

015499

PROPERTY FILE

931018-04

77/1/25

WORK REPORT RE CONTRACT #45 :
Richfield claims, Topley, B.C.
F.B. Whiting.

WHITING MINING SERVICES INTERNATIONAL LTD.

GEOPHYSICAL REPORT

ON VECTOR PULSE ELECTROMAGNETOMETER, VLF-EM

AND MAGNETIC SURVEYS

RICHFIELD #1 ,#2, #3, and #4, and CDF #1,#2,#3,#4

Omineca Mining Division

B.C.

Latitude 54°34'N, Longitude 126°14'W.

NTS 93 L / 9W & 9E.

Work Program Carried out by Whiting Mining Services
International Ltd. on behalf of F.B. Whiting and
Cobre Exploration Ltd.

Authors: F.B. Whiting, Geological Engineer, PhD., P.Eng.
E. Trent Pezzot, B.Sc., Geophysicist.
Glen E. White, B.Sc., P.Eng., Consulting
Geophysicist.

Date of Work : October 26 - November 8, 1979.

Date of Report : January 31, 1980.

<u>CLAIMS:</u>	<u>Name</u>	<u>Record #</u>
	Richfield #1	1780
	Richfield #2	1781
	Richfield #3	2050
	Richfield #4	2051
	CDF #1	1727
	CDF #2	1728
	CDF #3	1729
	CDF #4	1730

TABLE OF CONTENTS

<u>Item</u>	<u>Page</u>
A. INTRODUCTION	1.
Property & Location	1.
History	1.
Work Done	1.
Summary of Work Done	2.
Economic Assessment	2.
B. TECHNICAL DATA & INTERPRETATION	3.
C. CONCLUSIONS	6.
D. COST SUMMARY OF WORK DONE	7.
Cost Breakdown	8.
E. STATEMENT OF QUALIFICATIONS	9.
F. APPENDIX	10.
Field Data Sheets, Magnetometer Survey	11.- 33.
Field Data Sheets, VLF-E.M. Survey	34.- 51.
Geophysical Report on Vector Pulse Electromagnetometer, VLF-EM and Magnetic Surveys; Glen E. White Geophysical Consulting & Services Ltd., report dated Dec.10/79.....In Pocket.	

ILLUSTRATIONS:

Figure 1 : Location Map.

Figure 2 : Claim Map with Location of Geophysical Grid.

Note: Plans and profiles concerning the geophysical Surveys are provided in the report by Glen E. White which forms part of this overall report.

A. INTRODUCTIONPROPERTY & LOCATION:

The Richfield #1, #2, #3, #4, and the CDF #1-#4 claims are situated 11 km north of Topley, B.C., in the Omineca Mining Division, NTS maps 93 L 9 E and 9 W, at coordinates 54°34' N Latitude, 126° 14-16' W Longitude. Access is by paved highway 10 km north from Topley, B.C. on the Topley-Granisle road, thence 3 km east-northeast by dirt road to the claims. The main showings are at an elevation of 1000 - 1100 metres.

HISTORY:

The above-enumerated claims cover an extensive area over and surrounding the old Topley Richfield gold-silver-zinc deposit, which was discovered in 1926-27 and explored by underground work on the 100- and 200-foot levels in the period 1927 - 1929. Further work was done in 1934-35. In 1954-57 the claims were optioned to Silver Standard Mines Ltd., which did surface and underground drilling, de-watered the workings, and re-sampled them. An E.M. survey is reported to have been made in 1967-68 by Seemar Mines Ltd. The property was optioned in 1975 by Canadian Superior Explorations Ltd., which had an Induced Polarization survey made, and drilled four drillholes. The ground was re-staked in early 1979 by F.B. Whiting. A working option was granted to Cobre Exploration Ltd., which provided funds for carrying out a variety of geophysical surveys in the period September-November, 1979. This report covers only that work carried out after October 26, 1979, to qualify for partial reimbursement of on-property expenditures in accordance with the terms of M.E.I.P. Contract # 45.

WORK DONE:

Field work was carried out under the supervision of Whiting Mining Services International Ltd. Portions of the 1979 geophysical surveys were made by personnel of Whiting Mining Services International Ltd. The Vector Pulse Electro-

magnetic survey and part of the VLF-EM survey were made by Glen E. White Geophysical Consulting and Services Ltd. A copy of that company's complete report on the work done by it is enclosed as part of this report.

A summary statement of allowed expenditures is given in a final page of this report.

Summary of Work Done :

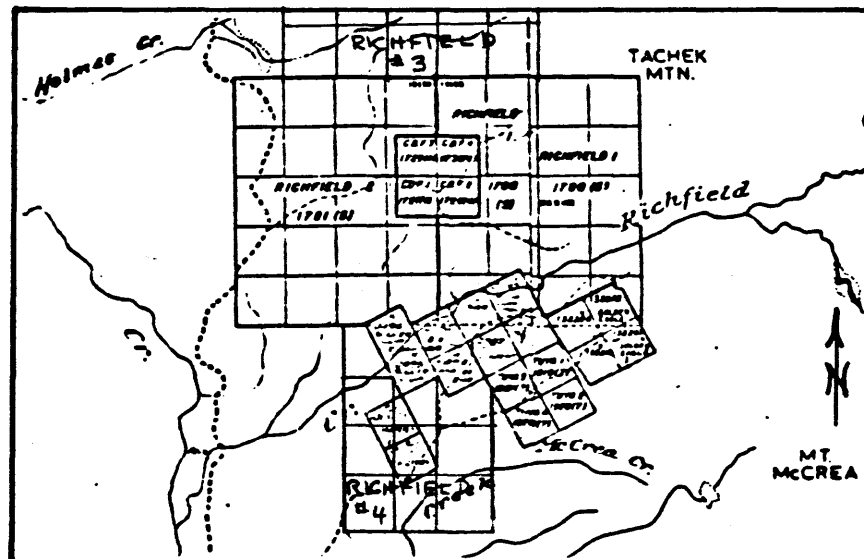
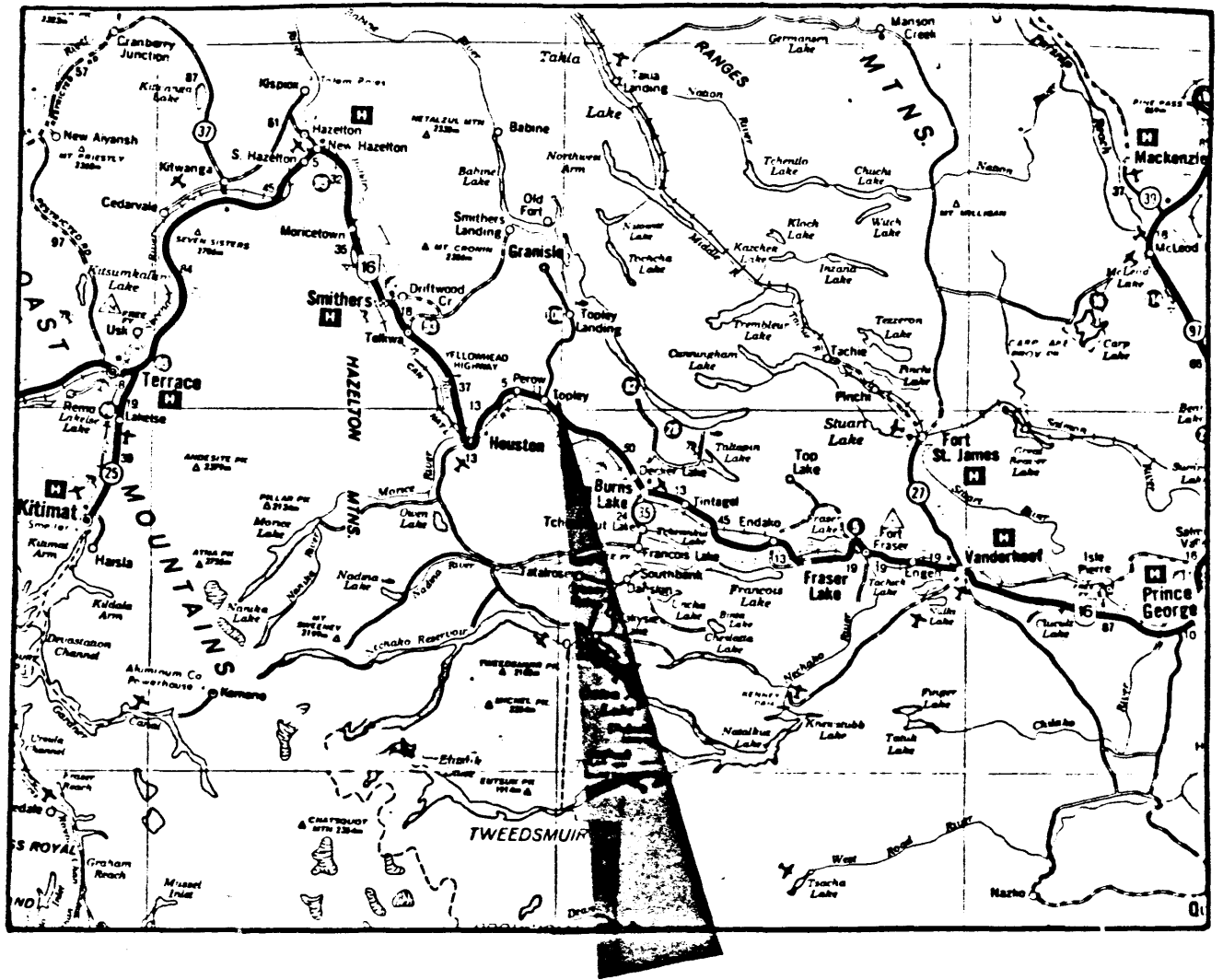
Work done on the property in the period October 26 to November 8, 1979, consisted of:

- a) Line-cutting, flagging, picketing: 26.8 km.
- b) Magnetometer survey: 9 km.
- c) VLF-EM Survey: 14.3 km
- d) Vector Pulse Electromagnetometer Survey : 16 km of double coverage.

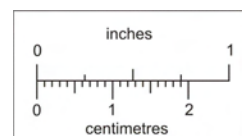
All of the foregoing work was conducted on the CDF #1 - #4 claims and on the Richfield #1 & #2 claims.

Economic Assessment:

The old mine workings contain a small tonnage (15,000 st more or less) of relatively rich gold-silver ore (at about 0.2 oz Au/t, 10 oz Ag/t). Geophysical surveys indicate the mineralized zone continues for a length of over 1.5 km, offering the chance for discovery of considerable tonnages, along strike and down the dip. A deep conductive mass may represent concentrations of sulphides with gold and silver, possibly also with lead, zinc, and copper.



**COBRE EXPLORATION
RICHFIELD PROPERTY
LOCATION AND CLAIMS MAP**



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.



*Geo. & V. L. S.
geophysical consulting
services ltd.*

M 93L/9W

MSO
1958

To GRANISLE Cr.
Y. Hillies Cr.
GRID LOCATION

Realtop

GRID LOCATION

RICHFIELD #3
2050 (9)

N. END OF BASE LINE IS AT
1162.2 M. N. AND 51.2 M
EAST OF L.C.P. of CLAIMS
TACHEK
MTN.

LCP

RICHFIELD

RICHFIELD 1

RICHFIELD #2
1781 (5)

1780 (5)
1780 (5)

Richfield

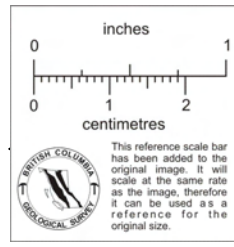
13200
13220
13220
GOLDEN EAGLE
GOLDEN EAGLE
GOLDEN EAGLE

S. END OF BASE LINE AT RICHFIELD CR

15 1310.6 M. S. McCrea Cr.
ON GRID

RICHFIELD #4
2051 (9)

M
McC



POWER LINE

Covington Cr.

Richfield

McCrea

Cesford

Cr

To HOUSTON

CESFORD Forestry Lookout HILL

Cobham I.



Topley

FIG. 2.

1:50,000

B. TECHNICAL DATA & INTERPRETATION

1. Complete reports for the VLF-EM survey and the Vector Pulse Electromagnetometer survey are given in the report dated December 10, 1979, by Glen E. White Geophysical Consulting and Services Ltd., which is enclosed herewith and which forms an integral part of this overall report.

2. The above-mentioned report describes also the Magnetometer survey carried out from Oct. 26-Nov.3, plus later calculations, plotting, and interpretation, by Whiting Mining Services International Ltd. A set of field data sheets is provided with this report, giving the field readings obtained, and showing the corrections made for day-to-day and diurnal variations. The base station used was at 0+00N on the Base-line, at which station the instrument was set at a Base Value of + 40 gammas. Readings were taken north and south along the N-S Baseline, and repeated several times to eliminate minor daily fluctuations. This provided a set of sub-basestations at 50- or 100- metre separations. When each east-west grid line was surveyed, the Base Station at 0+00 N was first read. Then a reading was taken at the baseline on the cross grid line, to verify the daily variation. The line was then run, returning at last to the 0+00N Base Station to determine the diurnal variation during the survey period. " Figure-8" loops were used to adjust adjacent lines to the sub-base values along the N-S Baseline.

During the survey it became apparent that magnetic storms were occurring, which caused variations of 50-150 gammas over a period of three to five minutes. Readings taken at times of rapid change were noted on the field record sheets. The effect of such rapid variations from hour to hour or day to day were minimized by repeating the readings along the N-S base-line many times during the period of the survey, to obtain reliable average sub-station values.

Interpretation of Magnetic Data:

Control lines were run across areas of known sub-surface geology. This disclosed that the quartz-ankerite alteration zone within the Jurassic andesites had a notably low magnetic response, in the range of 0 to 100 gammas with the instrument set to a local base level. Over outcrops of andesite to the east, the local field increases to 200 - 500 gammas, and the edge of the alteration zone is clearly distinguishable. On running the other cross grid lines to the north and south, it was found that the magnetic low extends for a strike length of at least 1500 m; presumably, the alteration zone that hosts the gold-silver mineralization also extends for this length.

On the westward extensions of the grid lines, a western boundary for the alteration zone is marked by a definite, sharp rise in the magnetic intensity, which reaches to a level of 800 - 1100 gammas - the underlying rocks are probably somewhat more basic volcanics than those to the east.

One region of widely-varying magnetic intensity was located, from 550 - 825m W on Line 10+00 S. There, strong variations occur over short distances, with the readings going from +200 to -400 gammas in as little as 12 m horizontally. Exposures in a steep gully provide the explanation for these effects, as it was found that this area is underlain by flat-lying, recent volcanic flows. Such rocks typically show extreme magnetic variations from point to point.

Magnetometer Survey : Instrument and Characteristics

The magnetometer used in this survey was the Phoenix Geophysics Model MV-1, a vertical field magnetometer with a sensitivity of 5 gammas on the 300-gamma scale setting.

On beginning a survey, the instrument is adjusted to eliminate almost all of the total local field; the readings taken thus represent local small variations from the Base Value set at the local Base Station. In this survey, the scales used were the 0.3 , 1.0, and 30 k.gamma scales, providing a range from -100 gammas to + 30 gammas. Most readings fell in the range of 0 to 1000 gammas.

3. Field Data: Sheets giving the field readings obtained on both the Magnetometer and VLF-EM surveys are included in following pages of this report.

C. CONCLUSIONS

The magnetometer survey shows a clear relationship between the known host rock for the gold-silver mineralization and a magnetic " low ". The on-strike extensions of this low presumably represent the same rock type , and provide an obvious drilling target. At least four holes should be drilled, two north of the area of old mine workings, and two to the south of them, to search for other mineralized layers within this host rock .

The Vector Pulse E.M. survey located a strong, deep conductive body lying west of the old mine workings, and extending north-south for a length of at least 1050 metres. The report by Glen E. White Geophysical Consulting & Services Ltd. recommends that this anomaly be drilled.

The VLF-EM survey found several anomalies that should be identified; by drilling where the overburden cover is thick, and by back-hoe trenching in the eastern sector wherever the cover is sufficiently thin.

Respectfully submitted.

Whiting Mining Services International
Ltd.



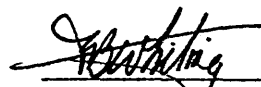
F.B. Whiting, Ph.D., P.Eng.
Geological Engineer.

Richfield Claims - Cost Breakdown

Work Done	Personnel	Wages or Costs	Total
1. Topographic Survey of 2.5 km Baseline	J.F. Howett B.C.L.S.	Contract price incl.expenses. Invoice of Nov.9/79	\$ 2,627.00
2. Line-cutting & EM.16 survey	M.J.Fitzgerald	7.5 days @\$180/d. Fees & Expenses Invoice of Oct.14	\$ 1,748.75
3. Line cutting & EM.16 survey	F.B.Whiting	17 days @ \$180 Plus \$45 equipment Invoice of Oct.15	\$ 3,105.00
4. " " " " "	" "	Travel expenses, Temp.labor, supplies Exp. Acct.of Oct.16	\$ 2,272.86
5. Vector Pulse E.M. Survey	G.White Geophys. Services Ltd	Invoice of Oct.12 Fees & Expenses	\$ 2,330.00
6. Vector Pulse E.M. Survey	G.White Geophys.	Invoice of Dec.12/79 Fees, wages, expenses	16,841.00
7. Supervision & Magnetometer Survey	F.B.Whiting	Invoice of Nov.16/79 16 days @ \$180 plus Equip.rent\$45.	2,925.00
8. " " " " "	F.B. Whiting	Travel Expenses Exp.Acct.ofNov.23/79	\$ 1,664.99
9. Phoenix Geophysics Instrument rental		Invoice of Nov.19/79	\$ 180.00
10. Bondar-Clegg & Co. Sampling supp.		Invoice of Sept. 26 Paid Oct.7/79	\$ 39.41
11. Line-cutting	G.Auger Contracting	Inv. of Nov.2/79	\$ 4,400.00
TOTAL PROJECT EXPENDITURES..			\$ 38,134.01

M.E.I.P. Contribution @ One-third = \$ 12,711.33
=====

CERTIFIED CORRECT:



F.B. Whiting

E. STATEMENT OF QUALIFICATIONS

NAME: WHITING, Francis B., P.Eng.

PROFESSION: Geological Engineer.

EDUCATION: B. App. Sci. in Geological Engineering,
University of British Columbia.
M.Sc. in Geology, McGill University.
Ph.D. in Geology and Economics, Massachusetts
Institute of Technology.

PROFESSIONAL ASSOCIATIONS:

Registered Professional Engineer, Province
of British Columbia.

Registered Professional Engineer, Yukon Terr.
Member, Society of Economic Geologists.

EXPERIENCE:

Pre-graduate experience in Geology with
Geological Survey of Canada and International
Mining Corporation.

One and One-half years Field Geologist for
Hedley Mascot Gold Mines, Placer Development,
and New Jersey Zinc Explorations, in B.C.

Three years as Mine Geologist, Missouri, for St.
Joseph Lead Co.

Six years as Chief Geologist, Aguilar Mine, for
Compania Minera Aguilar, S.A., Argentina.

Seven years as Exploration Chief in Argentina
for Compania Minera Aguilar S.A.

Five years as Exploration Manager, later General
Manager, for Arrow Inter-America Corporation,
in western and eastern Canada.

Three years as Regional Manager for Western
North America for Brascan Resources Limited.

Three years as Consulting Geologist, as President
of Whiting Mining Services International Ltd.

Active experience in Canada, U.S.A., Mexico,
Honduras, Brazil, Chile, Peru, Argentina,
Australia, Bolivia.

MAGNETOMETER SURVEY

PROPERTY: RICHFIELD DATE: OCT. 26 / 79. OPERATOR: F.B. WHITING

INSTRUMENT: Phoenix MV-1 Vertical Field Magnetometer

LINE	X	STAT. Y.	READING	TIME	CORR.	FINAL Z	COMMENTS
Reading on 0.3 K γ Scale: 1.0 = 100 γ					(0.3 Sak Units)		Original setting of base value used on this date proved to be too low. \therefore Reset next day. Readings corrected to allow for change in value of BASE STATION to BASE VALUE of <u>+ 40 γ</u> .
2+00	N	4+00 E	0.5 +	3:35 pm	+ 3.1	+ 360 γ	
"		3+87	0.7 +	3:36	+ 3.1	+ 380	
"		3+75	0.9 +	3:37	+ 3.1	+ 400	
"		3+62	0.5 +	3:38	+ 3.1	+ 360	
"		3+50 E	0.8 +	3:39	+ 3.1	+ 390	
"		3+37	1.4 -	3:40	+ 3.1	+ 170	
"		3+25	0.8 -	3:41	+ 3.1	+ 230	
"		3+12	0.9 -	3:42	+ 3.1	+ 220	
"		3+00 E	0.8 -	3:43	+ 3.1	+ 230	
"		2+87	0.6 +	3:44	+ 3.1	+ 370	
"		2+75	1.0 +	3:45	+ 3.1	+ 320	
"		2+62	0.2 -	3:46	+ 3.1	+ 290	
"		2+50 E	0.7 -	3:47	+ 3.1	+ 240	
"		2+37	0.7 -	3:49	+ 3.1	+ 240	
"		2+25	0.2 -	3:50	+ 3.1	+ 290	
"		2+12	0.5 -	3:52	+ 3.1	+ 260	
"		2+00 E	0.9 -	3:54	+ 3.0	+ 210	On Vein in Cut.
"		1+87	0	3:56	+ 3.0	+ 300	
"		1+75	0.3 -	3:57	+ 3.0	+ 270	
"		1+62	0.5 -	3:59	+ 3.0	+ 250	
"		1+50 E	0.4 +	4:01	+ 3.0	+ 340	
"		1+37	0.4 +	4:02	+ 3.0	+ 340	
"		1+25	0.7 +	4:04	+ 3.0	+ 370	
"		1+12	0.8 +	4:06	+ 3.0	+ 380	
"		1+00 E	0.8 +	4:08	+ 3.0	+ 380	
"		0+94	0.9 +	4:10	+ 3.0	+ 390	
"		0+87	0.3 +	4:11	+ 3.0	+ 330	
"		0+81	0.1 -	4:12	+ 3.0	+ 290	
"		0+75 E	0.5 -	4:12	+ 3.0	+ 250	
"		0+69	0.6 -	4:13	+ 3.0	+ 290	
"		0+62	0.4 -	4:14	+ 3.0	+ 260	
"		0+56	0.1 -	4:15	+ 3.0	+ 290	
"		0+50 E	0.2 -	4:16	+ 3.0	+ 280	

Date: Oct. 26 / 79.

RICHFIELD M.C.

P. 12

SCALE: 0.3 KY F.I. S.C. 1.0: 100 X.

LINE X	STAT Y.	READING	TIME	CORR. <small>0.3 Scale units</small>	FINAL Z	COMMENTS
2+00 N	0+44 E	0.4 -	4:16 pm	+3.0	+260 X	
	0+37	0.5 -	4:17	+3.0	+250	
	0+31	0.4 -	4:18	+3.0	+250	
	0+25	0.5 -	4:19	+2.9	+240	
	0+19	0.7 -	4:20	+2.9	+220	
	0+12	1.0 -	4:21	+2.9	+190	
	0+6	1.0 -	4:22	+2.9	+190	
	0+00 E	0.6 -	4:22	+2.9	+230	
B.L.	1+50 N	0.8 -	4:26	+2.9	+210	
B.L.	1+00 N	1.1 -	4:28	+2.9	+180	
B.L.	0+51 N	2.3 -	4:30	+2.9	+60	N. End of Dump.
<u>B.L.</u>	<u>0+00 N</u>	2.5 -	4:32	+2.9	<u>+40 X</u>	<u>BASE STATION VALUE.</u>

MAGNETOMETER SURVEY

PROPERTY: RICHFIELD

DATE: OCT. 26-NOV. 3/79

OPERATOR: F.S. WHITING

SCALE: 0.3 KS Full Scale: 1:0=1008

Oct. 27/79.

LINE X	STATION Y	READING	TIME	CORR.	FINAL Z.	COMMENTS.
BASE STATION:	INSTRUMENT RE-SET NEGATIVE READINGS.		AT HIGHER LEVEL TO			ELIMINATE
						<u>NEW SETTING FOR</u> <u>BASE STATION</u>
<u>B.L.</u>	<u>0+00 N</u>	<u>+ 0.4</u>	10:47 am	0	<u>+ 40 Y</u>	
"	0+25 N	+ 0.6	10:49	0	+ 60	
"	0+51 N	0.4 +	10:50	0	+ 40	
"	0+75 N	+ 0.9	10:53	0	+ 90	
"	1+00 N	+ 1.2	10:54	0	+ 120	
"	1+25 N	+ 1.3	10:55	0	+ 130	
"	1+50 N	+ 1.5	10:57	0	+ 150	
"	1+75 N	+ 1.3	10:58	0	+ 130	
"	2+00 N	+ 1.8	10:59	0	+ 180	
2+00 N	B.L.	+ 1.6	11:11	0	+ 160	CHECK READING.
"	0+6 W	+ 1.4	11:13	0	+ 140	
"	0+12 W	+ 1.6	11:14	0	+ 160	
"	0+19 W	+ 1.5	11:15	0	+ 150	
"	0+25 W	+ 1.4	11:16	0	+ 140	
"	0+31 W	+ 1.6	11:17	0	+ 160	
"	0+37 W	+ 1.3	11:18	0	+ 130	
"	0+44 W	+ 1.3	11:19	0	+ 130	
"	0+50 W	+ 1.3	11:20	0	+ 130	
"	0+56 W	+ 1.2	11:21	0	+ 120	
"	0+62 W	+ 1.7	11:21	0	+ 170	EP. of CDF #1-2: 4m N
"	0+69 W	+ 1.7	11:24	0	+ 170	
"	0+75 W	+ 1.3	11:25	0	+ 130	
"	0+81 W	+ 1.5	11:26	0	+ 150	Edge of gully to W.
"	0+87 W	+ 1.2	11:27	0	+ 120	On gully slope "
"	0+94 W	+ 1.1	11:28	0	+ 110	
"	1+00 W	+ 0.6	11:30	0	+ 60	Edge of creek .
"	1+06 W	+ 0.9	11:31	0	+ 90	On creek flats .
"	1+12 W	+ 1.3	11:33	0	+ 130	" " " .
"	1+19 W	+ 1.0	11:34	0	+ 100	" " " .
"	1+25 W	+ 1.0	11:35	0	+ 100	" " " .
"	1+31 W	+ 1.2	11:36	0	+ 120	" " " .

PROPERTY: RICHFIELD

Scale: 0.3 K⁸ = Full Scale

P. 14

Reading: 1.0 = 100 γ

Oct. 27/79.

LINE	STATION	READING	TIME	CORR.	FINAL Z	COMMENTS
2+00 N	1+37 W	+1.4	11:36 a.m.	0	+140	On creek flats.
"	1+44 W	+1.1	11:37	0	+110	" " "
"	1+50 W	+1.0	11:38	0	+100	" " "
"	1+56 W	+1.2	11:40	0	+120	" " "
"	1+62 W	+1.0	11:41	0	+100	" " "
"	1+69 W	+1.0	11:42	0	+100	" " "
"	1+75 W	+1.0	11:44	0	+100	" " "
"	1+81 W	+0.8	11:44	0	+80	" " "
"	1+87 W	+0.6	11:45	0	+60	" " "
"	1+94 W	+0.8	11:46	0	+80	" " "
"	2+00 W	+0.9	11:47	0	+90	" " "
"	2+06 W	+0.8	11:49	0	+80	" " "
"	2+12	+0.9	11:52	0	+90	" " "
"	2+19	+1.0	11:52	0	+100	Edge of flats
"	2+25 W	+1.7	11:54	0	+170	On rise
"	2+31	+2.0	11:55	0	+200	Reading variable.
"	2+37	+1.2	11:56	0	+120	On gentle slope to W.
"	2+44	+0.8	11:57	0	+80	"
"	2+50 W	+1.3	11:58	0	+130	"
"	2+56	+1.7	11:59	0	+170	"
"	2+62	+1.3	12:00	0	+130	"
"	2+67	+1.2	12:01	0	+120	"
"	2+75 W	+1.3	12:02	0	+130	"
"	2+81	+2.0	12:05	0	+200	Reading variable.
"	2+87	+1.7	12:06	0	+170	" "
"	2+94	+1.3	12:07	0	+130	" "
"	3+00 W	+1.5	12:08	0	+150	" "
"	3+06	+1.2	12:10	0	+120	" "
"	3+12	+1.6	12:11	0	+160	" "
"	3+19	+1.6	12:12	0	+160	" "
"	3+25 W	+1.6	12:13	+0.1	+170	" "
"	3+31	+1.4	12:13	+0.1	+150	" "
"	3+37	+1.2	12:14	+0.1	+130	" "
"	3+44	+1.2	12:15	+0.1	+130	" "
"	3+50 W	+1.9	12:17	+0.1	+200	" "
"	3+56	+2.1	12:19	+0.1	+220	Reading variable.
"	3+62 W	+2.2	12:19	+0.1	+230	" "

RCH FIELD PROPERTY.

Oct. 27 /79

Readings on Scale 1 KY or 1000 Y = Full-scale ∴ 2.0 = 200 √. 1.0 = 100 √.

LINE	STATION	READING	TIME	CORR.	FINAL Z	COMMENTS
2+00 N	3+69 W	+2.3	12:22 pm	+0.1	+240 √	
"	3+75	+2.4	12:24	+0.1	+250	
"	3+81	+3.0	12:27	+0.1	+310	Reading variable
"	3+87	+3.8	12:29	+0.1	+ 0	
"	3+94	+4.2	12:30	+0.1	+430	
"	4+00 W	+4.8	12:31	+0.1	+490	
"	4+06	+5.0	12:34	+0.1	+510	
"	4+12	+5.2	12:35	+0.1	+530	
"	4+19	+5.7	12:36	+0.1	+580	
"	4+25 W	+6.2	12:37	+0.1	+630	
"	4+31	+6.8	12:39	+0.1	+690	
"	4+37	+6.5	12:40	+0.1	+660	
"	4+44	+7.7	12:41	+0.1	+780	
"	4+50 W	+6.6	12:42	+0.1	+670	
"	4+56	+8.8	12:43	+0.1	+890	
"	4+62	+8.3	12:44	+0.1	+840	
"	4+69	+8.1	12:45	+0.1	+820	
"	4+75 W	+8.7	12:46	+0.1	+880	
"	5+00 W	+8.9	12:48	+0.1	+900	
"	5+25 W	+9.0	12:49	+0.1	+910	
"	5+50 W	+9.4	12:52	+0.1	+950 √	
Move N. 50 M.						
2+50 N	5+00 W	+8.4	12:56	+0.1	+850 √	Reading variable
"	4+75	+6.5	12:57	+0.1	+660	
"	4+50	+5.9	12:58	+0.1	+600	
"	4+25	+4.4	1:00 pm	+0.1	+450	
"	4+00 W	+2.9	1:01	+0.1	+300	
"	3+75	+1.8	1:03	+0.1	+190	
"	3+62	+1.6	1:04	+0.1	+170	
"	3+50 W	+1.6	1:06	+0.1	+170	
"	3+25	+1.8	1:08	+0.1	+190	Reading variable.
"	3+00	+1.3	1:09	+0.1	+140	
"	2+75	+1.7	1:10	+0.1	+180	
"	2+50 W	+1.7	1:11	+0.1	+180	
"	2+25	+1.7	1:12	+0.1	+180	
"	2+00	+1.6	1:13	+0.1	+170	
"	1+75 W	+1.8	1:14	+0.1	+190	

Oct. 27/79.

LINE	STATION	READING	TIME	CORR.	FINAL Z	COMMENT
2+50 N	1+62 W	+ 2.5	1:15 pm	+ 0.1	+ 260	
	1+50	+ 2.5	1:15	+ 0.1	+ 260	
	1+37	+ 5.0	1:18	+ 0.1	+ 510	
	1+25	+ 3.6	1:19	+ 0.1	+ 370	
	1+12	+ 4.0	1:20	+ 0.1	+ 410	
	1+00 W	+ 2.2	1:21	+ 0.1	+ 230	Reading variable.
	0+87	+ 2.7	1:22	+ 0.1	+ 230	" " .
	0+75	+ 2.0	1:23	+ 0.1	+ 210	" " .
	0+62	+ 2.2	1:24	+ 0.1	+ 230	
	0+50 W	+ 1.6	1:25	+ 0.1	+ 170	
	0+37	+ 1.6	1:25	+ 0.1	+ 170	
	0+25	+ 2.3	1:26	+ 0.1	+ 240	
	0+12	+ 2.2	1:27	+ 0.1	+ 230	
	B.L.	0 - W	+ 2.1	1:28	+ 0.1	+ 220
B.L.	2+00 N	+ 3.4	1:31	+ 0.1	+ 350	Reading Variable
B.L.	1+50 N	+ 2.6	1:33	+ 0.1	+ 270	
B.L.	1+00 N	+ 2.5	1:35	+ 0.1	+ 260	Reading Variable
B.L.	0+51 N	+ 0.9	1:37	+ 0.1	+ 100	
B.L.	0+00 N	<u>+ 0.3</u>	1:39	+ 0.1	<u>+ 40</u>	<u>BASE VALUE</u>
Change from initial reading : 0.4 to 0.3 = 0.1						Correction.

RICHFIELD PROPERTY:

Reading of 1.0 = 100 X

P. 17

Date: Oct. 26 / 79.

OPERATOR: F. B. WHITING.

Original Instrument Setting:

LINE	STATION	READING	TIME	CORR.	FINAL Z	COMMENT	
B.L.	0+00 N	2.9 -	2:50 pm.	+3.3	<u>+40</u>	BASE VALUE ON RESETTING OF INSTRUMENT.	
"	0+25 N	2.8 -	2:52	+3.3	+50		
"	0+51 N	3.0 -	2:54	+3.3	+30		
"	0+75 N	1.7.	2:55	+3.3	+160		
"	1+00 N	1.6 -	2:57	+3.3	+170		
"	1+25 N	1.6 -	2:58	+3.3	+170		
"	1+50 N	1.4 -	2:59	+3.3	+190		
"	1+75 N	1.3 -	3:01	+3.3	+200		
"	2+00 N	1.25 -	3:02	+3.3	+200		
2+00 N	0+25 E	0.8 -	3:04	+3.2	+240		On vein Near SDH & Road Trench 15m. N.
"	0+50 E	0.5 -	3:05	+3.2	+270		
"	0+75 E	0.7 -	3:06	+3.2	+250		
"	1+00 E	+0.2	3:08	+3.2	+340		
"	1+25 E	+0.5	3:09	+3.2	+370		
"	1+50 E	-0 -	3:11	+3.2	+320		
"	1+75 E	-0.5	3:13	+3.2	+270		
"	2+00 E	-1.3	3:17	+3.2	+190		
"	2+25 E	-0.5	3:19	+3.2	+270		
"	2+50 E	-0.9	3:21	+3.2	+230		
"	2+75 E	+0.7	3:22	+3.2	+390		
"	3+00 E	-1.1	3:25	+3.2	+210		
"	3+25 E	-1.1	3:27	+3.2	+210		
"	3+50 E	+0.9	3:29	+3.1	+400		
"	3+75 E	+0.7	3:30	+3.1	+380		
"	4+00 E	+0.3	3:32	+3.1	+340		
CORRECTION:		Base Value reading should be +0.4, was -2.9 at start ∴ CORR. = +3.3					
		" " " " " " 0.4 at end, was -2.5, ∴ CORR. = +2.9					
		∴ Distribute difference from +3.3 to +2.9 over period 2:50 pm to 4:32 pm = 0.1 change every 25 min					

OCT. 28/79.

LINE	STATION	READING	TIME	CORR.	FINAL Z	COMMENTS
B.L.	0+00 N	+ 1.6	9:16 a.m.	- 1.2	<u>+ 40</u>	BASE VALUE.
O-N.	0+12 E	+ 1.8	9:17	- 1.2	+ 60	
"	0+25 E	+ 3.8	9:18	- 1.2	+ 260	
"	0+37 E	+ 3.3	9:20	- 1.2	+ 210	
"	0+50 E	+ 3.5	9:21	- 1.2	+ 230	
"	0+62 E	+ 3.8	9:23	- 1.2	+ 260	
"	0+75 E	+ 4.3	9:24	- 1.2	+ 310	
"	0+87 E	+ 3.5	9:25	- 1.2	+ 230	
"	1+00 E	+ 4.3	9:26	- 1.2	+ 310	
"	1+12 E	+ 2.0	9:27	- 1.2	+ 80	
"	1+25 E	+ 2.0	9:28	- 1.2	+ 80	
"	1+37 E	+ 2.8	9:29	- 1.2	+ 160	
"	1+50 E	+ 3.6	9:30	- 1.2	+ 240	
"	1+62 E	+ 3.9	9:30	- 1.2	+ 270	
"	1+75 E	+ 2.8	9:31	- 1.2	+ 160	
"	1+87 E	+ 3.7	9:32	- 1.2	+ 250	
"	2+00 E	+ 3.9	9:33	- 1.2	+ 270	
"	2+12 E	+ 3.9	9:34	- 1.2	+ 270	In gully.
"	2+25 E	+ 1.6	9:36	- 1.2	+ 40	" "
"	2+37 E	+ 4.3	9:37	- 1.2	+ 310	On trench dump.
"	2+50 E	+ 3.8	9:38	- 1.2	+ 260	
"	2+62 E	+ 3.1	9:39	- 1.2	+ 190	
"	2+75 E	+ 3.5	9:40	- 1.2	+ 230	
"	2+87 E	+ 3.2	9:41	- 1.2	+ 200	
"	3+00 E	+ 4.3	9:42	- 1.2	+ 310	
"	3+12 E	+ 5.7	9:45	- 1.2	+ 450	
"	3+25 E	+ 6.8	9:46	- 1.2	+ 460	
"	3+37 E	+ 5.8	9:47	- 1.3	+ 450	
"	3+50 E	+ 5.2	9:48	- 1.3	+ 390	
"	3+62 E	+ 4.3	9:49	- 1.3	+ 300	
"	3+75 E	+ 5.8	9:50	- 1.3	+ 450	
"	3+87 E	+ 5.8	9:51	- 1.3	+ 450	
"	4+00 E	+ 4.9	9:52	- 1.3	+ 360	
1+00 N	3+75 E	+ 3.8	10:07	- 1.3	+ 250	
"	3+50 E	+ 4.6	10:09	- 1.3	+ 330	
"	3+25 E	+ 4.3	10:14	- 1.3	+ 300	
"	3+00 E	+ 3.8	10:16 am	- 1.3	+ 250	

Oct. 28 / 79.

LINE	STATION	READING	TIME	CORR.	FINAL Z.	COMMENTS
1+00 N.	2+75 E	+ 7.6	10:18 am.	-1.3	+ 630	Beside trench
"	2+50 E	+ 4.4	10:19	-1.3	+ 310	
"	2+25 E	+ 5.8	10:20	-1.3	+ 450	
"	2+00 E	+ 4.2	10:23	-1.3	+ 290	
"	1+75 E	+ 4.8	10:25	-1.3	+ 350	
"	1+50 E	+ 5.0	10:26	-1.3	+ 370	
"	1+25 E	+ 6.2	10:27	-1.3	+ 490	
"	1+00 E	+ 3.8	10:29	-1.3	+ 250	
"	0+75 E	+ 3.8	10:31	-1.3	+ 250	
"	0+50 E	+ 3.0	10:32	-1.3	+ 170	
"	0+25 E	+ 3.1	10:33	-1.3	+ 180	
"	B.L.	+ 2.9	10:34	-1.3	+ 160	
"	0+25 W	+ 3.2	10:37	-1.3	+ 190	
"	0+50 W	+ 1.6	10:39	-1.3	+ 30	
"	0+75 W	+ 2.2	10:41	-1.3	+ 90	
"	1+00 W	+ 2.5	10:43	-1.3	+ 120	
"	1+25 W	+ 2.3	10:44	-1.3	+ 100	
"	1+50 W	+ 3.2	10:46	-1.3	+ 190	
"	1+75 W	+ 3.8	10:47	-1.3	+ 250	
"	2+00 W	+ 4.6	10:49	-1.3	+ 330	
"	2+25 W	+ 5.6	10:50	-1.3	+ 430	
"	2+50 W	+ 5.1	10:51	-1.3	+ 380	
"	2+75 W	+ 5.1	10:53	-1.3	+ 380	
"	3+00 W	+ 5.4	10:54	-1.3	+ 410	
"	3+25 W	+ 7.6	10:55	-1.3	+ 630	
"	3+50 W	+ 7.9	10:57	-1.4	+ 650	
"	3+75 W	+ 8.8	10:58	-1.4	+ 740	
"	4+00 W	+ 10.0	11:00	-1.4	+ 860	
"	4+25 W	+ 12.0	11:02	-1.4	+ 1060	
"	4+50 W	+ 12.0	11:05	-1.4	+ 1060	
"	4+75 W	+ 11.7	11:07	-1.4	+ 1030	
"	5+00 W	+ 10.0	11:09	-1.4	+ 860	
"	5+25 W	+ 8.5	11:10	-1.4	+ 710	
"	5+50 W	+ 8.6	11:11	-1.4	+ 720	loading variable.
"	5+75 W	+ 7.4	11:13	-1.4	+ 600	
"	6+00 W	+ 6.9	11:14	-1.4	+ 550	
"	6+25 W	+ 7.2	11:16	-1.4	+ 580	

OCT 28 / 79

LINE	STATION	READING	TIME	CORR.	FINAL Z.	COMMENTS
1+00 N	6+50 W	+ 6.0	11:19 a.m.	-1.4	+ 460	Reading variable.
"	6+75	+ 4.8	11:20	-1.4	+ 340	" "
"	7+00 W	+ 4.0	11:22	-1.4	+ 260	
"	7+25	+ 2.7	11:23	-1.4	+ 130	
"	7+50	+ 2.9	11:25	-1.4	+ 150	
"	7+75	+ 3.0	11:26	-1.4	+ 140	Reading variable.
"	8+00 W	+ 3.5	11:27	-1.4	+ 210	
"	8+25	+ 3.0	11:29	-1.4	+ 160	
"	8+50	+ 2.0	11:30	-1.4	+ 60	
"	8+75	+ 3.8	11:31	-1.4	+ 290	
"	9+00 W	+ 3.3	11:32	-1.4	+ 190	
"	9+25	+ 2.2	11:34	-1.4	+ 80	
"	9+50	+ 2.1	11:35	-1.4	+ 70	
"	9+75	+ 3.2	11:36	-1.4	+ 180	
"	10+00 W	+ 4.1	11:37	-1.4	+ 270	
"	10+25	+ 4.0	11:38	-1.4	+ 260	
~~~~~						
Recheck: 1+00 N	5+00 W	+ 10.5	11:52 a.m.	-1.4	+ 910	Check reading.
0 - N	5+00 W	+ 12.5	12:04	-1.4	+ 1110	(cf: +860 previous)
"	4+75	+ 13.5	12:05	-1.4	+ 1210	
"	4+50	+ 13.5	12:07	-1.5	+ 1200	
"	4+25	+ 12.0	12:08	-1.5	+ 1050	
"	4+00 W	+ 9.5	12:10	-1.5	+ 800	
"	3+75	+ 8.3	12:11	-1.5	+ 680	
"	3+50	+ 8.5	12:13	-1.5	+ 720	
"	3+25	+ 7.0	12:15	-1.5	+ 550	
"	3+00 W	+ 6.6	12:16	-1.5	+ 510	
"	2+75	+ 5.5	12:17	-1.5	+ 400	
"	2+50	+ 4.8	12:18	-1.5	+ 330	
"	2+25	+ 4.4	12:20	-1.5	+ 290	
"	2+00 W	+ 4.0	12:21	-1.5	+ 250	Reading variable.
"	1+75	+ 4.1	12:23	-1.5	+ 260	" "
"	1+50	+ 4.0	12:25	-1.5	+ 250	" "
"	1+25	+ 2.0	12:26	-1.5	+ 50	
"	1+00 W	+ 1.8	12:27	-1.5	+ 30	
"	0+75	+ 2.7	12:29	-1.5	+ 120	

OCT. 28 / 79

LINE	STATION	READING	TIME	CORR.	FINAL Z.	COMMENTS.
O - N	0+50 W	+1.4	12:31 a.m.	-1.5	-10	
"	0+25	+1.8	12:34	-1.5	+30	Reading variable.
O - N	0 - W	+2.0	12:36	-1.5	+50	" "
O - N	0 - W	+1.8	12:38	-1.5	+30	" " Rerack
O - N	0 - W	+1.9	12:42	-1.5	+40	" " Rerack
Average Base station reading = +1.9				∴ correction to bring it to		
Initial Base value of 40 ft is				-1.5 units		
Base at start of day was:				+1.6		
at end:				+1.9		
∴ Need Diurnal var:				-0.3 to distribute		
∴ 9:16am - 9:46 use				-1.2 CORR.		
9:46 am - 10:56 use				-1.3 "		
10:56 am - 12:06 use				-1.4 "		
12:06 - 2:39 use				-1.5 "		

Oct. 29/79.

LINE	STATION	READING	TIME	CORR.	FINAL	COMMENTS
B.L.	0 - N	+1.1	10:22 a.m.	-0.7	<u>+40</u>	Reading Variable.
B.L.	0+50 S	+2.0	10:24	-0.7	+130	
B.L.	1+00 S	+1.5	10:26	-0.7	+80	
B.L.	1+50 S	+0.6	10:28	-0.7	-10	
B.L.	2+00 S	+1.7	10:31	-0.7	+100	
B.L.	2+50 S	+1.4	10:33	-0.7	+70	
B.L.	3+00 S	+2.1	10:36	-0.7	+140	
B.L.	3+50 S	+2.7	10:38	-0.7	+200	
B.L.	4+00 S	+2.8	10:40	-0.7	+210	
B.L.	4+50 S	+3.0	10:42	-0.7	+230	
B.L.	5+00 S	+3.4	10:44	-0.7	+270	
B.L.	5+50 S	+3.8	10:45	-0.7	+310	
B.L.	6+00 S	+3.8	10:48	-0.7	+310	
B.L.	6+50 S	+3.5	10:50	-0.7	+280	
B.L.	7+00 S	+3.0	10:52	-0.7	+230	
B.L.	7+50 S	+2.5	10:54	-0.7	+180	
B.L.	8+00 S	+3.2	10:56	-0.7	+250	
B.L.	8+50 S	+3.6	10:58	-0.7	+290	
B.L.	9+00 S	+3.7	11:01	-0.7	+300	

9+00 S	0+25 E	+2.8	11:03	-0.7	+210	
"	0+50 E	+3.4	11:04	-0.7	+270	
"	0+75 E	+3.7	11:05	-0.7	+300	
"	1+00 E	+3.8	11:09	-0.7	+310	
"	1+25 E	+3.4	11:10	-0.7	+270	
"	1+50 E	+4.2	11:12	-0.7	+350	
"	1+75 E	+3.0	11:13	-0.7	+230	
"	1+87 E	+3.4	11:14	-0.7	+270	
"	2+00 E	+3.3	11:15	-0.7	+260	
"	2+25 E	+3.5	11:16	-0.7	+280	
"	2+50 E	+4.1	11:18	-0.7	+340	
"	2+75 E	+3.2	11:19	-0.7	+250	Reading variable.
"	2+87 E	+4.1	11:22	-0.7	+340	
"	3+00 E	+5.0	11:21	-0.7	+430	
"	3+06 E	+4.3	11:25	-0.7	+360	
"	3+12 E	+3.7	11:24	-0.7	+300	
"	3+25 E	+3.7	11:25	-0.7	+300	

RKH FIELD PROPERTY

Scale: 1 unit = 100 ft

Oct. 29/79.

LINE	STATION	READING	TIME	CORR.	FINAL	COMMENTS
9+00 S	3+37 E	+4.7	11:26 a.m.	-0.7	+400	
"	3+50	+3.9	11:27	-0.7	+320	
"	3+62	+3.9	11:29	-0.7	+320	
"	3+75	+3.8	11:30	-0.7	+310	
"	3+87	+3.4	11:31	-0.7	+270	
"	4+00 E	+3.4	11:32	-0.7	+270	
<u>~~~~~</u>						
10+00 S	3+75 E	+3.0	11:42	-0.7	+230	
"	3+50 E	+4.0	11:45	-0.7	+330	
"	3+25	+4.0	11:47	-0.7	+330	
"	3+00 E	+2.6	11:49	-0.7	+190	
"	2+75	+3.2	11:51	-0.7	+250	
"	2+62	+3.2	11:52	-0.7	+250	
"	2+50	+2.8	11:53	-0.7	+210	
"	2+25	+2.3	11:56	-0.7	+160	
"	2+00 E	+2.8	11:58	-0.7	+210	
"	1+75	+3.8	12:00	-0.7	+310	
"	1+50	+2.6	12:01	-0.7	+190	
"	1+25	+3.0	12:03	-0.7	+230	
"	1+00 E	+3.2	12:05	-0.7	+250	
"	0+87	+4.0	12:07	-0.7	+330	
"	0+75	+4.2	12:06	-0.7	+350	
"	0+62	+3.9	12:08	-0.7	+320	
"	0+50	+3.7	12:09	-0.7	+300	
"	0+25 E	+3.6	12:11	-0.7	+290	
"	B.L. 0-E	+4.0	12:13	-0.7	+330	
<u>~~~~~</u>						
B.L.	11+00 S	+6.0	12:19	-0.7	+530	
B.L.	10+75 S	+5.4	12:20	-0.7	+470	
B.L.	10+50 S	+4.8	12:22	-0.7	+410	
B.L.	10+25 S	+5.5	12:23	-0.7	+480	
B.L.	10+00 S	+5.4	12:24	-0.7	+470	
B.L.	9+75 S	+4.8	12:26	-0.7	+410	Reading variable
B.L.	9+50 S	+4.0	12:29	-0.7	+330	"
B.L.	9+25 S	+4.0	12:30	-0.7	+330	"
Recheck: B.L.	9+00 S	+3.8	12:32	-0.7	+310	Check reading: (cf. 300 feet 11:01 a.m.)

(was 3.9 at 11:01 a.m.)

Oct. 29 / 79

LINE	STATION	READING	TIME	CORR.	FINAL	COMMENTS
9+00 S	0+25 W	+4.4	12:34 pm	-0.7	+370	
"	0+50	+4.5	12:37	-0.7	+380	Reading variable.
"	0+75	+5.0	12:39	-0.7	+430	" "
"	1+00 W	+5.0	12:41	-0.7	+430	" "
"	1+25	+6.5	12:43	-0.7	+580	On claim line 1+30
"	1+50	+7.3	12:45	-0.7	+660	
"	1+75	+6.1	12:47	-0.7	+540	Reading variable.
"	2+00 W	+7.5	12:49	-0.7	+680	
"	2+25	+7.5	12:51	-0.7	+680	
"	2+50	+7.2	12:52	-0.7	+650	
"	2+75	+7.7	12:54	-0.7	+700	
"	3+00 W	+7.5	12:56	-0.7	+680	Reading variable.
"	3+25	+7.5	12:57	-0.7	+680	
"	3+50	+8.7	12:59	-0.7	+800	" "
"	3+75	+8.2	1:01 pm	-0.7	+750	
"	4+00 W	+8.6	1:03	-0.7	+790	
"	4+25	+8.7	1:04	-0.7	+800	
"	4+50	+8.7	1:06	-0.7	+800	
"	4+75	+9.0	1:07	-0.7	+830	
"	5+00 W	+9.7	1:09	-0.7	+900	
"	5+25	+9.9	1:11	-0.7	+920	
"	5+50	+10.5	1:14	-0.7	+980	
DATA						
10+00 S	5+50 W	+9.8	1:19	-0.7	+910	Eside of gully.
"	5+75 W	-4.2	1:22	-0.7	-490	W. " " on Volcanics
"	5+87 W	+0.8	1:23	-0.7	+100	
"	6+00 W	+1.8	1:25	-0.8	+100	Reading variable.
"	6+12	-1.4	1:26	-0.8	-220	
"	6+25	-3.5	1:27	-0.8	-430	" "
"	6+37	0.0	1:28	-0.8	-80	" "
"	6+50	0.0	1:29	-0.8	-80	
"	6+62	+0.6	1:30	-0.8	-20	
"	6+75	+3.0	1:31	-0.8	+220	
"	6+87	-2.0	1:33	-0.8	-280	
"	7+00 W	-3.2	1:34	-0.8	-400	" "
"	7+12	-3.0	1:37	-0.8	-380	" "
"	7+25 W	-2.5	1:38	-0.8	-330	

on Late Volcanics

Oct. 29 / 79

LINE	STATION	READING	TIME	CORR.	FINAL Z.	COMMENTS.	
↑ On Late Volcanics ↓	10+00 S	7+37 W	-1.0	1:40 pm	-0.8	-180	
	"	7+50	-2.4	1:41	-0.8	-320	Reading variable.
	"	7+62	-3.9	1:42	-0.8	-470	
	"	7+75	+2.2	1:43	-0.8	+140	
	"	7+87	+5.1	1:44	-0.8	+430	
	"	8+00 W	+3.4	1:45	-0.8	+260	" "
	"	8+12	+2.4	1:47	-0.8	+160	" "
	"	8+25 W	-1.0	1:48	-0.8	-180	Edge of gully.
	"	Recheck 8+00 W	+3.5	1:50	-0.8	+270	Cf +260 earlier.
	"	Recheck 7+50 W	-1.4	1:52	-0.8	-220	Cf -320 earlier
	"	Recheck 6+50 W	-0.5	1:56	-0.8	-130	Cf -80 at 1:29.
	"	Recheck 6+00 W	0.0	1:58	-0.8	-80	Cf +100 at 1:25.
	"	Recheck 5+75 W	-4.0	2:00	-0.8	-480	Cf -490 at 1:22
	"	Recheck 5+50 W	+7.2	2:07	-0.8	+640	Cf +910 at 1:19.
	"	5+37	+7.2	2:08	-0.8	+640	
	"	5+25	+7.1	2:09	-0.8	+630	
	"	5+00 W	+7.7	2:11	-0.8	+690	
	"	4+75	+8.7	2:12	-0.8	+790	
	"	4+50	+8.4	2:14	-0.8	+760	
	"	4+25	+8.7	2:15	-0.8	+790	
	"	4+00 W	+9.6	2:16	-0.8	+880	
	"	3+75	+9.7	2:17	-0.8	+890	
	"	3+50	+10.0	2:18	-0.8	+920	
	"	3+25	+9.8	2:20	-0.8	+900	
	"	3+00 W	+11.5	2:21	-0.8	+1070	
	"	2+75	+13.0	2:23	-0.8	+1220	
	"	2+50	+14.5	2:25	-0.8	+1370	
	"	2+25	+14.0	2:27	-0.8	+1320	
	"	2+00 W	+11.0	2:28	-0.8	+1020	
	"	1+75 W	+8.7	2:30	-0.8	+790	
"	1+50	+7.1	2:32	-0.8	+630		
"	1+25	+5.8	2:33	-0.8	+500		
"	1+00 W	+5.7	2:35	-0.8	+490		
"	0+75	+5.2	2:36	-0.8	+440		
"	0+50	+4.3	2:38	-0.8	+350		
"	0+25	+3.8	2:39	-0.8	+300		
"	0-W	+4.5	2:41	-0.8	+370		

Oct. 29 / 79

LINE	STATION	READING	TIME	CORR.	FINAL Z.	COMMENTS
B.L.	9+50 S	+4.0	2:44	-0.8	+320	Cf +330 at 12:29.
"	9+00 S	+4.1	2:47	-0.8	+330	Cf +310 at 12:32
"	8+50 S	+3.0	2:49	-0.8	+220	Cf +290 at 10:58
"	8+00 S	+3.3	2:51	-0.8	+250	Cf +250 at 10:56
"	7+50 S	+2.4	2:53	-0.8	+160	Cf +180 at 10:54
"	7+00 S	+2.8	2:55	-0.8	+200	Cf +230 at 10:52
"	6+50 S	+3.6	2:59	-0.8	+280	Cf +280 at 10:50
"	6+00 S	+3.6	3:01	-0.8	+280	Cf. +310 at 10:48.
"	5+50 S	+3.0	3:03	-0.8	+220	Cf +310 at 10:45
"	5+00 S	+3.2	3:05	-0.8	+240	Cf. +270 at 10:44
"	4+50 S	+3.2	3:13	-0.8	+240	Cf +230 at 10:42
"	4+00 S	+3.2	3:15	-0.8	+240	Cf. +210 at 10:40
"	3+50 S	+2.7	3:17	-0.8	+190	Cf +200 at 10:38
"	3+00 S	+2.0	3:19	-0.8	+120	Cf +140 at 10:36
"	2+50 S	+1.2	3:21	-0.8	+40	Cf +70 at 10:33
"	2+00 S	+2.7	3:23	-0.8	+190	Cf +100 at 10:31
"	1+50 S	+1.0	3:26	-0.8	+20	Cf -10 at 10:28
"	1+00 S	+1.2	3:29	-0.8	+40	Cf +80 at 10:26
"	0+50 S	+3.7	3:31	-0.8	+290	Cf +130 at 10:24
"	0 N	+1.8	3:33	-0.8	+100	Cf +40 at 10:22
B.L. Recheck	0 N	+2.0	3:58	-0.8	+120	" " "
B.L.	0+51 N	+1.6	4:00	-0.8	+80	Reading variable
"	1+00 N	+3.2	4:02	-0.8	+240	
"	1+50 N	+2.3	4:04	-0.8	+250	
"	2+00 N	+3.5	4:06	-0.8	+270	
"	2+50 N	+3.4	4:10	-0.8	+260	Reading variable
" Recheck	2+50 N	+2.6	4:14	-0.8	+180	Cf +260 at 4:10
"	2+00 N	+4.2	4:16	-0.8	+340	Cf +270 at 4:06
"	1+50 N	+2.7	4:18	-0.8	+190	Cf +250 at 4:04
"	1+00 N	+3.9	4:20	-0.8	+310	Cf +240 at 4:02
"	0+51 N	+2.0	4:22	-0.8	+120	Cf +80 at 4:00
"	0 N	+1.2	4:24	-0.8	+40	BASE VALUE.
CORRECTIONS : At 10:22, +1.1 so needs CORR. -0.7 to bring to BASE VALUE of +40						
At 4:24, +1.2 " " " -0.8 " " " " +40.						
∴ Use -0.7 from 10:22 to 1:23 pm						
And -0.8 " 1:24 to 4:24 pm.						

Nov. 1 / 79

LINE	STATION	READING	TIME	CORR.	FINAL Z.	COMMENTS
B.L.	0 - N	+ 1.7	12:44 pm	- 1.3	+ 40	BASE VALUE
"	1 + 00 N	+ 3.0	12:50	- 1.3	+ 170	Cf +240, +310 Oct. 29.
"	2 + 00 N	+ 3.5	12:53	- 1.3	+ 230	Cf +270, +340 Oct. 29
"	3 + 00 N	+ 3.9	12:57	- 1.4	+ 250	
"	4 + 00 N	+ 7.5	1:01	- 1.4	+ 610	
"	5 + 00 N	+ 8.8	1:04	- 1.4	+ 740	
5 + 00 N	0 + 25 W	+ 9.6	1:07	- 1.4	+ 820	
"	0 + 50 W	+ 7.1	1:08	- 1.4	+ 570	
"	0 + 75 W	+ 5.3	1:09	- 1.4	+ 390	
"	1 + 00 W	+ 4.8	1:10	- 1.4	+ 340	
"	1 + 25	+ 3.8	1:12	- 1.4	+ 340	
"	1 + 50	+ 4.3	1:13	- 1.4	+ 290	
"	1 + 75	+ 5.4	1:14	- 1.4	+ 400	
"	2 + 00 W	+ 6.4	1:16	- 1.4	+ 500	
"	2 + 25	+ 4.6	1:17	- 1.5	+ 310	
"	2 + 50	+ 3.8	1:18	- 1.5	+ 230	
"	2 + 75	+ 3.5	1:19	- 1.5	+ 200	
"	3 + 00 W	+ 3.9	1:20	- 1.5	+ 240	
"	3 + 25	+ 3.4	1:22	- 1.5	+ 190	
"	3 + 50	+ 4.0	1:23	- 1.5	+ 250	
"	3 + 75	+ 3.0	1:25	- 1.5	+ 150	
"	4 + 00 W	+ 4.0	1:26	- 1.5	+ 250	
"	4 + 25	+ 3.4	1:29	- 1.5	+ 190	
"	4 + 50	+ 3.8	1:31	- 1.5	+ 230	
"	4 + 75	+ 4.9	1:33	- 1.5	+ 340	
"	5 + 00 W	+ 5.8	1:34	- 1.5	+ 430	
"	5 + 25	+ 5.7	1:35	- 1.5	+ 420	
"	5 + 50	+ 6.3	1:36	- 1.5	+ 480	
"	5 + 75	+ 5.6	1:38	- 1.5	+ 410	
"	6 + 00 W	+ 5.7	1:39	- 1.6	+ 410	
"	6 + 25	+ 5.6	1:41	- 1.6	+ 400	
"	6 + 50	+ 5.2	1:42	- 1.6	+ 360	
"	6 + 75	+ 4.6	1:44	- 1.6	+ 300	
"	7 + 00 W	+ 3.8	1:45	- 1.6	+ 220	
"	7 + 25	+ 4.2	1:46	- 1.6	+ 260	
"	7 + 50	+ 4.2	1:47	- 1.6	+ 260	
"	7 + 75	+ 5.6	1:49	- 1.6	+ 400	

Nov. 1 / 79

LINE	STATION	READING	TIME	CORR.	FINAL Z.	COMMENTS
5+00 N	8+00 W	+6.3	1:51 pm	-1.6	+470	
"	8+25	+8.0	1:52	-1.6	+640	
"	8+50	+8.2	1:53	-1.6	+660	
"	8+75	+9.2	1:55	-1.6	+760	
"	9+00 W	+9.2	1:56	-1.6	+760	
"	9+25	+9.3	1:57	-1.6	+770	
"	9+50	+9.5	1:58	-1.6	+790	
"	9+75	+10.0	1:59	-1.6	+840	
"	10+00 W	+10.0	2:00	-1.6	+840	
"	10+25	+9.0	2:02	-1.7	+730	
		RECHECK				
" Recheck	5+00 W	+6.0	2:17	-1.7	+430	Cf: +430 at 1:34
		RECHECK				
4+75 N	5+00 W	+5.7	2:19	-1.7	+400	
4+50 N	4+75 W	+4.8	2:21	-1.7	+310	
4+25 N	4+56 W	+5.2	2:23	-1.8	+340	
4+00 N	4+50 W	+3.0	2:25	-1.8	+120	
4+00 N	4+75 W	+2.8	2:27	-1.8	+100	
4+00 N	5+00 W	+4.0	2:28	-1.8	+220	
"	4+50 W	+3.5	2:31	-1.8	+170	
"	4+25 W	+3.2	2:32	-1.8	+140	Reading variable
"	4+00 W	+4.0	2:34	-1.8	+220	
"	3+75	+4.4	2:35	-1.8	+260	
"	3+50	+4.0	2:37	-1.8	+220	
"	3+25	+4.0	2:38	-1.8	+220	Reading variable
"	3+00 W	+3.8	2:40	-1.8	+200	
"	2+75	+4.8	2:41	-1.8	+300	
"	2+50	+5.4	2:43	-1.8	+360	
"	2+25	+5.2	2:44	-1.8	+340	
"	2+00 W	+5.0	2:45	-1.9	+310	
"	1+75	+5.1	2:46	-1.9	+320	
"	1+50	+5.7	2:47	-1.9	+380	
"	1+25	+7.2	2:49	-1.9	+530	
"	1+00 W	+8.0	2:50	-1.9	+610	
"	0+75	+8.7	2:52	-1.9	+680	
"	0+50	+8.7	2:53	-1.9	+680	
"	0+25	+8.0	2:54	-1.9	+610	

Nov. 1 / 79

LINE	STATION	READING	TIME	CORR.	FINAL	COMMENTS
4+00 N	0 - W	+7.2	2:55 p.m.	-1.9	+530	Reading variable.
"	0+25 E	+7.2	2:57	-1.9	+530	
"	0+50	+5.7	2:59	-1.9	+380	
"	0+75	+6.3	3:00	-1.9	+440	
"	1+00 E	+6.7	3:01	-1.9	+480	
"	1+25	+7.5	3:03	-2.0	+550	
"	1+50	+7.0	3:04	-2.0	+550	
"	1+75	+5.0	3:06	-2.0	+300	Reading Variable
"	2+00 E	+6.1	3:09	-2.0	+410	" "
"	2+25	+7.6	3:11	-2.0	+560	2 Pits 10 m. N.
"	2+50	+6.5	3:15	-2.0	+450	
"	2+75	+7.1	3:17	-2.0	+510	
"	3+00 E	+6.2	3:18	-2.0	+420	
"	3+25	+4.9	3:19	-2.0	+290	
"	3+50	+5.6	3:21	-2.0	+360	
"	3+75	+5.0	3:23	-2.0	+300	
"	4+00 E	+5.0	3:24	-2.0	+300	
=====						
Tie - Line						
4+00 E	4+25 N	+4.5	3:26	-2.0	+250	
"	4+50 N	+6.9	3:27	-2.0	+490	Reading variable.
"	4+75 N	+6.6	3:29	-2.0	+460	
"	5+00 N	+5.5	3:38	-2.1	+340	
=====						
5+00 N	3+75 E	+5.4	3:40	-2.1	+330	
"	3+50	+5.6	3:41	-2.1	+350	
"	3+37	+5.8	3:41	-2.1	+370	
"	3+25	+9.0	3:42	-2.1	+690	
"	3+19	+8.5	3:44	-2.1	+640	
"	3+00 E	+6.0	3:46	-2.1	+390	
"	2+75	+5.6	3:47	-2.1	+350	
"	2+50	+6.0	3:48	-2.1	+390	
"	2+25	+6.9	3:49	-2.1	+480	
"	2+00 E	+7.3	3:50	-2.1	+520	
"	1+75	+7.1	3:51	-2.1	+500	
"	1+50	+7.0	3:52	-2.1	+490	
"	1+25 E	+7.2	3:53	-2.1	+510	Reading variable.

Nov. 1 / 79

LINE	STATION	READING	TIME	CORR.	FINAL	COMMENTS
5+00 N	1+00 E	+8.0	3:55 p.m.	-2.1	+590	
"	0+75	+6.2	3:56	-2.1	+410	
"	0+50	+5.6	3:56	-2.1	+350	
"	0+25	+8.0	3:57	-2.1	+530	
"	0+0 E: B.L.	+9.6	3:59	-2.1	+750	Cf: +740 at 1:04 pm
" Recheck	0. E	+9.6	3:59	-2.2	+740	
B.L.	4+75 N	+11.2	4:01	-2.2	+900	
"	4+50 N	+10.4	4:02	-2.2	+820	
"	4+25 N	+9.0	4:03	-2.2	+680	
"	4+00 N	+7.5	4:04	-2.2	+530	Reading variable. Cf)
"	3+75 N	+6.6	4:06	-2.2	+440	(+610 at 1:01)
"	3+50 N	+5.5	4:08	-2.2	+330	
"	3+25 N	+5.0	4:09	-2.2	+280	
"	3+00 N	+4.8	4:10	-2.2	+260	Cf +250 at 12:57
"	2+50 N	+4.1	4:12	-2.2	+190	
"	2+00 N	+4.2	4:14	-2.3	+190	Cf: +230 at 12:53
"	0 N	+2.7	4:20	-2.3	<u>+40</u>	BASE VALUE

Corrections:

Initial Reading at Base Station = +1.7

Final " " " " = +2.7

Must correct to BASE VALUE of 0.4

∴ At start, CORR. = -1.3

At end, CORR. = -2.3

Increase CORR. by 0.1 every 21.6 minutes.

Oct. 31 / 79

LINE	STATION	READING	TIME	CORR.	FINAL	COMMENTS
B.L.	O - N	+ 1.9	11:59 am	-1.5	+ 40	BASE VALUE
5+00 S	O - E. 8L	+ 3.8	12:14 pm	-1.5	+ 230	
"	0+25 W	+ 2.1	12:15	-1.5	+ 60	
"	0+50	+ 2.8	12:17	-1.5	+ 130	
"	0+75	+ 3.4	12:19	-1.5	+ 190	Reading variable.
"	1+00 W	+ 3.3	12:20	-1.5	+ 180	
"	1+25	+ 6.3	12:21	-1.5	+ 480	
"	1+50	+ 2.8	12:22	-1.5	+ 130	
"	1+75	+ 4.2	12:23	-1.5	+ 270	
"	2+00 W	+ 3.5	12:25	-1.5	+ 200	
"	2+25	+ 3.6	12:27	-1.5	+ 210	
"	2+50	+ 3.5	12:29	-1.5	+ 200	
"	2+75	+ 3.0	12:30	-1.5	+ 150	
"	3+00 W	+ 3.3	12:31	-1.5	+ 180	
"	3+25	+ 4.2	12:33	-1.5	+ 270	
"	3+50	+ 4.6	12:34	-1.6	+ 300	
"	3+75	+ 3.7	12:36	-1.6	+ 210	E. side of gully.
"	4+00 W	+ 4.4	12:38	-1.6	+ 280	W. " " "
"	4+25	+ 7.6	12:40	-1.6	+ 600	
"	4+50	+ 8.4	12:42	-1.6	+ 680	Reading variable.
"	4+75	+ 9.2	12:44	-1.6	+ 760	
"	5+00 W	+ 8.9	12:46	-1.6	+ 730	
"	5+25	+ 9.3	12:48	-1.6	+ 770	E. side of gully.
"	5+50	+ 9.5	12:49	-1.6	+ 790	On bottom.
"	5+75	+ 9.0	12:51	-1.6	+ 740	On bottom.
"	6+25	+ 8.5	12:55	-1.6	+ 690	W. side of gully.
"	6+50	+ 9.6	12:57	-1.6	+ 800	
"	6+75 W	+ 9.5	12:59	-1.6	+ 790	
"	6+75					
"	Recheck 6+25 W	+ 8.5	1:01	-1.6	+ 690	Cf +690 at 12:55.
"	Recheck 6+12 W	+ 8.0	1:02	-1.6	+ 640	
"	Recheck 6+00 W	+ 8.4	1:03	-1.6	+ 680	
"	Recheck 5+75 W	+ 8.0	1:07	-1.6	+ 640	
B.L.	5+00 S	+ 3.7	1:45	-1.7	+ 200	Cf +230 at 12:14.
5+00 S	0+25 E	+ 3.5	1:47	-1.7	+ 180	
"	0+50 E	+ 3.3	1:48	-1.7	+ 160	
"	0+75 E	+ 3.2	1:50	-1.7	+ 150	

Oct. 31 / 79.

LINE	STATION	READING	TIME	CORR.	FINAL	COMMENTS
S+00 S	1+00 E	+ 3.0	1:51 pm	-1.7	+130	
"	1+25	+ 2.9	1:52	-1.7	+120	
"	1+50	+ 3.2	1:53	-1.7	+150	
"	1+75	+ 3.8	1:55	-1.7	+210	
"	2+00 E	+ 3.8	1:56	-1.7	+210	
"	O-E : B.L.	+ 3.7	2:03	-1.7	+200	Baseline station looped.
B.L.	O-N	+ 2.1	2:16	-1.7	+40	BASE VALUE .

Corrections: BASE STATION AT START : +1.9 = 1900 ft
 " " " END : +2.1 = 2100 ft
 BASE VALUE = 400 ft
 : Correction at start = -1.5 units
 " " end = -1.7 units.

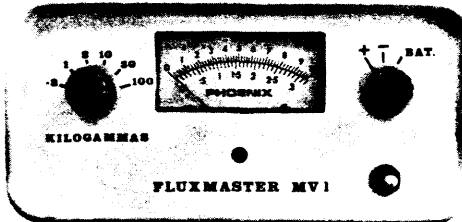
MV-1

Vertical Field Magnetometer

- No cumbersome external sensing head required
- Virtually unlimited tolerance to magnetic gradients
- Self-levelling sensor for extremely rapid operation
- Small, lightweight, rugged
- Six month battery life
- Low cost



Specifications



Sensing Head	: Rugged self-levelling unit gives vertical field for magnetometer up to 10° off vertical.
Meter Display	: 300, 1K, 3K, 10K, 30K, 100K gammas full scale, with plus or minus switch.
Sensitivity	: 5 gammas on 300 gamma range.
Latitude Adjustment	: ± 100,000 gammas, with easily accessible internal control.
Other Output	: Chart recorder output provided. Input plug for horizontal sensing head also provided.
Operating Temperature	: -40°C to +60°C
Temperature Drift	: Less than 30 gammas over operating temperature range.
Battery Drain	: 10 mA
Batteries	: 2 x 6V rechargeable gel-cells provide six months operation. Gel-cells chargeable from 12V auto battery or line charger.
Case	: Plastic, high impact resistant.
Dimensions	: 17 x 8.5 x 25 cm (7 x 3.5 x 10 inches)
Weight	: With batteries 1.75 kg (3.9 lb)



PHOENIX GEOPHYSICS LIMITED

Geophysical Consulting and Contracting, Instrument Manufacture, Sale and Lease.

Head Office: 200 Yorkland Blvd. Willowdale, Ont., Canada, M2J 1R6. Tel: (416) 493-6350
1424 - 355 Burrard St. Vancouver, B.C., Canada, V6C 2G8. Tel: (604) 684-2285
2430 N. Huachuca Dr., Tucson, Arizona, U.S.A. 85705. Tel: (602) 884-8542

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA	REMARKS & SLOPE
600	-9	13	24	-8	
625	-7	15	24	-1	
650	-5	10	25	7	
675	-5	11	21	6	
700	-6	8	19	3	
725	-11	10	18	-7	
750	-10	10	20	-6	
775	-9	14	24	-15	
800	-16	21	35	-17	
825	-14	20	41	-2	
850	-7	17	37	6	
875	-6	18	35	3	
900	-9	16	34	9	
925	-12	10	26	29	
950	-9	5	5	35	
975	-9	-4	-9	9	
1000 E	-5	0	-4	-2	
1025	-8	7	-7	-7	
1050	-12	10	3	-31	
1075	-10	14	24	-26	
1100	-8	15	29	-6	
1125	-6	15	30	0	
1150	-10	14	29	6	
1175	-5	10	24	10	
1200	-2	9	19	1	
			23		

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA	REMARKS & SLOPE
400	0	5	10	0-1	
375	-3	6	11	-3	
350	0	7	13	-2	
325	-2	6	13	1	
300	0	6	12	2	
275	2	5	11	2	
250	0	5	10	6	
225	2	0	5	10	
200.	2	0	0	5	
175	2	0	0	-4	
150	-1	4	4	-10	
125	-4	6	10	-10	
100	-2	8	14	-7	
75	2	9	17	-6	
50	-2	11	20	-3	
25W	0	9	20	-7	
BL	-6	18	27		

EM FIELD NOTES Page 21

Property RICHFIELD
Job No. _____
Trans. SeattleDate Nov. 2 1979
Operator JM+GS BLTB
Face E 500

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA	REMARKS & SLOPE
1000 S		9	20	-7	
BL	-6	18	27	-8	
25E	-7	10	28	-3	
50	-10	20	30	-14	
75	-8	19	39	-7	
100	-12	18	37	1	
125	-10	20	38	2	
150	-10	15	35	10	
175	-8	13	28	6	
200	-10	16	29	7	
225	-8	5	21	18	
250	-12	6	11	23	
275	-9	-8	-2	25	
300	-14	-6	-14	4	
325	-16	0	-6	0	
350	-12	-14	-14	15	
375	-12	-7	-21	3	
400	-8	-10	-17	-4	
425	-12	-7	-17	-7	
450	-7	-3	-10	-24	
475	-2	10	7	-25	
500	-9	5	15	-6	
525	0	8	13	-2	
550	0	9	17	-7	
575	-3	11	20	-7	
			24		

Vanover S.S. Checked _____

EM FIELD NOTES Page 22

Property RICHFIELD
Job No. _____
Trans. SeattleDate Nov 2 1979
Operator G.S.
Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA	REMARKS & SLOPE
1000 S					
1000W	1	3			
975	0	5	8		
950	-6	16	21	-24	
925	-3	16	32	-5	
900	-7	10	26	13	
875	1	9	19	19	
850	0	6	15	4	
825	-3	9	15	-2	
800	-7	8	17	-3	
775	-3	10	19	-1	
750	-2	8	18	2	
725	-2	8	16	4	
700	-2	6	14	2	
675	-3	8	14	3	
650	0	3	11	9	
625	0	2	5	11	
600	4	-2	0	2	
575	2	5	3	-15	
550	-4	10	15	-18	
525	2	3	13	8	
500	-1	4	7	4	
475	-4	5	9	-3	
450	-4	5	10	-1	
425	-2	5	10	0	

Vanover S.S. Checked _____

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE

Vancouver B.C. Checked _____

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE
1850	-12	25	24	-16	
1875	-8	15	40	-4	
1900	-9	13	28	17	
1925	-12	10	23	16	
1950	-13	2	12	-4	
1975	-14	25	27	-33	
2000E	-14	20	45		

Vancouver B.C. Checked _____

EM FIELD NOTES Page 19

 Property RICHFIELD
 Job No. _____
 Trans. Seattle

 Date Nov. 1 / 79
 Operator G.S.
 Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REMARKS & SLOPE
900S					
500W	-4	5	10		
475	-3	5	13	-6	
450	-4	8	16	-2	
425	-3	8	15	0	
400	-2	7	16	-4	
375	0	9	19	1	
350	0	10	15	10	
325	2	5	9	8	
300	2	4	7	6	
275	4	3	3	2	
250	2	0	5	-7	
225	0	5	10	-6	
200	1	5	11	-4	
175	0	6	14	-1	
150	-2	8	12	0	
125	2	4	14	-13	
100	0	10	25	-19	
75	-2	15	33	-8	
50	-5	17	33	5	
25W	-6	15	29	1	
BL	-6	14	32	-4	
OSE			33	-16	
56			48		

Vanover S.E. Checked _____

EM FIELD NOTES Page 20

 Property RICHFIELD
 Job No. _____
 Trans. 1000 S Seattle

 Date Nov. 1 / 79
 Operator G.S.
 Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REMARKS & SLOPE
1225E	-10	14	23	-16	
1250	-6	21	35	-7	
1275	-5	9	30	14	
1300	0	12	21	4	
1325	0	14	26	-10	
1350	-6	17	31	-19	
1375	-9	20	47	-14	
1400	-10	25	45	-1	
1425	-9	23	48	7	
1450	-6	15	38	17	
1475	-8	16	31	9	
1500	-3	13	29	27	
1525	-8	9	4	46	
1550	-10	8	-17	21	
1575	-15	9	-17	-18	
1600	-13	10	41	-42	
1625	-11	15	25	-32	
1650	-6	16	31	-4	
1675	-6	13	29	6	
1700	-4	12	25	3	
1725	0	14	26	1	
1750	-2	10	24	-2	
1775	-6	18	28	-9	
1800	-4	15	33	4	
1825	-10	9	24	9	

Vanover S.E. Checked _____

EM FIELD NOTES Page 17

Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct 31 / 79
Operator G.S.
Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE
8005					
500W	-3	5			
475	-4	5	10		
450	-4	8	13	-6	
425	-2	8	16	0	
400	0	5	13	5	
375	2	6	11	3	
350	2	4	10	1	
325	0	6	10	-1	
300	2	5	11	3	
275	1	2	7	9	
250	2	0	2	2	
225	0	5	5	-7	
200	1	4	9	-5	
175	0	6	10	-7	
150	-2	10	16	-12	
125	-2	12	22	-9	
100	-1	13	25	-8	
75	-2	17	30	-9	
50	-5	17	34	-2	
25	-7	15	32	3	
BL	-10	16	31	3	

Vanover S.S. Checked _____

EM FIELD NOTES Page 18

Property RICHFIELD
Job No. _____
Trans. SeattleDate Nov. 1/79
Operator G.S.
Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE
9005					
BL	-6	14			
25E	-6	15	32		
50	-8	18	33	-16	
75	-8	20	48	-18	
100	-9	21	41	1	
125	-11	26	47	-10	
150	-12	25	51	7	
175	-8	15	40	23	
200	-9	13	28	17	
225	-13	10	23	16	
250	-12	2	12	26	
275	-12	-5	-3	7	
300	-14	10	5	-34	
325	-16	21	31	-51	
350	-14	25	46	-22	
375	-14	28	53	-22	
400	-16	40	68		
END					

Vanover S.S. Checked _____

EM FIELD NOTES Page 15

Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct 30/79
Operator C.S.
Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REMARKS & SLOPE
7005+					
500W	-2	8	14		
475	-4	6	11	4	
450	-2	5	10	1	
425	2	5	10	0	
400	-2	5	10	0	
375	-2	5	10	-3	
350	-2	5	13	-3	
325	2	8	13	3	
300	2	5	10	-6	
275	5	5	19	-16	
250	2	14	26	0	
225	2	12	19	2	
200	3	7	14	2	
175	0	7	17	-7	
150	-1	10	21	-6	
125	-1	11	23	-8	
100	0	12	29	-11	
75	-3	17	34	-16	
50	-6	17	35	0	
25W	-8	18	34		
BL	-4	16			

Vancouver B.C. Checked _____

EM FIELD NOTES Page 16

Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct. 31/79
Operator C.S.
Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REMARKS & SLOPE
800S					
BL	-10	16	31	3	
25E	-10	13	29	-2	
50	-12	20	33	-13	
75	-12	22	42	-10	
100	-10	21	43	6	
125	-11	15	36	19	
150	-11	9	24	29	
175	-8	-2	7	29	
200	-8	-3	-5	0	
225	-10	10	7	-40	
250	-10	25	35	-48	
275	-10	30	55	-20	
300	-8	25	55	3	
325	-7	27	52	3	
350	-7	25	52	5	
375	-5	22	47	12	
400	-7	18	40		
425					
450		FND			
475					
500E					

Vancouver B.C. Checked _____

EM FIELD NOTES Page 13

Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct. 30 1979
Operator G.S.
Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA	REMARKS & SLOPE
6005+					
500W	0	12	22		
475	0	10	25	-8	
450	-2	15	30	-5	
425	0	15	30	0	
400	2	15	30	0	
375	2	15	30	3	
350	2	15	27	8	
325	2	12	22	2	
300	0	10	25	-3	
275	2	15	25	5	
250	-2	10	20	5	
225	-2	10	20	-2	
200	-4	10	22	-7	
175	-5	12	27	-9	
150	-4	15	31	-9	
125	0	16	36	-6	
100	-3	20	37	1	
75	-5	17	35	-1	
50	-6	18	38	-5	
25W	-5	20	40	-2	
BL	-4	20			

Vancouver B.C. Checked _____

EM FIELD NOTES Page 14

Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct 30/79
Operator G.S.
Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA	REMARKS & SLOPE
7005+					
BL					
250	-14	17	34	-1	
50	-16	18	35	4	
75	-14	12	30	15	
100	-14	8	20	17	
125	-10	5	13	3	
150	-12	12	17	-17	
175	-12	18	30	-26	
200	-14	25	43	-19	
225	-8	24	42	-6	
250	-4	25	49	4	
275	-3	20	45	-1	
300	-7	30	50	-11	
325	0	26	56	-6	
350	3	30	56	1	
375	1	25	55	13	
400	1	18	43		
END LINE					

Vancouver B.C. Checked _____

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE
			28	5	
50	-4	15	30	2	
25	-6	15	27	8	
BL	-4	12	22		
	-3	10			

Vancouver B.C. Checked _____

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE

Vancouver B.C. Checked _____

EM FIELD NOTES Page 11

Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct 29/79
Operator 65
Face E

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA	REMARKS & SLOPE
5005 675W	0	2			
650	-2	-5	-3		
625	-9	0	-5	-28	
600	-7	25	25	-21	
575	-2	20	22	-8	
550	-3	13	33	27	
525	-2	5	18	22	
500	-2	6	11	4	
475	0	8	14	-7	
450	0	10	18	-6	
425	-2	10	20	8	
400	-4	0	10	5	
375	-2	15	15	-20	
350	0	15	30	-13	
325	0	13	28	1	
300	0	10	23	8	
275	0	10	20	3	
250	-2	10	20	0	
225	-3	10	20	0	
200	-4	10	20	3	
175	-4	7	17	1	
150	-4	12	19	-10	
125	-3	15	27	-8	
100	-4	12	27	2	
75	-2	13	25	-1	

Vanover B.C. Checked _____

EM FIELD NOTES Page 12

Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct 29/79
Operator G.S.
Face E

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA	REMARKS & SLOPE
600S ^W	-5	20	38	-5	
PL	-4	20	40	-4-3	
25E	-4	15	35	10	
50	-3	15	30	5	
75	-3	15	30	5	
100	-2	10	25	5	
125	-3	15	25	-2	
150	3	12	27	3	
175	2	10	22	2	
200	0	15	25	-9	
225	2	16	31	-6	
250	2	15	31	-6	
275	2	22	37	-11	
300	2	20	42	-5	
325	2	22	42	-2	
350	0	22	44	-3	
375	2	23	45	1	
400E	-2	20	43		

Vanover B.C. Checked _____

EM FIELD NOTES Page 9

Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct. 28/79
Operator G.S.
Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA	REMARKS & SLOPE
400W	-12	11	28		
375W	-7	13	33	-6	
350W	-3	20	34	13	
325W	-3	14	24	13	
300W	-5	10	21	33	
275W	-6	11	21	3	
250W	-3	10	18	3	
225W	-4	8	18	-2	
200W	-2	10	20	-4	
175W	-5	10	24	-9	
150W	-4	14	27	-7	
125W	-5	15	31	-2	
100W	-5	16	31	1	
75W	-7	15	30	4	
50W	-4	15	27	8	
25W	-5	12	22	2	
BLW	-2	10	25	-8	
25E	-1	15	30	-6	
50E	-3	15	31	-1	
75E	0	16	31	6	
100E	-2	15	25	11	
125E	5	17	20	5	
150E	4	10	20	5	
175E	5	10	15	10	
200E	4	5			

Vanover B.S. Checked _____

EM FIELD NOTES Page 10

Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct. 29/79
Operator G.S.
Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM OF PAIRS	FILTERED DATA	REMARKS & SLOPE
500S BL	-4	12	27	8	
25E	-3	10	22	10	
50	-2	10	20	7	
75	-2	5	15	7	
100	-2	8	13	2	
125	0	5	13	3	
150	0	0	5	5	
175	2	8	8	-8	
200	1	5	13	-7	
225	2	10	15	-14	
250	2	17	27	-22	
275	2	20	37	-8	
300	2	15	35	7	
325	4	15	30	5	
350	1	15	30	-3	
375	2	18	33	-6	
400	2	18	36	-1	
425	5	16	34	5	
450	2	15	31	4	
475	2	15	30	3	
500	2	8	23	16	
525	0	6	14	7	
550	2	10	16	-6	
575	3	10	20	-4	
600	2	10	20	-5	

Vanover B.S. Checked _____

EM FIELD NOTES Page 7

Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct. 28/79
Operator G.S.
Face E

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REMARKS & SLOPE
30PS BL	-70	12	22	1	
25E	0	10	22	2	
50E	0	10	20	2	
75E	0	10	20	5	
100E	1	5	15	10	
125E	2	5	10	5	
150E	1	5	10	5	
175E	9	0	5	7	
200E	3	3	3	2	
225E	3	3	3	3	
225E	42	0	0	-2	
250E	5	0	5	-17	
275E	3	5	17	-24	
300E	4	12	29	-25	
325E	4	17	42	-23	
350E	7	25	52	-8	
375E	-2	27	50	12	
400E	3	23	40	18	
425E	2	17	32	13	
450E	1	15	27	2	
475E	0	12	30		
500E	1	8			

Vicover S.S. Checked _____

EM FIELD NOTES Page 8

Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct 28/79
Operator G.S.
Face E

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REMARKS & SLOPE
300S					
500W					
475					
450	ETW	✓			
425				✓	
400	-2	6	28		
375	-7	22	42	-3	
350	-4	20	31	22	
325	2	11	20	16	
300	2	4	15	6	
275	3	6	14	1	
250	2	8	14	2	
225	1	6	12	2	
200	2	6	12	-4	
175	2	6	16	-10	
150	0	10	22	-9	
125	2	12	25	-6	
100	0	13	28	-3	
75	-4	15	28	5	
50	-6	13	23	6	
25W	-8	10	22	1	
BL	-10	12			

Vicover S.S. Checked _____

EM FIELD NOTES

Page 5

Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct 27 / 79
Operator G.S.
Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REMARKS & SLOPE
100S BL	-16	6	11	-5	
25	-15	4	15	-4	
50	-12	6	15	1	
75	-14	8	14	3	
100	-4	4	12	3	
125	-6	7	11	-11	
150	-10	16	23	-24	
175	-10	19	35	-16	
200	-10	20	39	-5	
225	-7	20	40	9	
250	-6	10	30	20	
275	-2	10	20	13	
300	0	7	17	5	
325	0	8	15	-6	
350	-4	15	23	-15	
375	-2	15	30	-7	
400	-3	15	30	-3	
425	0	18	33	0	
450	-2	12	30	21	
475	-2	0	12	35	
500E	0	5	-5		

Vancouver B.C. Checked _____

EM FIELD NOTES

Page 6

Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct 27 / 79
Operator G.S.
Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REMARKS & SLOPE
100S					
1000W					
975					
950					
925					
900					
875					
850					
825					
800					
775					
750					
725					
700					
675					
650					
625					
600					
575					
550					
525					
500	4	9			
475	4	5	14		
450	5	5	10	4	
425	2	5	10	5	

Vancouver B.C. Checked _____

A
YR B W Z

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE
400	3	5	15	5	
375	1	5	10	1	
350	0	7	12	-7	
325	-3	10	17	-8	
300	-2	10	20	-3	
275	-2	10	20	0	
250	-2	10	20	2	
225	0	8	18	2	
200	0	10	18	-3	
175	0	11	21	-2	
150	0	9	20	1	
125	-2	11	20	1	
100	-3	8	19	10	
75	-5	2	10	-8	
50	-16	25	27	-33	
25	-11	18	43	-7	
BL	-9	16	34		

Vancouver B.C. Checked _____

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE

Vancouver B.C. Checked _____

EM FIELD NOTES Page 3Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct 27/79
Operator G.S.
Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE
100N					
1000W	-2	10	19		
975	0	9	19	2	
950	-2	10	17	5	
925	-3	7	14	4	
900	-2	7	13	2	
875	1	6	12	2	
850	-1	6	11	2	
825	-1	5	10	1	
800	2	5	10	0	
775	0	5	10	0	
750	1	5	10	-3	
725	2	5	13	-7	
700	4	8	17	-2	
675	2	9	15	5	
650	2	6	12	-4	
625	6	6	19	-16	
600	-4	13	28	-10	
575	-3	15	29	3	
550	-6	14	25	8	
525	-8	11	21	7	
500	-5	10	18	6	
475	-5	8	15	5	
450	-3	7	13	2	
425	0	5	13	3	

Vancouver B.C. Checked _____

① Seattle, to right top of page
② WEM FIELD NOTES Page 4Property RICHFIELD
Job No. _____
Trans. SeattleDate Oct 27/79
Operator G.S.
Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE
100N 1000W		5	10		
		5	15	-25	
875		10	35	-20	
		25	35	30	
900		10	15	45	
		-5	-10	15	
850W		-5	-10	-10	
		-5	0	-20	
		5	10		
		5			

Vancouver B.C. Checked _____

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE
400	-1	10	20	-5	
375	-1	13	23	-6	
350	0	13	26	-3	
325	-1	13	26	-2	
300	-2	15	28	-2	
275	0	13	28	-1	
250	-2	16	29	-2	
225	-2	14	30	2	
200	-2	13	27	4	
175	0	13	26	-1	
150	-2	15	28	-3	
125	-2	14	29	0	
100	-2	14	28	0	
75	-2	15	29	-2	
50	0	15	30	-1	
25	2	15	30	0	
BL	0	15	30		

Vancouver B.C. Checked _____

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE
600	5	-5	1	0	
625	-2	6	1	-17	
650	-6	12	18	-33	
675	-6	22	34	-36	
700	-8	32	54	-26	
725	-8	28	60	-8	
750	-8	34	62	4	
775	-4	22	56	16	
800	-2	24	46	6	
825	-4	26	50	-10	
850	-6	30	56	-8	
875	-4	28	58	3	
900	-6	25	53	8	
925	-6	25	50	8	
950	-7	20	45	23	
975	-4	7	27	38	
1000E	-4	0	7		

Vancouver B.C. Checked _____

EM FIELD NOTES Page 1

 Property RICHFIELD
 Job No. _____
 Trans. Seattle

 Date Oct. 26 179
 Operator G. Schorn
 Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REMARKS & SLOPE
500 N					
1000W	0	8			
975	0	9	17		
950	-2	9	18	0	
925	0	8	17	3	
900	-2	7	15	4	
875	-2	6	13	4	
850	0	5	11	-1	
825	-1	9	14	-4	
800	0	6	15	1	
775	-2	7	13	0	
750	-2	8	15	-1	
725	-2	6	14	1	
700	-1	8	14	-3	
675	-2	9	17	5	
650	0	10	19	-3	
625	0	10	20	-1	
600	-2	10	20	-5	
575	-3	15	25	-7	
550	0	12	27	+5	
525	0	8	20	9	
500	-2	10	18	2	
475	0	8	18	2	
450	0	8	16	0	
425	0	10	18	-4	

Vanover B.C. Checked _____

EM FIELD NOTES Page 2

 Property RICHFIELD
 Job No. _____
 Trans. Seattle

 Date Oct. 26 179
 Operator G.S.
 Face E.

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM PAIRS	FILTERED DATA	REMARKS & SLOPE
100 N			43	-87	
13L	-9	16	34	12	
25E	-10	15	31	9	
50	-10	10	25	21	
75	-6	0	10	15	
100	-8	10	10	-18	
125	-8	18	28	-19	
150	-4	11	29	5	
175	-2	12	23	-3	
200	-6	30	32	-9	
225	-3	12	32	12	
250	-2	8	20	-3	
275	-8	27	35	-43	
300	-10	36	63	-27	
325	-2	26	62	2	
350	-4	35	61	-15	
375	-2	40	75	-9	
400	0	30	70	20	
425	-4	25	55	23	
450	-6	22	47	20	
475	-5	13	35	35	
500	-6	-1	12	41	
525	-4	-5	-6	10	
550	-7	7	2	-7	
575	0	-6	1	1	

Vanover B.C. Checked _____