APPENDIX I: GEOPHYSICAL REPORT
APPENDIX III: GEOTECHNICAL LOGS
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APPENDIX I

GEOPHYSICAL REPORT:

INDUCED POLARIZATION/RESISTIVITY SURVEYS

RAINBOW PROPERTY

BY SCOTT, A: 1994

LOGISTICAL REPORT

INDUCED POLARIZATION/RESISTIVITY SURVEYS

RAINBOW PROPERTY

KAMLOOPS AREA, B.C.

on behalf of

TECK EXPLORATION LTD.
350 - 272 Victoria Street
Kamloops, B. C., V2C 2A2

Field work completed: May 20 to 29, 1994

by

Alan Scott, Geophysicist
SCOTT GEOPHYSICS LTD.
4013 West 14th Avenue
Vancouver, B.C. V6R 2X3

June 3, 1994

TABLE OF CONTENTS

Maps and materials included with report
(all maps at a scale of 1:5000)

Chargeability/resistivity pseudosections	map pocket
One floppy disk with all survey data	map pocket

Additional maps
(reproducible vellums, three blackline copies)

Chargeability/resistivity pseudosections - Lines 13W - 16W	map roll
Chargeability/resistivity pseudosections - Lines 17W - 20W	map roll
Chargeability/resistivity pseudosections - Lines 21W - 25W	map roll
Chargeability contour plan - first separation (a=75/n=1)	map roll
Resistivity contour plan - first separation (a=75/n=1)	map roll

1. INTRODUCTION

An induced polarization/resistivity survey (IP survey) was performed on the Rainbow Property, in the period May 20 to 29, 1994. The survey was conducted by Scott Geophysics Ltd. on behalf of Teck Exploration Ltd.

The pole dipole array was used for the survey, with an "a" spacing of 75 metres and "n" separations of 1, 2, 3, and 4. The current electrode was to the south of the receiving electrodes on all lines surveyed (array heading north).

This report describes the instrumentation and procedures, and presents the survey results.

2. SURVEY LOCATION AND COVERAGE

The Rainbow Property is located approximately 7 kilometers southwest of Kamloops, B.C, immediately to the west of Wollander Lake. Access to the Property is via the Afton/Ajax Haul Roads.

A total of 14.5 line kilometers of IP survey were completed on the Rainbow Property on 13 survey lines at an interline spacing of 100 metres.

3. PERSONNEL

Ken Moir, geophysical technician, was the party chief on the survey, on behalf of Scott Geophysics. Alan Scott, geophysicist, visited the site on May 23.

Jim Oliver, geologist, was the Teck representative for the survey.

4. INSTRUMENTATION AND PROCEDURES

A Scintrex IPR12 receiver and TSQ4 (10 kw) transmitter were used on the IP survey. Readings were taken in the time domain using a 2 second current pulse (0.125 Hz). The chargeability plotted on the accompanying plan maps and pseudosections is for the interval 690 to 1050 milliseconds after shutoff (midpoint at 870 milliseconds), which corresponds to the M7 value for the Scintrex IPR11.

Severe noise problems were encountered on the Rainbow Survey, which proved to be due to the radio transmitter for station CFGC (which broadcasts at 550 kHz with a daytime power of 25 kwatts). The transmision towers are located at the north end of line 1300W. The interference from those radio transmissions precluded performing the survey using a multidipole array of field wires, with a common current source.

The procedure used for the survey was to use two 75 metre coaxial wires, with one ahead and one behind the receiver, and to measure only two "n" separations at a time. Readings were taken independently for the n=1,2 and n=3,4 separations by using two separate current electrode sources. The coaxial sheething was grounded to the common electrode terminal for a given set of dipoles, on the advice of Scintrex. This procedure succeeded in eliminating any antenna pickup effects from the radio transmissions.

Electric field noise induced into the earth from the radio tranmissions did not prove to be a limiting factor. However, since most of the area is characterized by very low resistivities, it was necessary to use very high currents to obtain adequate signal/noise, typically 2 amps for the n=1,2 readings and 5 amps for the n=3,4 readings. It was also necessary to enable the auto-noise reject feature on the IPR12 when operating within 500 metres of the radio towers.

5. RECOMMENDATIONS

A preliminary evaluation of the results of the IP survey at the Rainbow Property indicates the presence of two subparallel zones of moderate to strong chargeability, which merit further investigation. The first zone trends SE from 1500W/450N to 1300W/325N and is open to the NW and SE. The other zone trends SE from 1900W/175N to 1700W/0N and is open to the NW.

Correlation of these results to geological and geochemical information is required before any specific recommendations could be made.

Respectfully Submitted,

Alan Scott, P. Geos.

Statement of Qualifications

for

Alan Scott, Geophysicist

of

4013 West 14th Avenue
Vancouver, B.C. V6R 2X3

I, Alan Scott, hereby certify the following statements regarding my qualifications, and my involvement in the program of work described in this report.

1. The work was performed by individuals sufficiently trained and qualified for its performance.

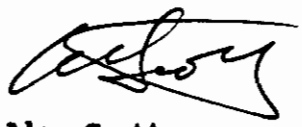
2. I have no material interest in the property under consideration in this report, nor in the company on whose behalf the work was performed.

3. I graduated from the University of British Columbia with a Bachelor of Science degree (Geophysics) in 1970, and with a Master of Business Administration degree in 1982.

4. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

5. I have been practicing my profession as a Geophysicist in the field of Mineral Exploration since 1970.

Respectfully submitted,



Alan Scott

TECK EXPLORATION LTD.

RAINBOW PROPERTY, KAMLOOPS AREA, B.C.

LINE: 1500W

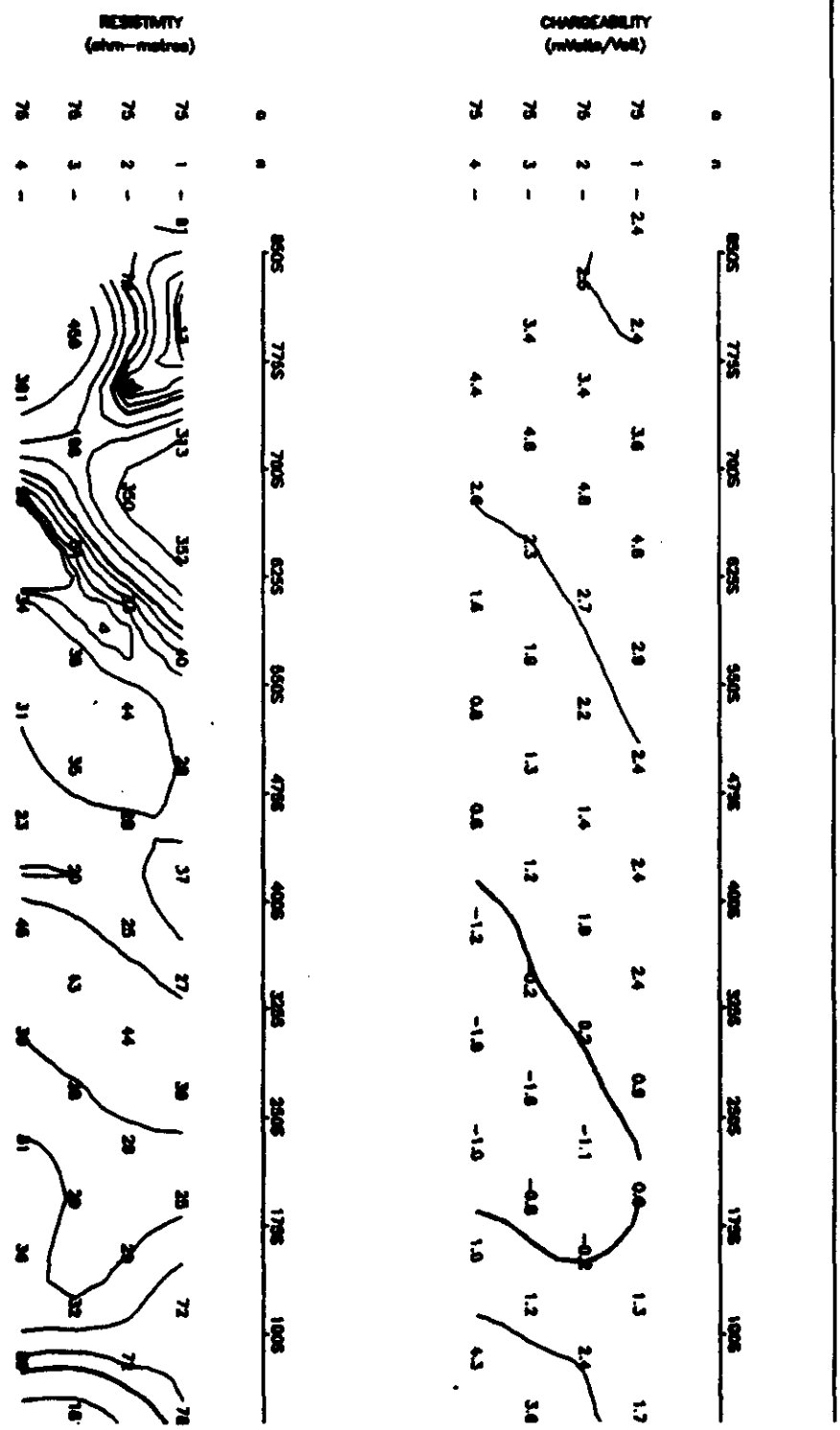
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)

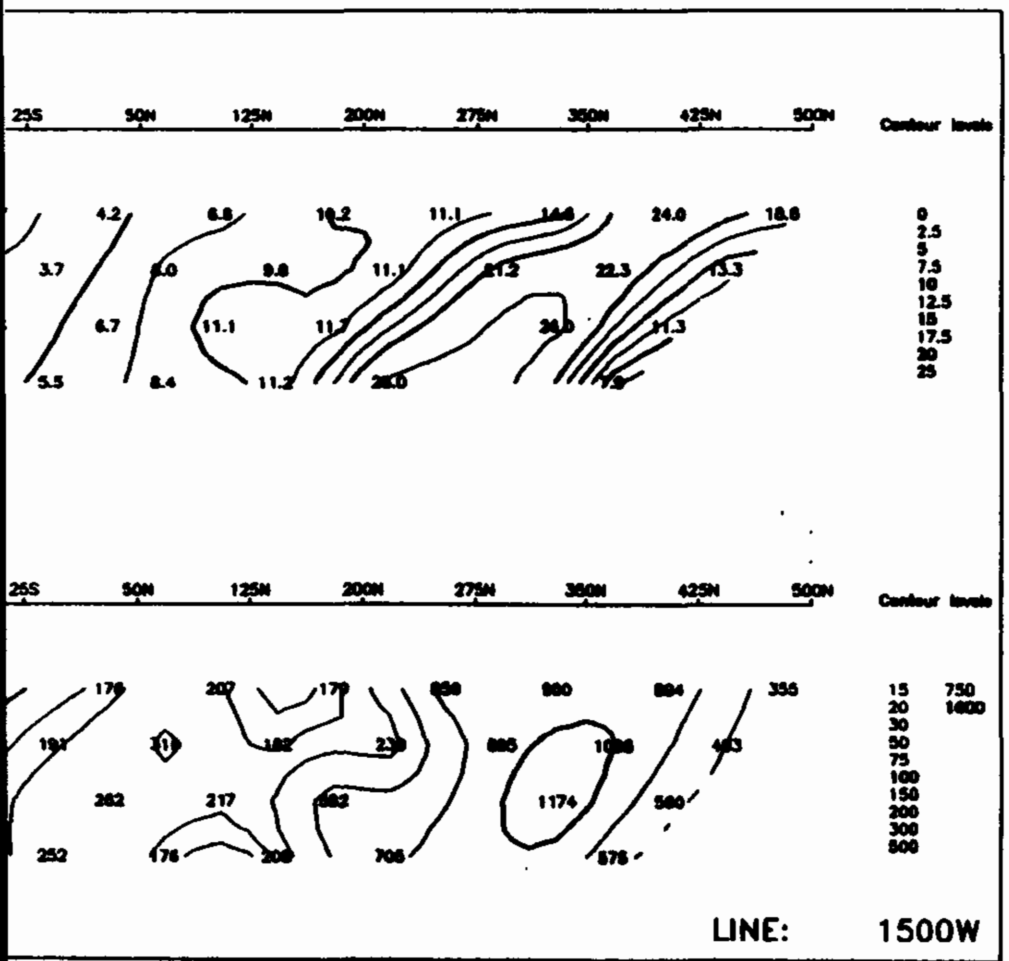
SCOTT GEOPHYSICS LTD. Scintrex IPR12

May/94 Pulse Rate: 2 sec

current electrode is south of receiving electrodes (heading N)

Mx Chargeability is for interval 690-1050 msecs after shutoff




25S 50N 125N 200N 275N 350N 425N 500N
Contour levels
0 2.5 5 7.5 10 12.5 15 17.5 20 25
25S 50N 125N 200N 275N 350N 425N 500N
Contour levels
15 20 30 50 75 100 150 200 300 500 750 1600
LINE: 1500W

TECK EXPLORATION LTD.

RAINBOW PROPERTY, KAMLOOPS AREA, B.C.

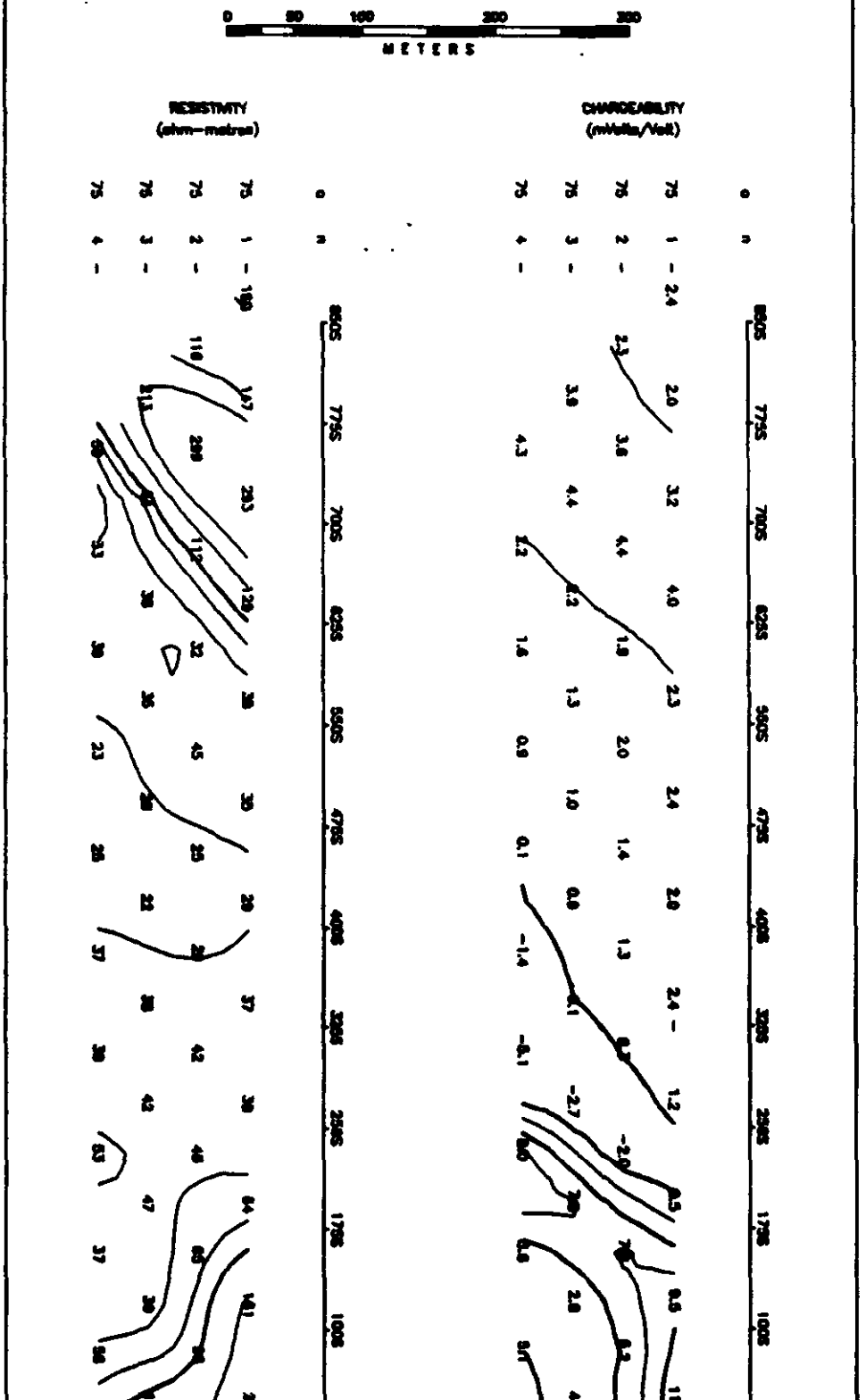
LINE: 1600W

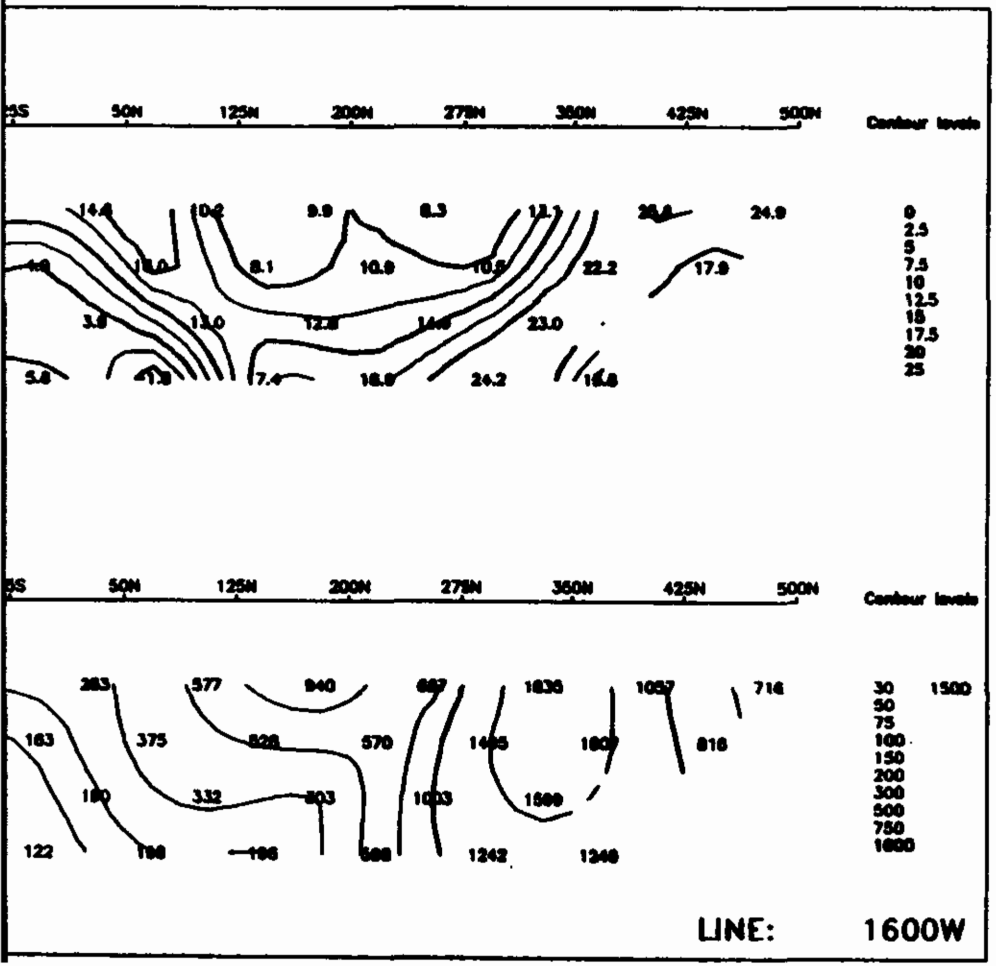
INDUCED POLARIZATION SURVEY (Pole–Dipole Array)

SCOTT GEOPHYSICS LTD.
May/94

Scintrex IPR12
Pulse Rate: 2 sec

current electrode is south of receiving electrodes (heading N)
Mx Chargeability is for interval 690–1050 msecs after shutoff




25S 50N 125N 200N 275N 350N 425N 500N
Contour levels
0
2.5
5
7.5
10
12.5
15
17.5
20
25
14.4 10.2 9.9 8.3 24.9
8.1 10.9 22.2 17.9
3.8 12.8 23.0
5.8 7.4 24.2
25S 50N 125N 200N 275N 350N 425N 500N
Contour levels
30
50
75
100
150
200
300
500
750
1000
1500
283 577 940 1836 716
163 375 570 816
332
122 1242 1246
LINE: 1600W

TECK EXPLORATION LTD.

RAINBOW PROPERTY, KAMLOOPS AREA, B.C.

LINE: 1700W

INDUCED POLARIZATION SURVEY (Pole–Dipole Array)

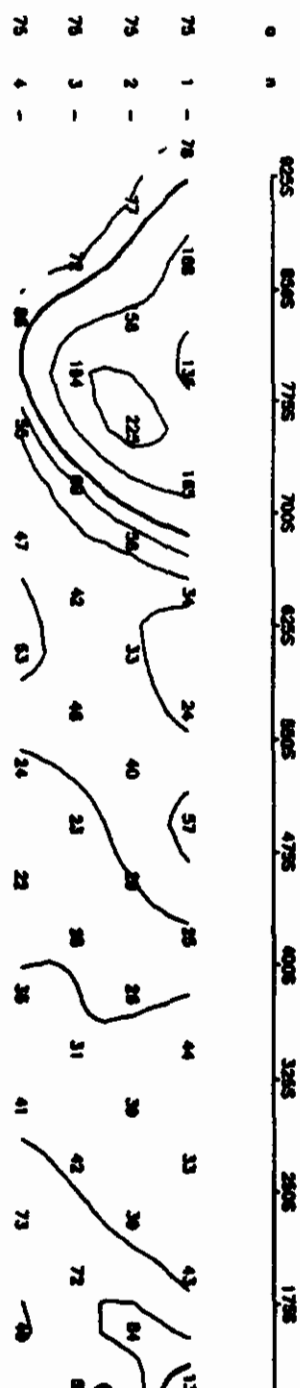
SCOTT GEOPHYSICS LTD. Scintrex IPR12

May/94 Pulse Rate: 2 sec

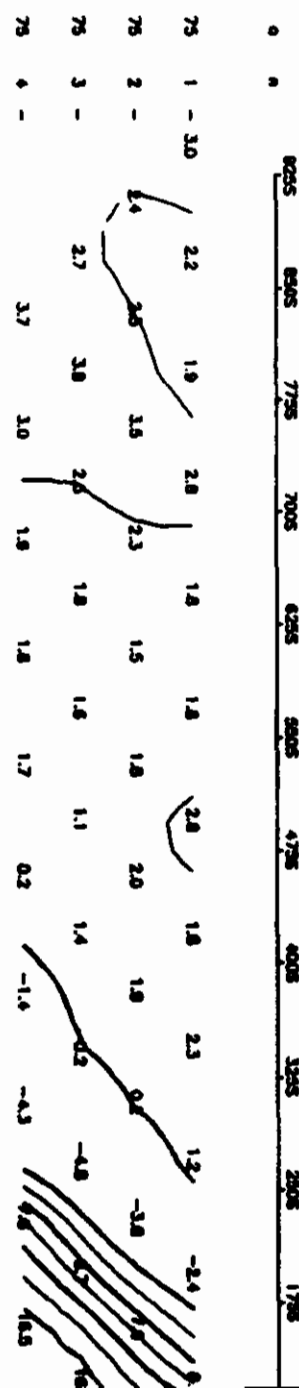
current electrode is south of receiving electrodes (heading N)

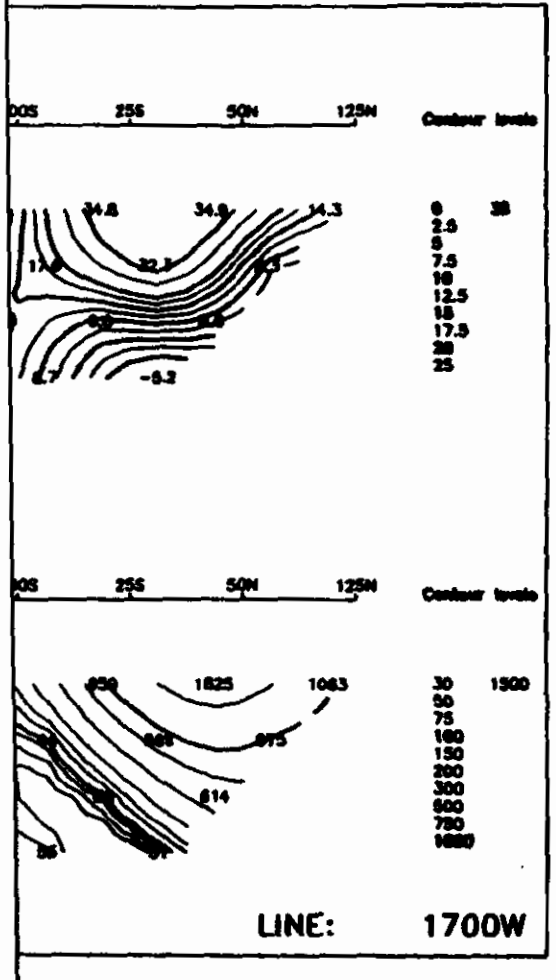
Mx Chargeability is for interval 690–1050 msecs after shutoff

RESISTIVITY (ohm-metres)



CHARGEABILITY (mVolts/Volt)




00S
25S
50N
125N
Contour levels
34.8
34.8
14.3
32.3
-5.2
0
2.5
5
7.5
10
12.5
15
17.5
20
25
30
00S
25S
50N
125N
Contour levels
1825
1083
975
814
30
50
75
100
150
200
300
500
750
1000
1500
LINE:
1700W

TECK EXPLORATION LTD.

RAINBOW PROPERTY, KAMLOOPS AREA, B.C.

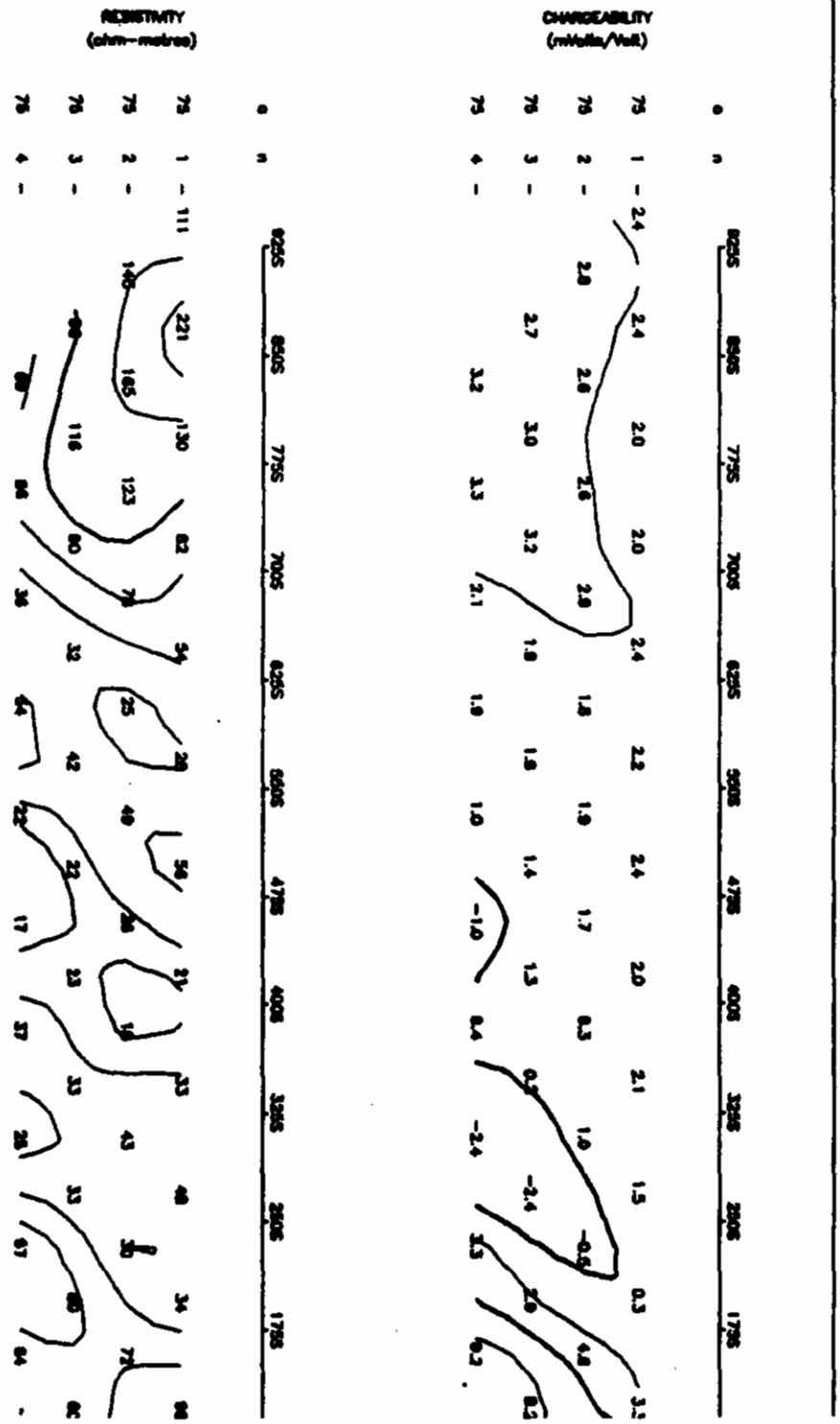
LINE: 1800W

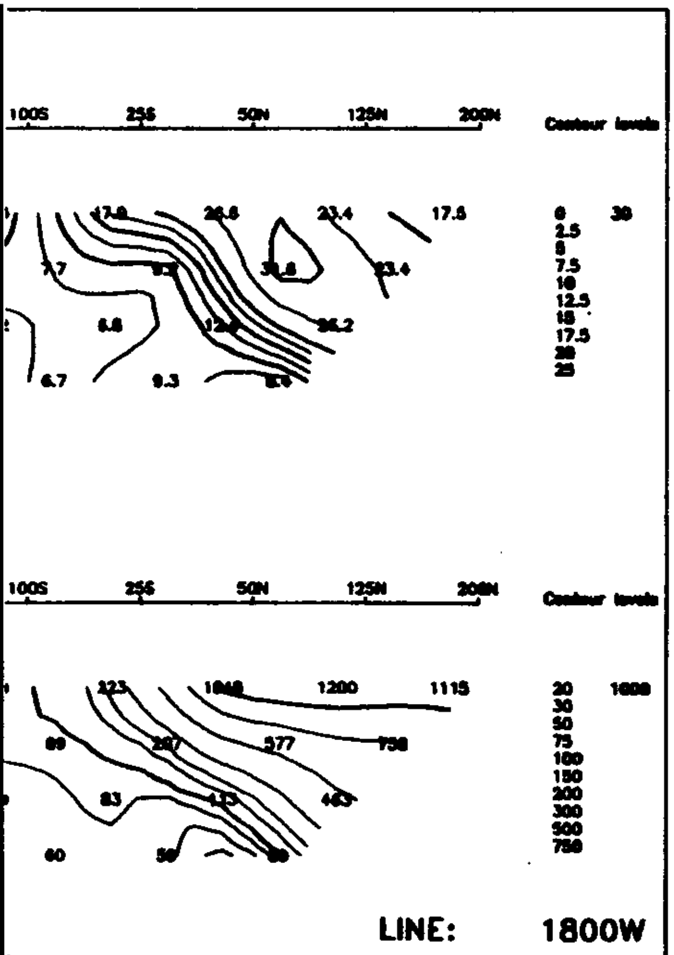
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)

SCOTT GEOPHYSICS LTD.
May/94

Scintrex IPR12
Pulse Rate: 2 sec

current electrode is south of receiving electrodes (heading N)
Mx Chargeability is for interval 690-1050 msecs after shutoff




100S
25S
50N
125N
200N
Contour levels
0
2.5
5
7.5
10
12.5
15
17.5
20
25
30
17.5
23.4
26.2
9.3
6.7
7.7
Contour levels
20
30
50
75
100
150
200
300
500
750
1000
1200
1115
577
750
463
223
89
83
60
LINE: 1800W

TECK EXPLORATION LTD.

RAINBOW PROPERTY, KAMLOOPS AREA, B.C.

LINE: 1900W

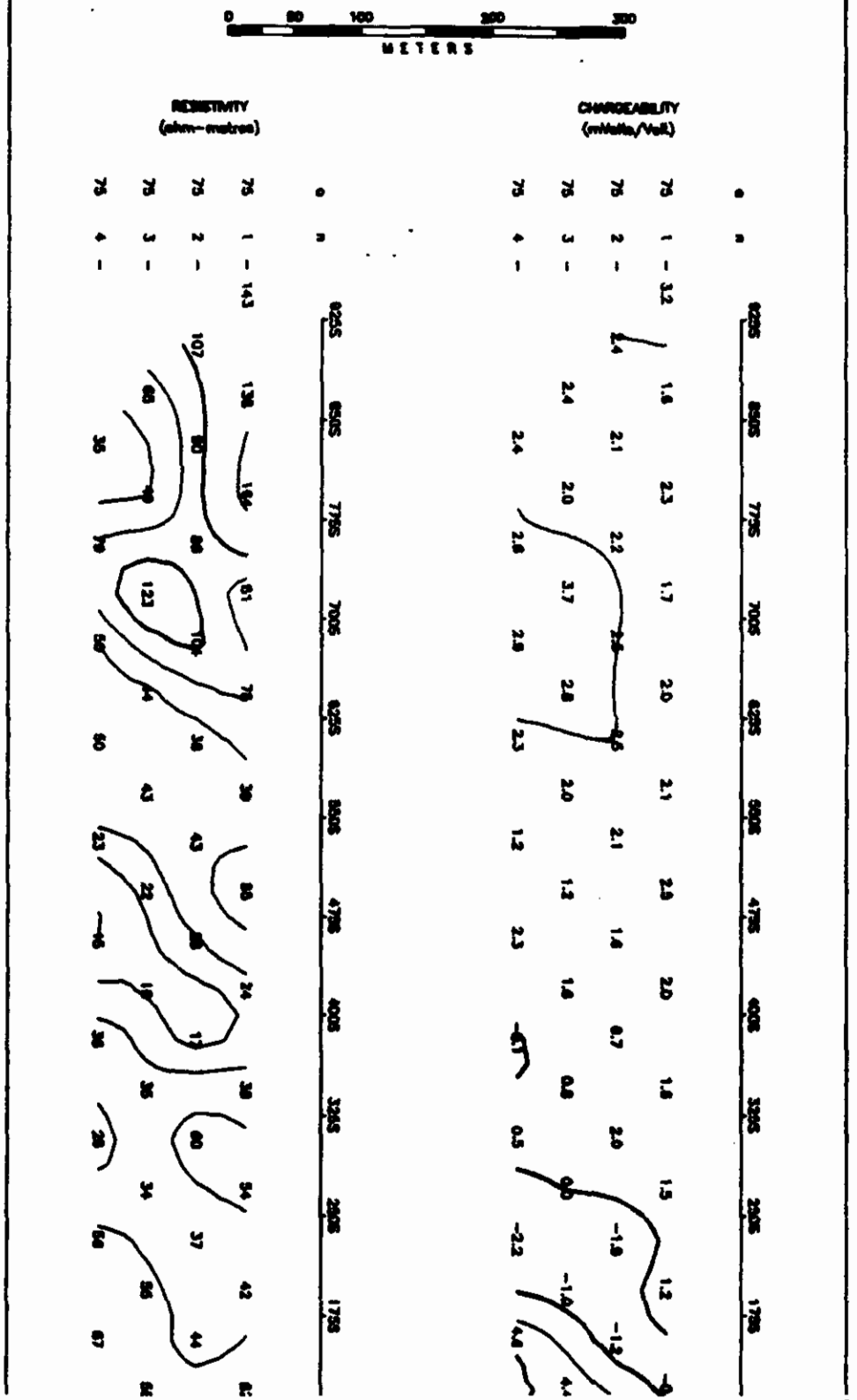
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)

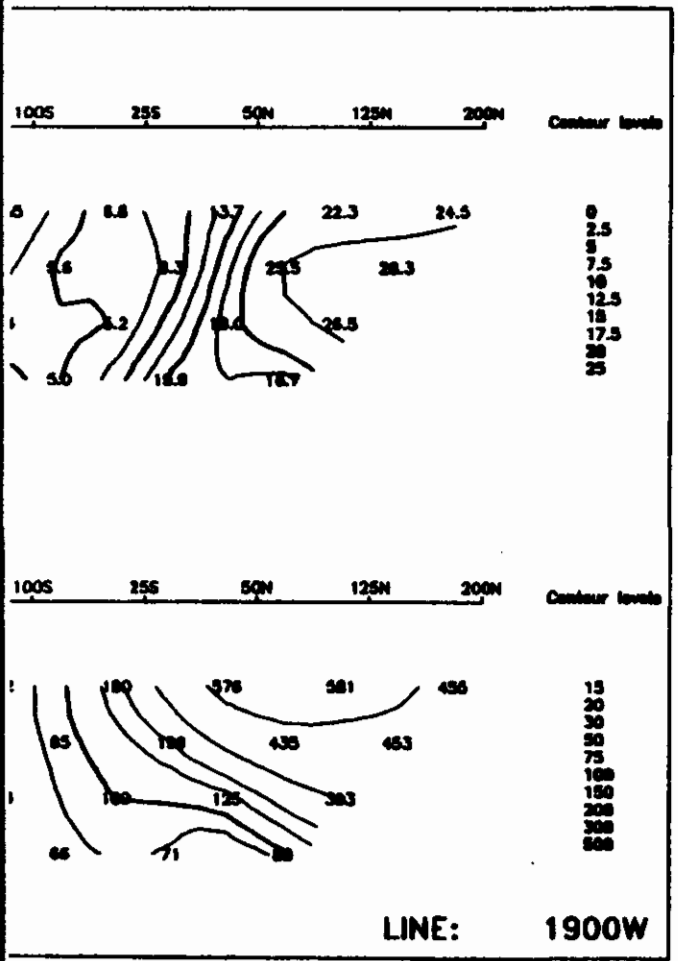
SCOTT GEOPHYSICS LTD. Scintrex IPR12

May/94 Pulse Rate: 2 sec

current electrode is south of receiving electrodes (heading N)

Mx Chargeability is for interval 690-1050 msecs after shutoff




100S
25S
50N
125N
200N
Contour levels
0
2.5
5
7.5
10
12.5
15
17.5
20
25
22.3
24.5
28.3
26.5
100S
25S
50N
125N
200N
Contour levels
15
20
30
50
75
100
150
200
250
300
576
581
456
435
453
383
125
71
LINE: 1900W

TECK EXPLORATION LTD.

RAINBOW PROPERTY, KAMLOOPS AREA, B.C.

LINE: 2000W

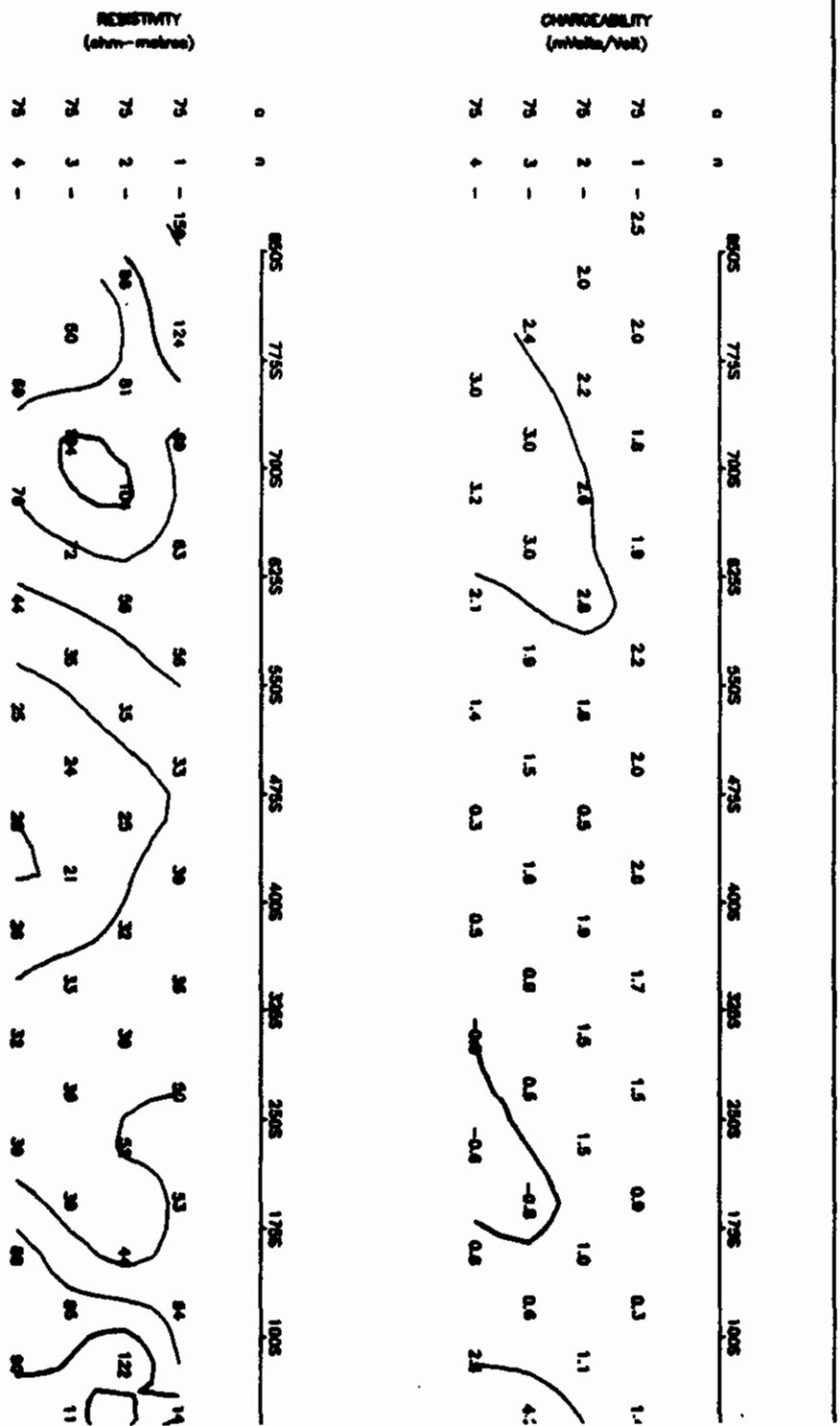
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)

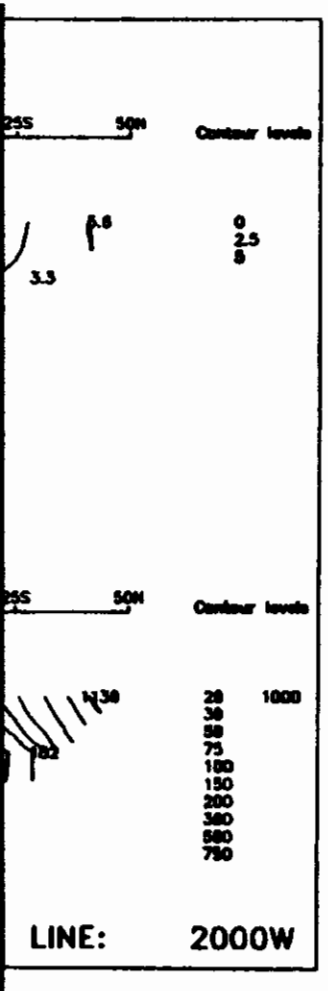
SCOTT GEOPHYSICS LTD. Scintrex IPR12

May/94 Pulse Rate: 2 sec

current electrode is south of receiving electrodes (heading N)

Mx Chargeability is for interval 690-1050 msecs after shutoff




25S
50N
Contour levels
0
2.5
5
3.3
25S
50N
Contour levels
28
36
58
73
100
150
200
300
500
750
1000
LINE:
2000W

TECK EXPLORATION LTD.

RAINBOW PROPERTY, KAMLOOPS AREA, B.C.

LINE: 2100W

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)

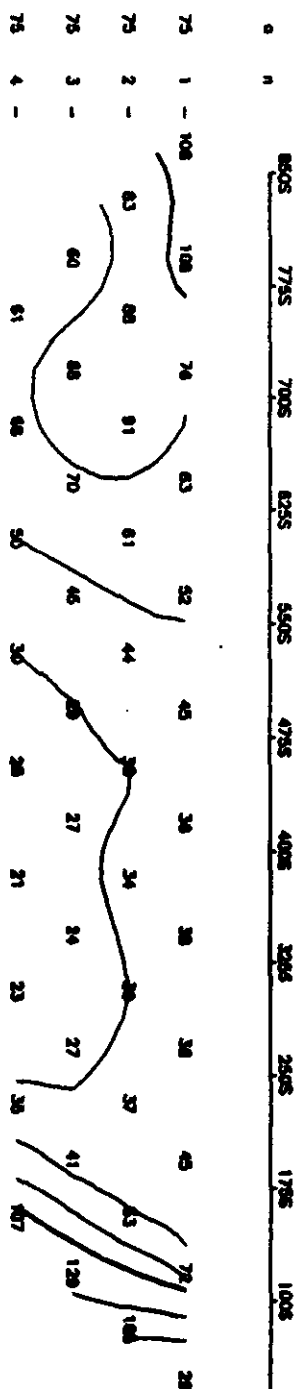
SCOTT GEOPHYSICS LTD. Scintrex IPR12

May/94 Pulse Rate: 2 sec

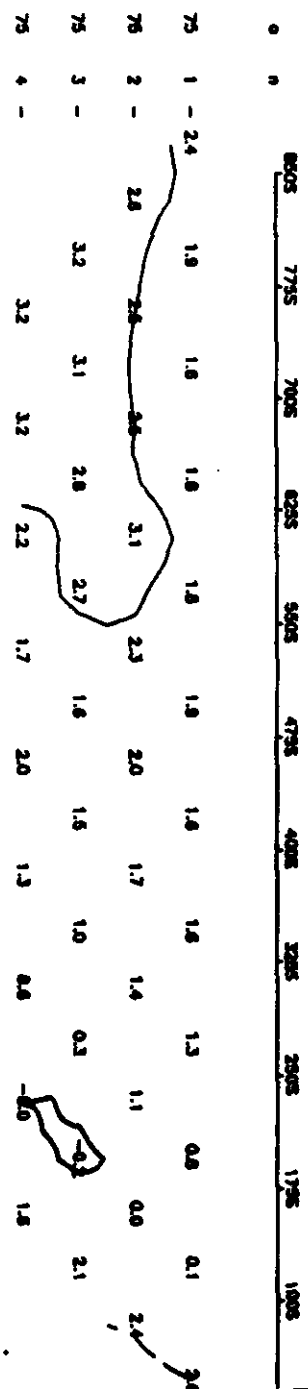
current electrode is south of receiving electrodes (heading N)

Mx Chargeability is for interval 880-1050 msecs after shutoff

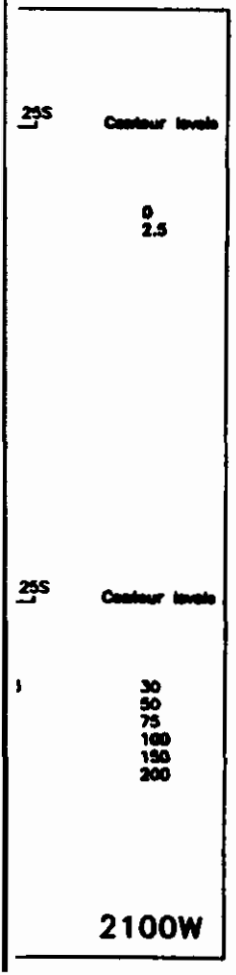
RESISTIVITY
(ohm-metres)



CHARGEABILITY
(mVolts/Volt)



LINE:


25S
Contour Levels
0
2.5
25S
Contour Levels
30
50
75
100
150
200
2100W

TECK EXPLORATION LTD.

RAINBOW PROPERTY, KAMLOOPS AREA, B.C.

LINE: 2200W

INDUCED POLARIZATION SURVEY (Pole–Dipole Array)

SCOTT GEOPHYSICS LTD. Scintrex IPR12

May/94 Pulse Rate: 2 sec

current electrode is south of receiving electrodes (heading N)

Mx Chargeability is for interval 890–1050 msecs after shutoff

RESISTIVITY (ohm-metres)

CHARGEABILITY (mVolts/Volt)

LINE: 2200W

TECK EXPLORATION LTD.

RAINBOW PROPERTY, KAMLOOPS AREA, B.C.

LINE: 2300W

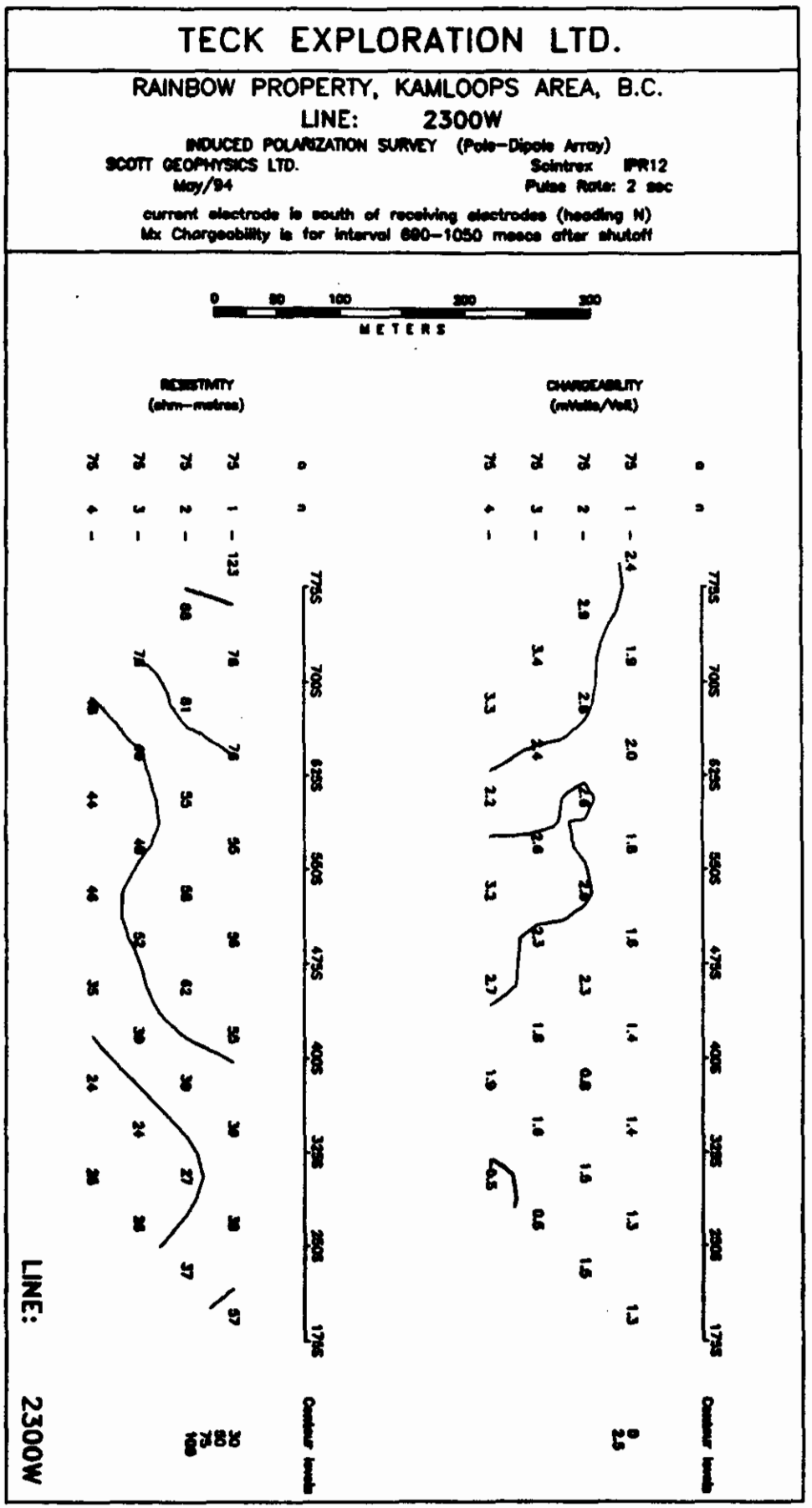
INDUCED POLARIZATION SURVEY (Pole–Dipole Array)

SCOTT GEOPHYSICS LTD. Scintrex IPR12

May/94 Pulse Rate: 2 sec

current electrode is south of receiving electrodes (heading N)

Mx Chargeability is for interval 690–1050 msecs after shutoff



TECK EXPLORATION LTD.

RAINBOW PROPERTY, KAMLOOPS AREA, B.C.

LINE: 2400W

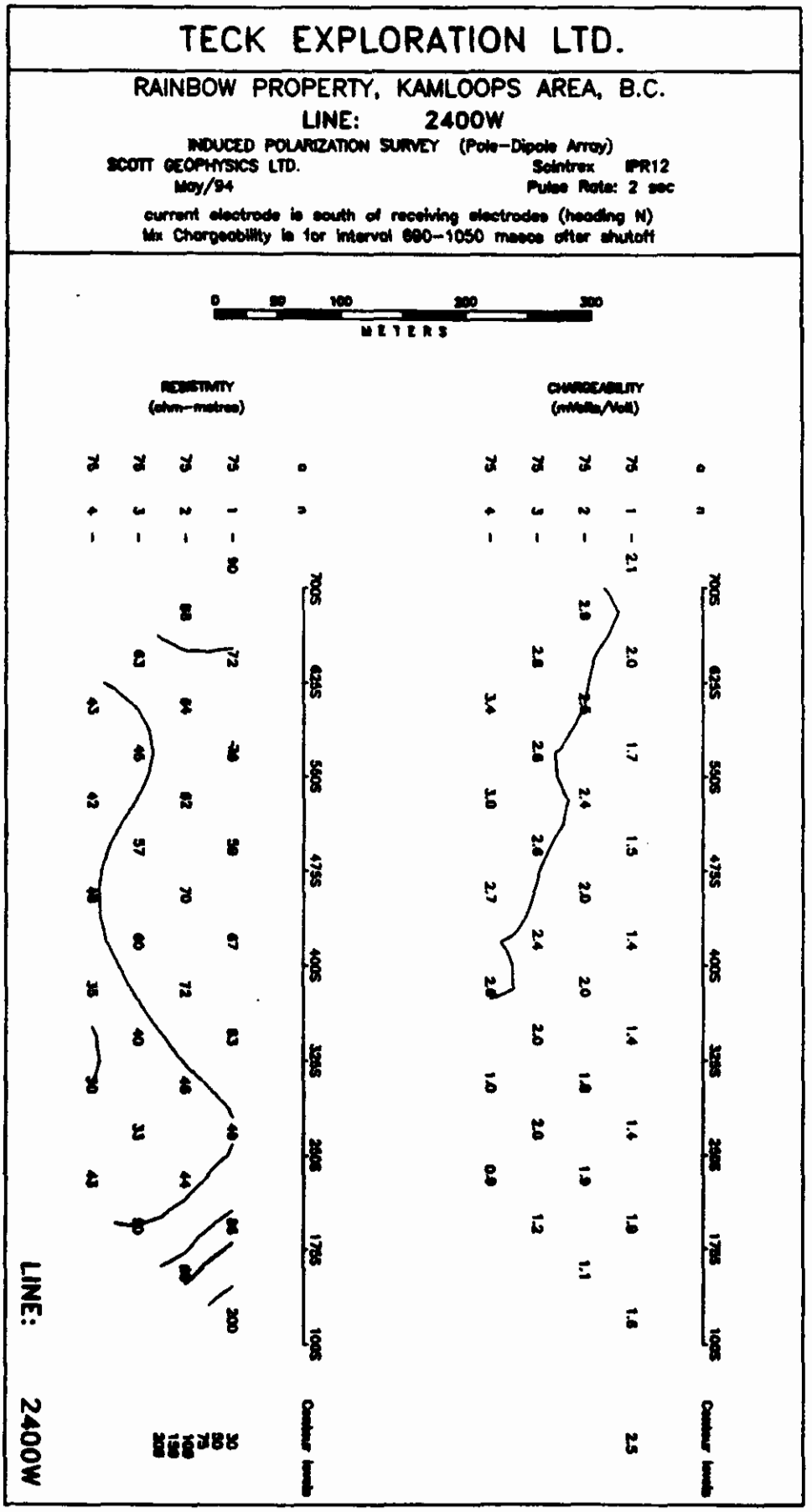
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)

SCOTT GEOPHYSICS LTD. Scintrex IPR12

May/94 Pulse Rate: 2 sec

current electrode is south of receiving electrodes (heading N)

Mx Chargeability is 1or interval 690-1050 msecs after shutoff



TECK EXPLORATION LTD.

RAINBOW PROPERTY, KAMLOOPS AREA, B.C.

LINE: 2500W

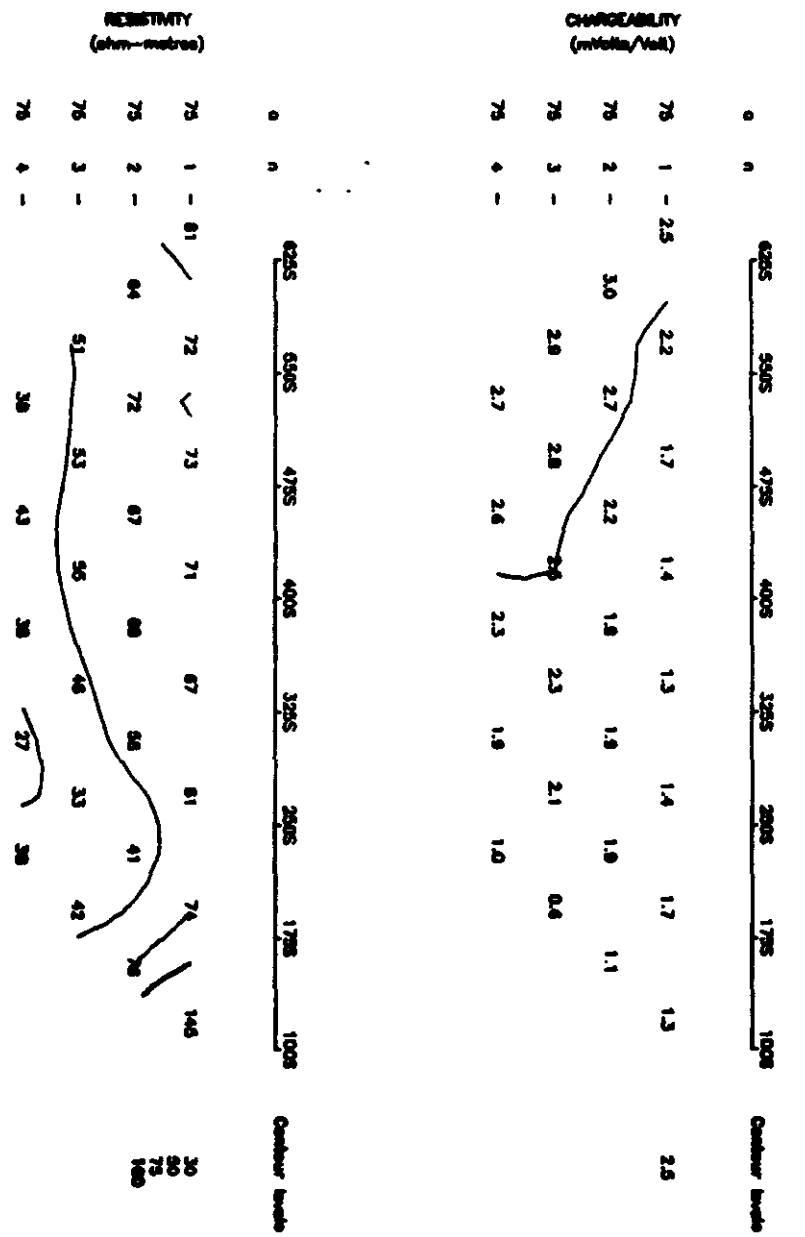
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)

SCOTT GEOPHYSICS LTD. Scintrex IPR12

May/94 Pulse Rate: 2 sec

current electrode is south of receiving electrodes (heading N)

Mx Chargeability is for interval 690-1050 msecs after shutoff



TECK EXPLORATION LTD.

RAINBOW PROPERTY, KAMLOOPS AREA, B.C.

LINE: 1400W

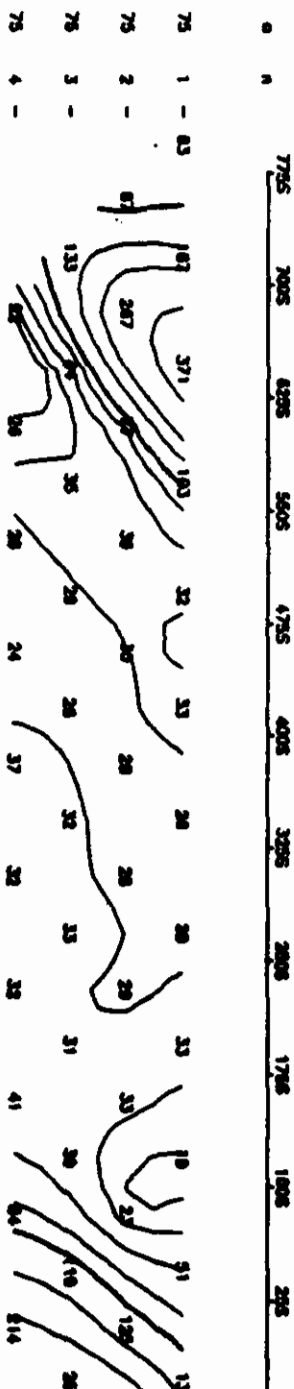
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)

SCOTT GEOPHYSICS LTD.
May/94

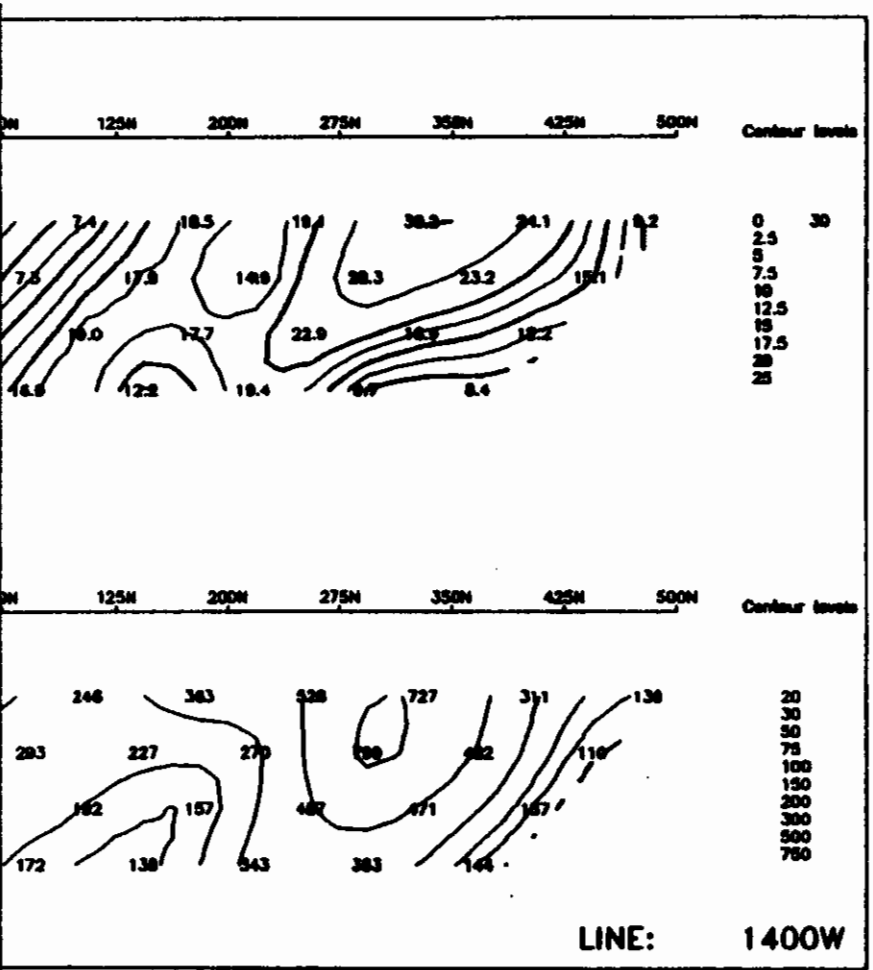
Scintrex IPR12
Pulse Rate: 2 sec

current electrode is south of receiving electrodes (heading N)
Mx Chargeability is for interval 680-1050 msecs after shutoff

RESISTIVITY
(ohm-metres)



CHARGEABILITY
(mVolts/Volt)


125N
200N
275N
350N
425N
500N
Contour levels
0
2.5
5
7.5
10
12.5
15
17.5
20
25
30
125N
200N
275N
350N
425N
500N
Contour levels
20
30
50
75
100
150
200
300
500
750
LINE: 1400W

TECK EXPLORATION LTD.

RAINBOW PROPERTY, KAMLOOPS AREA, B.C.

LINE: 1300W

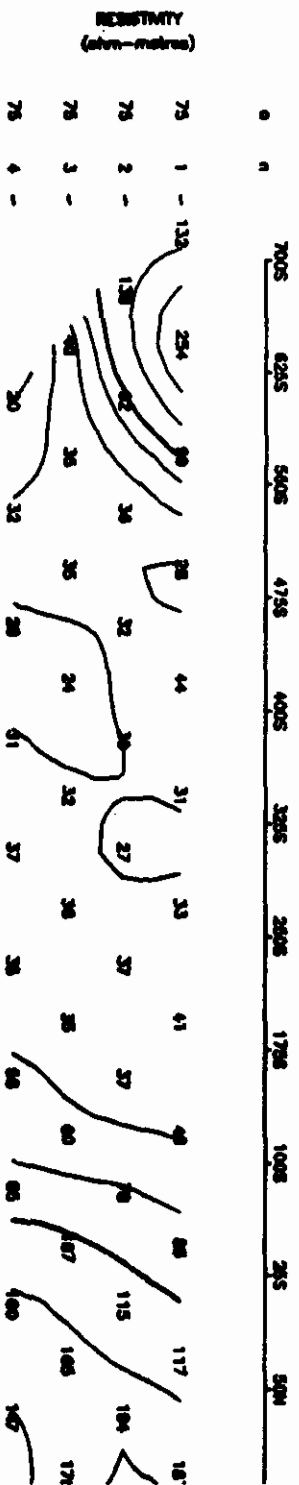
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)

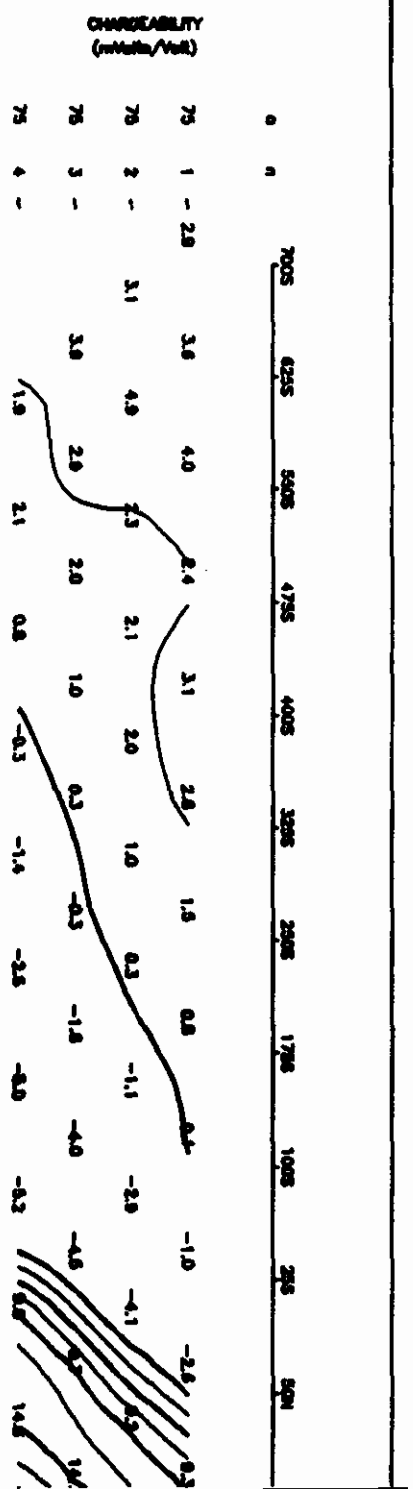
SCOTT GEOPHYSICS LTD. Scintrex IPR12

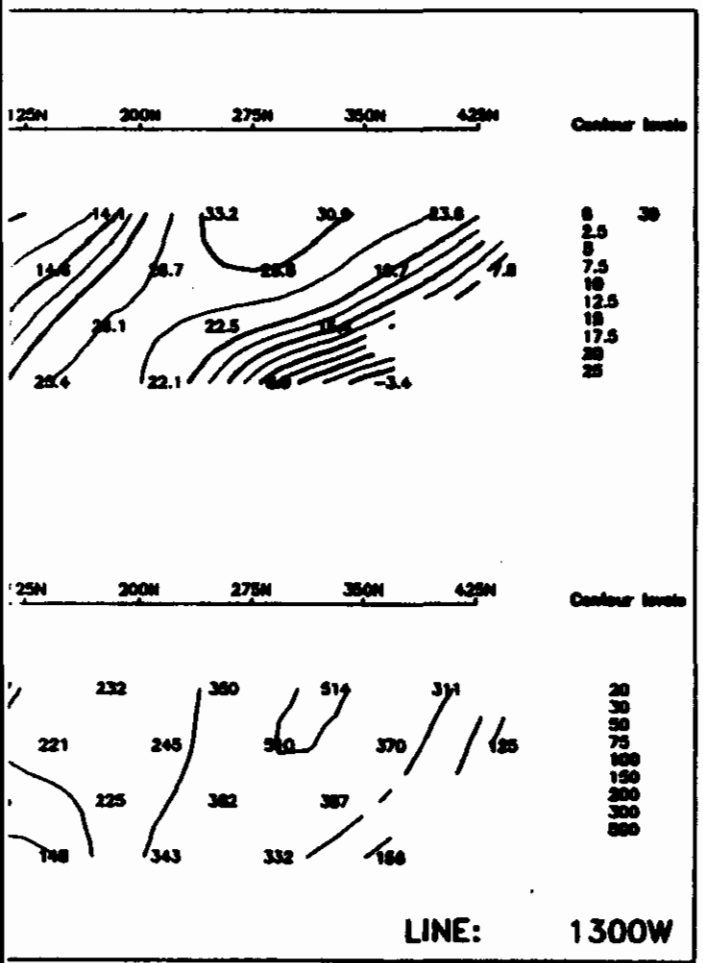
May/94 Pulse Rate: 2 sec

current electrode is south of receiving electrodes (heading N)

Mx Chargeability is for interval 660-1050 msecs after shutoff






125N
200N
275N
350N
425N
Contour levels
14.4
33.2
30.9
83.6
14.6
28.7
28.1
22.5
22.1
-3.4
0
2.5
5
7.5
10
12.5
15
17.5
20
25
30
125N
200N
275N
350N
425N
Contour levels
232
350
514
311
221
245
370
225
382
387
148
343
332
166
LINE: 1300W

APPENDIX III

GEOTECHNICAL LOGS

DIAMOND DRILL HOLES

R94-17 TO R94-31

PROJECT RAINBOW DRILLHOLE NO. R-94-17 COORDINATES: N _____ DATE SEPT 16 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 1 of 3
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
51.2	OB																OVERBURDEN
51.82	.62	.62	100	.32	62	R2	D+	12	F								
54.85	3.03	3.03	100	1.11	37	R2	D+	12	F								
57.88	3.03	2.15	71	1.01	33	R2	D+	12	F								
60.91	3.03	3.03	100	2.32	77	R2	E	14	F								
63.94	3.03	3.03	100	2.40	79	R2	E	14	F								
66.97	3.03	2.82	93	1.38	46	R2	D-	10	F								
70.0	3.03	2.90	96	2.05	68	R2	E-	13	F								
73.03	3.03	3.03	100	.30	10	R0	A+	3	F								
79.57	3.54	3.54	100	.36	23	R1	D-	10	F								
76.06	1.49	1.49	100	1.31	88	R2	E	14	F								
76.76	.70	.70	100	.65	93	R2	E	14	F								
79.09	3.33	2.23	96	"	"	R1	A+	3	F								
79.69	.45	.45	100	.33	73	R2	E	14	F								
82.12	2.58	2.58	100	.13	5	R1	A+	3	F								
82.52	.40	.40	100	.33	83	R2	E	14	F								
83.07	.55	.55	100	"	"	R1	A+	3	F								
85.15	2.08	2.08	100	2.00	96	R2	E	14	F								
86.05	.90	.90	100	.86	96	R2	E	14	F								
87.82	1.77	1.77	100	"	"	R1	A+	3	F								
88.18	.36	.36	100	.22	61	R2	E	14	F								
91.21	3.03	3.03	100	1.70	56	R2	E	14	F								
92.07	.86	.86	100	"	"	R1	A+	3	F								
94.24	2.17	2.17	100	1.82	84	R1	B-	4	F								
94.62	.38	.36	100	.38	100	R2	E	14	F								
[illegible]																	
[illegible]																	
99.40	2.13	2.13	100	1.60	75	R1	A+	3	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R-94-17 COORDINATES: N _____ DATE SEPT 16 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 2 of 3
LOGGER D. NIELSEN INCLINATION _____ ELEVATION _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
100.30	.90	.90	100	.73	81	R2	E	14	F								
103.33	3.03	3.03	100	2.93	97	R2	E+	15	F								
106.36	3.03	3.03	100	2.88	95	R2	E+	15	F								
109.39	3.03	3.03	100	2.74	91	R2	E+	15	F								
109.77	.38	.38	100	.38	100	R2	E+	15	F								
112.42	2.65	2.65	100	2.65	100	R3	E+	15	F								
115.45	3.03	3.03	100	2.98	98	R3	E+	15	F								
118.48	3.03	3.03	100	2.43	80	R3	E	14	F								
121.51	3.03	3.03	100	1.09	36	R2	D+	12	F								
124.54	3.03	3.03	100	1.38	46	R2	D+	12	F								
127.57	3.03	3.03	100	1.67	55	R2	E-	13	F								
130.61	3.04	3.04	100	2.22	73	R2	E-	13	F								
133.64	3.03	3.03	100	2.65	87	R2	E	14	F								
136.67	3.03	3.03	100	2.85	94	R2	E	14	F								
139.7	3.03	3.03	100	2.52	83	R2	E	14	F								
142.73	3.03	3.03	100	1.37	45	R2	D+	12	F								
145.76	3.03	3.03	100	1.89	62	R2	E-	13	F								
148.79	3.03	3.03	100	2.43	80	R2	E	14	F								
151.82	3.03	3.03	100	2.51	83	R2	E	14	F								
154.85	3.03	3.03	100	2.10	69	R2	E	14	F								
157.88	3.03	3.03	100	2.33	77	R2	E	14	F								
160.91	3.03	3.03	100	2.64	87	R2	E+	15	F								
163.94	3.03	3.03	100	1.93	64	R2	E	14	F								
166.97	3.03	3.03	100	1.96	65	R2	E	14	F								
170.0	3.03	3.03	100	2.33	77	R2	E	14	F								
173.03	3.03	3.03	100	2.70	89	R2	E+	15	F								
176.06	3.03	3.03	100	2.19	72	R2	E	14	F								
179.09	3.03																

Fig. 1. Typical rock mechanics core log.

PROJECT [illegible] DRILLHOLE NO. R-91-17 COORDINATES: N _____ DATE Sept 12 1991

LOCATION [illegible] HOLE SIZE _____ E _____ PAGE 3 of 3

LOGGER [illegible] INCLINATION _____ ELEVATION _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
182.6	3.03	3.03	100	1.70	56	R2	F	11	F								
185.1	3.03	3.03	100	1.95	64	R2	D+	12	F								
188.18	3.03	3.03	100	2.88	95	R2	F+	15	F								
191.21	3.03	3.03	100	2.86	94	R2	E+	15	F								
194.24	3.03	3.03	100	2.61	86	R2	F+	15	F								
197.27	3.03	3.03	100	2.97	98	R2	E+	15	F								
200.3	3.03	3.03	100	1.95	64	R2	E-	13	F								
202.42	2.12	2.12	100	.54	25	R2	D	11	F								
203.33	.91	.91	100	.11	12	RO	A	2	F								
206.36	3.03	3.03	100	.68	22	R2	D-	10	F								
209.39	3.03	3.03	100	1.84	61	R2	E-	13	F								
210.64	1.25	1.25	100	.64	51	R2	E-	13	F								
212.42	1.78	1.78	100	1.52	85	R2	E+	15	F								
215.45	3.03	3.03	100	2.05	68	R2	E	14	F								
218.48	3.03	3.03	100	2.60	86	R2	E	14	F								
221.52	3.04	3.04	100	2.49	82	R2	E+	15	F								
224.55	3.03	3.03	100	2.10	69	R2	E-	13	F								
227.58	3.03	3.03	100	1.85	61	R2	F-	13	F								

PROJECT Kamloops DRILLHOLE NO. R-94-8 COORDINATES: N _____ DATE Sept. 30 19 94
LOCATION Kamloops HOLE SIZE _____ E _____ PAGE 1 of 2
LOGGER D. A. [illegible] INCLINATION _____ ELEVATION _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
33.33	33.33	Ø		Ø		Ø	Ø		Ø								OVERBURDEN
36.67	3.34	3.34	100	2.57	77	R2	E-	13	F								
39.70	3.03	3.03	100	2.53	83	R2	E	14	F								
42.73	3.03	3.03	100	2.49	82	R2	E	14	F								
45.76	3.03	3.03	100	2.20	73	R2	E	14	F								
48.79	3.03	3.03	100	2.69	89	R2	E	14	F								
51.82	3.03	3.03	100	2.60	86	R2	E	14	F								
54.85	3.03	3.03	100	2.48	82	R2	E	14	F								
57.88	3.03	3.03	100	2.36	78	R2	E	14	F								
60.91	3.03	3.03	100	2.67	88	R2	E	14	F								
63.94	3.03	3.03	100	2.28	75	R2	E	14	F								
66.97	3.03	3.03	100	2.40	79	R2	E	14	F								
70.0	3.03	3.03	100	1.95	64	R2	E-	13	F								
73.03	3.03	3.03	100	2.32	77	R2	E-	13	F								
76.06	3.03	3.03	100	2.39	79	R2	E	14	F								
79.09	3.03	3.03	100	3.00	99	R2	E	14	F								
82.12	3.03	3.03	100	2.87	95	R2	E-	13	F								
85.15	3.03	3.03	100	1.80	59	R2	D+	12	F								
88.18	3.03	3.03	100	3.03	100	R2	E	14	F								
90.28	2.10	2.10	100	1.97	94	R2	E	14	F								
91.91	1.63	1.63	100	.33	20	R2	B+	6	F								
94.24	2.33	2.33	100	1.97	85	R2	E-	13	F								
95.94	1.70	1.70	100	1.09	64	R2	E-	13	F								
97.06	1.12	1.12	100	.18	16	R0	A	2	F								
100.30	3.24	3.24	100	1.42	44	R2	C+	9	F								
100.70	.40	.40	100	.19	48	R2	D-	10	F								
102.40	1.70	1.70	100	.44	26	R0	A	2	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R-94-18 COORDINATES: N _____ DATE Sept 20 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 2 of 2
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (To)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
103.23	.63	.63	100	.53	84	R2	E-	13	F								
106.36	3.03	3.03	100	2.35	78	R2	E-	13	F								
109.39	3.03	3.03	100	1.93	64	R2	E	14	F								
112.42	3.03	3.03	100	1.78	59	R2	E-	13	F								
115.45	3.03	3.03	100	1.57	52	R2	E-	13	F								
118.48	3.03	3.03	100	2.04	67	R2	E-	13	F								
121.52	3.04	3.04	100	.91	30	R2	C+	9	F								
124.55	3.03	3.03	100	1.90	63	R2	D+	12	F								
127.58	3.03	3.03	100	1.91	63	R2	E-	13	F								
130.61	3.03	3.03	100	2.13	70	R2	E	14	F								
133.64	3.03	3.03	100	2.36	78	R2	E-	13	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R-94-19 COORDINATES: N _____ DATE SEPT 20 1994

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 1 of 3

LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
33.0	33.0	ø		ø		ø	ø		ø								OVERBURDEN
33.64	.64	.64	100	.53	83	R2	E-	13	F								
36.67	3.03	3.03	100	2.04	67	R2	E-	13	F								
39.70	3.03	3.03	100	2.43	80	R2	E-	13	F								
42.73	3.03	3.03	100	2.62	86	R2	E	14	F								
45.76	3.03	3.03	100	1.86	61	R2	E-	13	F								
48.79	3.03	3.03	100	2.15	71	R2	E	14	F								
51.82	3.03	3.03	100	2.09	69	R2	E	14	F								
54.85	3.03	3.03	100	2.79	92	R2	E	14	F								
57.88	3.03	3.03	100	2.34	77	R2	E	14	F								
60.91	3.03	3.03	100	2.71	89	R2	E	14	F								
63.94	3.03	3.03	100	2.49	82	R2	E	14	F								
66.97	3.03	3.03	100	2.26	75	R2	E-	13	F								
70.0	3.03	3.03	100	1.97	65	R2	E-	13	F								
73.03	3.03	3.03	100	2.02	67	R2	E-	13	F								
76.06	3.03	3.03	100	2.01	66	R2	E-	13	F								
79.09	3.03	3.03	100	1.59	62	R2	E-	13	F								
82.12	3.03	3.03	100	1.40	46	R2	E-	13	F								
85.15	3.03	3.03	100	1.30	43	R2	D-	10	F								
88.18	3.03	3.03	100	2.09	69	R2	D+	12	F								
91.21	3.03	3.03	100	1.58	52	R2	D+	12	F								
94.24	3.03	3.03	100	2.25	74	R2	E-	13	F								
97.27	3.03	3.03	100	1.92	63	R2	E-	13	F								
100.3	3.03	3.03	100	1.81	60	R2	D	11	F								
103.33	3.03	3.03	100	1.41	47	R2	D-	10	F								
106.36	3.03	3.03	100	2.56	84	R2	E-	13	F								
109.39	3.03	3.03	100	2.48	82	R2	E-	13	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R-94-19 COORDINATES: N _____ DATE SEPT 21 1992
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 2 of 3
LOGGER D. KIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
112.42	3.03	3.03	100	2.70	89	R2	E	14	F								
115.45	3.03	3.03	100	2.36	79	R2	E-	13	F								
118.48	3.03	3.03	100	2.43	80	R2	E-	13	F								
121.52	3.04	3.04	100	2.62	86	R2	E-	13	F								
124.55	3.03	3.03	100	1.89	62	R2	D+	12	F								
127.58	3.03	3.03	100	2.00	66	R2	D+	12	F								
130.61	3.03	3.03	100	1.78	59	R2	D+	12	F								
133.64	3.03	3.03	100	1.81	60	R2	D+	12	F								
136.67	3.03	3.03	100	2.70	89	R2	E-	13	F								
139.7	3.03	3.03	100	2.59	85	R2	E	14	F								
142.73	3.03	3.03	100	2.69	89	R2	E-	13	F								
145.76	3.03	3.03	100	2.24	74	R2	E-	13	F								
148.79	3.03	3.03	100	1.91	63	R2	D+	12	F								
151.82	3.03	3.03	100	2.19	72	R2	D+	12	F								
154.85	3.03	3.03	100	2.72	90	R2	D+	12	F								
157.88	3.03	3.03	100	2.47	82	R2	D+	12	F								
160.91	3.03	3.03	100	2.65	87	R2	D+	12	F								
163.94	3.03	3.03	100	2.58	85	R2	E-	13	F								
166.97	3.03	3.03	100	2.75	91	R2	E-	13	F								
170.0	3.03	3.03	100	2.30	76	R2	E-	13	F								
173.03	3.03	3.03	100	1.84	61	R2	D+	12	F								
176.06	3.03	3.03	100	1.65	54	R2	D+	12	F								
179.09	3.03	3.03	100	2.90	96	R2	E-	13	F								
182.12	3.03	3.03	100	2.86	94	R2	E-	13	F								
185.15	3.03	3.03	100	2.26	75	R2	D+	12	F								
188.18	3.03	3.03	100	2.00	66	R2	E-	13	F								
191.21	3.03	3.03	100	2.28	75	R2	D+	12	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R-94-19 COORDINATES: N _____ DATE SEPT 22 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 3 of 3
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
197.27	3.03	3.03	100	2.61	86	R2	F -	13	F								
200.30	3.03	3.03	100	2.80	92	R2	F -	13	F								
203.33	3.03	3.03	100	2.87	95	R2	F -	13	F								E.O.H.

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R-94-20 COORDINATES: N _____ DATE SEPT 23 1994

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 1 of 1

LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
41.21	41.21	ø		ø		ø	ø		ø								OVERBURDEN
42.73	1.52	1.45	95	.57	38	R2	B+	6	F								
45.76	3.03	2.80	92	.52	17	R2	B	5	F								
48.79	3.03	2.95	97	.94	31	R2	C+	8	F								
51.82	3.03	3.03	100	.90	30	R2	C	8	F								
54.85	3.03	3.03	100	1.41	47	R2	D-	10	F								
57.88	3.03	3.03	100	1.12	37	R2	C+	9	F								
60.91	3.03	3.03	100	.94	31	R2	C	8	F								
63.94	3.03	3.03	100	1.81	60	R2	D-	10	F								
66.97	3.03	3.03	100	1.84	61	R2	D-	10	F								
70.0	3.03	3.03	100	2.03	67	R2	D-	10	F								
73.03	3.03	3.03	100	2.71	89	R2	D+	12	F								
76.06	3.03	3.03	100	1.70	56	R2	D	11	F								
79.09	3.03	3.03	100	2.54	84	R2	D	11	F								
82.6	3.51	3.51	100	1.81	52	R2	D	11	F								
85.8	3.2	1.2	100	.74	62	R2	D-	10	F								
85.6	1.8	1.8	100	1.7	94	R3	E	14	F								
88.7	3.1	3.1	100	2.76	89	R3	E-	13	F								
91.7	3.0	3.0	100	2.94	98	R3	E-	13	F								
94.8	3.1	3.1	100	2.55	82	R3	E-	13	F								
97.8	3.0	3.0	100	2.03	68	R3	D+	12	F								
100.9	3.1	3.1	100	2.56	83	R3	E-	13	F								
103.9	3.0	3.0	100	2.57	86	R3	E-	13	F								
107.0	3.1	3.1	100	2.54	82	R3	E-	13	F								
110.0	3.0	3.0	100	2.73	91	R3	E-	13	F								
113.1	3.1	3.1	100	2.61	84	R3	E-	13	F								
116.1	3.0	3.0	100	2.96	95	R3	E-	13	F								

Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R-94-20 COORDINATES: N _____ DATE SEPT 23 1994

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 1 of 1

LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
41.21	41.21	∅		∅		∅	∅		∅								OVERBURDEN
42.73	1.52	1.45	95	.57	38	R2	B+	6	F								
45.76	3.03	2.80	92	.52	17	R2	B	5	F								
48.79	3.03	2.95	97	.94	31	R2	C	8	F								
51.82	3.03	3.03	100	.90	30	R2	C	8	F								
54.85	3.03	3.03	100	1.41	47	R2	D-	10	F								
57.88	3.03	3.03	100	1.12	37	R2	C+	9	F								
60.91	3.03	3.03	100	.94	31	R2	C	8	F								
63.94	3.03	3.03	100	1.81	60	R2	D-	10	F								
66.97	3.03	3.03	100	1.84	61	R2	D-	10	F								
70.0	3.03	3.03	100	2.03	67	R2	D-	10	F								
73.03	3.03	3.03	100	2.71	89	R2	D+	12	F								
76.06	3.03	3.03	100	1.70	56	R2	D	11	F								
79.09	3.03	3.03	100	2.54	84	R2	D	11	F								
82.6	3.51	3.51	100	1.81	52	R2	D	11	F								
83.8	1.2	1.2	100	.71	62	R2	D-	10	F								
85.6	1.8	1.8	100	1.7	94	R3	E	11	F								
88.7	3.1	3.1	100	2.76	89	R3	E-	13	F								
91.7	3.0	3.0	100	2.94	98	R3	E-	13	F								
94.8	3.1	3.1	100	2.55	82	R3	E-	13	F								
97.8	3.0	3.0	100	2.03	68	R3	D+	12	F								
100.9	3.1	3.1	100	2.56	83	R3	E-	13	F								
103.9	3.0	3.0	100	2.57	86	R3	E-	13	F								
107.0	3.1	3.1	100	2.54	82	R3	E-	13	F								
110.0	3.0	3.0	100	2.73	91	R3	E-	13	F								
113.1	3.1	3.1	100	2.61	84	R3	E-	13	F								
116.1	3.0	3.0	100	2.86	95	R3	E-	13	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R-94-21 COORDINATES: N _____ DATE SEPT 25 1994

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 1 of 4

LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
51.5	51.5	Ø		Ø		Ø	Ø		Ø								OVERBURDEN
52.1	.6	.6	100	.54	90	R1	C	8	F								
55.2	3.1	3.1	100	1.77	57	R1	C+	9	F								
58.2	3.0	3.0	100	1.23	41	R2	C+	9	F								
60.7	2.5	2.5	100	.68	27	R2	C	8	F								
61.9	1.2	1.2	100	.30	25	R1	B+	6	F								
64.3	2.4	2.4	100	1.57	65	R2	D-	10	F								
67.4	3.1	3.1	100	2.04	66	R2	D-	10	F								
69.7	2.5	2.5	100	1.03	41	R2	D-	10	F								
71.6	1.9	1.9	100	.53	28	R1	B+	6	F								
73.5	1.9	1.9	100	.93	49	R2	C+	9	F								
76.5	3.0	3.0	100	.70	23	R1	C	8	F								
79.6	3.1	3.1	100	.52	17	R1	B-	5	F								
82.6	3.0	3.0	100	.56	19	R1	B	5	F								
85.6	3.0	3.0	100	1.09	36	R2	C+	9	F								
89.7	3.1	3.1	100	.89	29	R2	C	8	F								
90.6	1.9	1.9	100	.67	35	R2	D-	10	F								
92.9	2.3	2.0	87	.77	39	R1	B+	6	F								
95.9	3.0	3.0	100	1.57	52	R1	D-	10	F								
97.8	1.9	1.9	100	1.28	67	R2	D-	10	F								
100.9	3.1	3.1	100	1.58	51	R2	D-	10	F								
103.9	3.0	3.0	100	2.55	85	R2	D+	12	F								
107.0	3.1	3.1	100	2.06	66	R2	D	11	F								
110.0	3.0	3.0	100	2.07	69	R2	D	11	F								
113.1	3.1	3.1	100	2.26	73	R2	D-	10	F								
116.1	3.0	3.0	100	2.41	80	R2	D+	12	F								
119.2	3.1	3.1	100	2.18	70	R2	E-	13	F								
122.2	3.0	3.0	100	1.41	47	R2	D-	10	F								

Fig. 1. Typical rock mechanics core log.

PROJECT: RAINBOW | DRILLHOLE NO.: R-94-2 | COORDINATES: N _____ | DATE: SEPT 25 1994
LOCATION: KAMLOOPS | HOLE SIZE: _____ | E _____ | PAGE 2 of 4
LOGGED: D. NIKIRK | INCLINATION: _____ | ELEVATION: _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (To) m	LENGTH OF RUN m	CORE RECOVERY LENGTH	CORE RECOVERY %	RQD LENGTH	RQD %	HARDNESS	DEGREE OF BREAKAGE CATEGORY	DEGREE OF BREAKAGE NO.	DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP DEPTH	BEDDING DIP ANGLE	BEDDING JOINTS NO.	BEDDING JOINTS FREQ.	CROSS JOINTS NO.	CROSS JOINTS FREQ.	COMMENTS
125.3	3.1	3.1	100	2.69	87	R2	E-	13	F								
128.3	3.0	3.0	100	2.19	73	R2	E-	13	F								
131.4	3.1	3.1	100	1.73	56	R1	D-	10	F								
134.4	3.0	3.0	100	1.75	58	R2	D	10	F								
137.5	3.1	3.1	100	1.26	41	R2	D-	10	F								
140.6	3.0	3.0	100	2.27	76	R2	D+	12	F								
143.6	3.1	3.1	100	2.06	66	R2	D	11	F								
146.0	2.4	2.4	100	1.64	68	R2	D+	12	F								
147.8	1.8	1.8	100	1.59	88	R2	E-	13	F								
149.6	1.8	1.8	100	.55	31	R1	B+	6	F								
150.6	1.0	1.0	100	.61	61	R2	D-	10	F								
152.7	2.1	2.1	100	.28	13	R0	B+	6	F								
155.7	3.0	3.0	100	.25	8	R0	A	2	F								
158.8	3.1	3.1	100	.21	7	R1	B+	6	F								
160.0	1.2	1.2	100	∅	∅	R0	A-	1	F								
161.9	1.9	1.9	100	.45	24	R1	B+	6	F								
164.9	3.0	3.0	100	1.38	46	R2	C+	9	F								
167.9	3.0	3.0	100	.84	28	R2	C-	7	F								
171.0	3.1	3.1	100	.77	25	R2	C-	7	F								
174.0	3.0	3.0	100	2.28	76	R2	D+	12	F								
177.1	3.1	3.1	100	1.76	57	R2	D	11	F								
179.1	2.0	2.0	100	.22	11	R1	B+	6	F								
180.1	1.0	1.0	100	.93	93	R2	D+	12	F								
183.2	3.1	3.1	100	1.53	49	R2	D-	10	F								
186.2	3.0	3.0	100	1.72	57	R2	D	11	F								
187.6	1.4	1.4	100	.13	9	R1	B+	6	F								
189.3	1.7	1.7	100	1.56	92	R3	E-	13	F								
192.3	3.0	3.0	100	2.94	98	R3	E	14	F								

Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. [illegible] COORDINATES: N _____ DATE SEPT 25 1994

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 3 of 4

LOGGER D. ALKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
195.4	3.1	3.1	100	2.94	95	R3	E+	15	F								
198.4	3.0	3.0	100	2.93	98	R3	E+	15	F								
201.1	2.7	2.7	100	2.49	92	R3	E+	15	F								
204.5	3.4	3.4	100	.38	11	R1	B+	6	F								
207.4	2.9	2.9	100	.67	23	R1	B+	6	F								
210.6	3.2	3.2	100	2.01	63	R2	D-	10	F								
213.7	3.1	3.1	100	2.23	72	R2	D-	10	F								
216.7	3.0	3.0	100	2.52	84	R2	D	11	F								
219.8	3.1	3.1	100	2.65	85	R2	D-	10	F								
222.8	3.0	3.0	100	2.59	86	R2	E	13	F								
226.8	3.0	3.0	100	2.38	79	R2	D+	12	F								
228.9	3.1	3.1	100	2.73	88	R2	D+	12	F								
232.0	3.1	3.1	100	2.12	68	R2	D	11	F								
235.0	3.0	3.0	100	2.41	80	R2	D+	12	F								
238.0	3.0	3.0	100	2.47	82	R2	D+	12	F								
241.1	3.1	3.1	100	2.18	70	R2	D+	12	F								
244.1	3.0	3.0	100	2.42	81	R2	E	13	F								
247.2	3.1	3.1	100	2.67	86	R2	E	13	F								
250.2	3.0	3.0	100	1.95	62	R2	D+	12	F								
253.3	3.1	3.1	100	1.34	43	R2	D-	10	F								
255.4	2.1	2.1	100	1.19	57	R2	D-	10	F								
256.5	1.1	1.1	100	.22	20	R1	B+	6	F								
259.4	2.9	2.9	100	2.70	93	R2	D+	12	F								
261.4	2.0	2.0	100	1.39	70	R2	D+	12	F								
262.0	.6	.6	100	ø	ø	R1	B+	6	F								
264.0	2.0	2.0	100	.87	44	R2	C+	9	F								
264.8	.8	.8	100	ø	ø	R0	A+	3	F								
[illegible]	.7	.7	100	.21	30	R1	C-	7	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R-94-21 COORDINATES: N _____ DATE SEPT 25 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 4 of 4
LOGGER D. NIKINK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
268.5	3.0	3.0	100	1.45	48	R2	C+	9	F								
271.6	3.1	3.1	100	2.23	72	R2	D-	10	F								
274.6	3.0	3.0	100	1.17	39	R2	C+	9	F								
277.7	3.1	3.1	100	1.20	39	R2	C+	9	F								
280.7	3.0	3.0	100	2.82	94	R2	D+	12	F								
283.8	3.1	3.1	100	2.10	68	R2	D+	12	F								
286.8	3.0	3.0	100	2.69	90	R2	D+	12	F								
289.9	3.1	3.1	100	2.32	75	R2	D	11	F								
292.9	3.0	3.0	100	1.73	58	R2	D-	10	F								
296.0	3.1	3.1	100	2.38	77	R2	D	11	F								
299.0	3.0	3.0	100	2.20	73	R2	D	11	F								
302.1	3.1	3.1	100	2.40	77	R2	D+	12	F								
305.1	3.0	3.0	100	1.88	63	R2	D+	12	F								
308.2	3.1	3.1	100	1.67	54	R2	D-	10	F								
310.2	2.0	2.0	100	1.22	61	R2	D	11	F								
311.2	1.0	1.0	100	.21	21	R1	C	8	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R-94-22 COORDINATES: N _____ DATE OCT 2 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 1 of 4
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
35.1	35.1	1.5	4	.15	Ø	Ø	Ø	Ø	Ø								OVERBURDEN
36.9	1.8	1.65	92	.25	15	R2	C-	7	F								
39.9	3.0	3.0	100	.52	17	R2	C-	7	F								
43.0	3.1	3.1	100	1.14	37	R2	C+	9	F								
46.0	3.0	3.0	100	.84	28	R2	C-	7	F								
49.1	3.1	3.1	100	.21	7	R2	C-	7	F								
52.1	3.0	3.0	100	1.37	44	R2	C	8	F								
55.2	3.1	3.1	100	.80	26	R2	C-	7	F								
58.2	3.0	3.0	100	1.78	59	R2	D-	10	F								
61.3	3.1	3.1	100	1.17	38	R2	C+	9	F								
64.3	3.0	3.0	100	.99	33	R2	C-	7	F								
67.4	3.1	3.1	100	1.13	36	R2	D-	10	F								
70.4	3.0	3.0	100	1.01	34	R2	C	8	F								
73.5	3.1	3.1	100	1.80	58	R2	D-	10	F								
76.5	3.0	3.0	100	2.65	88	R2	E-	13	F								
79.6	3.1	3.1	100	2.63	85	R2	E-	13	F								
82.6	3.0	3.0	100	2.01	67	R2	D+	12	F								
85.6	3.0	3.0	100	2.22	74	R2	D+	12	F								
88.7	3.1	3.1	100	1.38	45	R2	D	11	F								
91.7	3.0	3.0	100	1.09	36	R2	C-	7	F								
94.8	3.1	3.1	100	2.49	80	R2	D+	12	F								
97.8	3.0	3.0	100	1.38	46	R2	D	11	F								
100.9	3.1	3.1	100	1.34	43	R2	D	11	F								
103.9	3.0	3.0	100	1.62	54	R2	D	11	F								
107.0	3.1	3.1	100	1.72	55	R2	D+	12	F								
110.0	3.0	3.0	100	1.95	65	R2	D+	12	F								
113.1	3.1	3.1	100	1.31	42	R2	D-	10	F								
116.1	3.1	3.1	100	2.50	81	R2	D+	12	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW | DRILLHOLE NO. R-94-22 | COORDINATES: N _____ | DATE OCT 2 19 94
LOCATION KAMLOOPS | HOLE SIZE _____ | E _____ | PAGE 2 of 4
LOGGER D. NIKIRK | INCLINATION _____ | ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
119.2	3.0	3.0	100	2.23	74	R2	E-	13	F								
122.3	3.1	3.1	100	2.08	67	R2	D+	12	F								
125.3	3.0	3.0	100	1.23	41	R2	D	11	F								
128.4	3.1	3.1	100	2.47	80	R2	E-	13	F								
131.4	3.0	3.0	100	2.66	89	R2	E-	13	F								
132.8	1.4	1.4	100	1.27	91	R2	E	14	F								
135.0	2.2	2.2	100	1.05	48	R2	C+	9	F								
137.5	2.5	2.5	100	2.25	90	R2	D+	12	F								
140.5	3.0	3.0	100	2.13	71	R2	D+	12	F								
143.6	3.1	3.1	100	2.15	69	R2	D+	12	F								
146.6	3.0	3.0	100	2.55	85	R2	E-	13	F								
149.7	3.1	3.1	100	2.55	82	R2	E-	13	F								
152.7	3.0	3.0	100	1.72	57	R2	D+	11	F								
155.8	3.1	3.1	100	2.98	96	R2	E+	15	F								
158.8	3.0	3.0	100	2.75	92	R2	E-	13	F								
161.9	3.1	3.1	100	2.53	82	R2	E	14	F								
164.9	3.0	3.0	100	2.82	94	R2	E	14	F								
167.9	3.0	3.0	100	2.90	93	R2	E	14	F								
171.0	3.1	3.1	100	2.73	88	R2	E	14	F								
174.0	3.0	3.0	100	2.34	78	R2	D+	12	F								
177.1	3.1	3.1	100	1.83	59	R2	D+	12	F								
180.1	3.0	3.0	100	1.55	52	R2	D-	10	F								
183.2	3.1	3.1	100	1.57	51	R2	D-	10	F								
186.2	3.0	3.0	100	1.92	64	R2	D+	12	F								
189.3	3.1	3.1	100	1.64	53	R2	D	11	F								
[illegible]	3.0	3.0	100	1.54	51	R2	D	11	F								
194.4	3.1	3.1	100	2.60	84	R2	E-	13	F								
198.5	3.1	3.1	100	2.78	90	R2	E	14	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R-94-22 COORDINATES: N _____ DATE Oct 2 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 3 of 4
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
201.5	3.0	3.0	100	2.91	97	R2	E-	13	F								
204.6	3.1	3.1	100	2.38	77	R2	D+	12	F								
207.6	3.0	3.0	100	2.50	83	R2	D+	12	F								
210.7	3.1	3.1	100	2.11	68	R2	D	11	F								
213.3	2.6	2.6	100	2.22	85	R2	D	11	F								
214.3	1.0	1.0	100	.12	12	R2	B+	6	F								
216.8	2.5	2.5	100	2.10	84	R2	D	11	F								
217.6	.80	.80	100	.79	99	R2	D+	12	F								
218.7	1.10	1.10	100	Ø	Ø	R1	A+	3	F								
219.8	1.1	1.1	100	1.06	96	R2	D+	12	F								
222.9	3.1	3.1	100	2.56	83	R2	D+	12	F								
225.9	3.0	3.0	100	2.57	86	R2	D+	12	F								
229.0	3.1	3.1	100	1.85	60	R2	D-	10	F								
232.0	3.0	3.0	100	2.21	74	R2	D	11	F								
234.5	2.5	2.5	100	2.05	82	R2	D	11	F								
237.8	2.7	2.7	100	.31	11	R1	C+	9	F								
238.0	.8	.8	100	.44	55	R2	D-	10	F								
241.1	3.1	3.1	100	2.36	76	R2	D	11	F								
244.1	3.0	3.0	100	1.57	52	R2	D-	10	F								
247.2	3.1	3.1	100	2.29	74	R2	D-	10	F								
250.2	3.0	3.0	100	2.25	75	R2	D	11	F								
253.7	2.5	2.5	100	1.69	68	R2	D	11	F								
254.6	1.9	1.9	100	.50	26	R2	C	8	F								
256.3	1.7	1.7	100	1.12	66	R2	D	11	F								
259.4	3.1	3.1	100	1.91	62	R2	D+	12	F								
262.4	3.0	3.0	100	.81	27	R2	C+	9	F								
265.5	3.1	3.1	100	1.40	45	R2	C+	9	F								
268.5	3.0																

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R-94-22 COORDINATES: N _____ DATE Oct 2 1994

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 4 of 4

LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
271.6	3.1	3.1	100	1.46	47	R2	D-	10	F								
274.6	3.0	3.0	100	2.37	79	R2	D+	12	F								
277.7	3.1	3.1	100	1.96	63	R2	D+	12	F								
280.7	3.0	3.0	100	2.45	82	R2	D+	12	F								
283.8	3.1	3.1	100	2.09	67	R2	D-	10	F								
286.8	3.0	3.0	100	2.12	71	R2	D+	12	F								
289.9	3.1	3.1	100	1.32	43	R2	C+	9	F								
292.9	3.0	3.0	100	2.20	73	R2	D+	12	F								

Fig. 1. Typical rock mechanics core log.

PROJECT [illegible]	DRILLHOLE NO. K-94-23	COORDINATES: N ______ E ______
LOCATION KAMLOOPS	HOLE SIZE ______	DATE Oct 7 1994
LOGGER DOUG NIKIRK	INCLINATION ______ ELEVATION ______	PAGE 1 of 3

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
33.5	33.5	.20	1	Ø	Ø	Ø	Ø	Ø	Ø								OVERBURDEN
35.1	1.6	1.37	86	.54	34	R2	C+	9	D								
36.9	1.8	1.56	87	.58	32	R2	C+	9	F								
39.9	3.0	3.0	100	1.29	43	R2	C+	9	F								
43.0	3.1	3.1	100	1.19	38	R2	D-	10	F								
46.0	3.0	3.0	100	1.83	61	R2	D	11	F								
49.1	3.1	3.1	100	2.85	92	R2	E-	13	F								
52.1	3.0	3.0	100	2.[illegible]	84	R2	E-	13	F								
54.0	1.9	1.9	100	1.42	75	R2	D+	12	F								
56.3	2.3	2.3	100	.59	26	R2	C	8	F								
58.2	1.9	1.9	100	1.78	94	R2	D+	12	F								
61.3	3.1	3.1	100	2.33	75	R2	D+	12	F								
64.3	3.6	3.0	100	1.65	54	R2	D+	12	F								
67.4	3.1	3.1	100	2.03	65	R2	D+	12	F								
70.4	3.0	3.0	100	2.52	84	R2	D+	12	F								
73.5	3.1	3.1	100	2.63	85	R2	E-	13	F								
76.5	3.0	3.0	100	2.28	76	R2	D+	12	F								
79.5	3.0	3.0	100	2.56	85	R2	E-	13	F								
82.6	3.1	3.1	100	2.60	84	R2	E-	13	F								
83.3	.7	.7	100	.68	97	R2	E-	13	F								
85.6	2.3	2.3	100	1.12	49	R2	D-	10	F								
88.7	3.1	3.1	100	1.21	39	R2	D-	10	F								
91.7	3.0	3.0	100	.53	18	R2	C+	9	F								
94.8	3.1	3.1	100	1.45	47	R2	D-	10	F								
96.2	1.4	1.4	100	.47	34	R2	D-	10	F								
97.8	1.6	1.6	100	1.38	86	R2	D+	12	F								
100.3	2.5	2.5	100	2.38	95	R2	E-	13	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAILROAD DRILLHOLE NO. R-94-13 COORDINATES: N _____ DATE Oct 7 1994

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 2 of 3

LOGGER D. NIKORY INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
102.5	2.2	2.2	100	.57	26	R2	D-	10	F								
103.9	1.4	1.4	100	1.35	96	R2	D+	12	F								
107.0	3.1	3.1	100	1.55	50	R2	D	11	F								
110.0	3.0	3.0	100	2.25	75	R2	D+	12	F								
113.1	3.1	3.1	100	2.91	94	R2	E-	13	F								
116.1	3.0	3.0	100	2.67	89	R2	E-	13	F								
119.2	3.1	3.1	100	2.30	74	R2	D+	12	F								
122.2	3.0	3.0	100	2.93	98	R2	E-	13	F								
125.3	3.1	3.1	100	2.52	81	R2	E-	13	F								
128.3	3.0	3.0	100	2.41	80	R2	E-	13	F								
131.4	3.1	3.1	100	2.14	69	R2	D+	12	F								
134.4	3.0	3.0	100	2.81	94	R2	E-	13	F								
137.5	3.1	3.1	100	2.79	90	R2	E	14	F								
140.5	3.0	3.0	100	2.38	79	R2	D+	12	F								
143.6	3.1	3.1	100	1.02	33	R2	C	8	F								
146.6	3.0	3.0	100	1.96	65	R2	D-	10	F								
149.7	3.1	3.1	100	2.78	90	R2	D+	12	F								
152.7	3.0	3.0	100	2.60	87	R2	E-	13	F								
155.8	3.1	3.1	100	2.64	85	R2	E-	13	F								
158.8	3.0	3.0	100	2.77	92	R2	E	14	F								
161.8	3.0	3.0	100	1.72	57	R2	C+	9	F								
164.9	3.1	3.1	100	2.35	76	R2	D+	12	F								
167.9	3.0	3.0	100	2.51	84	R2	D+	12	F								
171.0	3.1	3.1	100	2.66	86	R2	E-	13	F								
174.0	3.0	3.0	100	2.45	82	R2	D+	12	F								
177.1	3.1	3.1	100	2.76	89	R2	D+	12	F								
180.1	3.0	3.0	100	1.42	47	R2	D-	10	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R-94-23 COORDINATES: N _____ DATE Oct 7 1994

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 3 of 3

LOGGER D. KIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
186.2	3.0	3.0	100	1.61	54	R2	D	11	F								
189.3	3.1	3.1	100	2.87	93	R2	E-	13	F								
192.3	3.0	3.0	100	2.20	73	R2	D+	12	F								
195.4	3.1	3.1	100	2.44	79	R2	D+	12	F								
198.4	3.0	3.0	100	1.19	40	R2	D-	10	F								
201.5	3.1	3.1	100	2.17	70	R2	D-	10	F								
204.0	2.5	2.5	100	1.66	66	R2	D-	10	F								
205.3	1.3	1.3	100	.25	19	R1	C+	9	F								
207.6	2.3	2.3	100	1.43	62	R2	D-	10	F								
210.6	3.0	3.0	100	2.38	79	R2	D	11	F								
212.0	1.4	1.4	100	1.27	91	R2	D	11	F								
213.7	1.7	1.7	100	.21	12	R2	C	8	F								
216.7	3.0	3.0	100	.93	31	R2	C	8	F								
218.1	1.4	1.4	100	.49	35	R2	C	8	F								
219.8	1.7	1.7	100	.99	58	R2	D	11	F								
222.8	3.0	3.0	100	2.36	79	R2	D+	12	F								
225.9	3.1	3.1	100	2.71	87	R2	E-	13	F								
228.9	3.0	3.0	100	2.08	69	R2	D	11	F								
231.9	3.0	3.0	100	1.90	63	R2	D	11	F								
235.0	3.1	3.1	100	2.37	76	R2	D+	12	F								
238.1	3.1	3.1	100	2.53	82	R2	E-	13	F								
241.1	3.0	3.0	100	2.71	90	R2	E-	13	F								
244.1	3.0	3.0	100	2.40	80	R2	E-	13	F								
247.2	3.1	3.1	100	2.55	82	R2	D+	12	F								
250.2	3.0	3.0	100	2.46	82	R2	D+	12	F								
253.3	3.1	3.1	100	2.81	91	R2	E	14	F								
256.3	3.0	3.0	100	2.42	81	R2	E-	13	F								
259.4	3.1	3.1	100	2.54	82	R2	E-	13	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-24 COORDINATES: N _____ DATE Nov 1 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 1 of 2
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY LENGTH	CORE RECOVERY %	RQD LENGTH	RQD %	HARDNESS	DEGREE OF BREAKAGE CATEGORY	DEGREE OF BREAKAGE NO.	DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP DEPTH	BEDDING DIP ANGLE	BEDDING JOINTS NO.	BEDDING JOINTS FREQ.	CROSS JOINTS NO.	CROSS JOINTS FREQ.	COMMENTS
28.04	28.04	Ø		Ø		Ø	Ø		Ø								OVERBURDEN
29.6	1.56	1.05		.49	47	R2	D-	10	F								
32.6	3.0	3.0	100	2.39	80	R2	D+	12	F								
35.7	3.1	3.1	100	1.85	60	R2	D+	12	F								
38.7	3.0	3.0	100	1.82	61	R2	D	11	F								
41.8	3.1	3.1	100	1.12	36	R2	C+	9	F								
44.8	3.0	3.0	100	2.05	68	R2	D	11	F								
47.8	3.0	3.0	100	1.37	46	R2	C+	9	F								
50.9	3.1	3.1	100	1.46	47	R2	C	8	F								
53.95	3.05	3.05	100	1.53	50	R2	C+	9	F								
57.0	3.05	3.05	100	1.11	36	R2	C	8	F								
60.0	3.0	3.0	100	.68	23	R2	C-	7	F								
63.1	3.1	3.1	100	.72	23	R2	C-	7	F								
66.1	3.0	3.0	100	.60	20	R2	C-	7	F								
69.2	3.1	3.1	100	1.20	39	R2	C	8	F								
72.2	3.0	3.0	100	1.82	61	R2	C+	9	F								
75.3	3.1	3.1	100	.93	30	R2	C	8	F								
78.3	3.0	3.0	100	1.06	35	R2	C	8	F								
81.4	3.1	3.1	100	1.59	51	R2	C+	9	F								
84.4	3.0	3.0	100	1.58	53	R2	C+	9	F								
87.5	3.1	3.1	100	1.29	42	R2	C	8	F								
90.5	3.0	3.0	100	1.20	40	R2	C	8	F								
93.6	3.1	3.1	100	2.00	65	R2	C+	9	F								
96.6	3.0	3.0	100	1.91	64	R2	D-	10	F								
99.7	3.1	3.1	100	1.38	45	R2	C+	9	F								
102.7	3.0	3.0	100	1.53	51	R2	C+	9	F								
105.8	3.1	3.1	100	1.67	54	R2	C+	9	F								

Fig. 1. Typical rock mechanics core log.

F.D.

PROJECT RAINBOW DRILLHOLE NO. R94-24 COORDINATES: N _____ DATE Nov 1 19 94

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 2 of 2

LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
108.8	3.0	3.0	100	1.24	41	R2	C+	9	F								
111.9	3.1	3.1	100	.87	28	R2	C	8	F								
114.9	3.0	3.0	100	1.72	57	R2	C+	9	F								
118.0	3.1	3.1	100	1.58	51	R2	D-	10	F								
121.0	3.0	3.0	100	1.93	64	R2	D+	12	F								
124.05	3.05	3.05	100	2.23	73	R2	D+	12	F								
127.1	3.05	3.05	100	1.74	57	R2	D-	10	F								
130.15	3.05	3.05	100	1.84	60	R2	D	11	F								
133.2	3.05	3.05	100	1.86	61	R2	D-	10	F								
136.2	3.0	3.0	100	1.18	39	R2	C	8	F								
139.3	3.1	3.1	100	1.01	33	R2	C	8	F								
142.3	3.0	3.0	100	.88	29	R2	C-	7	F								
145.4	3.1	3.1	100	.99	32	R1	B+	6	F								
146.9	1.5	1.5	100	.46	31	R1	B+	6	F								
148.4	1.5	1.5	100	1.35	90	R2	D	11	F								
151.5	3.1	3.1	100	1.74	56	R2	D	11	F								
154.5	3.0	3.0	100	2.46	82	R2	D+	12	F								
157.6	3.1	3.1	100	1.79	58	R2	D+	12	F								
160.6	3.0	3.0	100	2.02	67	R2	D+	12	F								
163.7	3.1	3.1	100	1.96	63	R2	D+	12	F								
166.7	3.0	3.0	100	1.65	55	R2	D-	10	F								
169.8	3.1	3.1	100	2.06	66	R2	D+	12	F								
172.8	3.0	3.0	100	2.52	84	R2	D+	12	F								
175.9	3.1	3.1	100	1.56	50	R2	D	11	F								
178.9	3.0	3.0	100	2.37	79	R2	D+	12	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-25 COORDINATES: N _____ DATE Nov 2 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 1 of 3
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
22.7	22.7	Ø		Ø		Ø	Ø		Ø								OVERBURDEN
26.5	3.8	2.3	61	.64	17	R2	B+	6	D								
31.1	4.6	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø								RECASE - OVERBURDEN
32.6	1.5	1.3	87	.21	14	R2	C-	7	E								
35.7	3.1	2.8	90	.91	29	R2	C	8	E								
38.7	3.0	2.7	90	.10	Ø	R1	B+	6	F								
41.8	3.1	3.0	97	.24	8	R1	B+	6	F								
42.8	1.0	.8	80	Ø	Ø	R1	B+	6	F								
44.8	2.0	1.9	95	.50	25	R2	C	8	F								
47.85	3.05	3.0	98	1.29	42	R2	C	8	F								
50.9	3.05	3.05	100	1.33	44	R2	C	8	F								
53.95	3.05	3.05	100	1.10	36	R2	C+	9	F								
57.0	3.05	3.05	100	1.90	62	R2	D	11	F								
60.1	3.1	3.1	100	1.09	35	R2	D-	10	F								
63.1	3.0	3.0	100	1.24	41	R2	D	11	F								
66.1	3.0	3.0	100	1.31	44	R2	D	11	F								
69.2	3.1	3.1	100	.87	28	R2	D-	10	F								
72.2	3.0	3.0	100	.89	30	R2	D-	10	F								
75.3	3.1	3.1	100	1.15	37	R2	D-	10	F								
78.3	3.0	3.0	100	1.78	59	R2	D+	12	F								
81.4	3.1	3.1	100	1.16	37	R2	D	11	F								
84.4	3.0	3.0	100	1.64	55	R2	D+	12	F								
87.5	3.1	3.1	100	1.02	33	R2	D	11	F								
90.5	3.0	3.0	100	1.17	39	R2	D	11	F								
93.6	3.1	3.1	100	.56	18	R2	C+	8	F								
96.6	3.0	3.0	100	1.86	62	R2	D	11	F								
99.7	3.1	3.1	100	2.47	80	R2	D+	12	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R91-25 COORDINATES: N _____ DATE Nov 2 1991

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 2 of 3

LOGGER D. [illegible] INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
102.7	3.0	3.0	100	1.49	50	R2	D	11	F								
105.8	3.1	3.1	100	1.08	35	R2	D	11	F								
108.8	3.0	3.0	100	1.31	44	R2	D	11	F								
111.9	3.1	3.1	100	1.91	62	R2	D+	12	F								
114.9	3.0	3.0	100	1.73	58	R2	D+	12	F								
118.0	3.1	3.1	100	1.74	56	R2	D+	12	F								
121.0	3.0	3.0	100	1.80	60	R2	D+	12	F								
124.1	3.1	3.1	100	1.53	49	R2	D	11	F								
127.1	3.0	3.0	100	1.57	52	R2	D+	12	F								
130.1	3.0	3.0	100	2.16	72	R2	D+	12	F								
133.2	3.1	3.1	100	2.42	78	R2	D+	12	F								
136.2	3.0	3.0	100	1.21	40	R2	D	11	F								
139.3	3.1	3.1	100	2.42	78	R2	D+	12	F								
142.3	3.0	3.0	100	2.38	79	R2	D+	12	F								
145.4	3.1	3.1	100	2.34	75	R2	D+	12	F								
148.4	3.0	3.0	100	2.01	67	R2	D+	12	F								
151.5	3.1	3.1	100	1.67	54	R2	D	11	F								
154.5	3.0	3.0	100	2.49	83	R2	E-	13	F								
157.6	3.1	3.1	100	2.50	81	R2	E-	13	F								
160.6	3.0	3.0	100	1.37	46	R2	D	11	F								
163.6	3.0	3.0	100	1.69	56	R2	D	11	F								
166.7	3.1	3.1	100	1.78	57	R2	D	11	F								
169.8	3.1	3.1	100	2.14	69	R2	D+	12	F								
172.8	3.0	3.0	100	2.12	71	R2	D+	12	F								
175.9	3.1	3.1	100	3.00	97	R2	E-	13	F								
178.9	3.0	3.0	100	2.54	85	R2	D+	12	F								
182.0	3.1	3.1	100	2.77	89	R2	D+	12	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-25 COORDINATES: N _____ DATE Nov 2 1994

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 3 of 3

LOGGER D. NIKOLIC INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
189.1	3.1	3.1	100	2.71	87	R2	D+	12	F						1		
191.1	3.0	3.0	100	2.18	73	R2	E-	13	F								
194.2	3.1	3.1	100	2.61	84	R2	E	14	F								
197.2	3.0	3.0	100	1.13	38	R2	C+	9	F								
200.25	3.05	3.05	100	2.25	73	R2	D+	12	F								
203.3	3.05	3.06	100	1.75	57	R2	D	11	F								
206.4	3.1	3.1	100	2.26	73	R2	D+	12	F								
209.4	3.0	3.0	100	2.01	67	R2	D+	12	F								
212.4	3.0	3.0	100	1.74	58	R2	D	11	F								
215.4	3.0	3.0	100	2.58	86	R2	D+	12	F								
218.5	3.1	3.1	100	2.57	83	R2	D+	12	F								
221.6	3.1	3.1	100	2.42	78	R2	D+	12	F								
224.6	3.0	3.0	100	2.96	99	R2	E-	13	F								
227.7	3.1	3.1	100	2.37	76	R2	D+	12	F								
230.7	3.0	3.0	100	1.51	50	R2	D-	10	F								
233.8	3.1	3.1	100	2.31	75	R2	D+	12	F								
236.8	3.0	3.0	100	1.63	54	R2	D	11	F								
239.9	3.1	3.1	100	1.83	59	R2	D	11	F								
242.9	3.0	3.0	100	2.16	72	R2	D+	12	F								

Fig. 1. Typical rock mechanics core log.

PROJECT [redacted] DRILL [redacted] DIP [redacted] N [redacted] E [redacted] DATE [redacted]

LOCATION Kamloops HOLE SIZE _____ E _____ PAGE 1 of 3

LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
23.8	23.8	ø		ø		ø	ø		ø								Overburden
26.5	2.7	2.3	85	1.9	70	R2	D+	12	F								
29.6	3.1	3.1	100	1.96	63	R2	D+	12	F								
32.6	3.0	3.0	100	2.00	67	R2	D+	12	F								
35.7	3.1	3.1	100	1.72	55	R2	D	11	F								
38.7	3.0	3.0	100	1.79	60	R2	D	11	F								
41.75	3.05	3.05	100	1.68	55	R2	D-	10	F								
44.8	3.05	3.05	100	.93	30	R2	C	8	F								
47.85	3.05	3.05	100	1.93	63	R2	D+	12	F								
50.9	3.05	3.05	100	1.42	47	R2	D-	10	F								
53.95	3.05	3.05	100	2.18	71	R2	D	11	F								
57.0	3.05	3.05	100	2.53	83	R2	D+	12	F								
60.05	3.05	3.05	100	1.70	56	R2	D	11	F								
63.1	3.05	3.05	100	1.53	50	R2	D	11	F								
66.14	3.04	3.04	100	1.51	50	R2	D-	10	F								
69.2	3.06	3.06	100	1.78	58	R2	D	11	F								
72.2	3.0	3.0	100	2.39	80	R2	D+	12	F								
75.3	3.1	3.1	100	1.71	55	R2	D+	12	F								
78.35	3.05	3.05	100	2.24	73	R2	D+	12	F								
81.4	3.05	3.05	100	2.47	81	R2	D+	12	F								
84.45	3.05	3.05	100	2.70	89	R2	D+	12	F								
87.5	3.05	3.05	100	2.62	83	R2	D+	12	F								
90.55	3.05	3.05	100	1.34	44	R2	C+	9	F								
93.6	3.05	3.05	100	1.56	51	R2	C+	9	F								
96.65	3.05	3.05	100	1.31	43	R2	C+	9	F								
99.7	3.05	3.05	100	1.72	56	R2	D-	10	F								
102.75	3.05	3.05	100	1.83	60	R2	D	11	F								
105.8	3.05	3.05	100	.91	31	R2	C	8	F								

Fig. 1. Typical rock mechanics core log.

PROJECT Rainbow DRILLHOLE NO. [illegible] COORDINATES: N _____ DATE Nov 4 1994

LOCATION Kamloops HOLE SIZE _____ E _____ PAGE 2 of 2

LOGGER D. [illegible] INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
108.85	3.05	3.05	100	2.19	72	R2	D+	12	F								
111.9	3.05	3.05	100	1.50	49	R2	D	11	F								
114.9	3.0	3.0	100	2.25	75	R2	D+	12	F								
118.0	3.1	3.1	100	2.40	77	R2	D+	12	F								
121.0	3.0	3.0	100	2.11	70	R2	D+	12	F								
124.1	3.1	3.1	100	1.96	63	R2	D+	12	F								
127.1	3.0	3.0	100	1.85	62	R2	D+	12	F								
130.2	3.1	3.1	100	2.73	88	R2	D+	12	F								
133.2	3.0	3.0	100	2.35	78	R2	D+	12	F								
136.3	3.1	3.1	100	2.00	65	R2	D+	12	F								
139.3	3.0	3.0	100	2.08	69	R2	D+	12	F								
142.4	3.1	3.1	100	1.98	64	R2	D+	12	F								
145.4	3.0	3.0	100	.98	33	R2	C+	9	F								
148.5	3.1	3.1	100	.69	22	R2	C+	8	F								
151.5	3.0	3.0	100	1.41	47	R2	C+	9	F								
154.6	3.1	3.1	100	2.39	77	R2	D	11	F								
157.6	3.0	3.0	100	2.22	74	R2	D+	12	F								
160.7	3.1	3.1	100	2.72	88	R2	E-	13	F								
163.7	3.0	3.0	100	2.63	88	R2	E-	13	F								
166.8	3.1	3.1	100	2.06	66	R2	D+	12	F								
169.8	3.0	3.0	100	1.98	66	R2	D+	12	F								
172.85	3.05	3.05	100	2.48	81	R2	D+	12	F								
175.9	3.05	3.05	100	1.24	41	R2	D	11	F								
178.95	3.05	3.05	100	2.74	90	R2	E-	13	F								
182.0	3.05	3.05	100	2.77	91	R2	E	14	F								
185.0	3.0	3.0	100	2.33	78	R2	D+	12	F								
188.1	3.1	3.1	100	2.53	82	R2	E-	13	F								
191.15	3.05	3.05	100	2.12	70	R2	D+	12	F								

Fig. 1. Typical rock mechanics core log.

PROJECT Rainbow DRILLHOLE NO. R94-26 COORDINATES: N _____ DATE Nov 4 1994

LOCATION Kamloops HOLE SIZE _____ E _____ PAGE 3 of 3

LOGGER D. Nikirk INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
194.2	3.05	3.05	100	2.17	71	R2	D	11	F								
197.25	3.05	3.05	100	2.09	69	R2	D	11	F								
200.3	3.05	3.05	100	2.03	67	R2	D	11	F								
203.35	3.05	3.05	100	2.67	88	R2	E-	13	F								
206.4	3.05	3.05	100	2.95	97	R2	E	14	F								
209.45	3.05	3.05	100	1.89	62	R2	D	11	F								
212.5	3.05	3.05	100	1.59	52	R2	D-	10	F								
215.55	3.05	3.05	100	2.03	67	R2	D	11	F								
218.6	3.05	3.05	100	1.15	38	R2	C+	9	F								
221.6	3.0	3.0	100	1.66	55	R2	D-	10	F								
224.7	3.1	3.1	100	1.31	42	R2	D-	10	F								
227.7	3.0	3.0	100	2.26	75	R2	D+	12	F								
230.8	3.1	3.1	100	1.87	60	R2	D	11	F								
233.8	3.0	3.0	100	1.63	54	R2	D	11	F								
236.8	3.0	3.0	100	1.77	59	R2	D+	12	F								
239.9	3.1	3.1	100	1.53	49	R2	D	11	F								
242.9	3.0	3.0	100	2.52	84	R2	E-	13	F								
246.0	3.1	3.1	100	1.29	42	R2	D-	10	F								
249.0	3.0	3.0	100	2.17	72	R2	D+	12	F								
252.1	3.1	3.1	100	2.02	65	R2	E-	13	F								
255.1	3.0	3.0	100	2.52	84	R2	E-	13	F								
258.2	3.1	3.1	100	1.24	40	R2	D-	10	F								
261.2	3.0	3.0	100	1.80	60	R2	D	11	F								
264.3	3.1	3.1	100	2.51	81	R2	D+	12	F								
267.3	3.0	3.0	100	2.29	76	R2	D+	12	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-27 COORDINATES: N _____ DATE Nov 6 1994

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 1 of 3

LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
22.8	22.8	Ø		Ø		Ø	Ø		Ø								OVERBURDEN
23.5	.70	.35	50	.12	17	R2	C-	7	F	F							
26.5	3.0	2.95	98	1.41	48	R2	D-	10	F								
29.6	3.1	3.0	97	2.03	65	R2	D	11	F								
32.6	3.0	3.0	100	2.59	86	R2	D+	12	F								
35.7	3.1	3.1	100	1.87	60	R2	D+	12	F								
38.7	3.0	3.0	100	2.45	82	R2	D+	12	F								
41.8	3.1	3.1	100	1.13	36	R2	C+	9	F								
44.8	3.0	3.0	100	1.96	65	R2	D	11	F								
47.85	3.05	3.05	100	2.38	78	R2	D	11	F								
50.9	3.05	3.05	100	2.31	76	R2	D+	12	F								
53.95	3.05	3.05	100	1.76	58	R2	D	11	F								
57.0	3.05	3.05	100	2.04	67	R2	D	11	F								
60.05	3.05	3.05	100	1.48	49	R2	D+	12	F								
63.1	3.05	3.05	100	2.34	77	R2	D+	12	F								
66.15	3.05	3.05	100	1.96	64	R2	D+	12	F								
69.2	3.05	3.05	100	1.90	62	R2	D+	12	F								
72.25	3.05	3.05	100	2.04	67	R2	D+	12	F								
75.3	3.05	3.05	100	2.32	76	R2	D+	12	F								
78.3	3.0	3.0	100	2.31	77	R2	D+	12	F								
81.4	3.1	3.1	100	2.30	74	R2	D+	12	F								
84.4	3.0	3.0	100	1.88	63	R2	D+	12	F								
87.5	3.1	2.79	90	.22	7	R1	B+	6	F								
90.5	3.0	2.84	95	1.02	34	R1	C	8	F								
93.6	3.1	2.94	95	1.24	40	R2	C	8	F								
96.6	3.0	3.0	100	1.66	55	R2	D-	10	F								
99.7	3.1	3.1	100	1.57	51	R2	D-	10	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-27 COORDINATES: N _____ DATE Nov 6 1994

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 2 of 3

LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
105.8	3.1	3.1	100	2.75	89	R2	E	14	F								
108.8	3.0	3.0	100	2.34	78	R2	D+	12	F								
111.9	3.1	3.1	100	2.45	79	R2	E-	13	F								
114.9	3.0	3.0	100	1.74	58	R2	D+	12	F								
118.0	3.1	3.1	100	1.79	58	R2	D+	12	F								
121.0	3.0	3.0	100	1.67	56	R2	D	11	F								
124.1	3.1	3.1	100	2.00	65	R2	D+	12	F								
127.1	3.0	3.0	100	2.12	71	R2	D+	12	F								
130.2	3.1	3.1	100	2.37	76	R2	E-	13	F								
133.2	3.0	3.0	100	2.00	67	R2	D+	12	F								
136.3	3.1	3.1	100	1.51	49	R2	D	11	F								
139.3	3.0	3.0	100	2.46	82	R2	D+	12	F								
142.4	3.1	3.1	100	2.31	75	R2	D	11	F								
145.4	3.0	3.0	100	2.93	98	R2	E-	13	F								
148.5	3.1	3.1	100	3.00	97	R2	E	14	F								
151.5	3.0	3.0	100	2.92	97	R2	E	14	F								
154.6	3.1	3.1	100	2.85	92	R2	E	14	F								
157.6	3.0	3.0	100	2.92	97	R2	E	14	F								
160.7	3.1	3.1	100	2.42	78	R2	E-	13	F								
163.7	3.0	3.0	100	2.31	77	R2	E-	13	F								
166.8	3.1	3.1	100	2.69	87	R2	E	14	F								
169.8	3.0	3.0	100	2.51	84	R2	E-	13	F								
172.9	3.1	3.1	100	2.66	86	R2	E-	13	F								
175.9	3.0	3.0	100	2.54	85	R2	E-	13	F								
179.0	3.1	3.1	100	2.69	87	R2	E-	13	F								
182.0	3.0	3.0	100	2.55	85	R2	E-	13	F								
185.1	3.1	3.1	100	2.87	93	R2	E	14	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-27 COORDINATES: N _____ DATE Nov 6 1994

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 3 of 3

LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
191.2	3.1	3.1	100	2.46	79	R2	E-	13	F								
194.2	3.0	3.0	100	2.88	96	R2	E	14	F								
197.3	3.1	3.1	100	2.80	90	R2	E	14	F								
200.3	3.0	3.0	100	2.47	82	R2	E-	13	F								
203.4	3.1	3.1	100	1.89	61	R2	D+	12	F								
206.4	3.0	3.0	100	1.94	65	R2	D+	12	F								
209.5	3.1	3.1	100	2.03	65	R2	D+	12	F								
212.5	3.0	3.0	100	2.26	75	R2	D+	12	F								
215.5	3.0	3.0	100	2.35	78	R2	D+	12	F								
218.6	3.1	3.1	100	1.74	56	R2	D+	12	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-28 COORDINATES: N _____ DATE Nov 7 1984
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 1 of 4
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
3.7	3.7	Ø		Ø		Ø	Ø		Ø								OVERBURDEN
5.2	1.5	1.45	97	.22	15	R2	C-	7	F								
8.2	3.0	2.9	97	1.15	38	R2	C-	7	F								
11.3	3.1	3.1	100	2.43	78	R2	D	11	F								
14.3	3.0	3.0	100	2.26	75	R2	D	11	F								
17.4	3.1	3.1	100	1.77	57	R2	D	11	F								
20.4	3.0	3.0	100	2.75	92	R2	E-	13	F								
23.5	3.1	3.1	100	2.52	81	R2	E-	13	F								
26.5	3.0	3.0	100	2.10	70	R2	D+	12	F								
29.6	3.1	3.1	100	2.85	92	R2	E	14	F								
32.6	3.0	3.0	100	2.38	79	R2	D+	12	F								
35.7	3.1	3.1	100	2.40	77	R2	D+	12	F								
38.7	3.0	3.0	100	2.64	88	R2	E-	13	F								
41.8	3.1	3.1	100	2.52	81	R2	E-	13	F								
44.8	3.0	3.0	100	2.78	93	R2	E-	13	F								
47.9	3.1	3.1	100	2.82	91	R2	E-	13	F								
50.9	3.0	3.0	100	2.94	98	R2	E	14	F								
54.0	3.1	3.1	100	2.70	87	R2	E	14	F								
57.0	3.0	3.0	100	2.89	96	R2	E	14	F								
60.1	3.1	3.1	100	2.54	82	R2	D+	12	F								
63.1	3.0	3.0	100	2.71	90	R2	E	14	F								
66.2	3.1	3.1	100	2.49	80	R2	E-	13	F								
69.2	3.0	3.0	100	2.77	92	R2	E-	13	F								
72.3	3.1	3.1	100	2.73	88	R2	E-	13	F								
75.3	3.0	3.0	100	2.60	87	R2	E-	13	F								
78.4	3.1	3.1	100	2.66	86	R2	E-	13	F								
81.4	3.0	3.0	100	2.62	87	R2	E-	13	F								
84.5	3.1	3.1	100	2.75	89	R2	E	14	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-28 COORDINATES: N _____ DATE NOV 7 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 2 of 4
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
87.5	3.0	3.0	100	2.97	99	R2	E	14	F								
90.6	3.1	3.1	100	2.81	91	R2	E -	14	F								
93.6	3.0	3.0	100	1.76	59	R2	D	11	F								
96.6	3.0	3.0	100	2.58	86	R2	D+	12	F								
99.7	3.1	3.1	100	2.85	92	R2	D+	12	F								
102.7	3.0	3.0	100	2.31	77	R2	E -	13	F								
105.8	3.1	3.1	100	2.96	95	R2	E	14	F								
108.8	3.0	3.0	100	2.64	88	R2	E -	13	F								
111.9	3.1	3.1	100	2.92	94	R2	E -	13	F								
114.9	3.0	3.0	100	2.67	89	R2	E -	13	F								
118.0	3.1	3.1	100	2.57	83	R2	E -	13	F								
121.0	3.0	3.0	100	2.73	91	R2	E -	13	F								
124.05	3.05	3.05	100	2.53	83	R2	E -	13	F								
127.1	3.05	3.05	100	2.43	80	R2	E -	13	F								
130.15	3.05	3.05	100	2.74	90	R2	E -	13	F								
133.2	3.05	3.05	100	3.02	99	R2	E -	13	F								
136.2	3.0	3.0	100	2.27	76	R2	E -	13	F								
139.3	3.1	3.1	100	1.78	57	R2	D-	10	F								
142.3	3.0	3.0	100	2.71	90	R2	D+	12	F								
145.4	3.1	3.1	100	2.22	72	R2	D+	12	F								
148.4	3.0	3.0	100	1.88	63	R2	D+	12	F								
151.5	3.1	3.1	100	1.00	32	R2	C -	7	F								
154.5	3.0	3.0	100	2.02	67	R2	D	11	F								
157.6	3.1	3.1	100	2.14	69	R2	D+	12	F								
160.6	3.0	3.0	100	2.46	82	R2	E	14	F								
163.7	3.1	3.1	100	2.05	66	R2	D+	12	F								
166.5	2.8	2.8	100	1.69	60	R2	D-	10	F								
167.6	1.1	.90	100	ϕ	ϕ	R0	A-	1	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-28 COORDINATES: N _____ DATE Nov 7 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 3 of 4
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
169.8	2.2	2.1	95	1.88	85	R2	D+	12	F								
172.9	3.1	3.1	100	1.59	51	R2	D+	12	F								
175.9	3.0	3.0	100	2.62	87	R2	E-	13	F								
179.0	3.1	3.1	100	2.76	89	R2	E-	13	F								
182.0	3.0	3.0	100	2.76	92	R2	E-	13	F								
185.0	3.0	3.0	100	2.38	79	R2	E-	13	F								
188.1	3.1	3.1	100	2.60	84	R2	D+	12	F								
191.2	3.1	3.1	100	2.31	75	R2	D+	12	F								
194.2	3.0	3.0	100	2.44	81	R2	D+	12	F								
197.3	3.1	3.1	100	2.56	83	R2	D+	12	F								
200.3	3.0	3.0	100	2.74	91	R2	E-	13	F								
203.4	3.1	3.1	100	2.77	89	R2	E-	13	F								
206.4	3.0	3.0	100	2.75	92	R2	E-	13	F								
209.5	3.1	3.1	100	3.00	97	R2	E-	13	F								
212.5	3.0	3.0	100	2.93	98	R2	E-	13	F								
215.5	3.0	3.0	100	2.83	94	R2	E-	13	F								
218.6	3.1	3.1	100	2.92	94	R2	E-	13	F								
221.6	3.0	3.0	100	2.94	98	R2	E-	13	F								
224.7	3.1	3.1	100	2.99	96	R2	E-	13	F								
227.7	3.0	3.0	100	2.81	94	R2	E-	13	F								
230.8	3.1	3.1	100	2.45	79	R2	D+	12	F								
233.8	3.0	3.0	100	2.59	86	R2	E-	13	F								
236.9	3.1	3.1	100	2.04	66	R2	D+	12	F								
239.9	3.0	3.0	100	2.85	95	R2	E-	13	F								
243.0	3.1	3.1	100	2.74	88	R2	E-	13	F								
246.0	3.0	3.0	100	2.95	98	R2	E-	13	F								
249.1	3.1	3.1	100	2.61	84	R2	E-	13	F								
252.1	3.0	3.0	100	2.64	88	R2	E-	13	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-28 COORDINATES: N _____ DATE Nov 7 1994

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 4 of 4

LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
255.2	3.1	3.1	100	2.59	84	R2	E-	13	F								
258.2	3.0	3.0	100	2.64	88	R2	E-	13	F								
261.3	3.1	3.1	100	2.57	83	R2	E-	13	F								
264.3	3.0	3.0	100	2.12	71	R2	D+	12	F								
267.3	3.0	3.0	100	1.19	40	R2	D	11	F								
270.4	3.1	3.1	100	2.55	82	R2	D+	12	F								
273.4	3.0	3.0	100	2.27	76	R2	D+	12	F								
276.5	3.1	3.1	100	2.69	87	R2	E-	13	F								
279.5	3.0	3.0	100	2.43	81	R2	E-	13	F								
282.5	3.0	3.0	100	2.64	88	R2	E-	13	F								

Fig. 1.. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-29 COORDINATES: N _____ DATE Nov 9 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 1 of 3
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
49.7	49.7	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø								OVERBURDEN
50.9	1.2	1.2	100	.71	59	R2	E-	13	F								
54.0	3.1	3.1	100	2.04	66	R2	D+	12	F								
57.0	3.0	3.0	100	1.82	61	R2	D+	12	F								
60.1	3.1	3.1	100	1.66	54	R2	D+	12	F								
63.1	3.0	3.0	100	2.60	87	R2	D+	12	F								
66.2	3.1	3.1	100	2.35	76	R2	D+	12	F								
69.2	3.0	3.0	100	2.46	82	R2	D+	12	F								
72.3	3.1	3.1	100	2.41	78	R2	D+	12	F								
75.3	3.0	2.85	95	.81	27	R2	C-	7	F								
78.4	3.1	3.1	100	1.49	48	R2	D	11	F								
81.4	3.0	3.0	100	1.75	58	R2	D	11	F								
84.5	3.1	2.98	96	1.77	57	R1	D	11	F								
87.5	3.0	3.0	100	2.27	76	R2	D	11	F								
90.5	3.0	3.0	100	2.20	73	R2	D	11	F								
93.6	3.1	2.78	90	1.34	43	R2	C+	9	F								
96.6	3.0	2.83	94	.94	31	R2	C	8	F								
99.7	3.1	2.90	94	.55	18	R2	C	8	F								
102.7	3.0	2.95	98	1.88	63	R2	D	11	F								
105.8	3.1	3.00	97	2.00	65	R2	D	11	F								
108.8	3.0	3.0	100	1.79	60	R2	D	11	F								
111.9	3.1	3.1	100	.69	22	R2	C	8	F								
114.9	3.0	3.0	100	1.51	50	R2	D-	10	F								
118.0	3.1	3.1	100	1.76	57	R2	D	11	F								
121.0	3.0	3.0	100	2.16	72	R2	D	11	F								
124.05	3.05	3.05	100	1.94	64	R2	D	11	F								
127.1	3.05	3.05	100	2.34	77	R2	D+	12	F								
130.15	3.05	3.05	100	1.25	41	R2	C+	9	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-29 COORDINATES: N _____ DATE Nov. 9 19 94

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 2 of 3

LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
131.5	1.35	1.28	95	.84	62	R1	B+	6	F								
133.2	1.70	1.7	100	1.17	69	R2	D	11	F								
136.2	3.0	3.0	100	2.34	78	R2	D	11	F								
139.3	3.1	3.1	100	2.18	70	R2	D+	12	F								
142.3	3.0	3.0	100	2.73	91	R2	E	14	F								
145.4	3.1	3.1	100	2.79	90	R2	E-	13	F								
148.4	3.0	3.0	100	2.81	94	R2	E-	13	F								
151.5	3.1	3.1	100	2.61	84	R2	E-	13	F								
154.5	3.0	2.85	95	1.71	60	R0	A	2	F								
157.6	3.1	2.95	95	2.71	87	R0	A	2	F								
158.[illegible]	.85	.80	95	.60	71	R0	A	2	F								
160.6	2.15	2.15	100	1.60	74	R2	D	11	F								
163.7	3.1	3.1	100	1.[illegible]	61	R0	D-	10	F								
166.7	3.0	3.0	100	2.[illegible]	77	R2	D	11	F								
170.2	3.5	3.[illegible]	100	2.93	84	R2	D	11	F								
172.2	2.6	2.[illegible]	95	2.4[illegible]	94	R0	A	2	F								
175.3	3.1	3.1	96	1.96	63	R1	D	11	F								
178.[illegible]	3.0	3.[illegible]	100	2.71	91	R1	D	11	F								
181.[illegible]	3.1	2.96	95	2.66	86	R1	D	11	F								
184.[illegible]	3.0	2.83	95	2.[illegible]	84	R0	A	2	F								
187.[illegible]	3.1	2.95	95	2.[illegible]	77	R0	A	2	F								
190.[illegible]	3.0	2.86	95	1.[illegible]	63	R1	D	11	F								
193.[illegible]	3.1	2.[illegible]	95	1.[illegible]	55	R0	A	2	F								
196.[illegible]	3.0	2.85	95	1.49	50	R0	A	2	F								
199.[illegible]	3.0	2.85	95	2.08	69	R0	A	2	F								
203.[illegible]	3.1	3.1	100	2.[illegible]	71	R1	C-	8	F								
206.[illegible]	3.1	3.1	100	1.[illegible]	58	R2	C+	1	F								
209.5	3.1	3.1	100	2.[illegible]2	78	R2	D	11	F								

Fig. 1. Typical rock mechanics core log.

PROJECT Rainbow DRILLHOLE NO. RM-29 COORDINATES: N _____ DATE Aug 1 19 81

LOCATION Kamloops HOLE SIZE _____ E _____ PAGE 3 of 3

LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
212.5	3.0	3.0	100	2.48	83	R1	D+	12	F								
215.5	3.0	3.0	100	1.52	51	R2	D	11	F								
218.6	3.1	3.1	100	2.58	83	R2	E-	13	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-31 COORDINATES: N _____ DATE NOV 11 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 1 of 3
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
7.6	7.6	ø	ø	ø	ø	ø	ø	ø	ø								OVERBURDEN
8.2	.6	.6	100	.6	100	R2	D	11	F								
11.3	3.1	3.1	100	2.17	70	R2	D	11	F								
14.3	3.0	3.0	100	2.10	70	R2	D	11	F								
17.4	3.1	3.1	100	1.10	35	R2	C+	9	F								
20.4	3.0	3.0	100	2.25	75	R2	D	11	F								
23.5	3.1	3.1	100	1.13	36	R2	C+	9	F								
26.5	3.0	3.0	100	1.34	45	R2	C+	9	F								
29.6	3.1	3.1	100	2.31	75	R2	D-	10	F								
32.6	3.0	3.0	100	1.86	62	R2	D-	10	F								
35.7	3.1	3.1	100	2.59	84	R2	D+	12	F								
38.7	3.0	3.0	100	1.71	57	R2	D	11	F								
[illegible]	3.1	3.1	100	1.61	52	R2	D	11	F								
44.8	3.0	3.0	100	2.01	67	R2	D-	10	F								
47.85	3.05	3.05	100	1.53	50	R2	D-	10	F								
50.9	3.05	3.05	100	2.02	66	R2	D-	10	F								
53.95	3.05	3.05	100	2.28	75	R2	D+	12	F								
57.0	3.05	3.05	100	1.42	47	R2	D-	10	F								
60.1	3.1	3.1	100	1.42	46	R2	D-	10	F								
63.1	3.0	3.0	100	2.21	74	R2	D	11	F								
66.2	3.1	3.1	100	1.92	62	R2	D-	10	F								
69.2	3.0	3.0	100	1.77	59	R2	D	11	F								
72.3	3.1	3.1	100	2.41	78	R2	D+	12	F								
75.3	3.0	3.0	100	2.36	79	R2	D+	12	F								
78.4	3.1	3.1	100	1.92	62	R2	D	11	F								
81.4	3.0	3.0	100	2.89	96	R2	D+	12	F								
84.5	3.1	3.1	100	1.85	60	R2	D	11	F								
87.5	3.0	3.0	100	1.34	45	R2	D-	10	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-31 COORDINATES: N _____ DATE Nov 11 19 94
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 2 of 3
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
90.5	3.0	3.0	100	2.34	78	R2	D+	12	F								
93.6	3.1	3.1	100	2.47	80	R2	D+	12	F								
96.6	3.0	3.0	100	2.35	78	R2	D+	12	F								
99.7	3.1	3.1	100	2.15	69	R2	D+	12	F								
102.7	3.0	3.0	100	1.07	36	R2	D-	10	F								
105.8	3.1	3.1	100	1.57	51	R2	D-	10	F								
108.8	3.0	3.0	100	2.15	72	R2	D+	12	F								
111.9	3.1	3.1	100	2.04	66	R2	D+	12	F								
114.9	3.0	3.0	100	2.27	76	R2	D+	12	F								
118.0	3.1	3.1	100	1.25	40	R2	D-	10	F								
121.0	3.0	3.0	100	1.42	47	R2	D-	10	F								
124.1	3.1	3.1	100	2.57	83	R2	D+	12	F								
127.1	3.0	3.0	100	2.72	91	R2	E-	13	F								
130.2	3.1	3.1	100	2.62	85	R2	D+	12	F								
133.2	3.0	3.0	100	2.67	89	R2	D+	12	F								
136.3	3.1	3.1	100	2.93	96	R2	E-	13	F								
139.3	3.0	3.0	100	2.87	96	R2	E-	13	F								
142.3	3.0	3.0	100	2.60	87	R2	E-	13	F								
145.4	3.1	3.1	100	2.92	94	R2	E-	13	F								
148.4	3.0	3.0	100	2.21	74	R2	D	11	F								
151.5	3.1	3.1	100	2.41	78	R2	D+	12	F								
154.5	3.0	3.0	100	2.60	87	R2	D+	12	F								
157.6	3.1	3.1	100	1.39	45	R2	C+	9	F								
160.6	3.0	3.0	100	1.88	63	R2	C+	9	F								
163.7	3.1	3.1	100	1.40	45	R2	C+	9	F								
166.8	3.0	3.0	100	1.63	54	R2	C-	8	F								
169.8	3.0	3.0	100	1.11	37	R2	C-	8	F								
172.9	3.1	3.1	100	.94	30	R2	C-	8	F								

Fig. 1: Typical rock mechanics core log.

PROJECT RHINBOW DRILLHOLE NO. R94-31 COORDINATES: N _____ DATE Nov 11 1994
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 3 of 3
LOGGER D. NIKIRIS INCLINATION _____ ELEVATION _____

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GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
175.9	3.0	3.0	3.0	1.28	43	R2	C	8	F								
179.0	3.1	3.1	3.1	2.56	83	R2	D+	12	F								
182.0	3.0	3.0	3.0	2.40	80	R2	D+	12	F								
185.1	3.1	3.1	3.1	2.12	68	R2	D	11	F								
188.1	3.0	3.0	3.0	2.63	88	R2	D+	12	F								
191.1	3.0	3.0	3.0	1.48	49	R2	D	11	F								
194.2	3.1	3.1	3.1	2.07	67	R2	D	11	F								
197.2	3.0	3.0	3.0	1.74	58	R2	D	11	F								
200.25	3.05	3.05	3.05	.93	30	R2	C+	9	F								
203.3	3.05	3.05	3.05	1.74	57	R2	D	11	F								
206.4	3.1	3.1	3.1	1.56	50	R2	D	11	F								
209.5	3.1	3.1	3.1	.67	22	R2	C+	9	F								
212.5	3.0	3.0	3.0	1.04	35	R2	C+	9	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. 94-30 COORDINATES: N _____ DATE 1 Oct 10 19 94
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 1 of 3
LOGGER D. NIKIRK INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
4.6	4.6	ø	ø	ø	ø	ø	ø	ø	ø								OVERBURDEN
5.2	.6	.6	100	.6	100	R2	D	11	E								
8.2	3.0	3.0	100	1.73	58	R2	D-	10	E								
11.3	3.1	3.1	100	1.09	35	R1	D-	10	F								
14.3	3.0	3.0	100	1.72	57	R2	D	11	F								
17.4	3.1	3.1	100	.95	31	R2	C	8	F								
20.4	3.0	3.0	100	1.22	41	R2	D	11	F								
23.5	3.1	3.1	100	2.50	81	R2	D+	12	F								
26.5	3.0	3.0	100	2.81	94	R2	F-	13	F								
29.6	3.1	3.1	100	1.41	45	R2	D-	10	F								
32.6	3.0	3.0	100	1.95	65	R2	D	11	F								
35.7	3.1	3.1	100	1.19	38	R2	D-	10	F								
38.7	3.0	3.0	100	2.14	71	R2	D	11	F								
41.8	3.1	3.1	100	1.29	42	R2	C+	9	F								
44.8	3.0	3.0	100	1.12	37	R2	C+	9	F								
47.9	3.1	3.1	100	1.29	42	R2	C+	9	F								
50.9	3.0	3.0	100	1.12	37	R2	C+	9	F								
54.0	3.1	3.1	100	1.51	49	R2	C+	9	F								
57.0	3.0	3.0	100	2.39	80	R2	D-	10	F								
60.0	3.0	3.0	100	1.54	51	R2	C+	9	F								
63.1	3.1	3.1	100	1.09	35	R2	C	8	F								
66.1	3.0	3.0	100	1.76	59	R2	C+	9	F								
69.2	3.1	3.1	100	1.54	50	R2	C+	9	F								
72.2	3.0	3.0	100	.27	9	R2	C	8	F								
75.3	3.1	3.1	100	2.27	73	R2	D	11	F								
78.3	3.0	3.0	100	2.94	95	R2	D+	12	F								
81.4	3.1	3.1	100	2.09	67	R2	D	11	F								
84.4	3.0	3.0	100	2.43	81	R2	D+	12	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINBOW DRILLHOLE NO. R94-30 COORDINATES: N _____ DATE Nov 17 19 94
LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 2 of 3
LOGGER D. NIKIEK INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
87.5	3.1	3.1	100	2.69	87	R2	D+	12	F								
90.5	3.0	3.0	100	2.13	71	R2	D+	12	F								
93.6	3.1	3.1	100	2.39	77	R2	D+	12	F								
96.6	3.0	3.0	100	2.51	84	R2	D+	12	F								
99.7	3.1	3.1	100	2.27	73	R2	D	11	F								
102.7	3.0	3.0	100	2.18	73	R2	D	11	F								
105.8	3.1	3.1	100	2.14	69	R2	D	11	F								
109.9	3.0	3.0	100	1.49	50	R2	C+	9	F								
111.9	3.1	3.1	100	2.71	87	R2	D	11	F								
114.9	3.0	3.0	100	2.15	72	R2	D	11	F								
118.0	3.1	3.1	100	2.96	95	R2	D+	12	F								
121.0	3.0	3.0	100	2.77	92	R2	D+	12	F								
124.1	3.1	3.1	100	2.50	81	R2	D+	12	F								
127.1	3.0	3.0	100	2.00	67	R2	D	11	F								
130.2	3.1	3.1	100	1.67	54	R2	D-	10	F								
133.2	3.0	3.0	100	1.42	47	R2	C+	9	F								
136.2	3.0	3.0	100	2.24	75	R2	D+	12	F								
139.3	3.1	3.1	100	2.06	66	R2	D	11	F								
142.3	3.0	3.0	100	2.86	95	R2	D+	12	F								
145.4	3.1	3.1	100	2.91	94	R2	C-	10	F								
148.4	3.0	3.0	100	2.75	92	R2	E	14	F								
151.5	3.1	3.1	100	2.53	82	R2	D+	12	F								
154.6	3.1	3.1	100	2.48	80	R2	D+	12	F								
157.6	3.0	3.0	100	2.77	92	R2	E-	13	F								
160.7	3.1	3.1	100	2.74	88	R2	F-	13	F								
163.7	3.0	3.0	100	2.30	77	R2	D+	12	F								
166.8	3.1	3.1	100	2.42	78	R2	D+	12	F								
169.8	3.0	3.0	100	2.51	84	R2	D+	12	F								

Fig. 1. Typical rock mechanics core log.

PROJECT RAINCOAT DRILLHOLE NO. R91-30 COORDINATES: N _____ DATE 1.11.91

LOCATION KAMLOOPS HOLE SIZE _____ E _____ PAGE 3 of 3

LOGGER D. MIKIRK INCLINATION _____ ELEVATION _____

PITEAU & ASSOCIATES
GEOTECHNICAL CONSULTANTS
VANCOUVER CALGARY

GEOTECHNICAL CORE LOG

DEPTH (TO)	LENGTH OF RUN	CORE RECOVERY		RQD		HARDNESS	DEGREE OF BREAKAGE		DEGREE OF WEATHERING	ROCK TYPE	BEDDING DIP		BEDDING JOINTS		CROSS JOINTS		COMMENTS
		LENGTH	%	LENGTH	%		CATEGORY	NO.			DEPTH	ANGLE	NO.	FREQ.	NO.	FREQ.	
172.8	3.0	3.0	100	2.87	96	R2	E	14	F								
175.9	3.1	3.1	100	2.98	96	R2	E-	13	F								
178.9	3.0	3.0	100	1.63	54	R2	C+	9	F								
182.0	3.1	3.1	100	2.10	68	R2	D+	12	F								
185.0	3.0	3.0	100	2.48	83	R2	D+	12	F								
188.1	3.1	3.1	100	1.32	43	R2	C+	9	F								
191.1	3.0	3.0	100	2.55	85	R2	D+	12	F								
194.2	3.1	3.1	100	1.86	60	R2	D	11	F								
197.2	3.0	3.0	100	2.31	77	R2	D+	12	F								
200.25	3.05	3.05	100	1.61	53	R2	D	11	F								
203.3	3.05	3.05	100	1.61	54	R2	D	11	F								
206.4	3.1	3.1	100	1.87	60	R2	D	11	F								
209.4	3.0	3.0	100	1.73	58	R2	D	11	F								
212.4	3.0	3.0	100	2.79	93	R2	E	14	F								
215.5	3.1	3.1	100	2.28	74	R2	E	14	F								
218.5	3.0	3.0	100	1.07	36	R2	C+	9	F								

Fig. 1. Typical rock mechanics core log.

APPENDIX IV

SURVEY COORDINATES FOR SELECTED

1994 DIAMOND DRILL COLLARS

To: Jim Oliver

CC-COGO output, date: 11-25-1994, time: 8:21:14 AM, FILE NOT YET LOADED

USING COORDINATE FILE NAMED RAINBOW.CCC

1	N	6000.000,	E	6000.000	874.103	IP-3
2	N	5693.988,	E	6277.783	856.492	PCON
3	N	7561.346,	E	5196.850	937.333	DDH94-02
4	N	7382.080,	E	5386.280	916.409	DDH94-18
5	N	7302.300,	E	5344.489	909.707	DDH94-16
6	N	7276.959,	E	5389.569	908.976	DDH94-22
7	N	7247.901,	E	5430.305	908.030	DDH94-17
8	N	7195.399,	E	5453.237	905.457	DDH94-21
9	N	7181.589,	E	5504.775	905.166	DDH94-05
10	N	7139.652,	E	5479.242	900.796	DDH94-13
11	N	7230.001,	E	5535.385	908.412	DDH94-19
12	N	7140.517,	E	5646.527	902.623	DDH94-03
13	N	7050.127,	E	5703.196	894.880	DDH94-04
14	N	7070.425,	E	5730.234	895.443	DDH94-10 #
15	N	7445.431,	E	5194.639	940.829	DDH94-01
16	N	7235.124,	E	5420.652	907.763	PEG-4
17	N	7029.975,	E	5795.899	890.970	PEG-5
18	N	7219.491,	E	5353.099	904.519	9.00W2.50N
19	N	7051.915,	E	5426.095	893.563	7.50W1.50N
20	N	7362.259,	E	5561.528	928.068	PEG-6
21	N	7216.862,	E	5413.162	905.601	DDH94-14
22	N	7214.861,	E	5416.101	905.510	DDH94-20
23	N	7348.798,	E	5440.826	912.657	DDH-OLD
24	N	6981.814,	E	5797.173	885.370	DDH94-11 #
25	N	6882.026,	E	5848.220	878.383	DDH94-12
26	N	7435.665,	E	5627.732	935.154	DDH94-23
27	N	6953.001,	E	6173.276	873.979	DDH94-30
28	N	6871.277,	E	6017.982	876.237	DDH94-29 #
29	N	7459.005,	E	5275.964	927.512	PEG-7
30	N	7282.519,	E	5452.644	908.638	DDH94-25
31	N	7262.557,	E	5490.913	907.782	DDH94-24
32	N	7371.112,	E	5603.280	930.245	PEG-8
33	N	7365.682,	E	5620.134	930.029	DDH94-26
34	N	7327.632,	E	5687.232	928.694	PEG-9
35	N	7321.144,	E	5712.665	927.223	DDH94-27
36	N	7641.945,	E	5410.411	967.340	PEG-10
37	N	7639.730,	E	5414.266	967.210	DDH94-28
38	N	7663.269,	E	5488.334	958.955	PEG-11
39	N	7655.273,	E	5551.790	950.290	DDH94-31

335.1
45

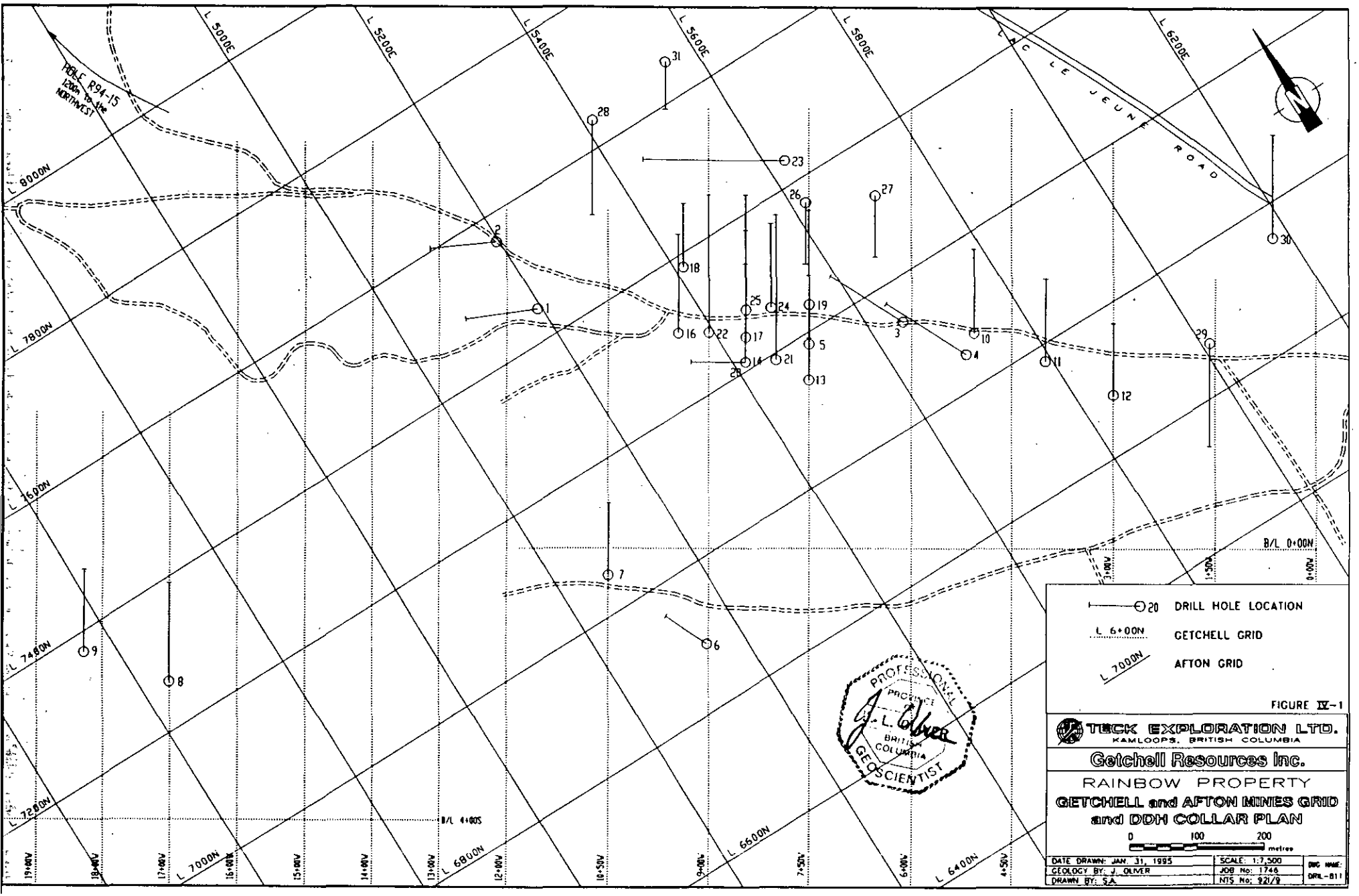


FIGURE IV-1

TECK EXPLORATION LTD.
KAMLOOPS, BRITISH COLUMBIA

Getchell Resources Inc.

RAINBOW PROPERTY

GETCHELL and AFTON MINES GRID and DDH COLLAR PLAN

DATE DRAWN: JAN. 31, 1995	SCALE: 1:7,500	DWG NAME: DRIL-811
GEOLOGY BY: J. OLIVER	JOB No: 1746	
DRAWN BY: S.A.	NTS No: 92I/9	

APPENDIX V

GEOCHEMICAL QUALITY CONTROL AND LETTER REPORT

BY SMEE, B. 1994

Analytical Quality Control

A sequence of events raised some questions regarding the quality of the assay data being received for this program. All boreholes up to and including DDH R94-17 were analyzed by multi-element ICP by Ecotech Labs of Kamloops. Very long turn-around times, in excess of 20 days, necessitated a change in laboratories to Rossbacher labs. To ensure continuity between the labs selected duplicate samples were initially analyzed by Rossbacher Labs. Discrepancies between the two analytical sets raised concerns about the comparability of the two lab assay sets. At this time all of the Ecotech rejects from hole R94-17 were analyzed by Rossbacher labs.

A plot of analytical bias, Figure V1, shows that Ecotech's samples average 12.5% higher than the Rossbacher analyses. An additional 10 reject samples from hole R94-17 were analyzed by Chemex labs. These data plot very closely to the Rossbacher data and, for copper grades up to 1.6%, consistently lie 12.5% below the Ecotech results.

These data suggested that Ecotech labs, relative to Rossbacher or Chemex had a systematic difference, 12.5% high.

To better define the nature of analytical bias a controlled standard was constructed from approximately 40 kilograms of material contained form several boreholes. This sample was analyzed by six laboratories to determine, quantitatively, the quality of the analyses being provided by the labs in question. In addition core duplicates were inserted for any samples taken, at an interval of approximately one in twenty samples for boreholes R94-24 to R94-31.

The statistical results and the documentation for these round robin analyses are presented in Smee's (1994) report which is included as part of this appendix. In addition to the data presented by Smee (1994) the following points are relevant to the interpretation of these data:

1. In their analysis of the standard, for all intents and purposes, all labs meet acceptable criterion for the accuracy and precision of this standard.

2. Ecotech's analysis of this standard closely compares to the results obtained from the five remaining labs. The 12.5% bias appears to have been eliminated in their analysis of this standard. This means:

a. The interpretation of the initial 12.5% bias is incorrect. The disparity between the three labs would then be attributed to heterogeneities in the analyzed rejects.

b. The initial 12.5% bias was correct but a change in laboratory procedure has occurred between the initial set of analyses and the analysis of the quality control standard.

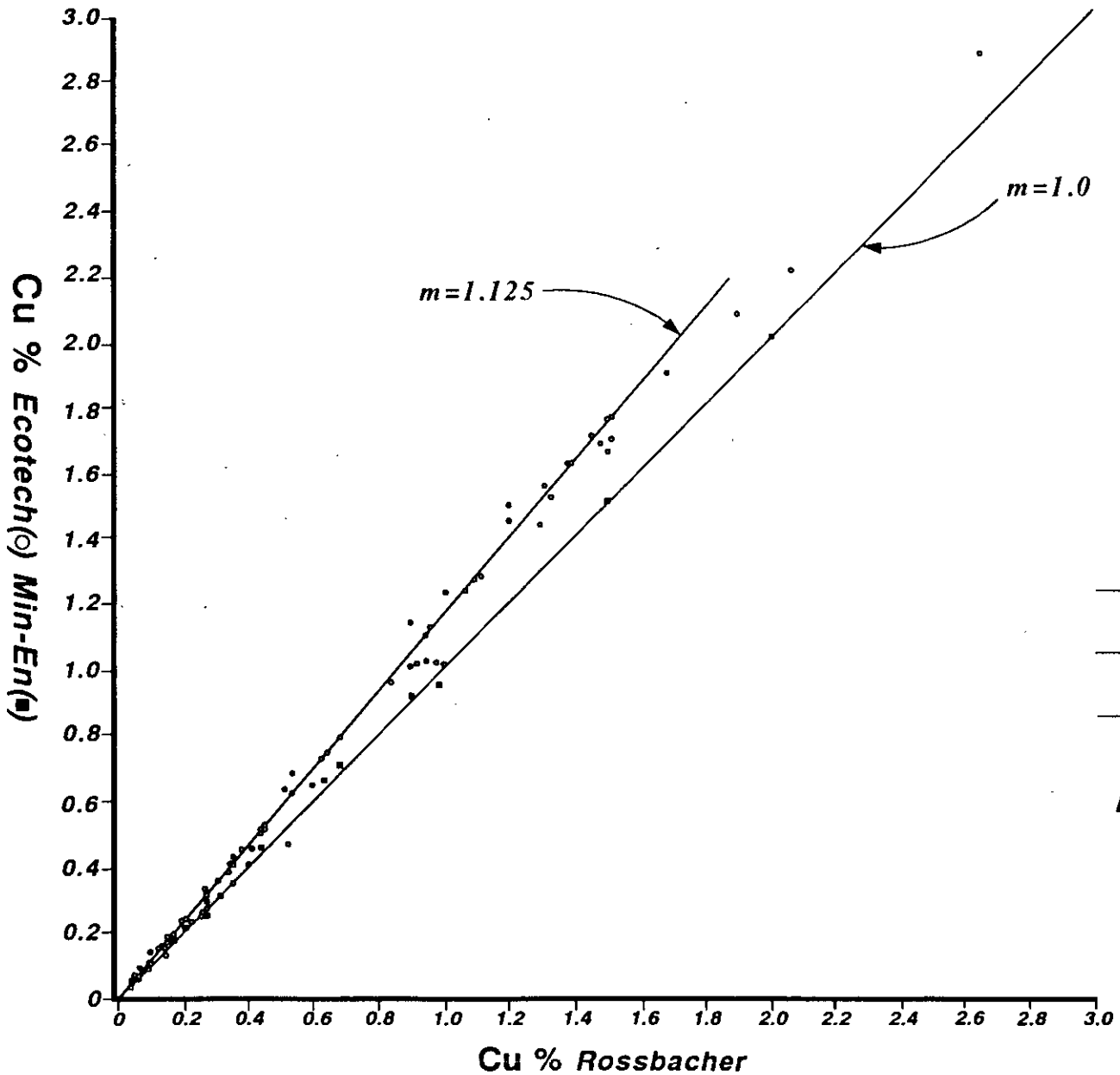
3. Personal verbal communication with F. Pezotti (Dec. 1994) indicates that Ecotech instituted two changes in the period of time between analysing the quality control standard and sample data obtained from boreholes R94-01 to R94-17. These changes were:

a. A change in the calibration standards. The borehole samples were analyzed with the ICP calibrated to a synthetic standard. The quality control sample was analyzed with the instrument calibrated to a rock standard sample developed by Can Met.

b. A change in the operator. The quality control standard was analyzed by one of Ecotech's most experienced assayers, the borehole data was analyzed by a less experienced operator.

Either, or both of these changes, could be enough to account for the elimination of the initial systematic 12.5% bias between the borehole data and the quality control standard.

Jim Oliver, M.Sc., P.Geol
February 1, 1995



Teck Exploration Ltd.

RAINBOW PROPERTY

ANALYTICAL BIAS

FIGURE V-1

BARRY W. SMEE, Ph.D., P.Geo.
consulting geochemist/geologist

December 10, 1994

Mr. Jim Oliver
Teck Exploration Ltd.
350 - 272 Victoria Street
Kamloops, BC
V2C 2A2

Dear Jim,

RE: Copper/Gold Standard
Round Robin Analysis

I have compiled the analysis from the round-robin laboratory results and have calculated the acceptable mean, upper and lower limits. I have included all data in this limited dataset, even though Min-En seems to be a bit high on the copper and the spread on the gold has a few samples outside the established limits. This appears to be a well prepared standard with the copper displaying only a 1.3% RSD. The gold still has a better than 20% RSD which is acceptable at these very low levels.

I hope you get good use from this standard Jim.

Have a happy holidays.

Yours sincerely,

Barry.

Barry W. Smee, Ph.D., P.Geo.

encl.

#608 - 1508 Mariner's Walk
Vancouver, British Columbia, Canada
V6J 4X9
Tel: (604) 739-2035
Fax: (604) 739-2036

TECK CORP., ROUND ROBIN RESULTS

STANDARD 1

ANALYSIS NUMBER	LAB	LAB CODE	CU, %	AU,ppt	AU, opt	CU LAB MEAN	CU LAB SD	AU LAB MEAN	AU LAB SD
1	CDN	CD	0.75	0.130	0.004				
2	CDN	CD	0.76	0.160	0.005				
3	CDN	CD	0.75	0.125	0.004				
4	CDN	CD	0.75	0.125	0.004				
5	CDN	CD	0.74	0.125	0.004				
6	CDN	CD	0.75	0.130	0.004				
7	CDN	CD	0.74	0.115	0.003				
8	CDN	CD	0.74	0.120	0.003	0.748	0.007	0.004	0.000
9	CHEMEX	CX	0.75		0.003				
10	CHEMEX	CX	0.74		0.003				
11	CHEMEX	CX	0.75		0.002				
12	CHEMEX	CX	0.74		0.004				
13	CHEMEX	CX	0.75		0.003				
14	CHEMEX	CX	0.75		0.003				
15	CHEMEX	CX	0.75		0.003				
16	CHEMEX	CX	0.75		0.004				
17	CHEMEX	CX	0.75		0.004				
18	CHEMEX	CX	0.75		0.004				
19	CHEMEX	CX	0.74		0.003				
20	CHEMEX	CX	0.75		0.002				
21	CHEMEX	CX	0.75		0.003				
22	CHEMEX	CX	0.75		0.003				
23	CHEMEX	CX	0.75		0.002	0.748	0.004	0.003	0.001
24	BONDAR	BC	0.75		0.003				
25	BONDAR	BC	0.75		0.004				
26	BONDAR	BC	0.74		0.003				
27	BONDAR	BC	0.76		0.003				
28	BONDAR	BC	0.73		0.004				
29	BONDAR	BC	0.75		0.004				
30	BONDAR	BC	0.73		0.004				
31	BONDAR	BC	0.74		0.003				
32	BONDAR	BC	0.75		0.003				
33	BONDAR	BC	0.75		0.006				
34	BONDAR	BC	0.74		0.003				
35	BONDAR	BC	0.74		0.003				
36	BONDAR	BC	0.76		0.004				
37	BONDAR	BC	0.73		0.003				
38	BONDAR	BC	0.75		0.005	0.745	0.010	0.004	0.001
39	ECOTECH	ET	0.74	0.11	0.003				
40	ECOTECH	ET	0.74	0.11	0.003				
41	ECOTECH	ET	0.74	0.11	0.003				
42	ECOTECH	ET	0.75	0.11	0.003				
43	ECOTECH	ET	0.74	0.12	0.003				
44	ECOTECH	ET	0.74	0.11	0.003				
45	ECOTECH	ET	0.75	0.12	0.003				
46	ECOTECH	ET	0.74	0.12	0.003				
47	ECOTECH	ET	0.74	0.11	0.003				
48	ECOTECH	ET	0.74	0.11	0.003				

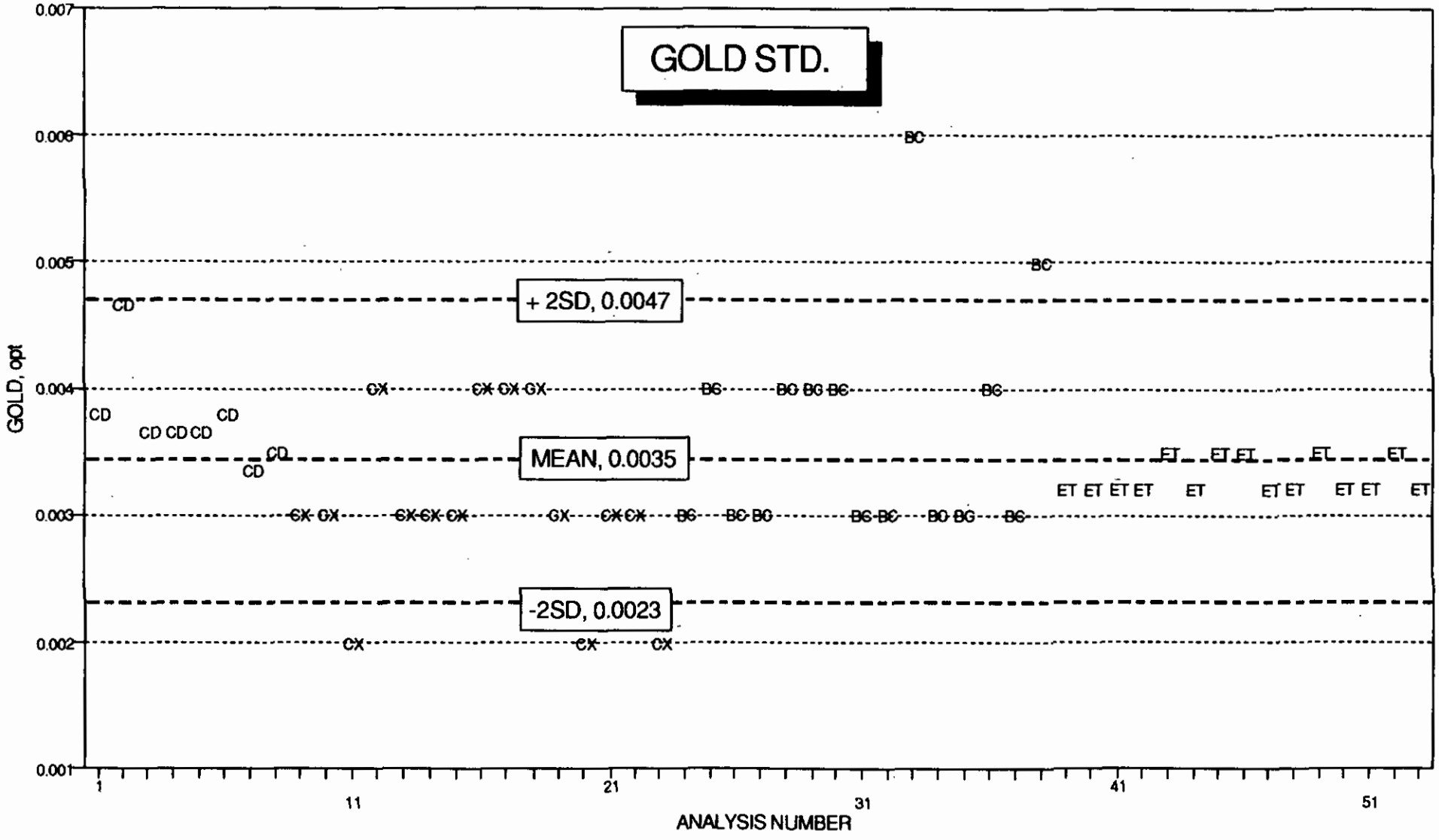
TECK CORP., ROUND ROBIN RESULTS

STANDARD 1

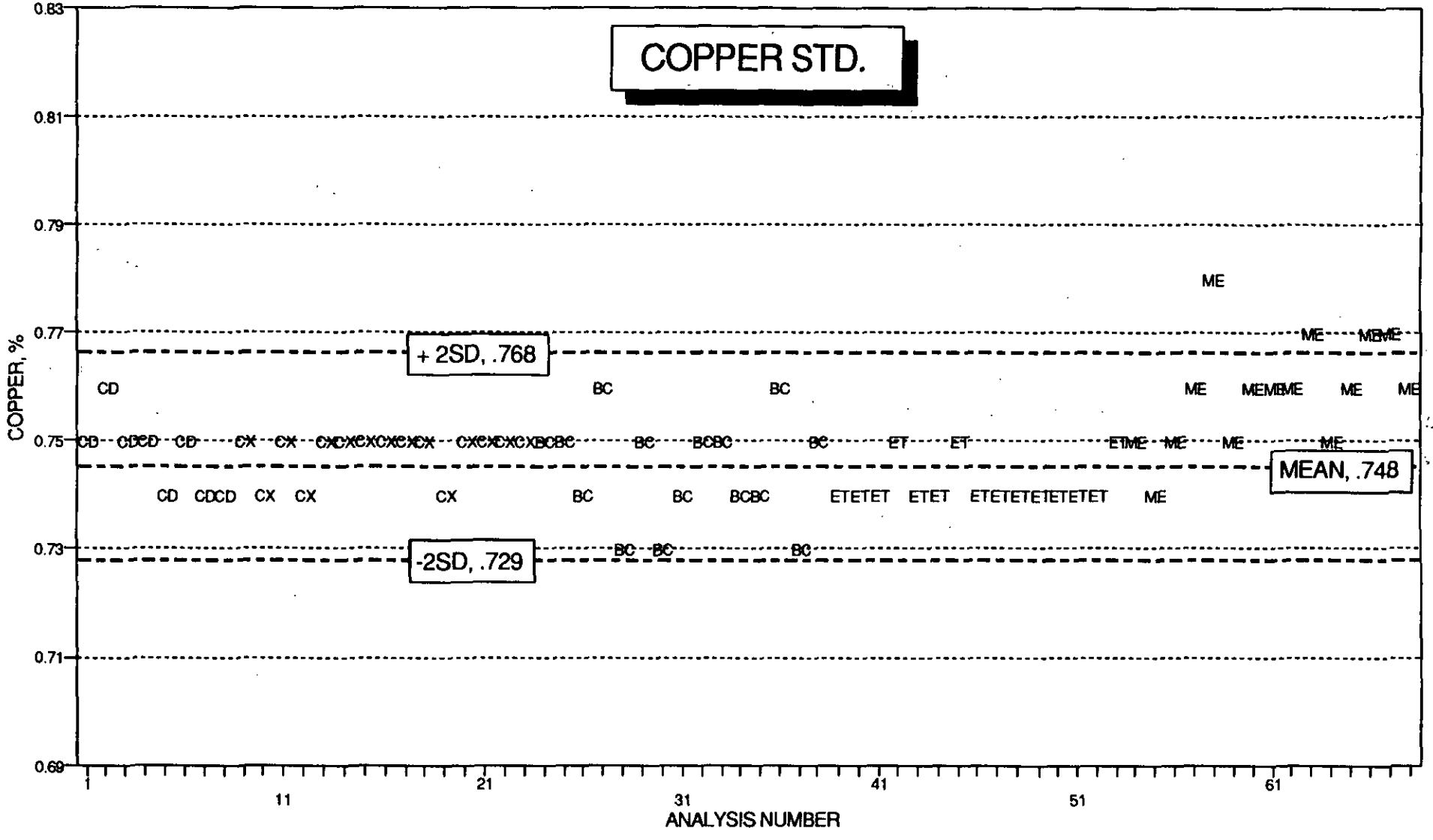
ANALYSIS NUMBER	LAB	LAB CODE	CU, %	AU,gpt	AU, opt	CU LAB MEAN	CU LAB SD	AU LAB MEAN	AU LAB SD
49	ECOTECH	ET	0.74	0.12	0.003				
50	ECOTECH	ET	0.74	0.11	0.003				
51	ECOTECH	ET	0.74	0.11	0.003				
52	ECOTECH	ET	0.74	0.12	0.003				
53	ECOTECH	ET	0.75	0.11	0.003	0.742	0.004	0.003	0.000
54	MIN-EN	ME	0.75	0.13	0.004				
55	MIN-EN	ME	0.74	0.13	0.004				
56	MIN-EN	ME	0.75	0.14	0.004				
57	MIN-EN	ME	0.76	0.12	0.003				
58	MIN-EN	ME	0.78	0.12	0.003				
59	MIN-EN	ME	0.75	0.14	0.004				
60	MIN-EN	ME	0.76	0.12	0.003				
61	MIN-EN	ME	0.76	0.13	0.004				
62	MIN-EN	ME	0.76	0.12	0.003				
63	MIN-EN	ME	0.77	0.12	0.003				
64	MIN-EN	ME	0.75	0.12	0.003				
65	MIN-EN	ME	0.76	0.13	0.004				
66	MIN-EN	ME	0.77	0.12	0.003				
67	MIN-EN	ME	0.77	0.13	0.004				
68	MIN-EN	ME	0.76	0.14	0.004	0.759	0.010	0.004	0.000

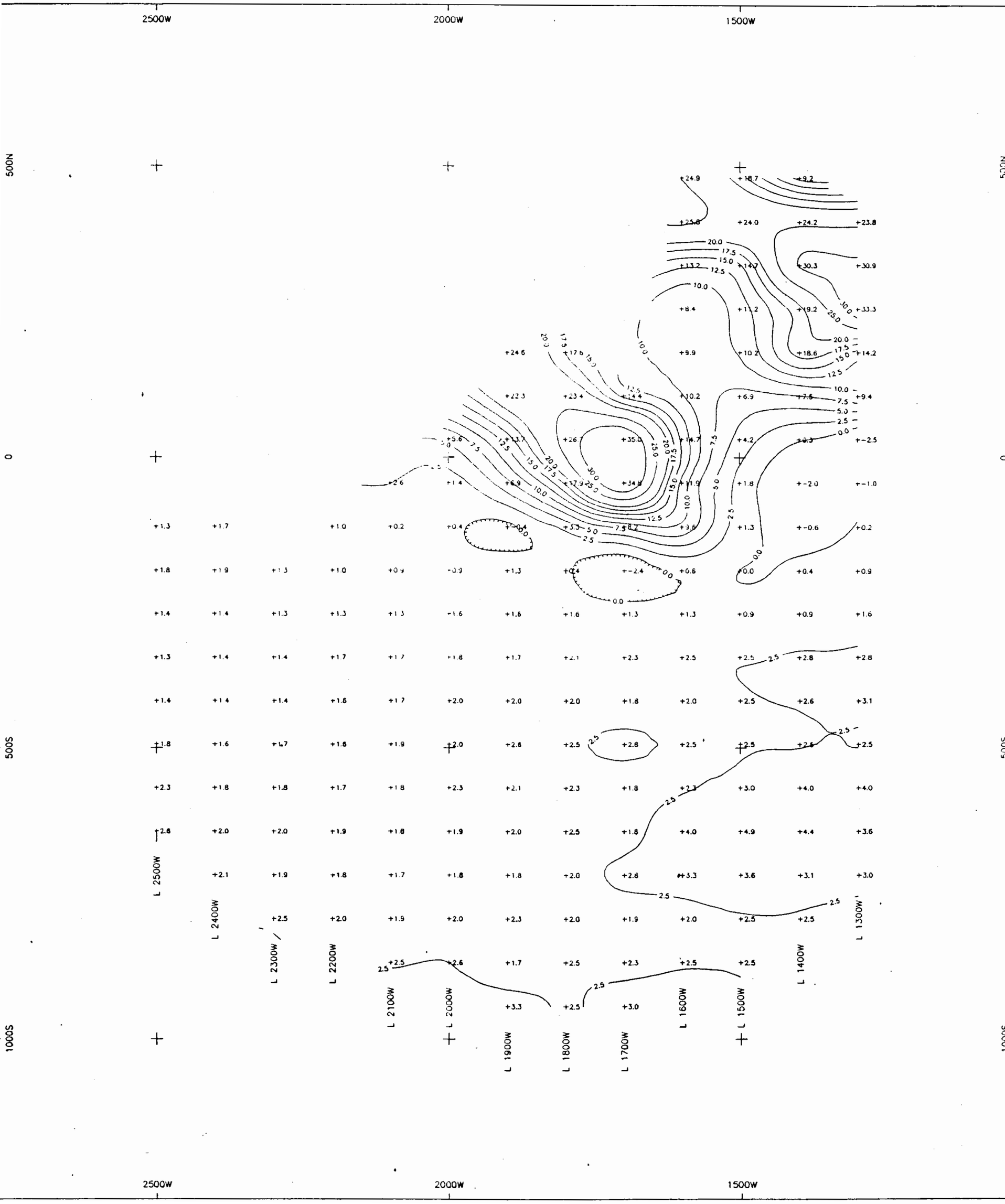
MEAN	**0.748**	**0.0035**
STD DEV	**0.010**	**0.0006**
RSD, %	**1.288**	**17.5756**
MEAN +2SD	**0.768**	**0.0047**
MEAN -2SD	**0.729**	**0.0023**

TECK CORP STANDARDS
ROUND ROBIN ANALYSIS



TECK CORP STANDARDS
ROUND ROBIN ANALYSIS





SURVEY SPECIFICATIONS

receiver	Scintrex IPR12
transmitter	Scintrex TSQ4
pulse time	2 seconds
Mx receive window	690-1050 msecs
mid point	870 msecs
array	pole dipole
a spacing	75 metres
n separations	1, 2, 3, 4

current electrode south (heading N)

contoured value a=75 n=1

contour intervals:
0.0, 2.5, 5.0, 7.5, 10.0, 12.5, 15.0, 20.0, 25.0, 30.0 mVolts/V

0 100 200 300 400
METERS

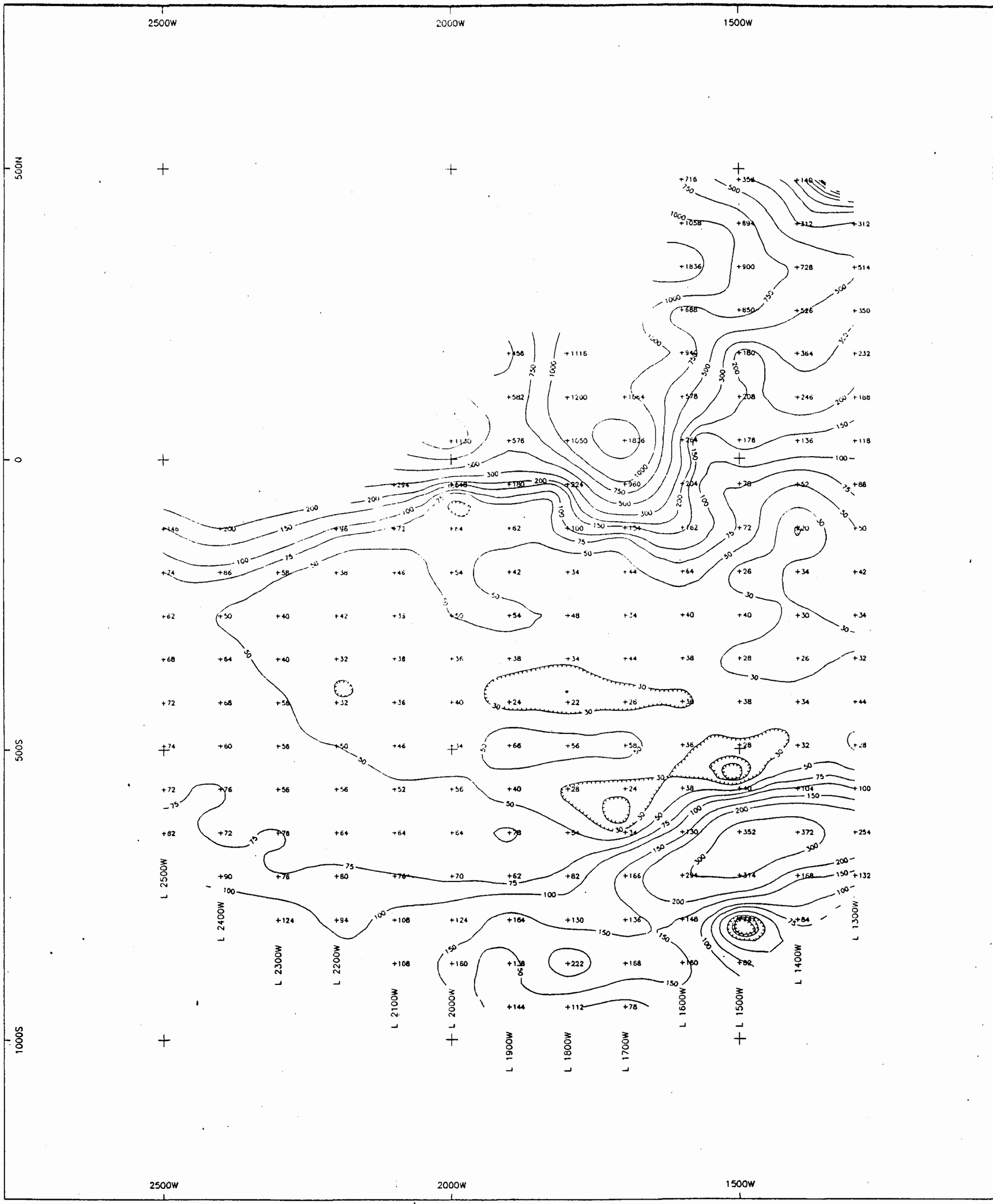
TECK EXPLORATION LTD.

RAINBOW PROPERTY

KAMLOOPS AREA, B.C.
CHARGEABILITY CONTOUR PLAN
electrode spacing = 75 metres
first separation (n=1) (1)

DRAWN BY: ars | DATE: May/94

SCOTT GEOPHYSICS LTD.



SURVEY SPECIFICATIONS

receiver	Scintrex IPR12
transmitter	Scintrex TSQ4
pulse time	2 seconds
Mx receive window	690–1050 msecs
mid point	870 msecs
array	pole dipole
a spacing	75 metres
n separations	1, 2, 3, 4

current electrode south (heading N)

contoured value a=75 n=1

log contour intervals:
15, 20, 30, 50, 75, 100, 150, 200
300, 500, 750, 1000, 1500 ohm-m

0 100 200 300 400
METERS

TECK EXPLORATION LTD.

RAINBOW PROPERTY

KAMLOOPS AREA, B.C.
RESISTIVITY CONTOUR PLAN
electrode spacing = 75 metres
first separation (n=1) (2)

DRAWN BY: ars	DATE: May/94
SCOTT GEOPHYSICS LTD.	