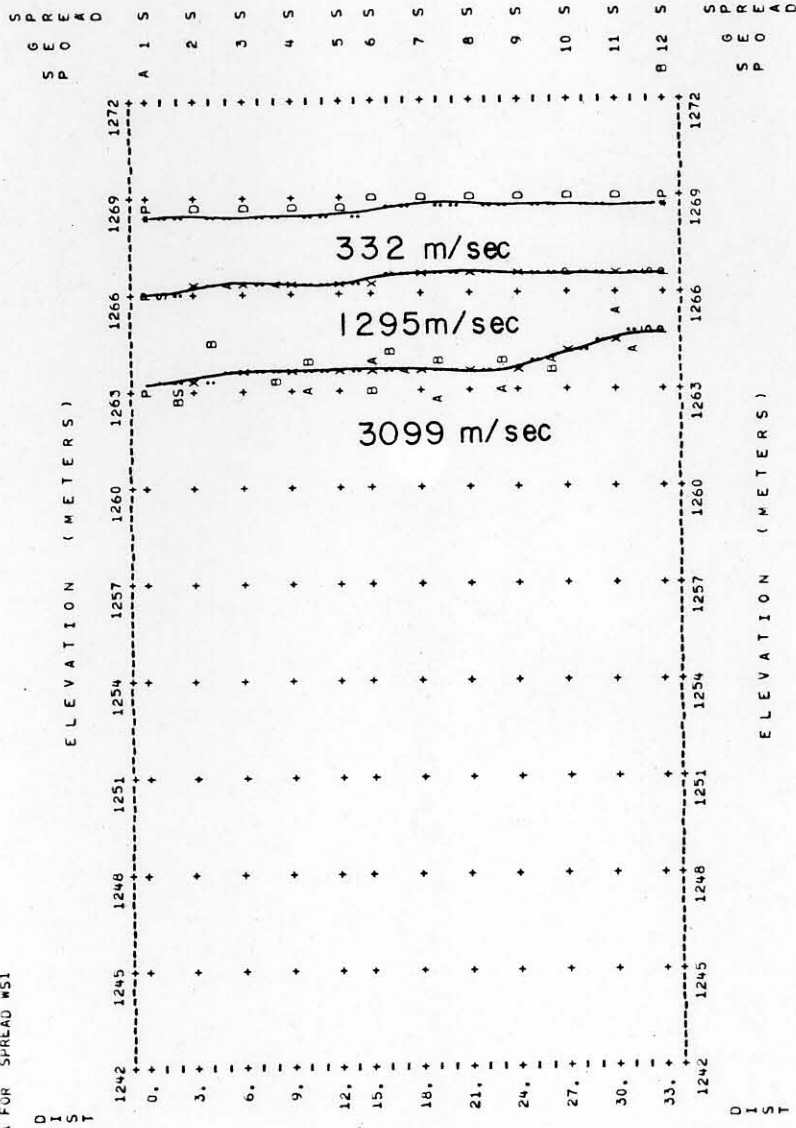
SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
A	.0	1293.3	.4	1292.9	7.5	1285.8		
B	33.5	1290.7	.8	1289.9	9.9	1280.8		
GEO								
1	.0	1293.3	.4	1292.9	7.5	1285.8		
2	3.0	1293.1	.4	1292.7	7.8	1285.3		
3	6.1	1292.8	.4	1292.4	7.5	1285.3		
4	9.1	1292.6	.5	1292.1	7.3	1285.3		
5	12.2	1292.4	.0	1292.4	7.1	1285.3		
6	15.2	1292.1	.2	1291.9	6.9	1285.2		
7	18.3	1291.9	.1	1291.8	6.9	1285.0		
8	21.3	1291.6	.4	1291.2	7.0	1284.6		
9	24.4	1291.4	.3	1291.1	7.4	1284.0		
10	27.4	1291.2	.7	1290.5	8.1	1283.1		
11	30.5	1290.9	.7	1290.2	9.0	1281.9		
12	33.5	1290.7	.8	1289.9	9.9	1280.8		

DATA FOR WS3 2 SPREADS

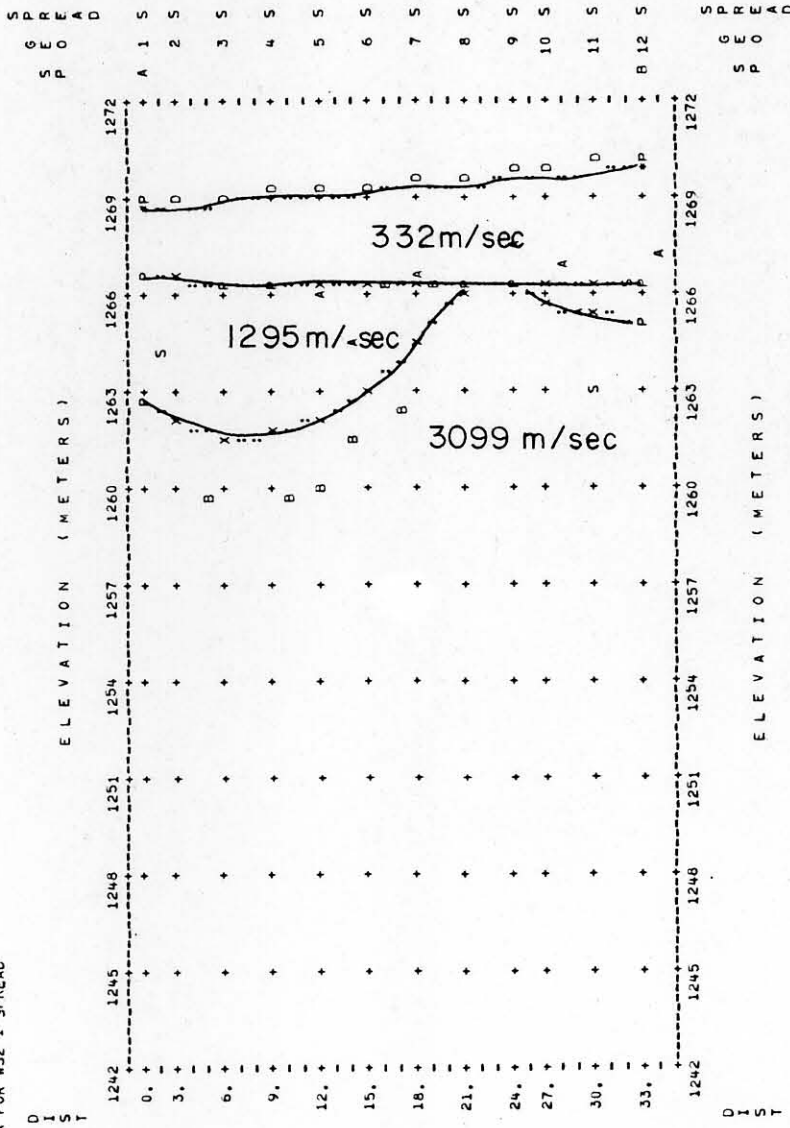
SPREAD \$ SMOOTHED POSITION OF LAYERS BENEATH SHOTPOINTS AND GEOPHONES

SP	POSITION	SURF ELEV	LAYER 2		LAYER 3		LAYER 4	
			DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
C	33.5	1290.7	.9	1289.8	9.9	1280.8		
D	67.0	1289.5	2.1	1287.4	9.5	1280.0		
GEO								
1	33.5	1290.7	.9	1289.8	9.9	1280.8		
2	36.5	1290.6	1.2	1289.4	10.7	1279.9		
3	39.6	1290.5	1.6	1288.9	11.5	1279.0		
4	42.6	1290.4	1.9	1288.5	11.1	1279.3		
5	45.7	1290.3	2.3	1288.0	10.5	1279.8		
6	48.7	1290.2	2.6	1287.6	10.1	1280.1		
7	51.8	1290.0	2.9	1287.1	9.9	1280.1		
8	54.8	1289.9	2.7	1287.2	9.8	1280.1		
9	57.9	1289.8	2.5	1287.3	9.8	1280.0		
10	60.9	1289.7	2.5	1287.2	9.7	1280.0		
11	64.0	1289.6	2.1	1287.5	9.6	1280.0		
12	67.0	1289.5	2.1	1287.4	9.5	1280.0		
M,	66,	0,	0					

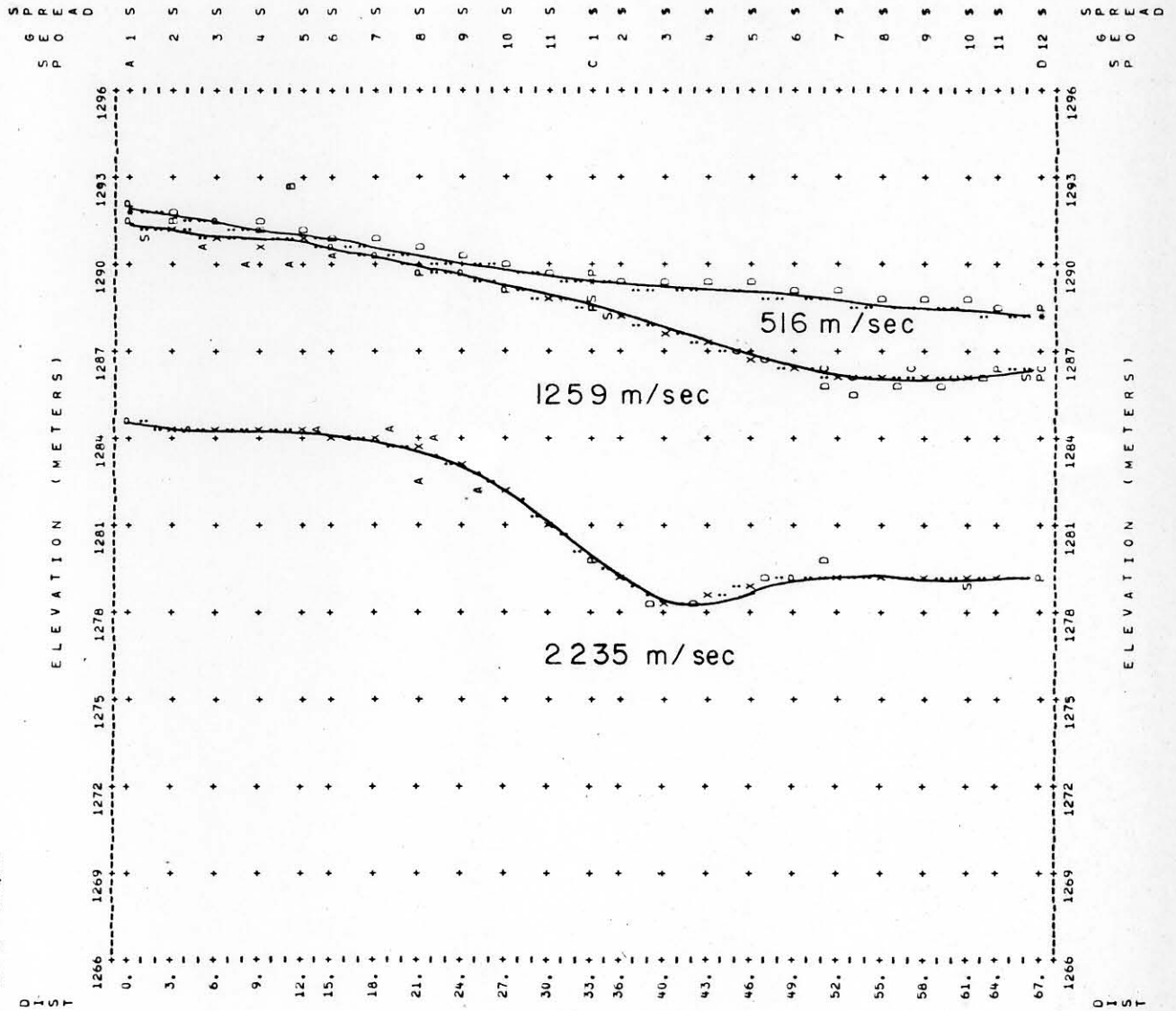
DATA FOR SPREAD #51



DATA FOR #52 1 SPREAD

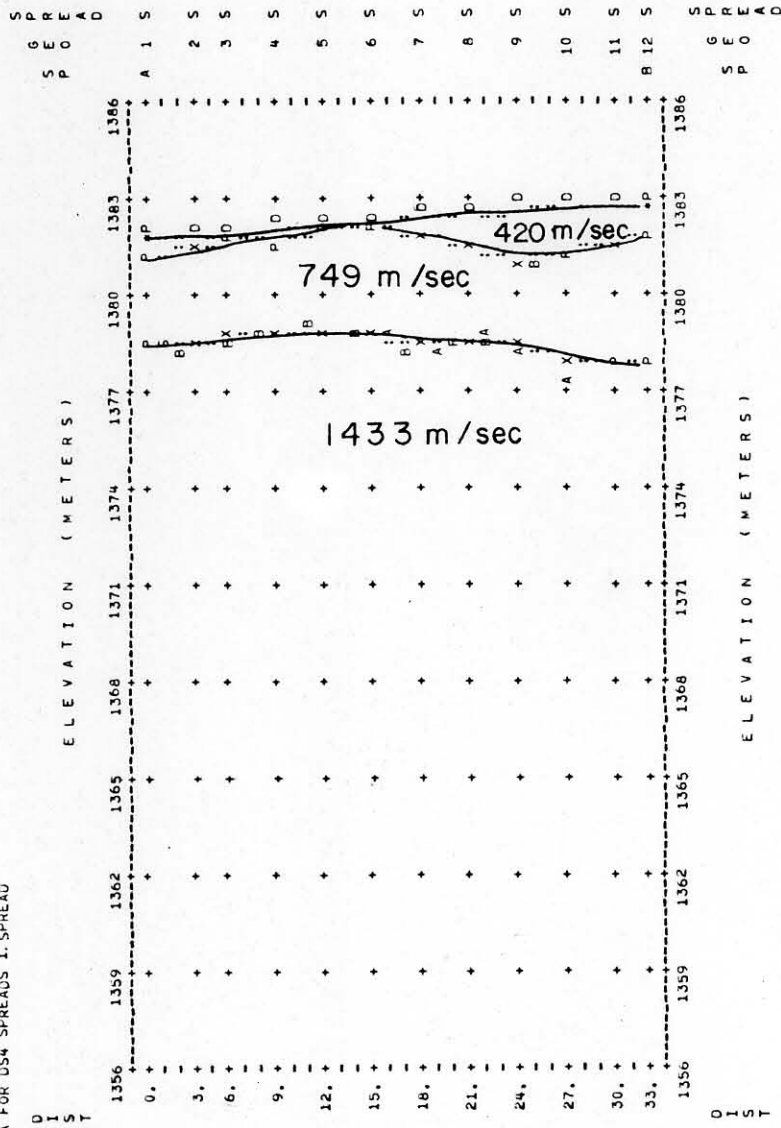


DATA FOR W53 2 SPREADS

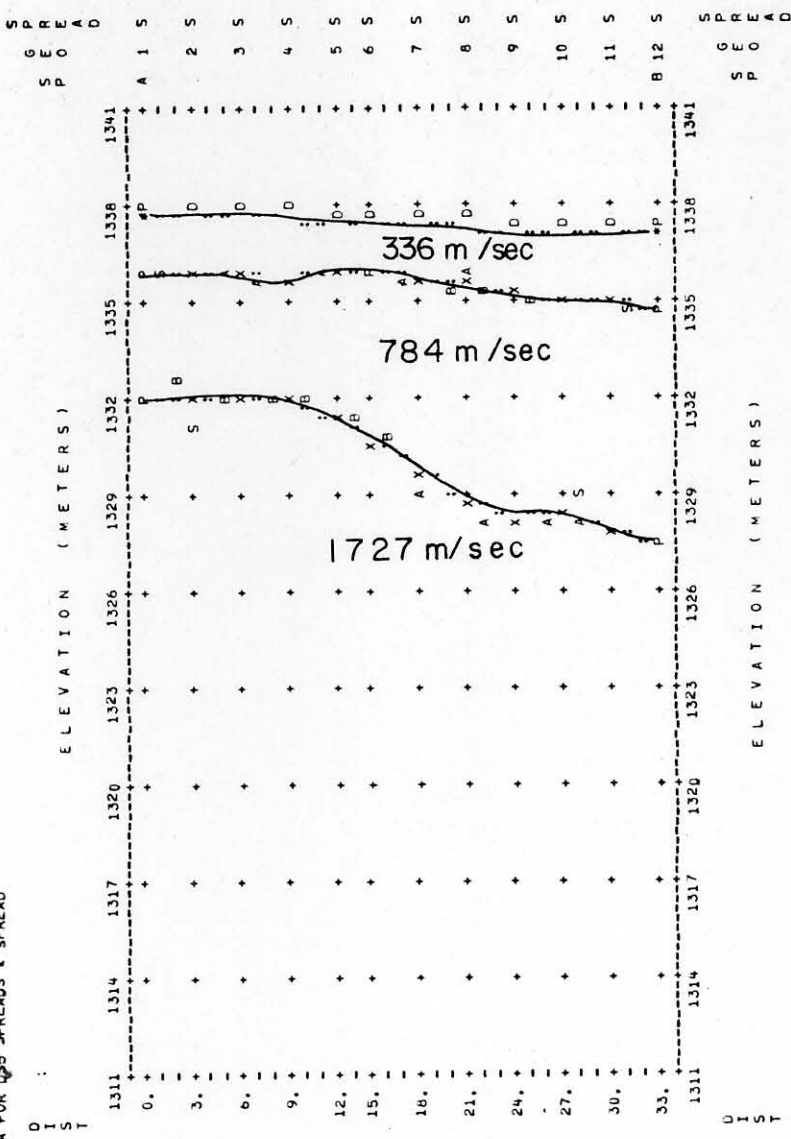




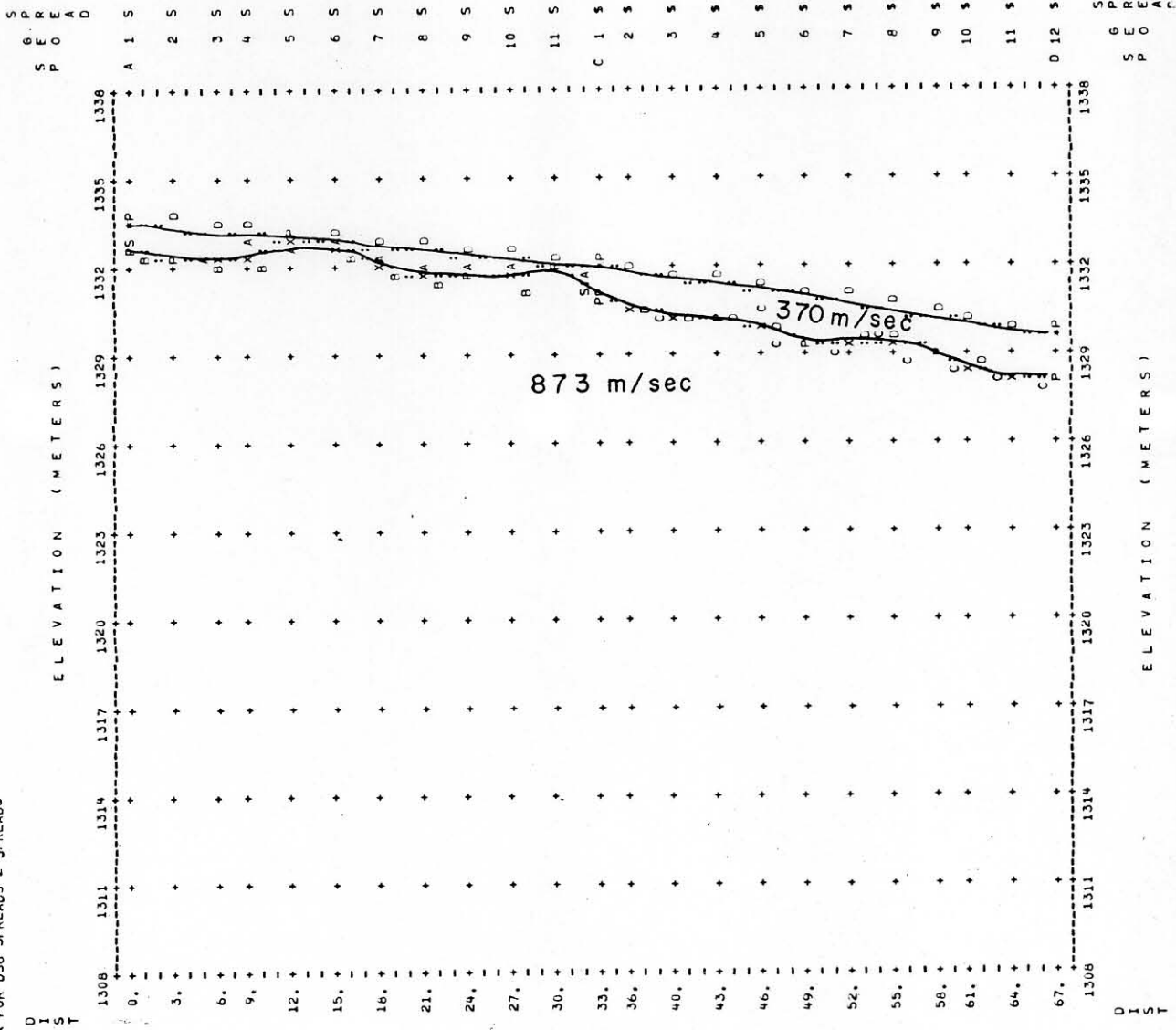
DATA FOR US4 SPREADS 1. SPREAD



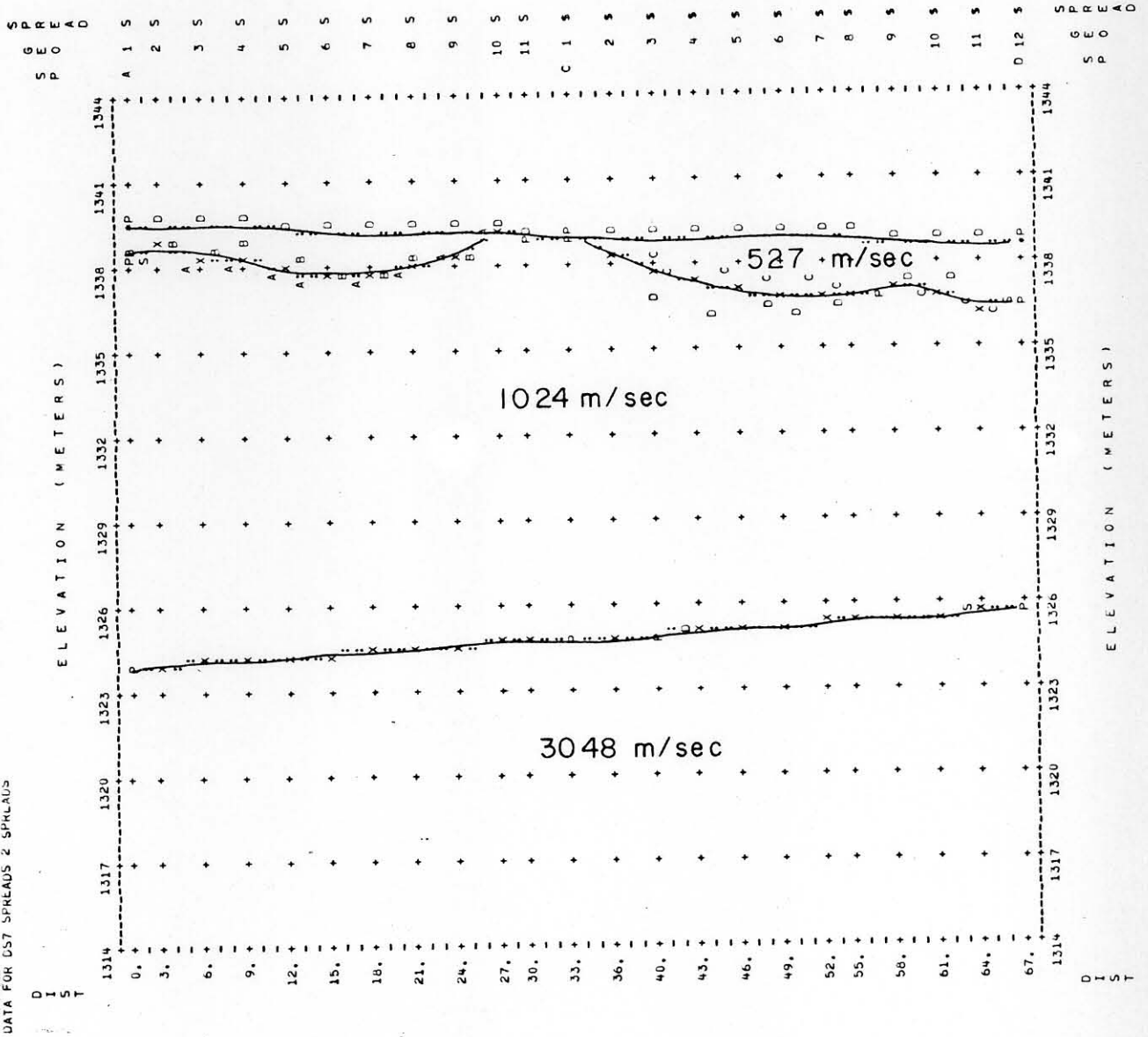
DATA FOR U25 SPREADS & SPREAD



DATA FOR USE SHREDS & SHREDS

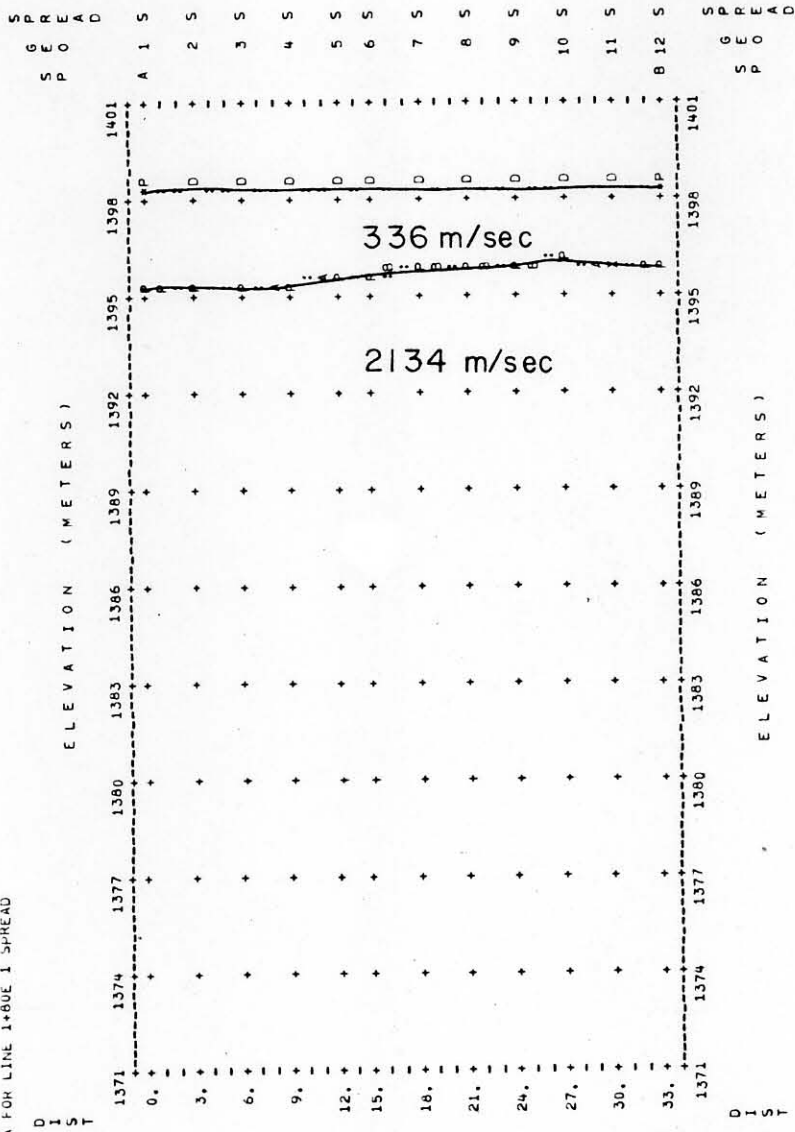


DATA FOR D57 SPREADS 2 SPHLAUS

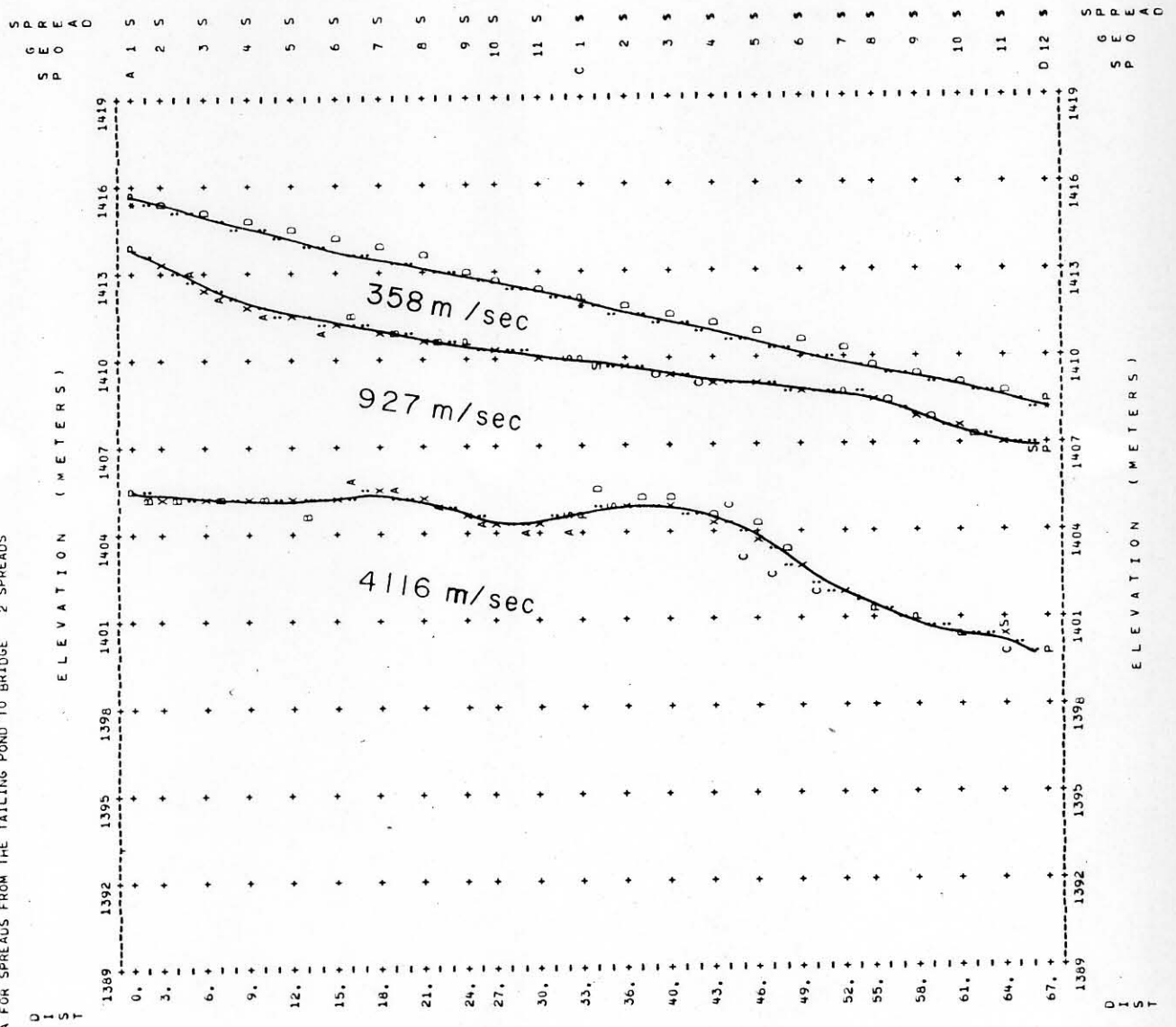


APPENDIX II

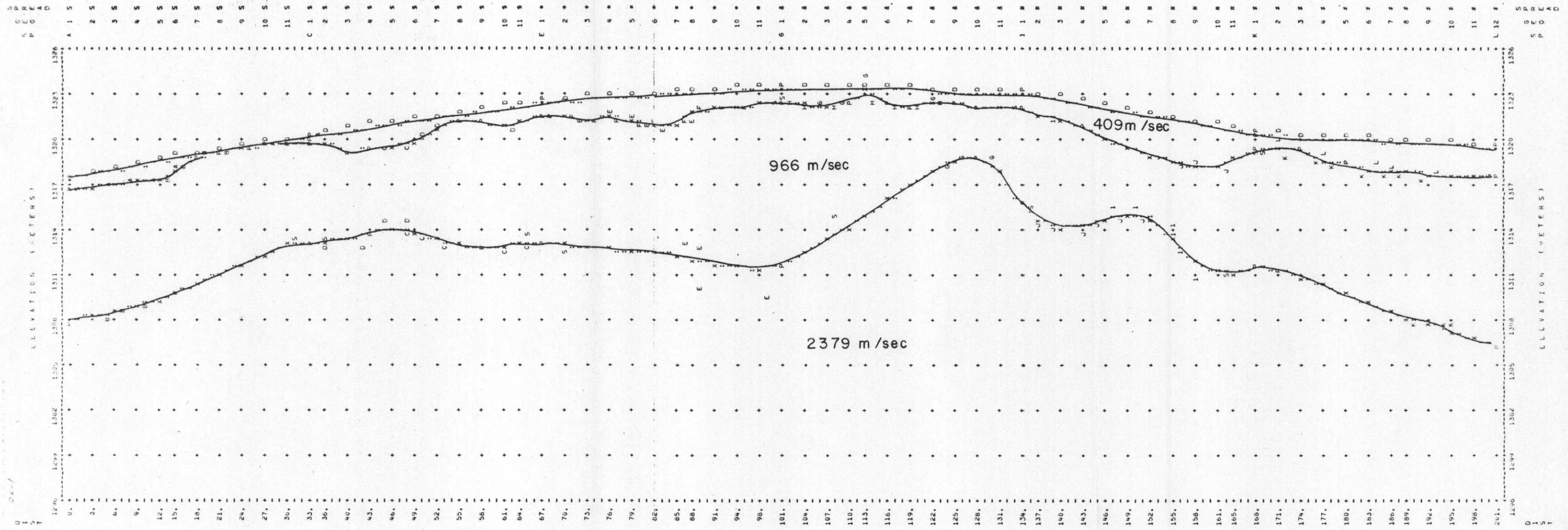
DATA FOR LINE 1+BUE 1 SPREAD



DATA FOR SPREADS FROM THE TAILING POND TO BRIDGE 2 SPREADS





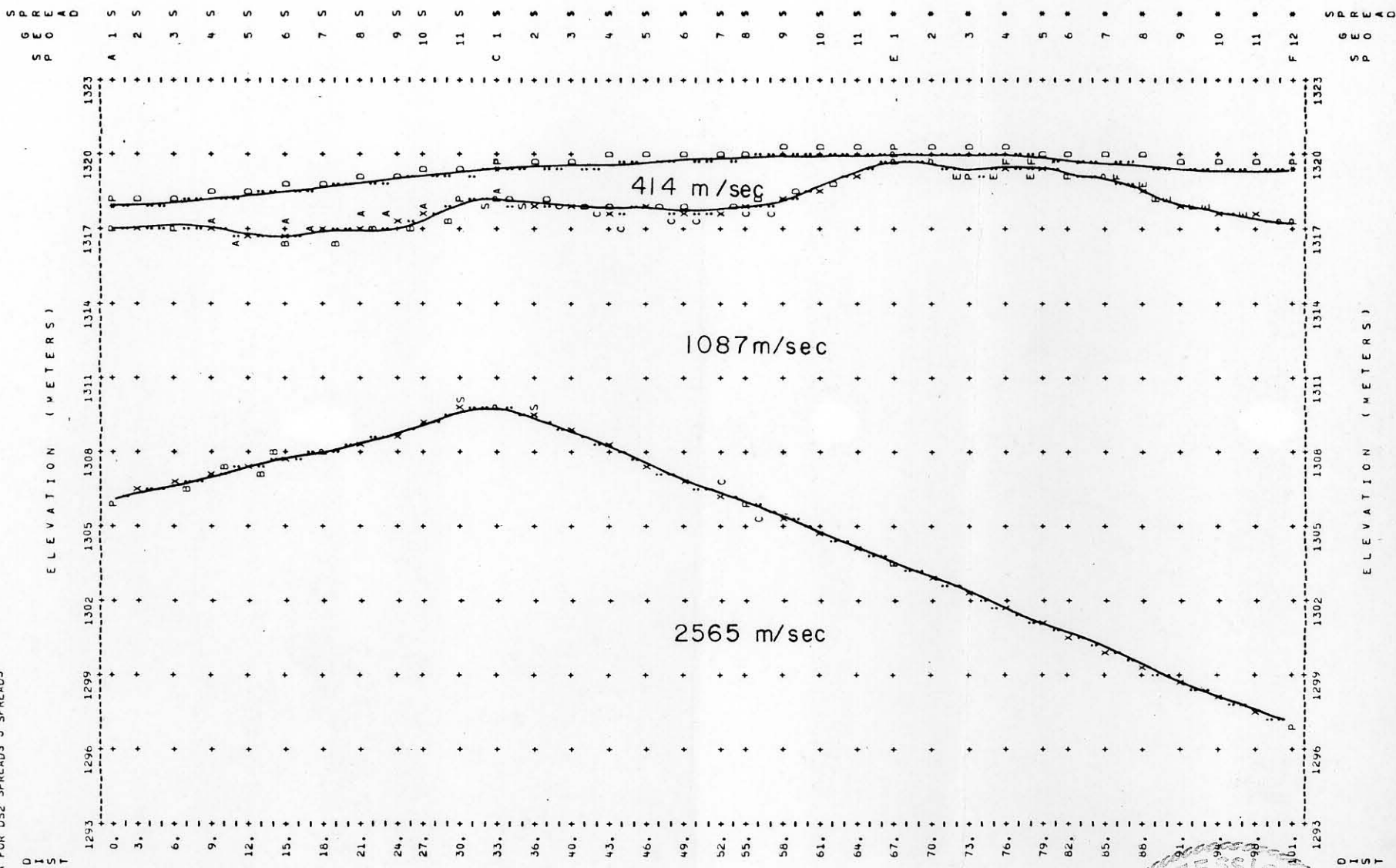


MINERAL RESOURCES BRANCH  
ASSESSMENT  
**7807**





DATA FOR US2 SPREADS 3 SPREADS

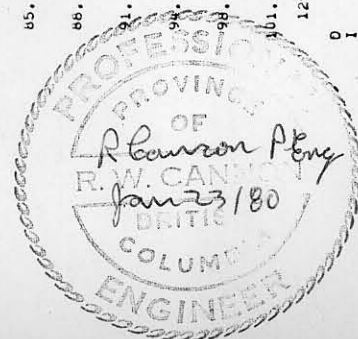


MINERAL RESOURCES DIVISION

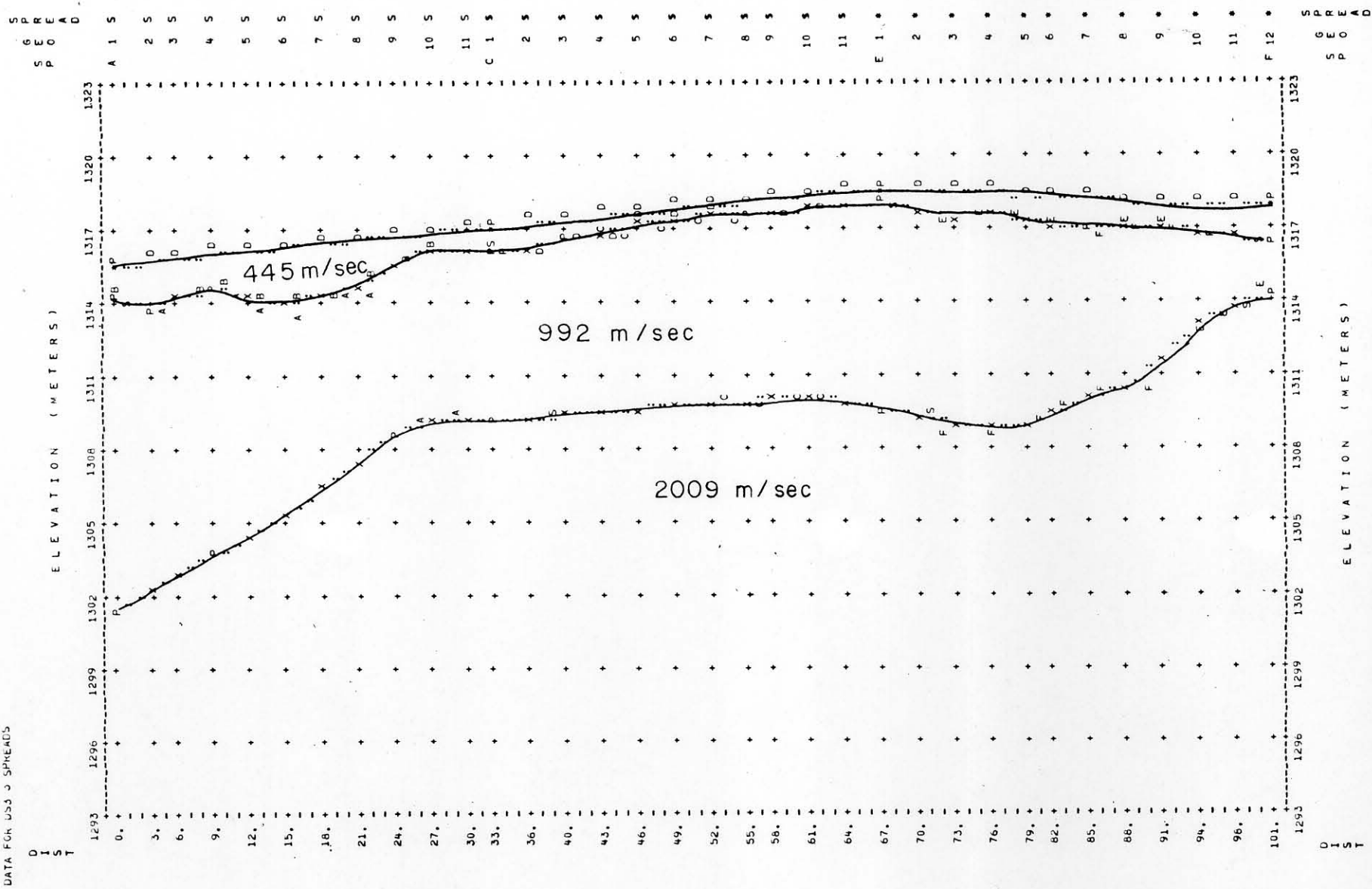
SECTION REPORT

7807

NO.



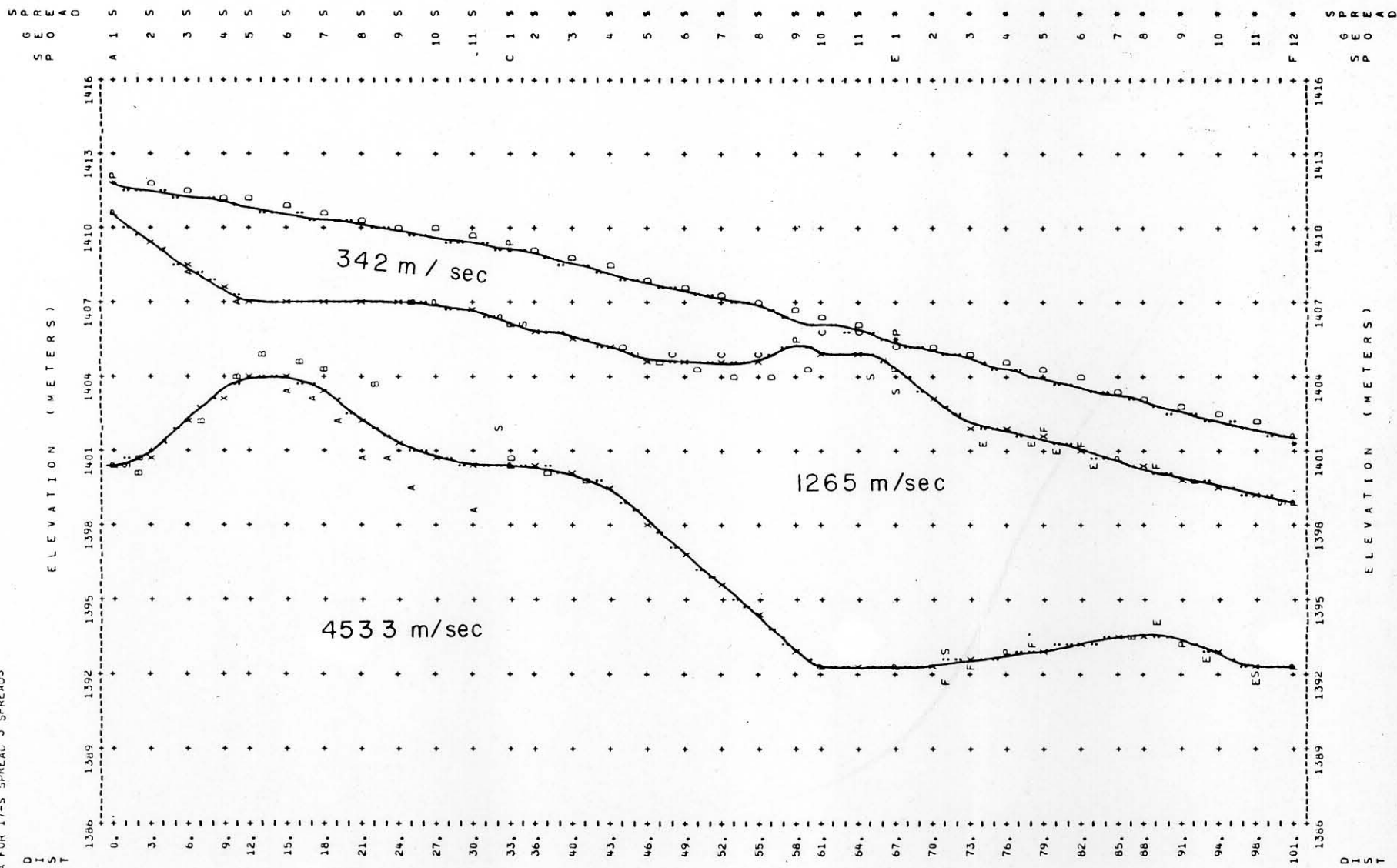
DATA FOR USS 3 SPREADS



MINER  
NO. **7807**

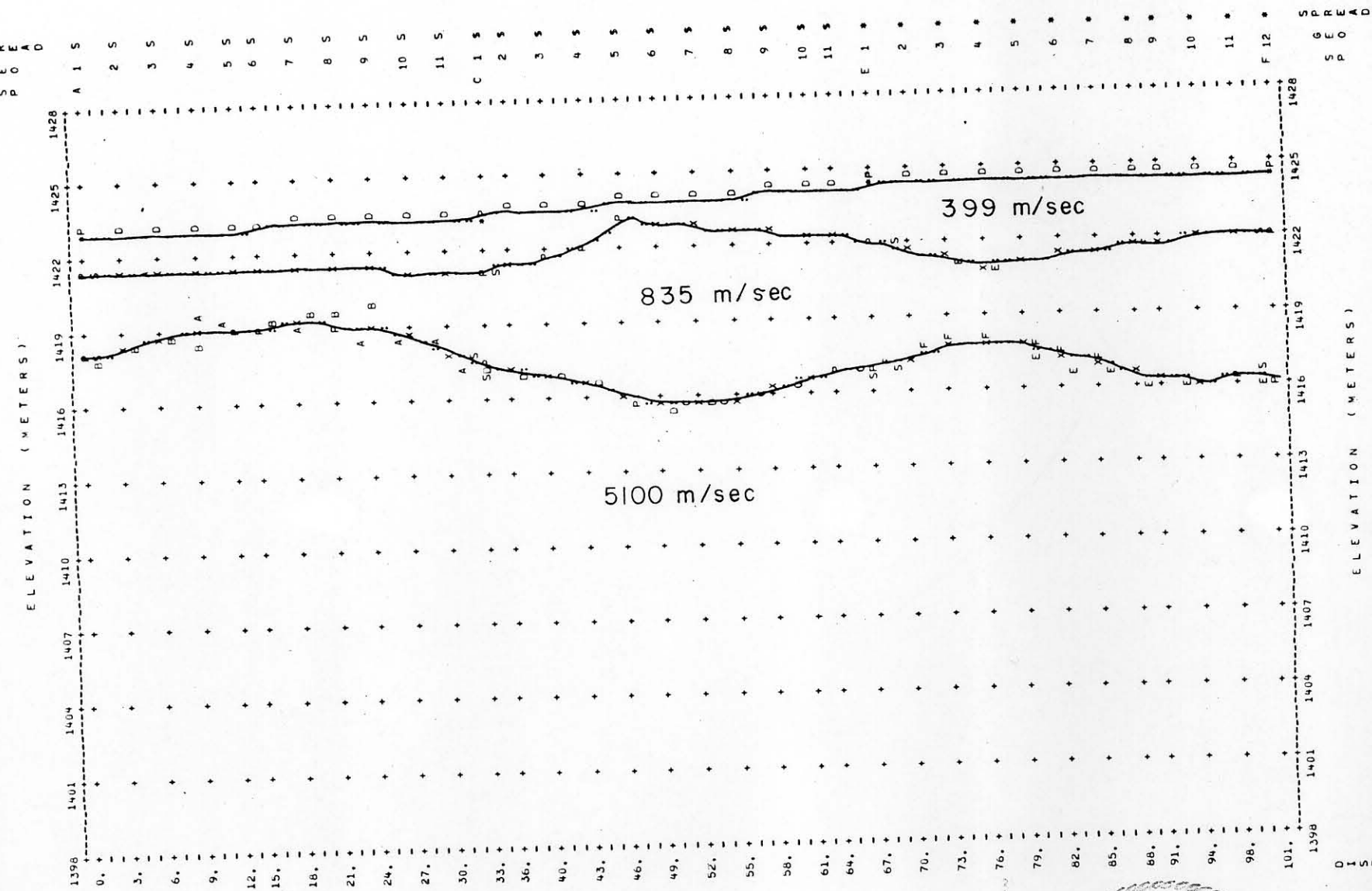


DATA FOR 17-S SPREAD 3 SPREADS

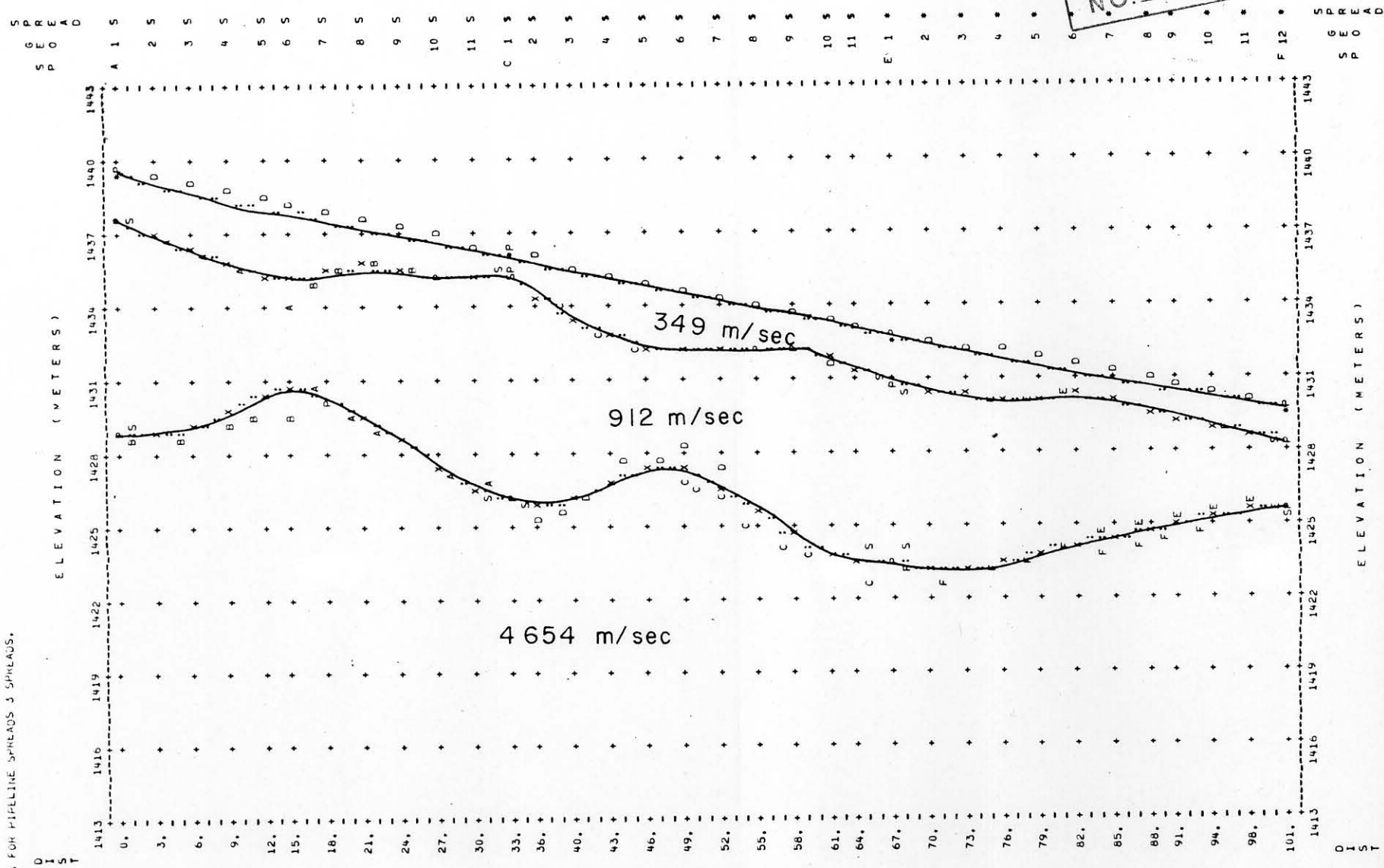


DATA FOR SPREAD 1+2+3 SPREADS

D  
I  
S  
T



DATA FOR PIPELINE SPREADS 3 SPREADS.

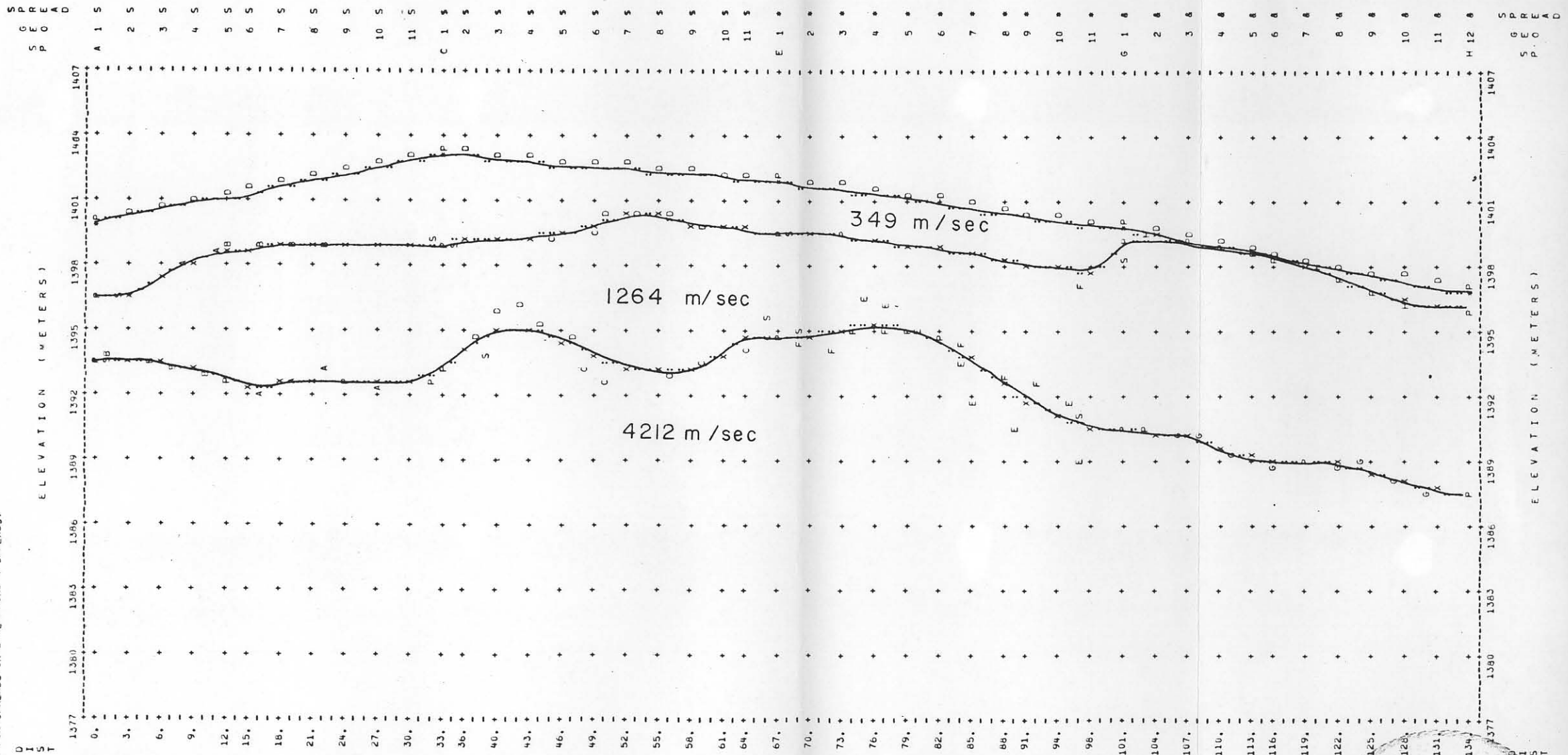


MINING  
ASSOCIATION  
NO. **7807**





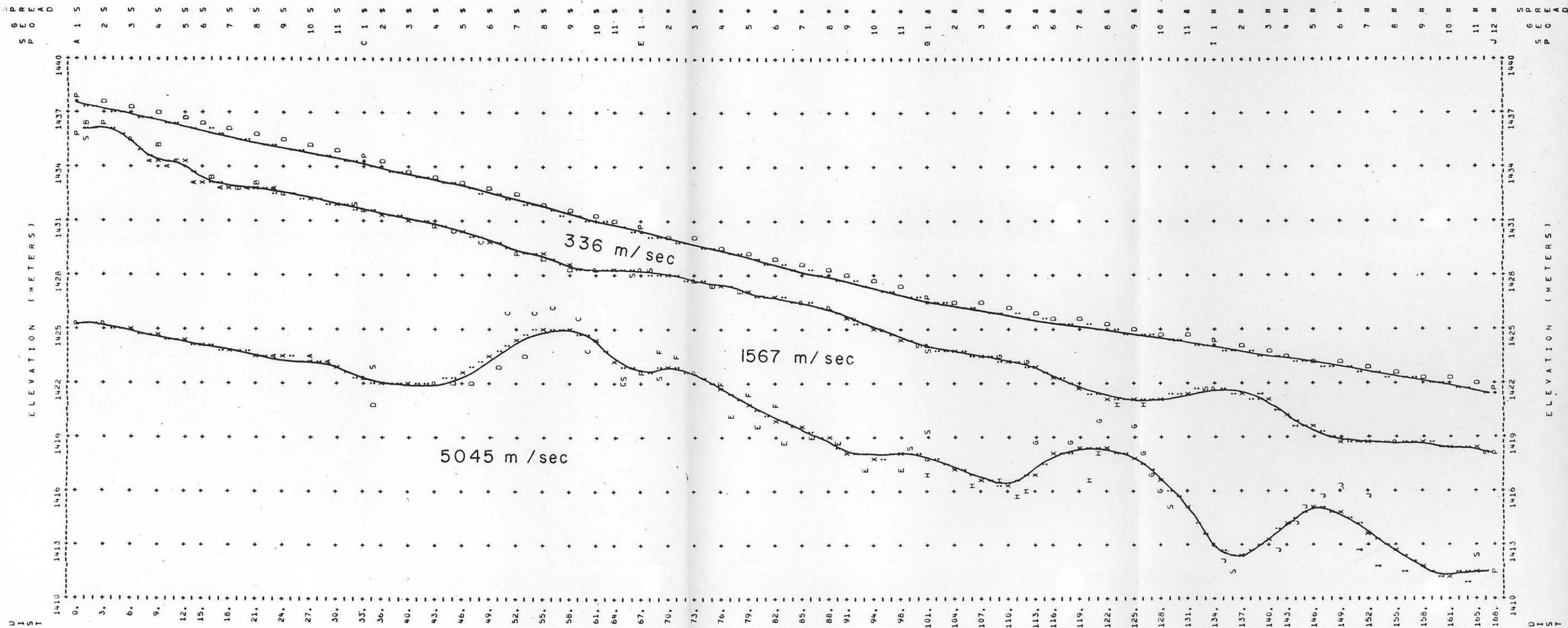
DATA FOR SPREADS ON LUGER ROAD & SPREADS.



MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
 NO. **7807**



DATA FOR BAHAK ROAD SPREADS 5 SPREADS

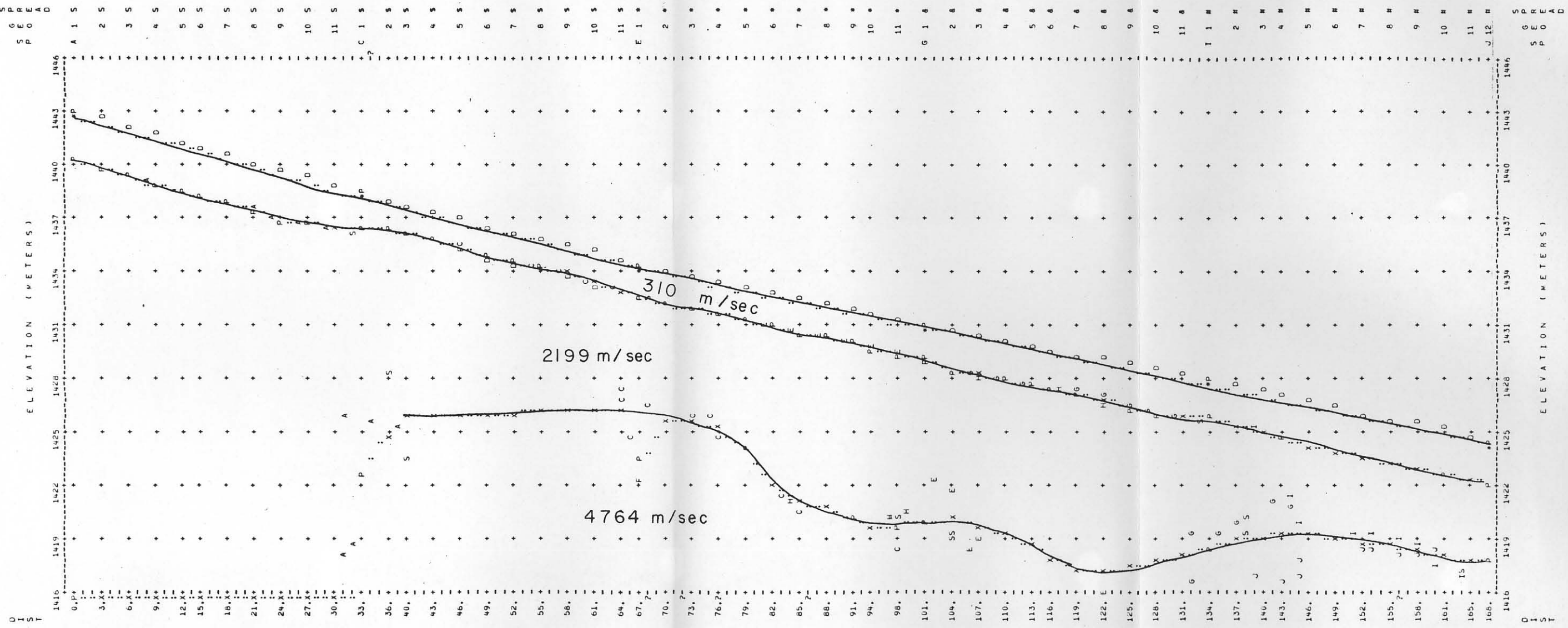


MINERAL REGRADING DIVISION  
7807  
NO.



MINERAL REVENUE BRANCH  
ASSESSMENT REPORT  
NO. **7807**

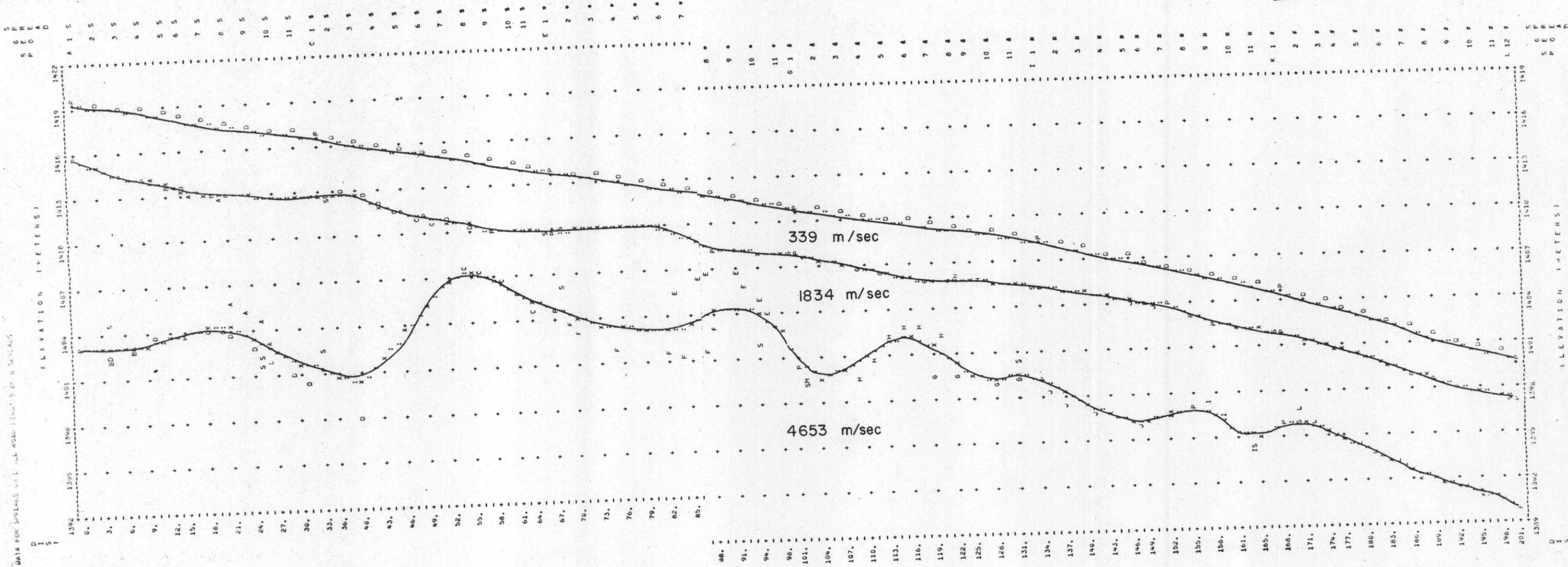
DATA FOR SPREADS ALONG TAILING ROAD 5 SPREADS



PROFESSIONAL  
ENGINEER  
OF  
COLUMBIA  
PROVINCE  
R. Cannon Pong  
Jan 23/80



MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
 NO. 7807



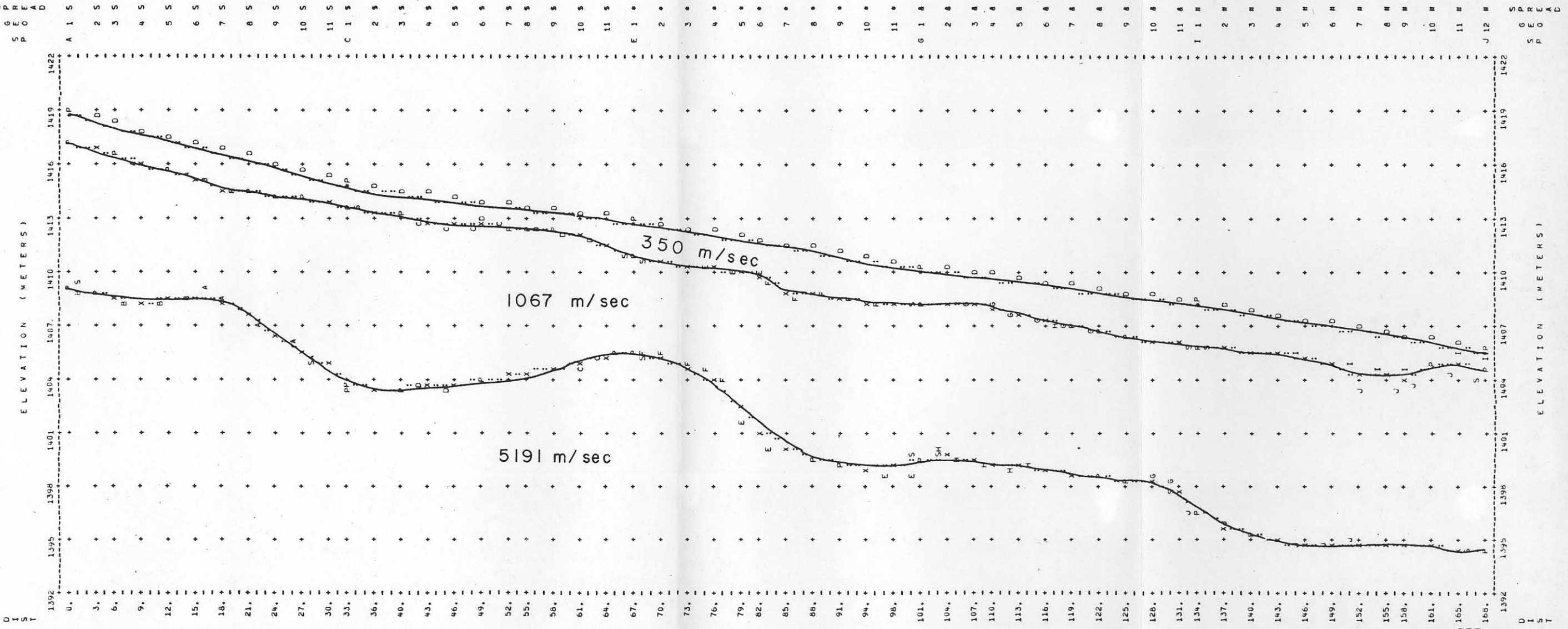
DATA FOR SHEETS 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201





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 ASSESSMENT REPORT  
 NO. **7807**

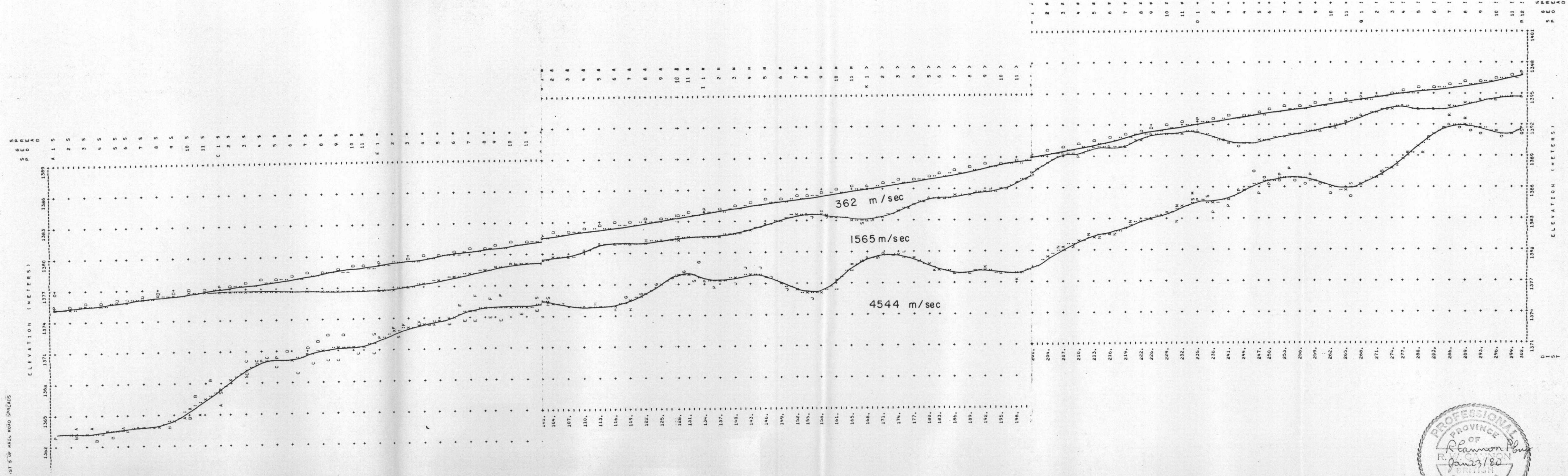
DATA FOR SPREADS FROM P5 TO BRIDGE 5 SPREADS



PROFESSIONAL  
 PROVINCE OF  
*R. Cannon*  
 R. W. CANNON  
 JAN 23/80  
 BRITISH COLUMBIA  
 ENGINEER



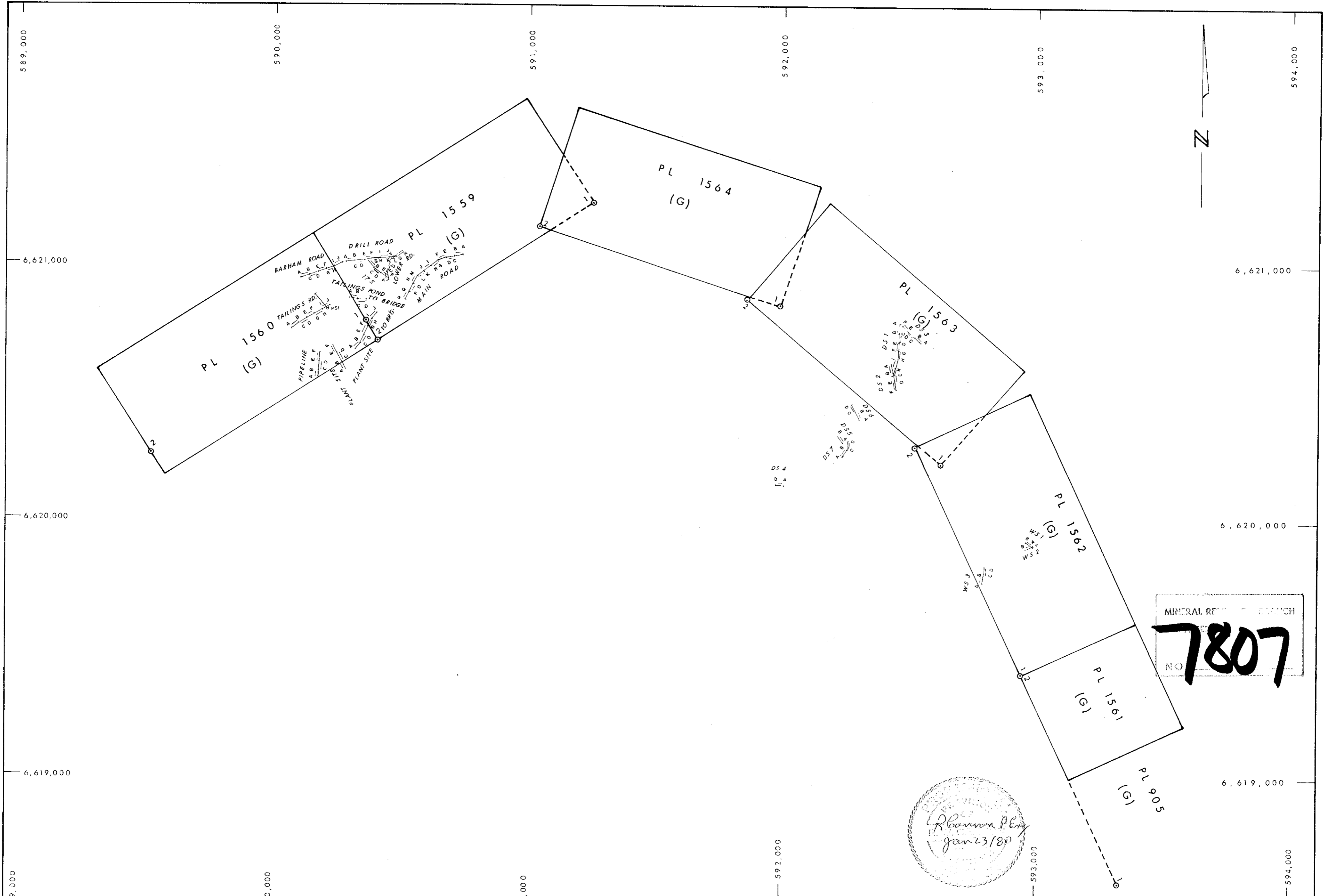
MINI-JOURNAL  
 NO. **7807**



1st 5' UP MAIN ROAD SPREADS







MINERAL RESEARCH BRANCH  
 NO. **7807**



PL Claims plotted by P.R. Hodgson

DRAWN: P. R. H.	SCALE: 1: 10,000	PLACER DEVELOPMENT LIMITED	PLACER CLAIM LOCATION MAP
TRACED: A. K.	DATE: JAN. 10, 1980	<b>ADANAC - V-164</b>	
APPROVED:	REVISED:	N.T.S. Sheer 104-N - 11 W.	

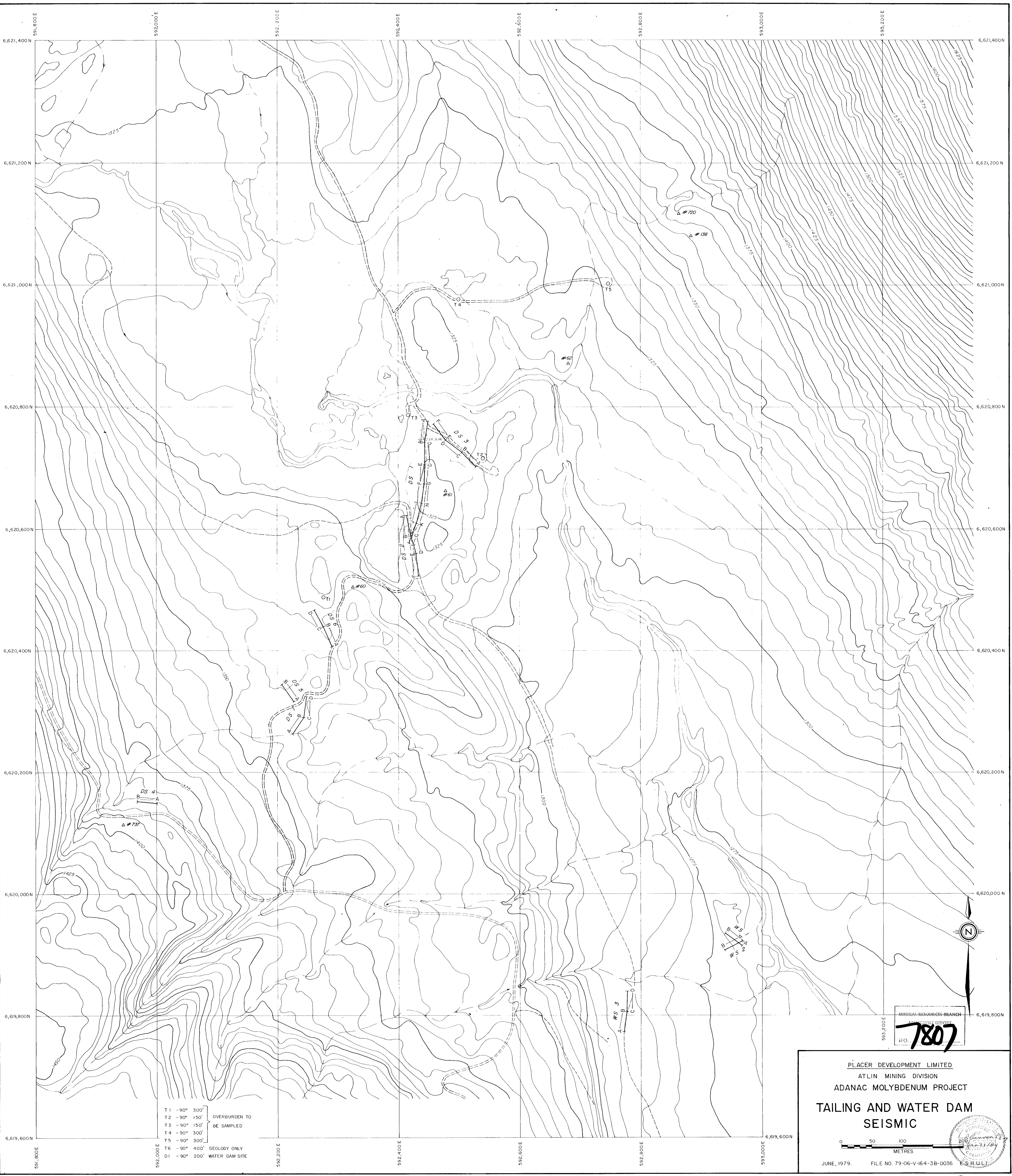
FILE REF. No.: Fig. 2



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
NO. **7807**

PLACER DEVELOPMENT LIMITED  
ATLIN MINING DIVISION  
ADANAC MOLYBDENUM PROJECT  
**PLANT SITE SEISMIC**  
0 50 100 200  
METRES  
AUG., 1979. FILE NO. 79-08-V-164-38-0035 R.W.C.(J.L.)

Fig. 3



T 1 -90° 300' } OVERBURDEN TO  
 T 2 -90° 150' } BE SAMPLED  
 T 3 -90° 150' }  
 T 4 -90° 300' }  
 T 5 -90° 300' }  
 T 6 -90° 400' GEOLOGY ONLY  
 D1 -90° 200' WATER DAM SITE

MINERAL RESOURCES BRANCH  
 H.O. **7807**

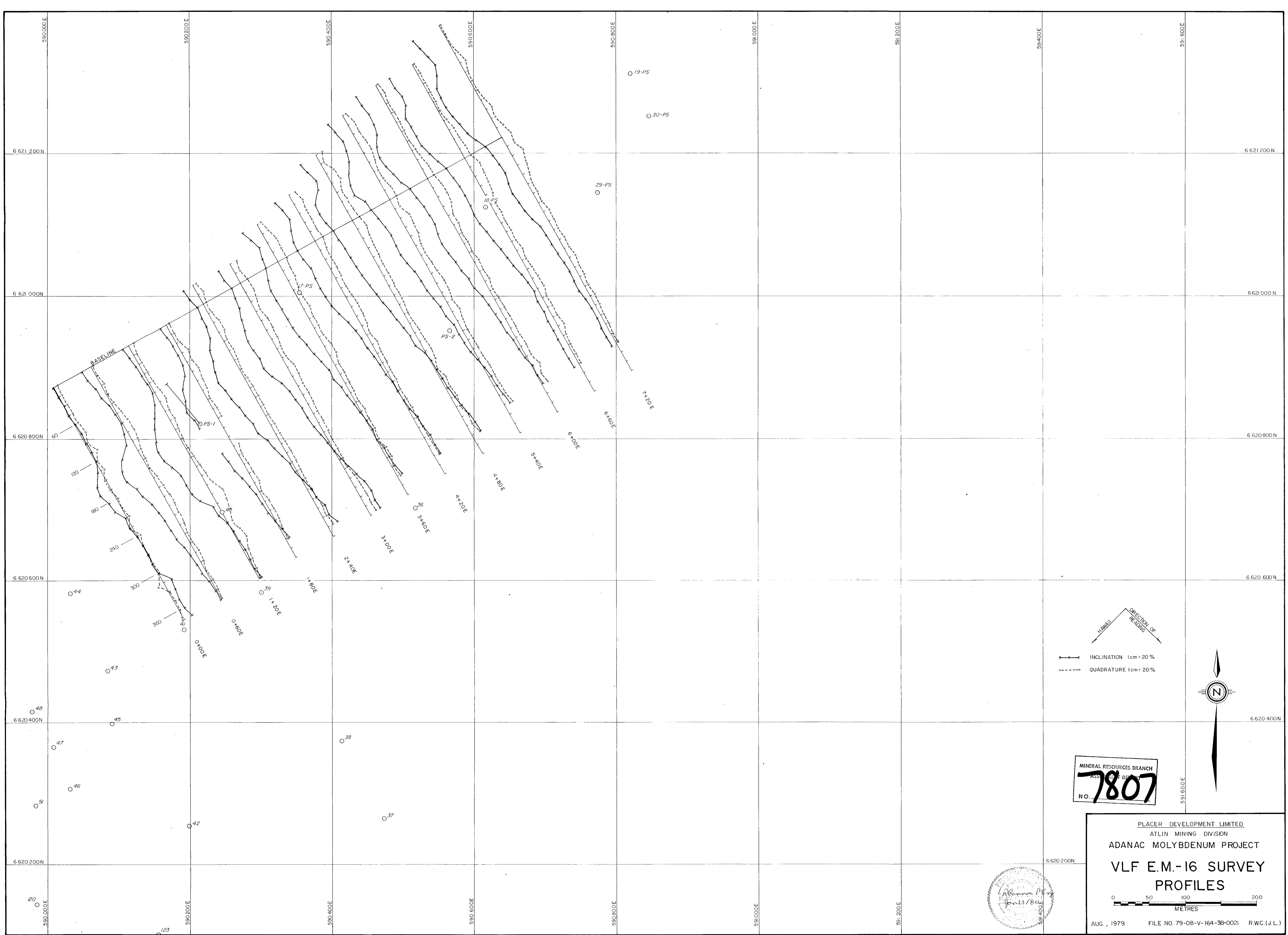
PLACER DEVELOPMENT LIMITED  
 ATLIN MINING DIVISION  
 ADANAC MOLYBDENUM PROJECT  
**TAILING AND WATER DAM  
 SEISMIC**

0 50 100  
 METRES

JUNE, 1979. FILE NO. 79-06-V-164-38-0036 E.S.H.(U.L.)

Fig. 4

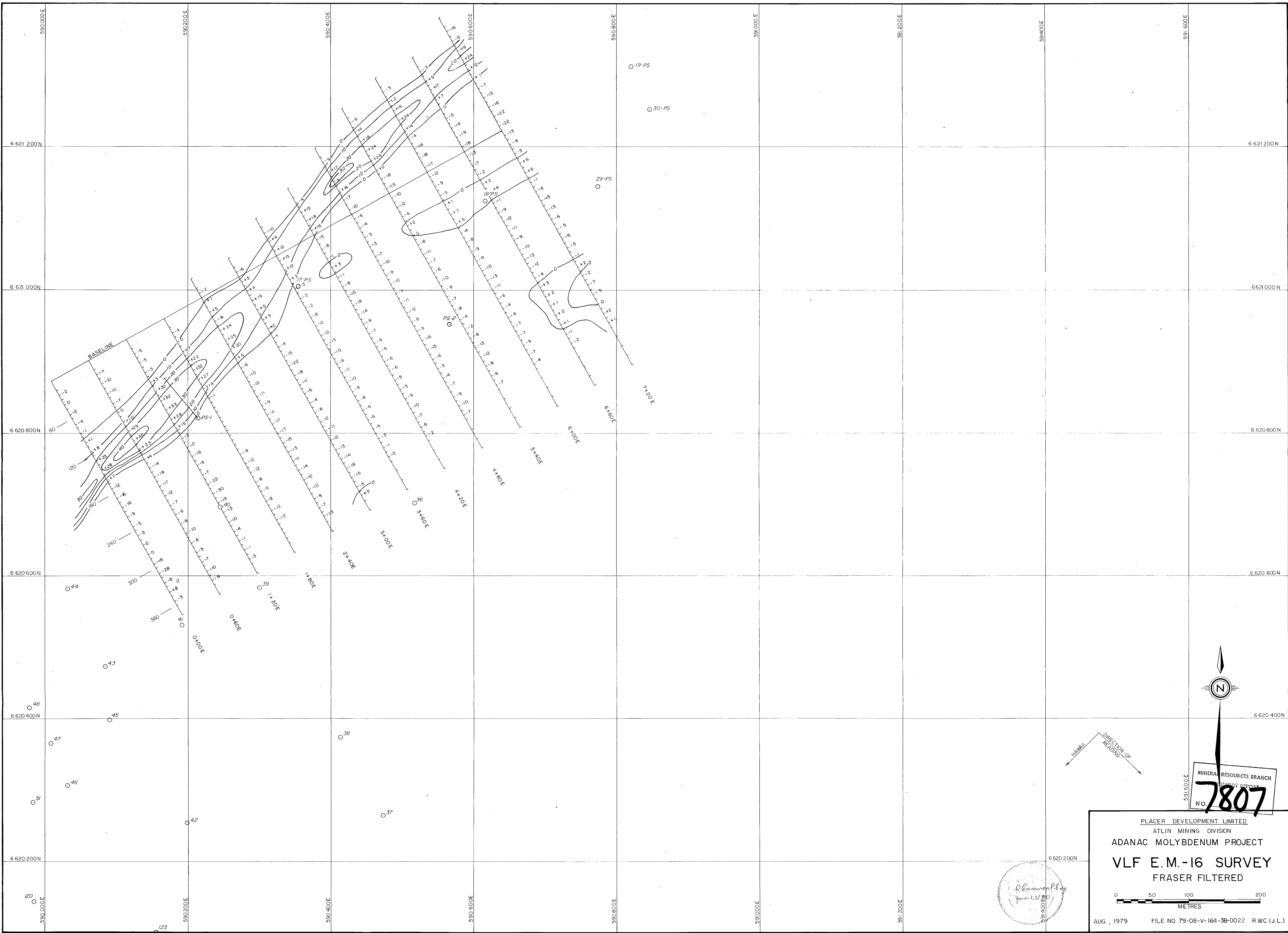




MINERAL RESOURCES BRANCH  
 ASS. RES. DIV.  
 NO. 7807

PLACER DEVELOPMENT LIMITED  
 ATLIN MINING DIVISION  
 ADANAC MOLYBDENUM PROJECT  
**VLF E.M.-16 SURVEY  
 PROFILES**  
 0 50 100 200  
 METRES  
 AUG., 1979. FILE NO. 79-08-V-164-38-0021 R.W.C.(J.L.)

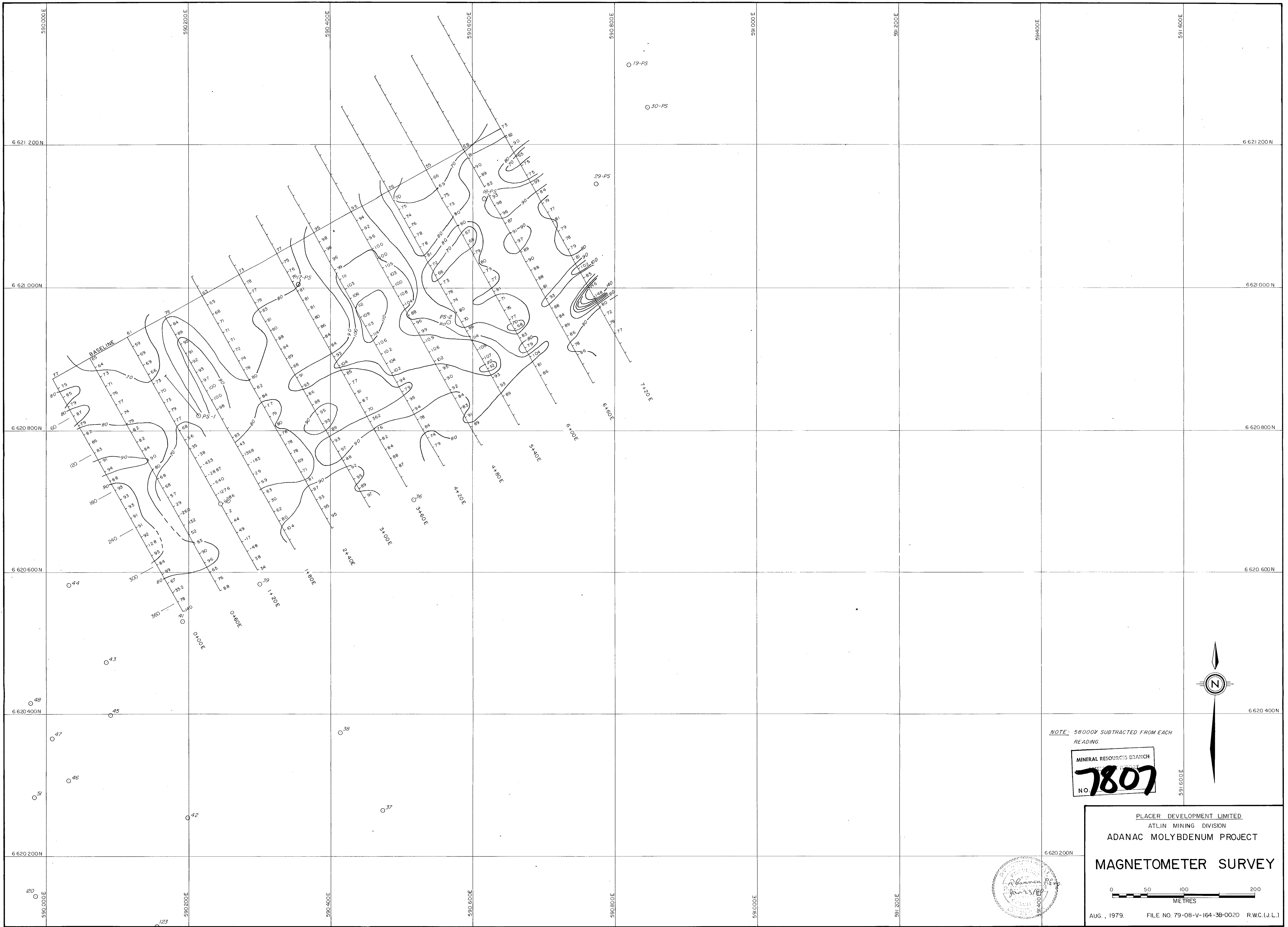
Fig. 5



MINERAL RESOURCES BRANCH  
 REPORT NO. **7807**  
 PLACER DEVELOPMENT LIMITED  
 ATLIN MINING DIVISION  
 ADANAC MOLYBDENUM PROJECT  
**VLF E.M.-16 SURVEY**  
 FRASER FILTERED  
 0 50 100 200  
 METRES  
 AUG., 1979. FILE NO. 79-08-V-164-38-0022 R.W.(J.L.)

Fig. 6





NOTE: 580000 SUBTRACTED FROM EACH READING.

MINERAL RESOURCES BRANCH  
NO. **7807**

PLACER DEVELOPMENT LIMITED  
ATLIN MINING DIVISION  
ADANAC MOLYBDENUM PROJECT  
**MAGNETOMETER SURVEY**

0 50 100 200  
METRES

AUG., 1979. FILE NO. 79-08-V-164-38-0020 R.W.C.(J.L.)

Fig. 7