

GEOCHEMICAL AND GEOPHYSICAL REPORT

on the

**Happy Days, Happy Days 4
MINERAL CLAIMS**

**KAMLOOPS MINING DIVISION
NTS 92I/10E**

Latitude: 50° 39' N

Longitude 120° 41' W

for

**TECK CORPORATION
1199 West Hastings Street
Vancouver, BC
V6E 2K5**

Report By

**Lorne A. Bond
Louis H. C. Tsang**

Kamloops, BC

October 15, 1990

LOG NO: 11-06	RD.
ACTION:	
FILE NO:	

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**Lorne A. Bond
Louis H. C. Tsang**

20,424

GEOLOGICAL BRANCH
ASSESSMENT REPORT

Kamloops, BC

October 15, 1990

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Dominic Lake Grid

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Happy Days 4 Grid

Figure 5 Geochemical Survey (Cu, Au, Mo) . . (in pocket)
Figure 6 Magnetometer Survey "
Figure 7 VLF-EM Filtered Data (CM, SW) "

1. Introduction

The Happy Days Claim Group is located on the south side of Greenstone Mountain some 27 kilometres southwest of Kamloops. Access is from the Trans-Canada Highway west of Kamloops at Cherry Creek, then along good gravel roads to the Dominic Lake area (Fig 1.).

The claims are located at elevations between 1 350 and 1 650 meters. Upland pine forests cover an area of moderate relief containing a number of small lakes. Glacially derived overburden reaches depths of 30 m but some outcrop is present. Ice direction was from the northwest. Extensive clear-cut logging has made large areas of the property quite accessible.

A program consisting of geochemical soil sampling, magnetometer survey, and VLF-EM survey was carried out on two grids situated on the Happy Days claim and the Happy Days 4 claim. The work program was conducted during the period July 9 to July 19, 1990.

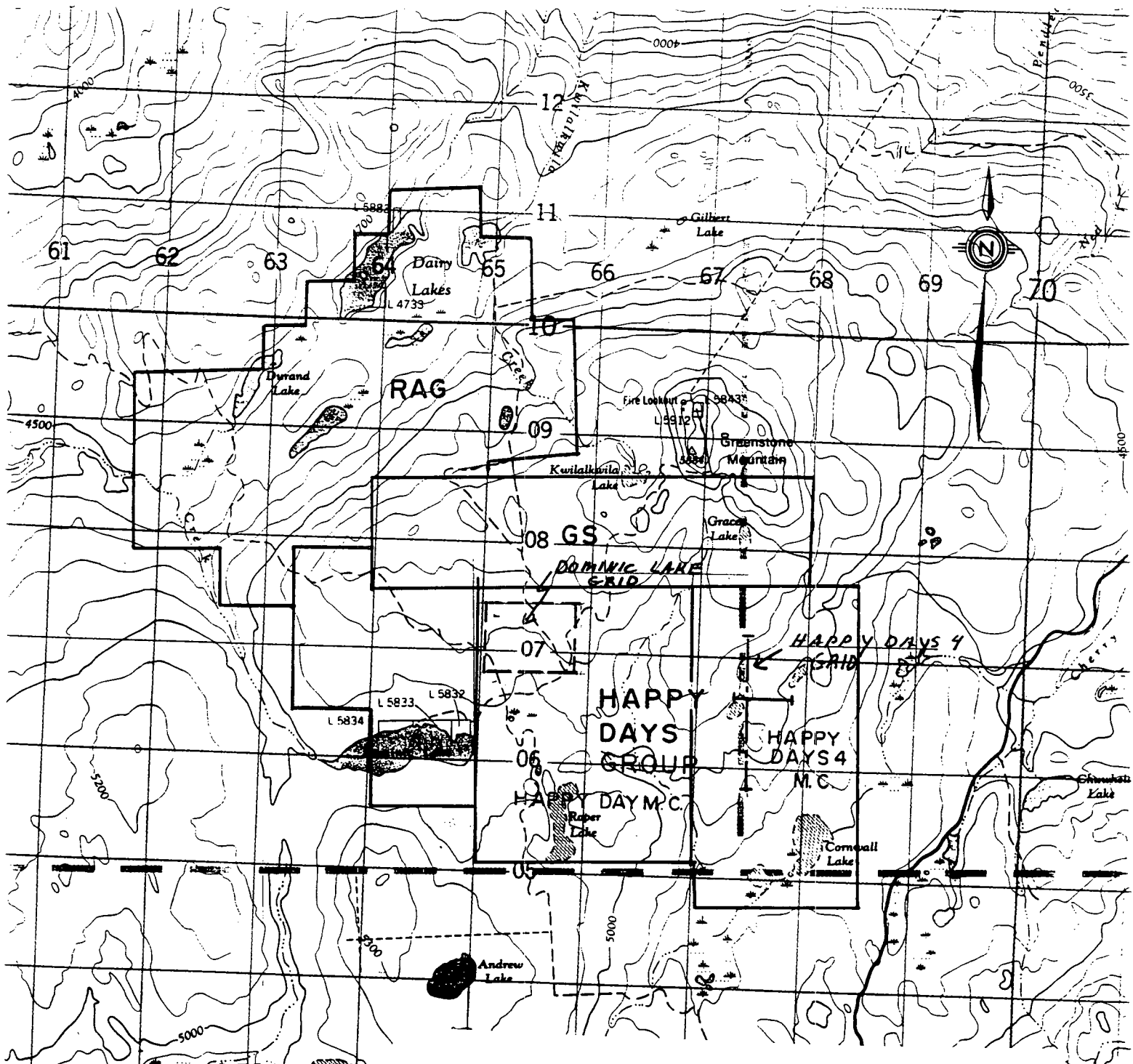
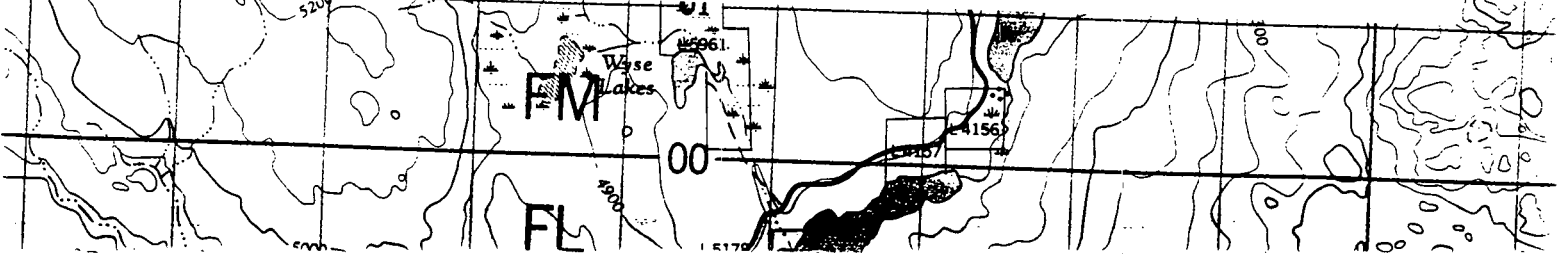


FIG. 1
LOCATION MAP
GS - RAG - HAPPY DAYS MINERAL CLAIMS
SCALE 1 : 50 000 NTS 92 I / 10E

Chumfels
 Mountain
 1962
 1000



2. Property Description

The Happy Days Claim Group consists of the following claims:

<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Expiry Date</u>
Happy Days	20	169	Dec. 30, 1992
Happy Days 4	18	1334	Aug. 8, 1995*

* Upon approval of assessment work described in this report. The Statement of Work was submitted August 3, 1990.

The claims are owned by Teck Corporation (70%) and Cominco Ltd. (30%) in a joint venture agreement with Teck as operator. The Happy Days and Happy Days 4 claims are subject to a production royalty agreement with Antelope Resources.

3. Previous Work

The area has been explored periodically since 1960 when Kennco conducted an exploration program on their DRG claims (Ass. Rpt. #325). Subsequent programs are described in the following reports:

Assessment Report No.	1009	Dominic Mining Co., 1967
"	1099	Noranda 1967
"	2511	Cominco 1970
"	3713, 4004	Mid-North Exploration 1972
"	5673	Cominco 1975
"	7337	Cominco 1979
"	8238	Cominco 1980
"	8580	Cominco 1980
"	17550	Teck Corp. 1988
"	17669	Cominco 1988

The Kennco survey (1960) outlined a broad area of anomalous molybdenum mineralization in the vicinity of the Roper Lake Stock, a calc-alkaline granitic pluton. A weaker pattern of copper and molybdenum values in soil extends to the north and northwest of the Roper Lake area in the direction of the alkalic Durand Lake Stock. The sporadic anomalous values are associated with a small plug of feldspar porphyry and fine to medium-grained diorites intruding overlying Nicola Volcanics. Subsequent work by Cominco has outlined a large low-grade molybdenite deposit centered on the Roper Lake Stock.

Induced polarization surveys conducted by Cominco personnel in 1980 (Ass. Rpt. 8580) outlined small weakly anomalous areas to the east of the Roper Lake Stock and north of Cornwall Lake. Further geological and geochemical surveys were recommended for this area.

4. Current Program

The current program was designed to further test the anomalous area northwest of Roper Lake to assess the gold potential of that area. In addition, the area of weak IP response north of Cornwall Lake was studied (Fig. 1).

On the Dominic Lake grid northwest of Roper Lake, 3.85 kilometres of line were run with chain and compass. Four east-west lines, 200 metres apart, were established and tied into a north-south baseline. On the Happy Days 4 grid, one

1 400 metre line running north south and a 500 metre crossline were located.

a) Geochemical Survey

A total of 77 samples were collected on the Dominic Lake grid at 50 metre intervals. A further 40 samples were collected on the Happy Days grid, also at 50 metre spacings. Most of the samples were collected from the top B-horizon which was generally found at depths ranging from 15 cm to 25 cm. A mattock was used to dig a hole through the A horizon to the top B horizon.

The soil samples were delivered to Kamloops Research and Assay Laboratories. The samples were dried and the minus 80 mesh fraction collected. Gold analyses were done at KRAL using a FA/AA method with a detection limit of less than 5 ppb. The additional 29 elements were analyzed by an ICP method at Acme Analytical Laboratories. Detailed descriptions of analytical methods and copies of assay certificates are in the Appendix.

On the Dominic Lake grid, copper and molybdenum values correlate reasonably well with results of earlier programs. The new gold data indicate the area to be weak relative to gold with a minor northwest trend suggested on the west side of the grid (OE) and one value of 200 ppb coinciding with high Cu at 3.OE on Line 6N (Fig.2).

On the Happy Days grid a narrow zone of weakly anomalous copper was encountered with values roughly three times back

ground. This area roughly coincides with one of the weak IP anomalies from earlier work (Fig.5).

b) Magnetometer Survey

The instrument used for the survey was a Sharpe MF-2 Fluxgate Magnetometer. The unit has a scale sensitivity of 5 gammas. A base station was established on the access road to the property and daily readings taken. Readings were taken at 25 m intervals along the grid lines. Substations were established along the baseline to check and adjust for diurnal variation.

The contrast in magnetic properties of the different rock units made this survey a useful mapping tool. The magnetic property of the diorite is useful in distinguishing it from the monzonitic phase and from the adjacent volcanic rocks in overburden covered areas. The current work on the Dominic Lake Grid has extended the known surface and near surface occurrence of diorite further to the south than previous surveys.

The very flat magnetic response on the Happy Days grid and the generally low values in the 2 000 gamma range indicate this area to be underlain by a thick sequence of Nicola Volcanics.

c) VLF-EM Survey

A Crone Radem instrument was used to receive signals from transmitters at Cutler, Maine, and Seattle, Washington. The dip angle readings of the in-phase component were recorded at

25 m intervals along the gridlines. Data obtained from the Cutler transmitter were filtered using the Fraser method. Positive filtered values are plotted and contoured in 5 degree increments.

On the Dominic Lake grid a system of very weak northwest trending structures have been outlined utilizing the Seattle data. They parallel regional topographic features and appear to correlate with the distribution of soil sample values (Fig.4).

Limited VLF-EM data from the Happy Days grid suggests a possible northwest - southeast linear feature coincident with the higher copper in soils area (Fig.7).

5. Conclusions and Recommendations

On the Happy Days grid, a small zone of weakly anomalous copper values in soil is associated with a weak IP response. However, the zone is of very limited extent and the area is underlain by a thick blanket of Nicola Volcanics as indicated from the magnetic survey and limited outcrop exposure. No further work is recommended for this area.

On the Dominic Lake grid, sporadic but widespread anomalous values in copper and molybdenum and, to a lesser extent, gold were obtained from soil sampling. More favourable intrusive rocks underlie this area as noted by surface exposures and the strong magnetic response. Soil cover is thin and the anomalous values are likely to be

locally derived. A short percussion drilling program could quickly test the more promising areas.

6. Statement of Costs

Equipment Rental and Supplies

Crone Geophysics and Exploration	
1 Crone VLF-EM Unit	
2 weeks rental at \$600/month	\$ 300
T. Hasek and Associates	
Fluxgate Magnetometer MF-2	
2 weeks rental at \$600/month	300
3/4 ton 4 X 4 ton pickup	
6 days at \$25/day	150

Soil Sample Analysis

Kamloops Research and Assay Laboratories	
117 Soil Samples for Au geochem and	
29 element ICP analyses \$10.85/sample	1,269

Personnel - Salaries

L. Tsang, J. Sadar	
6 field days - line surveying	
soil sampling, VLF-EM and	
Mag surveys	1,980
Report writing, drafting,	
data processing	<u>1,050</u>

TOTAL	\$5,049
--------------	----------------

7. Statement of Qualifications

I, Lorne Allan Bond, of the City of Kamloops, British Columbia do hereby certify that:

1. I am a qualified, practising Geologist.
2. I am a graduate of Loyola College (University of Montreal), with a B.Sc. (1967) in Geotechnical Sciences.
3. I have practised my profession since 1967 while employed with Sherritt-Gordon Mines Ltd., Cominco Ltd., and Afton Operating Corporation.
4. This report describes geophysical and geochemical exploration performed under my direction during the period July 9 to July 19, 1990.

Lorne A. Bond
Senior Geologist
Afton Operating Corporation
October 15, 1990

7. Statement of Qualifications

I, Louis Hee-Choi Tsang, of the City of Kamloops, British Columbia, do hereby certify that:

1. I am a qualified, practising geologist.
2. I am a graduate of the university of British Columbia with a B.Sc. (1972) in Geology and Geophysics.
3. I have practised my profession since 1972 while employed with Granisle Copper Ltd., Highmont Operating Corporation and Afton Operating Corporation.
4. I supervised the field work on the Happy Days claim group described in this report.

Louis H. C. Tsang
Exploration Geologist
Afton Operating Corporation
October 15, 1990

Appendix I - Geochemical Assay Certificates

**KAMLOOPS
RESEARCH & ASSAY
LABORATORY LTD.**

B.C. CERTIFIED ASSAYERS

912 - 1 LAVAL CRESCENT, KAMLOOPS, B.C. V2C 5P5 PHONE (604) 372-2784 FAX 372-1112

**** GEOCHEMICAL ANALYSIS ****



To: Afton Operating Corp.
Box 937,
Kamloops, B.C.
V2C 5N4

Number: G 2269

Date: July 12, 1990

Proj.: *for July 20/90*

Attn:

No.	Description	Au ppb
1	0+00N 0+00E	<5
2	1+00E	<5
3	1+50E	<5
4	2+00E	10
5	2+50E	<5
6	3+00E	<5
7	3+50E	<5
8	4+00E	<5
9	4+50E	<5
10	5+00E	<5
11	5+50E	<5
12	6+00E	<5
13	2+00N 0+00E	<5
14	0+50E	<5
15	1+00E	<5
16	1+50E	<5
17	2+00E	<5
18	2+50E	<5
19	3+00E	<5
20	3+50E	<5
21	4+00E	<5
22	4+50E	<5
23	5+00E	<5
24	5+50E	<5
25	6+00E	<5
26	6+50E 0+00N	<5
27	1+00N	5
28	1+50N	<5
29	2+00N	<5
30	2+50N	<5
31	3+00N	<5
32	3+50N	<5

Dominie Lake Grid

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To: Afton Operating Corp.
Box 937,
Kamloops, B.C.
V2C 5N4

Number: G 2269

Date: July 12, 1990

Proj.:

Attn:

No.	Description	Au ppb
33	6+50E 4+00N	<5
34	4+50N	<5
35	5+00N	<5
36	5+50N	<5
37	6+00N	<5
38	6+50E 0+50S	<5
39	1+00S	<5
40	1+50S	<5
41	2+00S	<5
42	2+50S	<5

Demence Lake Grid

GEOCHEMICAL ANALYSIS CERTIFICATE

Kamloops Research & Assay Lab. PROJECT G2269 File # 90-2475 Page 1

912 - 1 Laval Crescent, Kamloops BC V2c 5P5

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm
2+00N 0+00E	2	90	13	67	.1	20	12	283	3.93	3	5	ND	1	40	.2	2	2	89	.54	.063	7	34	.68	220	.13	2	1.88	.02	.06	3
2+00N 0+50E	1	58	11	62	.1	20	13	460	3.75	5	5	ND	1	40	.3	2	2	92	.51	.098	6	33	.62	202	.12	2	1.73	.01	.07	1
2+00N 1+00E	1	44	8	66	.1	18	13	478	3.63	6	5	ND	1	34	.2	2	2	83	.44	.087	4	30	.50	171	.09	6	1.99	.01	.06	1
2+00N 1+50E	1	54	15	76	.2	21	14	470	3.88	7	5	ND	1	38	.2	2	2	84	.51	.096	6	37	.64	185	.11	4	2.07	.02	.08	1
2+00N 2+00E	5	76	15	67	.3	23	16	503	3.94	9	5	ND	1	35	.4	2	2	86	.48	.123	5	35	.60	169	.10	4	2.17	.01	.08	2
2+00N 2+50E	25	105	13	50	.3	16	14	245	4.46	13	5	ND	1	31	.2	3	3	89	.35	.102	3	30	.57	107	.10	2	2.21	.02	.06	16
2+00N 3+00E	15	109	11	56	.3	23	16	431	4.16	4	5	ND	1	38	.6	2	4	86	.45	.084	4	32	.57	143	.10	4	2.03	.02	.07	13
2+00N 3+50E	5	113	11	68	.1	28	17	500	4.21	12	5	ND	1	46	.2	2	2	91	.55	.074	6	44	.77	173	.12	2	2.09	.02	.08	2
2+00N 4+00E	6	103	16	61	.2	27	14	317	3.96	7	5	ND	1	46	.3	2	2	91	.54	.049	5	41	.75	145	.12	2	1.83	.02	.06	3
2+00N 4+50E	30	194	24	101	.5	25	23	697	5.55	14	5	ND	1	25	.8	2	2	90	.30	.108	5	31	.52	163	.11	4	3.27	.01	.06	26
2+00N 5+00E	3	76	21	66	.2	21	17	610	4.02	11	5	ND	1	34	.4	2	2	89	.42	.092	5	37	.59	177	.10	2	2.29	.01	.06	1
2+00N 5+50E	1	75	9	47	.1	17	10	248	3.04	3	5	ND	1	38	.2	2	2	70	.47	.044	6	29	.47	161	.09	2	1.82	.02	.05	2
2+00N 6+00E	3	63	10	45	.1	17	9	123	2.79	4	5	ND	1	25	.4	2	3	60	.32	.046	4	24	.35	138	.08	2	2.06	.02	.06	1
0+00N 0+00E	8	129	18	62	.1	21	12	324	4.18	9	5	ND	1	56	.9	2	2	87	1.14	.038	9	31	.66	183	.10	3	2.55	.03	.07	1
0+00N 1+00E	2	80	9	55	.1	19	11	473	3.21	4	5	ND	1	51	.2	2	2	74	.60	.034	8	30	.56	288	.10	3	1.94	.02	.06	1
0+00N 1+50E	1	46	16	40	.1	12	10	201	2.99	2	5	ND	1	44	.2	2	2	81	.51	.036	5	28	.48	169	.11	4	1.52	.02	.05	1
0+00N 2+00E	1	57	10	49	.1	14	12	352	3.62	6	5	ND	1	37	.3	2	5	90	.45	.078	4	30	.48	188	.09	4	1.78	.02	.05	1
0+00N 2+50E	2	83	16	53	.1	22	12	471	3.25	7	5	ND	1	49	.3	2	2	75	.63	.051	9	35	.65	271	.11	2	1.96	.02	.07	1
0+00N 3+00E	4	62	13	43	.1	14	10	183	3.20	2	5	ND	1	37	.3	2	3	73	.47	.054	5	29	.41	229	.09	3	1.73	.02	.05	1
0+00N 3+50E	9	282	15	71	.2	38	15	503	4.16	8	6	ND	1	56	.6	2	4	76	.97	.041	14	47	.91	398	.08	2	3.34	.03	.08	5
0+00N 4+00E	7	85	13	45	.1	17	13	252	3.93	5	5	ND	1	42	.7	2	2	96	.45	.054	4	34	.57	129	.11	2	1.79	.01	.05	5
0+00N 4+50E	3	130	14	46	.1	22	14	319	3.45	3	5	ND	1	47	.3	2	2	77	.59	.043	8	37	.58	217	.09	2	1.98	.02	.06	3
0+00N 5+00E	2	104	9	59	.1	21	12	426	3.47	2	5	ND	1	48	.5	2	5	80	.57	.043	7	39	.67	195	.12	2	1.86	.02	.06	1
0+00N 5+50E	8	68	12	46	.1	18	12	217	3.70	6	5	ND	1	35	.2	2	7	87	.39	.063	4	38	.54	117	.11	3	1.76	.02	.05	3
0+00N 6+00E	4	68	22	51	.1	17	10	177	3.77	3	5	ND	1	32	.2	2	2	86	.36	.062	4	28	.41	177	.11	2	1.79	.02	.05	1
6+50E 6+00N	1	40	10	43	.2	11	8	128	2.60	3	5	ND	1	33	.5	2	5	64	.40	.035	5	26	.36	153	.09	2	1.43	.02	.06	1
6+50E 5+50N	3	102	10	56	.1	25	13	298	3.85	2	5	ND	1	47	.5	2	5	85	.74	.023	7	44	.71	265	.12	5	2.13	.02	.06	1
6+50E 5+00N	3	65	13	55	.1	18	10	247	3.41	2	5	ND	1	42	.6	2	4	66	.85	.022	5	31	.50	235	.11	2	2.91	.03	.06	1
6+50E 4+50N	2	51	9	76	.1	18	10	195	3.05	2	5	ND	1	36	.4	2	2	75	.49	.025	4	32	.52	160	.11	2	1.90	.02	.05	1
6+50E 4+00N	3	133	14	78	.1	23	13	320	3.65	6	5	ND	1	33	.2	2	7	77	.41	.062	7	34	.46	228	.08	2	2.33	.02	.05	1
6+50E 3+50N	2	107	14	88	.5	21	13	304	3.70	2	5	ND	1	22	.2	2	5	71	.24	.120	4	27	.34	159	.11	2	2.39	.02	.05	1
6+50E 3+00N	1	53	9	52	.1	19	11	230	3.58	3	5	ND	1	34	.3	2	2	85	.44	.079	4	35	.55	127	.10	3	1.82	.01	.05	1
6+50E 2+50N	2	78	11	67	.1	24	13	211	3.80	4	5	ND	1	29	.2	2	3	84	.33	.090	4	33	.49	164	.10	2	2.39	.02	.04	1
6+50E 2+00N	4	216	12	115	.2	36	13	342	3.44	2	5	ND	1	45	1.4	2	4	71	1.07	.041	5	62	.87	235	.14	2	2.57	.02	.06	1
6+50E 1+50N	5	117	16	164	.5	15	10	129	3.40	2	5	ND	1	18	.6	2	2	67	.25	.087	4	25	.29	139	.10	5	2.15	.02	.04	2
6+50E 1+00N	5	449	16	62	.3	29	10	243	3.28	3	6	ND	1	58	.9	2	5	62	1.09	.044	11	29	.51	305	.10	2	2.51	.03	.05	1
STANDARD C	18	57	43	132	7.1	72	32	1028	4.00	38	23	6	36	52	18.4	15	18	55	.52	.093	36	59	.92	179	.07	33	1.94	.06	.14	13

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: Pulp

DATE RECEIVED: JUL 12 1990 DATE REPORT MAILED: *July 17/90* SIGNED BY: *C. Leung* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	M ppm
6+50E 0+00N	3	52	19	51	.2	12	9	181	3.11	7	5	ND	1	23	.2	2	2	68	.36	.048	3	28	.46	136	.07	2	1.62	.01	.05	2
6+50E 0+50S	2	38	2	44	.1	10	9	176	3.13	6	5	ND	1	22	.2	2	3	69	.33	.056	3	27	.41	132	.08	2	1.43	.01	.04	1
6+50E 1+00S	4	82	13	56	.4	13	12	187	3.56	7	5	ND	1	20	.2	3	2	72	.30	.081	4	24	.46	172	.05	4	1.81	.01	.04	4
6+50E 1+50S	11	169	10	69	.5	22	10	200	3.34	9	5	ND	1	37	.2	2	2	56	.88	.033	4	26	.52	241	.09	2	2.37	.02	.04	5
6+50E 2+00S	4	104	4	63	.5	11	6	115	2.25	2	5	ND	1	33	.2	2	2	38	.85	.027	4	20	.39	198	.08	2	2.13	.02	.03	3
6+50E 2+50S	5	56	6	93	.2	10	11	283	3.49	6	5	ND	1	17	.2	2	2	63	.32	.097	3	22	.34	140	.07	2	1.79	.01	.03	3
STANDARD C	18	58	42	132	7.3	69	31	1032	4.14	41	20	6	37	51	18.4	15	19	55	.54	.096	36	59	.93	182	.07	37	1.93	.06	.14	12

**KAMLOOPS
RESEARCH & ASSAY
LABORATORY LTD.**

B.C. CERTIFIED ASSAYERS

912 - 1 LAVAL CRESCENT, KAMLOOPS, B.C. V2C 5P5 PHONE (604) 372-2784 FAX 372-1112

**** GEOCHEMICAL ANALYSIS ****



To: Afton Operating Corp.
Box 937
Kamloops, B.C.
V2C 5N4

Number: G 2271

Date: July 17, 1990

Proj.: *run July 23/90*

Attn: Lorne Bond

No.	Description	Au ppb
1	0+00N 7+25E	<5
2	7+50E	<5
3	8+00E	<5
4	8+25E	<5
5	9+00E	<5
6	9+50E	<5
7	10+00E	40
8	2+00N 6+75E	<5
9	7+25E	<5
10	8+25E	<5
11	8+50E	<5
12	9+00E	<5
13	9+50E	<5
14	10+00E	<5
15	4+00N 7+00E	<5
16	7+50E	<5
17	8+00E	<5
18	8+50E	<5
19	9+00E	<5
20	9+50E	<5
21	10+00E	<5

GEOCHEMICAL ANALYSIS CERTIFICATE

Kamloops Research & Assay Lab. PROJECT G2271 File # 90-2589

912 - 1 Laval Crescent, Kamloops BC V2C 5P5

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
4+00N 7+00E	1	65	7	67	.3	17	11	416	3.23	2	5	ND	2	51	.2	2	2	81	.63	.055	7	35	.63	185	.13	7	1.81	.02	.08	1
4+00N 7+50E	1	58	9	57	.2	19	11	453	3.06	5	5	ND	1	42	.2	2	2	71	.63	.037	8	32	.51	276	.11	3	1.94	.02	.07	1
4+00N 8+00E	1	145	8	74	.2	30	12	304	3.38	2	5	ND	2	54	.3	2	2	68	.96	.031	8	36	.63	305	.12	6	2.76	.03	.08	1
4+00N 8+50E	2	79	8	54	.1	22	15	417	3.39	6	5	ND	1	47	.2	2	2	83	.56	.062	10	37	.65	222	.13	2	1.75	.01	.09	1
4+00N 9+00E	1	63	7	45	.1	18	10	229	3.23	6	5	ND	1	39	.2	2	2	80	.48	.049	7	33	.59	157	.13	3	1.72	.02	.07	1
4+00N 9+50E	3	230	7	58	.9	42	11	358	3.17	9	5	ND	1	63	.3	2	2	67	1.18	.053	9	37	.66	284	.11	5	2.77	.02	.07	1
4+00N 10+00E	3	93	7	43	.1	21	10	165	3.46	9	5	ND	1	37	.2	2	2	78	.39	.094	6	37	.58	101	.12	2	1.75	.01	.08	1
2+00N 6+75E	24	662	10	88	.7	44	9	2784	2.59	6	5	ND	2	79	4.9	2	2	41	1.86	.102	12	29	.33	415	.09	8	2.80	.03	.07	1
2+00N 7+25E	5	281	9	33	1.1	14	3	111	1.07	2	5	ND	2	103	.7	2	3	20	3.18	.061	8	12	.19	251	.05	5	1.22	.02	.05	2
2+00N 8+25E	3	452	10	69	.5	47	10	465	3.56	8	5	ND	1	68	.5	2	2	50	1.44	.077	20	36	.56	435	.11	3	3.56	.04	.09	1
2+00N 8+50E	4	128	9	72	.1	27	14	458	4.42	14	5	ND	2	64	.2	2	2	84	.98	.039	9	44	.80	365	.13	6	2.68	.03	.10	1
2+00N 9+00E	1	97	7	66	.1	23	10	445	3.14	7	5	ND	1	53	.2	2	2	72	.63	.038	10	36	.75	282	.12	2	2.20	.02	.08	1
2+00N 9+50E	1	59	7	42	.1	21	11	224	3.34	7	5	ND	1	41	.2	2	4	81	.48	.039	7	35	.59	182	.16	6	1.81	.02	.08	1
2+00N 10+00E	1	62	5	40	.1	17	12	296	3.54	11	5	ND	1	38	.2	2	2	84	.41	.061	6	33	.63	159	.11	7	1.69	.02	.06	1
0+00N 7+25E	6	144	7	60	.1	28	17	611	4.78	17	5	ND	1	60	.3	2	2	103	1.09	.039	7	51	1.05	245	.15	7	2.19	.02	.08	1
0+00N 7+50E	10	197	10	65	.1	35	11	332	3.98	11	5	ND	1	52	.2	2	2	90	.69	.033	11	51	.91	313	.14	3	2.55	.02	.06	6
0+00N 8+00E	2	107	8	51	.1	22	14	208	4.11	7	5	ND	2	35	.2	2	2	91	.45	.102	5	36	.57	175	.08	3	1.91	.02	.06	3
0+00N 8+25E	1	99	8	54	.3	22	11	191	3.61	12	5	ND	2	33	.2	2	2	80	.42	.084	6	33	.45	186	.11	4	2.29	.02	.06	1
0+00N 9+00E	1	131	7	52	.1	28	9	347	3.18	6	5	ND	2	53	.2	2	2	64	.71	.029	10	37	.69	377	.11	2	2.81	.03	.08	1
0+00N 9+50E	1	71	3	41	.1	19	10	279	2.82	8	5	ND	1	40	.2	2	2	69	.49	.029	6	30	.57	244	.10	7	1.81	.02	.07	1
0+00N 10+00E	1	38	7	34	.1	14	8	185	2.83	2	5	ND	1	32	.2	2	2	69	.35	.049	5	27	.41	168	.11	2	1.45	.01	.07	1
STANDARD C	18	58	35	132	7.2	71	31	1009	3.94	42	21	6	39	52	18.5	14	20	57	.50	.092	39	60	.92	181	.09	33	1.94	.06	.14	14

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Pulp

DATE RECEIVED: JUL 17 1990 DATE REPORT MAILED: *July 19/90* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

**KAMLOOPS
RESEARCH & ASSAY
LABORATORY LTD.**

B.C. CERTIFIED ASSAYERS

912 - 1 LAVAL CRESCENT, KAMLOOPS, B.C. V2C 5P5 PHONE (604) 372-2784 FAX 372-1112

** GEOCHEMICAL ANALYSIS **



To: Afton Operating Corp.
Box 937,
Kamloops, B.C.
V2C 5N4

Number: G 2270 L

Date: July 13, 1990

Proj.: *1st July 20/90*

Attn:

No.	Description	Au ppb
1	4+00N 0+00E	20
2	0+50E	5
3	1+00E	<5
4	1+50E	<5
5	2+00E	<5
6	2+50E	<5
7	3+00E	<5
8	3+50E	<5
9	3+75E	<5
10	4+50E	<5
11	5+00E	<5
12	5+50E	<5
13	6+00E	<5
14	6+00N 0+00E	<5
15	0+50E	<5
16	1+00E	<5
17	1+50E	<5
18	2+00E	<5
19	2+50E	<5
20	3+00E	<5
21	3+50E	<5
22	4+00E	<5
23	4+50E	<5
24	5+00E	<5
25	5+50E	<5
26	6+00E	<5
27	7+00E	<5
28	7+50E	<5
29	8+00E	<5
30	8+50E	<5
31	9+00E	<5
32	9+50E	<5
33	10+00E	<5

Dominic Lake Grnd.

GEOCHEMICAL ANALYSIS CERTIFICATE

Kamloops Research & Assay Lab. PROJECT G2270

File # 90-2538

912 - 1 Laval Crescent, Kamloops BC V2C 5P5

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
4+00N 0+00E	1	54	10	66	.4	19	13	613	4.12	2	5	ND	1	40	.2	2	2	89	.58	.106	5	31	.64	185	.12	6	2.24	.01	.07	1
4+00N 0+50E	4	140	9	62	.3	21	14	288	4.15	4	5	ND	1	46	.3	2	2	87	.65	.045	7	31	.65	254	.12	5	2.76	.02	.07	1
4+00N 1+00E	2	43	8	72	.3	18	12	734	4.03	2	5	ND	1	37	.2	2	2	86	.60	.084	4	31	.53	199	.11	5	2.25	.01	.06	1
4+00N 1+50E	2	63	8	69	.2	17	12	357	4.42	5	5	ND	1	35	.2	2	2	93	.47	.100	4	31	.61	145	.12	5	2.50	.01	.07	2
4+00N 2+00E	35	176	10	126	.7	16	13	248	6.39	2	5	ND	2	21	.2	2	2	86	.26	.158	3	24	.44	90	.12	5	3.25	.01	.05	73
4+00N 2+50E	11	87	5	87	.3	23	14	275	4.63	6	5	ND	1	43	.3	3	2	98	.67	.026	5	40	.79	133	.17	6	2.26	.02	.08	3
4+00N 3+00E	9	83	9	65	.3	22	14	488	4.29	2	5	ND	1	32	.2	2	2	85	.41	.057	4	32	.58	133	.14	5	2.86	.01	.06	4
4+00N 3+50E	49	403	25	94	2.4	27	27	696	7.62	35	6	ND	2	30	.4	46	4	105	.37	.111	6	35	1.04	246	.13	4	3.13	.01	.08	14
4+00N 3+75E	4	62	9	79	.3	22	15	769	4.16	9	5	ND	1	38	.2	3	2	85	.56	.083	5	36	.66	183	.13	4	2.23	.01	.08	1
4+00N 4+50E	3	75	6	56	.2	17	12	253	4.31	5	5	ND	1	48	.2	3	2	96	.68	.059	5	35	.69	141	.16	5	1.74	.02	.06	1
4+00N 5+00E	3	98	7	61	.2	25	12	285	4.05	5	5	ND	1	51	.2	2	3	89	.73	.039	6	44	.80	205	.14	5	2.26	.02	.08	1
4+00N 5+50E	6	355	9	76	.3	39	13	641	4.97	5	7	ND	2	74	.2	2	2	75	1.34	.053	20	43	.86	499	.10	4	4.37	.03	.08	1
4+00N 6+00E	1	63	6	57	.1	22	10	318	3.79	3	5	ND	1	37	.2	2	2	82	.50	.076	5	37	.60	168	.13	4	2.32	.01	.07	1
6+00N 0+00E	21	135	5	42	.5	13	27	297	7.19	6	5	ND	1	21	.2	5	3	75	.38	.050	4	14	.23	321	.02	4	1.72	.01	.07	1
6+00N 0+50E	7	176	10	84	.6	22	17	308	6.02	6	5	ND	3	30	.2	2	2	106	.38	.121	5	33	.80	170	.13	5	3.65	.01	.08	4
6+00N 1+00E	54	292	8	74	1.9	17	28	555	8.21	5	5	ND	2	22	.4	2	2	107	.27	.145	3	25	.61	94	.14	4	2.79	.01	.06	57
6+00N 1+50E	6	160	8	78	.7	19	18	704	5.19	9	5	ND	1	28	.2	6	2	89	.48	.066	5	27	.56	183	.08	4	2.93	.01	.06	2
6+00N 2+00E	1	68	8	74	.2	20	14	435	4.00	3	5	ND	1	33	.2	2	2	80	.49	.078	5	30	.59	162	.13	5	2.58	.02	.05	1
6+00N 2+50E	4	110	15	65	.4	18	13	556	3.93	2	5	ND	2	27	.2	2	2	68	.42	.062	4	27	.56	166	.09	2	2.29	.01	.07	3
6+00N 3+00E	46	305	11	133	1.1	23	20	577	7.11	4	5	ND	2	27	.5	3	5	93	.42	.156	4	29	.58	161	.13	5	3.89	.01	.08	24
6+00N 3+50E	2	65	5	62	.3	22	15	519	4.43	3	5	ND	2	41	.2	2	2	93	.57	.067	5	37	.75	148	.14	6	2.36	.02	.06	1
6+00N 4+00E	5	88	10	86	.3	27	17	812	4.86	9	5	ND	2	35	.2	3	2	92	.44	.077	6	39	.74	191	.15	7	3.41	.02	.07	1
6+00N 4+50E	1	74	5	52	.1	21	12	253	4.25	12	5	ND	1	39	.2	2	2	92	.54	.086	6	38	.73	179	.12	5	2.13	.02	.07	1
6+00N 5+00E	1	62	5	44	.1	21	10	287	3.66	12	5	ND	2	37	.2	2	2	81	.51	.066	4	37	.71	124	.13	4	1.99	.01	.07	1
6+00N 5+50E	1	47	2	48	.1	18	11	304	4.08	8	5	ND	1	36	.2	2	2	89	.46	.065	4	36	.62	127	.12	4	2.09	.01	.05	1
6+00N 6+00E	4	120	6	49	.2	17	9	132	3.78	4	5	ND	1	23	.2	2	2	78	.34	.054	4	25	.42	113	.10	4	2.28	.02	.04	1
6+00N 7+00E	1	88	2	54	.1	20	11	325	3.91	10	5	ND	1	38	.2	2	2	79	.58	.068	6	35	.75	178	.13	5	1.86	.02	.07	1
6+00N 7+50E	1	75	4	55	.1	19	12	394	3.80	7	5	ND	2	37	.2	2	2	81	.50	.061	7	34	.78	217	.13	4	2.26	.02	.07	1
6+00N 8+00E	2	120	4	66	.1	23	13	492	4.40	9	5	ND	3	52	.2	2	2	93	.90	.064	9	41	1.16	206	.19	5	2.40	.02	.07	1
6+00N 8+50E	1	43	4	60	.2	17	11	280	4.14	4	6	ND	2	26	.2	2	2	84	.35	.082	5	31	.58	134	.11	5	2.41	.02	.07	1
6+00N 9+00E	2	68	4	57	.1	24	15	286	4.81	13	5	ND	1	36	.2	2	2	94	.43	.068	5	41	.84	145	.13	5	2.71	.02	.06	1
6+00N 9+50E	1	66	2	50	.1	19	10	206	3.25	2	5	ND	2	47	.2	2	2	71	.77	.040	7	33	.79	176	.12	6	2.41	.02	.06	1
6+00N 10+00E	2	112	6	64	.1	25	15	549	4.30	2	5	ND	3	28	.2	2	2	82	.38	.109	5	39	.70	107	.12	5	2.73	.01	.06	1
STANDARD C	17	58	38	132	7.1	71	31	1051	4.12	39	16	6	37	53	18.8	14	19	56	.59	.094	37	57	.95	180	.09	36	2.01	.06	.14	13

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: Pulp

DATE RECEIVED: JUL 16 1990 DATE REPORT MAILED: *July 18/90* SIGNED BY: *C. Leung* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

**KAMLOOPS
RESEARCH & ASSAY
LABORATORY LTD.**

B.C. CERTIFIED ASSAYERS

912 - 1 LAVAL CRESCENT, KAMLOOPS, B.C. V2C 5P5 PHONE (604) 372-2784 FAX 372-1112

**** GEOCHEMICAL ANALYSIS ****



To: Afton Operating Corp.
Box 937,
Kamloops, B.C.
V2C 5N4

Number: G 2275

Date: July 23, 1990

Proj.:

Attn: Lorne Bond

No.	Description	Au ppb
1	0+00E 0+00S	<5
2	0+50S	<5
3	1+00S	<5
4	1+50S	<5
5	2+00S	<5
6	2+50S	<5
7	3+00S	<5
8	3+50S	5
9	3+75S	<5
10	4+50S	<5
11	5+00S	<5
12	5+50S	<5
13	6+50S	<5
14	7+00S	<5
15	7+50S	<5
16	8+00S	<5
17	8+50S	<5
18	9+00S	<5
19	9+50S	<5
20	10+00S	<5
21	10+50S	<5
22	11+00S	<5
23	11+50S	<5
24	12+00S	<5
25	12+50S	<5
26	13+00S	<5
27	13+50S	<5
28	14+00S	<5
29	6+00S 0+00E	<5
30	0+50E	<5
31	1+00E	<5
32	1+50E	<5

Happy Days 4 Grid

**KAMLOOPS
RESEARCH & ASSAY
LABORATORY LTD.**

B.C. CERTIFIED ASSAYERS

912 - 1 LAVAL CRESCENT, KAMLOOPS, B.C. V2C 5P5 PHONE (604) 372-2784 FAX 372-1112

**** GEOCHEMICAL ANALYSIS ****



To: Afton Operating Corp.
Box 937,
Kamloops, B.C.
V2C 5N4

Number: G 2275

Date: July 23, 1990

Proj.:

Attn: Lorne Bond

No.	Description	Au ppb
33	6+00S 1+75E	<5
34	2+25E	<5
35	3+00E	<5
36	3+50E	<5
37	4+00E	<5
38	6+00S 0+50W	<5
39	1+00W	<5

Happy Days 4 Grid.

GEOCHEMICAL ANALYSIS CERTIFICATE

Kamloops Research & Assay Lab. PROJECT G2275 File # 90-2812 Page 1

912 - 1 Laval Crescent, Kamloops BC V2C 5P5

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
6S 1+00W	1	63	10	61	.1	26	19	474	3.98	2	5	ND	1	36	.2	2	3	85	.36	.070	4	47	.73	113	.12	3	2.28	.02	.06	3
6S 0+50W	1	15	9	55	.1	10	9	485	2.70	2	5	ND	1	16	.5	2	2	64	.13	.032	3	17	.21	56	.12	4	1.26	.02	.03	5
6S 0+00E	2	97	7	81	.2	16	16	1008	3.54	7	5	ND	1	47	.2	2	14	62	.15	.142	4	21	.31	74	.11	3	2.29	.02	.03	8
6S 0+50E	1	59	8	81	.1	19	11	521	3.40	4	5	ND	1	22	.2	2	7	68	.23	.166	3	32	.40	55	.11	4	2.20	.02	.05	6
6S 1+00E	1	77	14	117	.1	23	13	269	3.36	5	5	ND	1	21	.2	2	4	69	.20	.164	5	34	.39	97	.13	4	2.81	.02	.04	1
6S 1+50E	2	374	7	78	.4	49	18	535	3.73	6	5	ND	1	61	.5	2	2	73	1.22	.038	9	53	.77	168	.10	4	2.70	.02	.06	1
6S 1+75E	1	66	12	49	.3	28	14	191	2.98	4	5	ND	1	35	.6	2	3	68	.37	.041	5	40	.57	91	.12	2	1.98	.02	.06	1
6S 2+25E	1	40	8	57	.2	23	15	196	3.11	2	5	ND	1	36	.2	2	2	68	.32	.085	4	39	.54	129	.11	3	2.01	.02	.05	1
6S 3+00E	1	51	10	97	.1	26	16	728	3.10	5	5	ND	1	25	.2	2	2	62	.28	.173	4	35	.49	112	.11	4	2.23	.02	.05	1
6S 3+50E	2	54	10	53	.1	23	15	694	3.11	2	5	ND	1	27	.2	2	2	66	.27	.126	4	36	.54	118	.11	2	2.13	.02	.05	1
6S 4+00E	1	46	5	64	.1	24	15	744	3.15	2	5	ND	1	38	.2	2	2	69	.38	.083	3	36	.61	122	.11	6	2.17	.02	.07	1
0E 0+00S	1	68	18	70	.3	32	20	731	4.30	3	5	ND	1	53	.2	2	12	80	.50	.070	5	44	.80	174	.11	3	2.58	.01	.11	2
0E 0+50S	1	67	15	59	.1	25	17	715	3.30	2	5	ND	1	43	.2	2	2	64	.49	.093	4	38	.68	138	.10	4	2.27	.02	.08	1
0E 1+00S	1	59	9	63	.2	31	18	700	3.45	6	5	ND	1	44	.2	2	4	70	.41	.130	5	43	.70	141	.10	2	2.24	.02	.10	1
0E 1+50S	1	46	5	58	.1	33	16	693	3.31	8	5	ND	1	42	.2	2	2	68	.44	.119	5	46	.67	154	.10	4	2.09	.02	.10	1
0E 2+00S	1	53	14	56	.1	38	15	430	3.21	2	5	ND	1	39	.2	2	2	64	.40	.082	5	49	.68	162	.09	4	2.16	.02	.08	1
0E 2+50S	1	126	3	54	.1	41	15	723	3.02	2	5	ND	1	46	.2	2	2	58	.54	.056	11	47	.75	170	.09	4	2.27	.02	.13	1
0E 3+00S	1	45	10	47	.1	26	15	313	3.17	2	5	ND	1	42	.2	2	2	71	.36	.046	4	41	.69	113	.13	6	1.98	.02	.08	1
0E 3+50S	1	67	11	46	.1	26	12	212	2.81	2	5	ND	1	47	.2	2	2	63	.47	.037	6	35	.65	149	.12	6	2.01	.02	.08	1
0E 3+75S	3	219	17	53	.1	44	16	234	4.72	4	5	ND	1	63	.2	4	2	82	1.24	.027	18	54	.87	226	.11	3	3.79	.02	.11	1
0E 4+50S	1	219	11	58	.1	39	15	389	3.75	8	5	ND	1	56	.2	4	2	77	.87	.030	11	47	.69	173	.11	4	3.10	.02	.06	1
0E 5+00S	5	91	9	57	.1	18	13	785	3.05	2	5	ND	1	44	.2	2	9	58	.20	.152	4	24	.32	125	.10	4	2.66	.02	.04	6
0E 5+50S	1	40	7	51	.1	26	14	259	3.14	2	5	ND	1	37	.2	2	2	69	.40	.074	4	38	.54	125	.12	8	2.06	.02	.10	1
0E 6+50S	1	38	16	43	.1	23	13	342	3.54	2	5	ND	1	36	.2	2	3	79	.33	.037	3	35	.64	110	.12	3	2.33	.02	.06	1
0E 7+00S	1	110	13	73	.1	30	19	384	3.91	10	5	ND	1	34	.2	2	2	76	.26	.149	7	42	.66	124	.13	3	3.42	.02	.05	1
0E 7+50S	1	73	9	69	.1	27	17	624	3.68	2	5	ND	1	35	.2	2	2	71	.29	.056	6	37	.60	150	.11	6	2.63	.02	.06	1
0E 8+00S	1	111	6	98	.4	22	17	377	4.16	4	5	ND	1	31	.2	2	3	77	.24	.160	3	38	.62	85	.11	7	2.82	.02	.10	1
0E 8+50S	2	154	9	100	.4	29	19	849	3.81	3	5	ND	1	33	.2	2	2	76	.36	.103	5	36	.61	111	.11	8	2.63	.02	.07	1
0E 9+00S	1	42	9	81	.1	13	10	430	3.12	21	5	ND	1	32	.2	2	2	66	.35	.098	3	21	.35	58	.11	2	1.60	.02	.04	4
0E 9+50S	1	68	15	88	.1	31	17	921	4.22	5	5	ND	1	28	.2	2	2	86	.25	.096	5	39	.61	150	.14	8	3.46	.02	.05	1
0E 10+00S	1	47	7	54	.1	26	18	872	3.75	4	5	ND	1	39	.2	2	2	82	.41	.069	5	43	.69	164	.13	7	2.32	.02	.08	1
0E 10+50S	1	28	8	55	.1	21	12	489	3.19	2	5	ND	1	31	.2	2	2	68	.30	.085	4	35	.51	109	.12	6	1.94	.02	.08	1
0E 11+00S	1	43	9	47	.1	28	15	317	3.24	2	5	ND	1	31	.2	2	2	67	.29	.111	4	36	.60	123	.11	4	2.24	.02	.06	4
0E 11+50S	1	30	12	35	.1	21	12	317	3.11	2	5	ND	1	36	.2	2	2	72	.37	.054	4	34	.55	99	.13	5	1.65	.02	.08	2
0E 12+00S	1	60	3	39	.1	22	16	393	3.59	2	5	ND	1	47	.2	2	2	83	.48	.051	4	40	.73	88	.13	2	1.64	.02	.08	5
0E 12+50S	1	22	6	40	.1	14	12	499	2.92	2	5	ND	1	32	.2	2	2	67	.32	.050	3	31	.50	66	.11	5	1.72	.02	.06	7
STANDARD C	18	57	42	129	7.1	71	31	1031	3.96	42	19	6	38	53	18.1	15	18	55	.48	.095	38	58	.88	180	.07	35	1.93	.06	.14	13

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.

- SAMPLE TYPE: Pulp

DATE RECEIVED: JUL 23 1990 DATE REPORT MAILED: *July 26/90* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
OE 13+00S	1	42	7	50	.1	23	17	350	3.45	8	5	ND	1	26	.2	5	5	69	.28	.087	3	31	.56	88	.12	2	2.07	.01	.06	7
OE 13+50S	1	35	7	49	.2	21	15	679	2.83	2	5	ND	1	27	.2	2	3	53	.34	.145	3	24	.39	131	.11	2	2.10	.02	.06	3
OE 14+00S	1	42	7	46	.2	25	15	454	3.12	6	5	ND	1	30	.2	6	2	63	.36	.118	4	32	.51	136	.12	2	2.11	.02	.07	4
STANDARD C	18	61	41	132	7.3	73	31	1046	4.08	42	24	7	39	53	18.7	16	22	57	.52	.097	38	60	.95	180	.08	34	1.98	.06	.14	11

Appendix II - Unfiltered VLF-EM Data

DOMINIC LAKE VLF 1

LINE : ON (South and east dips are negative)

SEATTLE

STATION	DISTANCE	(SW) DIP	SUM	FILTER
.00 E	0	5		
	12.5		10	
.25 E	25	5		
	37.5		8	-4
.50 E	50	3		
	62.5		6	-3
.75 E	75	3		
	87.5		5	-4
1.00 E	100	2		
	112.5		2	-6
1.25 E	125	0		
	137.5		-1	-5
1.50 E	150	-1		
	162.5		-3	-4
1.75 E	175	-2		
	187.5		-5	-3
2.00 E	200	-3		
	212.5		-6	0
2.25 E	225	-3		
	237.5		-5	2
2.50 E	250	-2		
	262.5		-4	2
2.75 E	275	-2		
	287.5		-3	1
3.00 E	300	-1		
	312.5		-3	-1
3.25 E	325	-2		
	337.5		-4	0
3.50 E	350	-2		
	362.5		-3	3
3.75 E	375	-1		
	387.5		-1	2
4.00 E	400	0		
	412.5		-1	-1
4.25 E	425	-1		
	437.5		-2	-3
4.50 E	450	-1		
	462.5		-4	-3
4.75 E	475	-3		
	487.5		-5	-1
5.00 E	500	-2		
	512.5		-5	-3
5.25 E	525	-3		
	537.5		-8	-5
5.50 E	550	-5		
	562.5		-10	5
5.75 E	575	-5		
	587.5		-3	12
6.00 E	600	2		
	612.5		2	4

6.25 E	625	0		
	637.5		1	-3
6.50 E	650	1		
	662.5		-1	-5
6.75 E	675	-2		
	687.5		-4	0
7.00 E	700	-2		
	712.5		-1	2
7.25 E	725	1		
	737.5		-2	-5
7.50 E	750	-3		
	762.5		-6	-1
7.75 E	775	-3		
	787.5		-3	9
8.00 E	800	0		
	812.5		3	10
8.25 E	825	3		
	837.5		7	6
8.50 E	850	4		
	862.5		9	3
8.75 E	875	5		
	887.5		10	1
9.00 E	900	5		
	912.5		10	0
9.25 E	925	5		
	937.5		10	-1
9.50 E	950	5		
	962.5		9	1
9.75 E	975	4		
	987.5		11	
10.00 E	1000	7		

DOMINIC LAKE VLF 1

LINE : 2N

(South and east dips are negative)

SEATTLE

STATION

DISTANCE

(SW) DIP

SUM

FILTER

.00 E	0	10		
	12.5		18	
.25 E	25	8		
	37.5		13	-9
.50 E	50	5		
	62.5		9	-7
.75 E	75	4		
	87.5		6	-5
1.00 E	100	2		
	112.5		4	-2
1.25 E	125	2		
	137.5		4	1
1.50 E	150	2		
	162.5		5	3
1.75 E	175	3		
	187.5		7	0
2.00 E	200	4		
	212.5		5	-3
2.25 E	225	1		

	237.5		4	2
2.50 E	250	3		
	262.5		7	5
2.75 E	275	4		
	287.5		9	3
3.00 E	300	5		
	312.5		10	-1
3.25 E	325	5		
	337.5		8	-4
3.50 E	350	3		
	362.5		6	-10
3.75 E	375	3		
	387.5		-2	-20
4.00 E	400	-5		
	412.5		-14	-15
4.25 E	425	-9		
	437.5		-17	0
4.50 E	450	-8		
	462.5		-14	7
4.75 E	475	-6		
	487.5		-10	6
5.00 E	500	-4		
	512.5		-8	4
5.25 E	525	-4		
	537.5		-6	4
5.50 E	550	-2		
	562.5		-4	2
5.75 E	575	-2		
	587.5		-4	0
6.00 E	600	-2		
	612.5		-4	3
6.25 E	625	-2		
	637.5		-1	3
6.50 E	650	1		
	662.5		-1	-4
6.75 E	675	-2		
	687.5		-5	1
7.00 E	700	-3		
	712.5		0	13
7.25 E	725	3		
	737.5		8	10
7.50 E	750	5		
	762.5		10	1
7.75 E	775	5		
	787.5		9	-1
8.00 E	800	4		
	812.5		9	1
8.25 E	825	5		
	837.5		10	1
8.50 E	850	5		
	862.5		10	-2
8.75 E	875	5		
	887.5		8	0
9.00 E	900	3		
	912.5		10	7
9.25 E	925	7		
	937.5		15	2
9.50 E	950	8		
	962.5		12	-11
9.75 E	975	4		

DOMINIC LAKE VLF 1

LINE : 4N

(South and east dips are negative)

SEATTLE

STATION

	DISTANCE	(SW) DIP	SUM	FILTER
.00 E	0	1		
	12.5		0	
.25 E	25	-1		
	37.5		-5	-5
.50 E	50	-4		
	62.5		-5	5
.75 E	75	-1		
	87.5		0	7
1.00 E	100	1		
	112.5		2	0
1.25 E	125	1		
	137.5		0	-2
1.50 E	150	-1		
	162.5		0	-2
1.75 E	175	1		
	187.5		-2	-3
2.00 E	200	-3		
	212.5		-3	1
2.25 E	225	0		
	237.5		-1	1
2.50 E	250	-1		
	262.5		-2	-1
2.75 E	275	-1		
	287.5		-2	2
3.00 E	300	-1		
	312.5		0	8
3.25 E	325	1		
	337.5		6	5
3.50 E	350	5		
	362.5		5	-6
3.75 E	375	0		
	387.5		0	-2
4.00 E	400	0		
	412.5		3	9
4.25 E	425	3		
	437.5		9	8
4.50 E	450	6		
	462.5		11	0
4.75 E	475	5		
	487.5		9	-8
5.00 E	500	4		
	512.5		3	-14
5.25 E	525	-1		
	537.5		-5	-12
5.50 E	550	-4		
	562.5		-9	-6
5.75 E	575	-5		
	587.5		-11	-2

6.00 E	600	-6		
	612.5		-11	1
6.25 E	625	-5		
	637.5		-10	2
6.50 E	650	-5		
	662.5		-9	3
6.75 E	675	-4		
	687.5		-7	5
7.00 E	700	-3		
	712.5		-4	7
7.25 E	725	-1		
	737.5		0	8
7.50 E	750	1		
	762.5		4	7
7.75 E	775	3		
	787.5		7	2
8.00 E	800	4		
	812.5		6	0
8.25 E	825	2		
	837.5		7	6
8.50 E	850	5		
	862.5		12	5
8.75 E	875	7		
	887.5		12	-4
9.00 E	900	5		
	912.5		8	-8
9.25 E	925	3		
	937.5		4	-9
9.50 E	950	1		
	962.5		-1	-10
9.75 E	975	-2		
	987.5		-6	
10.00 E	1000	-4		

DOMINIC LAKE VLF 1

LINE : 6N

(South and east dips are negative)

SEATTLE

STATION

	DISTANCE	(SW) DIP	SUM	FILTER
.00 E	0	-2		
	12.5		-4	
.25 E	25	-2		
	37.5		-7	-3
.50 E	50	-5		
	62.5		-7	3
.75 E	75	-2		
	87.5		-4	4
1.00 E	100	-2		
	112.5		-3	1
1.25 E	125	-1		
	137.5		-3	4
1.50 E	150	-2		
	162.5		1	10
1.75 E	175	3		
	187.5		7	1
2.00 E	200	4		

2.25 E	225	-2		
	237.5		-2	1
2.50 E	250	0		
	262.5		3	4
2.75 E	275	3		
	287.5		2	-1
3.00 E	300	-1		
	312.5		2	3
3.25 E	325	3		
	337.5		5	5
3.50 E	350	2		
	362.5		7	9
3.75 E	375	5		
	387.5		14	17
4.00 E	400	9		
	412.5		24	11
4.25 E	425	15		
	437.5		25	-10
4.50 E	450	10		
	462.5		14	-16
4.75 E	475	4		
	487.5		9	-12
5.00 E	500	5		
	512.5		2	-17
5.25 E	525	-3		
	537.5		-8	-12
5.50 E	550	-5		
	562.5		-10	1
5.75 E	575	-5		
	587.5		-7	9
6.00 E	600	-2		
	612.5		-1	6
6.25 E	625	1		
	637.5		-1	-3
6.50 E	650	-2		
	662.5		-4	1
6.75 E	675	-2		
	687.5		0	6
7.00 E	700	2		
	712.5		2	-1
7.25 E	725	0		
	737.5		-1	2
7.50 E	750	-1		
	762.5		4	10
7.75 E	775	5		
	787.5		9	-2
8.00 E	800	4		
	812.5		2	-19
8.25 E	825	-2		
	837.5		-10	-15
8.50 E	850	-8		
	862.5		-13	-2
8.75 E	875	-5		
	887.5		-12	5
9.00 E	900	-7		
	912.5		-8	12
9.25 E	925	-1		

	937.5		0	12
9.50 E	950	1		
	962.5		4	12
9.75 E	975	3		
	987.5		12	
10.00 E	1000	9		

DOMINIC LAKE VLF 1

LINE : ON

(South and east dips are negative)

SEATTLE

STATION DISTANCE (SW) DIP SUM FILTER

.00 E	0	5		
	12.5		10	
.25 E	25	5		
	37.5		8	-4
.50 E	50	3		
	62.5		6	-3
.75 E	75	3		
	87.5		5	-4
1.00 E	100	2		
	112.5		2	-6
1.25 E	125	0		
	137.5		-1	-5
1.50 E	150	-1		
	162.5		-3	-4
1.75 E	175	-2		
	187.5		-5	-3
2.00 E	200	-3		
	212.5		-6	0
2.25 E	225	-3		
	237.5		-5	2
2.50 E	250	-2		
	262.5		-4	2
2.75 E	275	-2		
	287.5		-3	1
3.00 E	300	-1		
	312.5		-3	-1
3.25 E	325	-2		
	337.5		-4	0
3.50 E	350	-2		
	362.5		-3	3
3.75 E	375	-1		
	387.5		-1	2
4.00 E	400	0		
	412.5		-1	-1
4.25 E	425	-1		
	437.5		-2	-3
4.50 E	450	-1		
	462.5		-4	-3
4.75 E	475	-3		
	487.5		-5	-1
5.00 E	500	-2		
	512.5		-5	-3
5.25 E	525	-3		
	537.5		-8	-5
5.50 E	550	-5		
	562.5		-10	5
5.75 E	575	-5		
	587.5		-3	12
6.00 E	600	2		
	612.5		2	4

6.25 E	625	0		
	637.5		1	-3
6.50 E	650	1		
	662.5		-1	-5
6.75 E	675	-2		
	687.5		-4	0
7.00 E	700	-2		
	712.5		-1	2
7.25 E	725	1		
	737.5		-2	-5
7.50 E	750	-3		
	762.5		-6	-1
7.75 E	775	-3		
	787.5		-3	9
8.00 E	800	0		
	812.5		3	10
8.25 E	825	3		
	837.5		7	6
8.50 E	850	4		
	862.5		9	3
8.75 E	875	5		
	887.5		10	1
9.00 E	900	5		
	912.5		10	0
9.25 E	925	5		
	937.5		10	-1
9.50 E	950	5		
	962.5		9	1
9.75 E	975	4		
	987.5		11	
10.00 E	1000	7		

DOMINIC LAKE VLF 1

LINE : 2N

(South and east dips are negative)

SEATTLE

STATION	DISTANCE	(SW) DIP	SUM	FILTER
.00 E	0	10		
	12.5		18	
.25 E	25	8		
	37.5		13	-9
.50 E	50	5		
	62.5		9	-7
.75 E	75	4		
	87.5		6	-5
1.00 E	100	2		
	112.5		4	-2
1.25 E	125	2		
	137.5		4	1
1.50 E	150	2		
	162.5		5	3
1.75 E	175	3		
	187.5		7	0
2.00 E	200	4		
	212.5		5	-3
2.25 E	225	1		

	237.5		4	2
2.50 E	250	3		
	262.5		7	5
2.75 E	275	4		
	287.5		9	3
3.00 E	300	5		
	312.5		10	-1
3.25 E	325	5		
	337.5		8	-4
3.50 E	350	3		
	362.5		6	-10
3.75 E	375	3		
	387.5		-2	-20
4.00 E	400	-5		
	412.5		-14	-15
4.25 E	425	-9		
	437.5		-17	0
4.50 E	450	-8		
	462.5		-14	7
4.75 E	475	-6		
	487.5		-10	6
5.00 E	500	-4		
	512.5		-8	4
5.25 E	525	-4		
	537.5		-6	4
5.50 E	550	-2		
	562.5		-4	2
5.75 E	575	-2		
	587.5		-4	0
6.00 E	600	-2		
	612.5		-4	3
6.25 E	625	-2		
	637.5		-1	3
6.50 E	650	1		
	662.5		-1	-4
6.75 E	675	-2		
	687.5		-5	1
7.00 E	700	-3		
	712.5		0	13
7.25 E	725	3		
	737.5		8	10
7.50 E	750	5		
	762.5		10	1
7.75 E	775	5		
	787.5		9	-1
8.00 E	800	4		
	812.5		9	1
8.25 E	825	5		
	837.5		10	1
8.50 E	850	5		
	862.5		10	-2
8.75 E	875	5		
	887.5		8	0
9.00 E	900	3		
	912.5		10	7
9.25 E	925	7		
	937.5		15	2
9.50 E	950	8		
	962.5		12	-11
9.75 E	975	4		

DOMINIC LAKE VLF 1

LINE : 4N

(South and east dips are negative)

SEATTLE
STATION

	DISTANCE	(SW) DIP	SUM	FILTER
.00 E	0	1		
	12.5		0	
.25 E	25	-1		
	37.5		-5	-5
.50 E	50	-4		
	62.5		-5	5
.75 E	75	-1		
	87.5		0	7
1.00 E	100	1		
	112.5		2	0
1.25 E	125	1		
	137.5		0	-2
1.50 E	150	-1		
	162.5		0	-2
1.75 E	175	1		
	187.5		-2	-3
2.00 E	200	-3		
	212.5		-3	1
2.25 E	225	0		
	237.5		-1	1
2.50 E	250	-1		
	262.5		-2	-1
2.75 E	275	-1		
	287.5		-2	2
3.00 E	300	-1		
	312.5		0	8
3.25 E	325	1		
	337.5		6	5
3.50 E	350	5		
	362.5		5	-6
3.75 E	375	0		
	387.5		0	-2
4.00 E	400	0		
	412.5		3	9
4.25 E	425	3		
	437.5		9	8
4.50 E	450	6		
	462.5		11	0
4.75 E	475	5		
	487.5		9	-8
5.00 E	500	4		
	512.5		3	-14
5.25 E	525	-1		
	537.5		-5	-12
5.50 E	550	-4		
	562.5		-9	-6
5.75 E	575	-5		
	587.5		-11	-2

6.00 E	600	-6		
	612.5		-11	1
6.25 E	625	-5		
	637.5		-10	2
6.50 E	650	-5		
	662.5		-9	3
6.75 E	675	-4		
	687.5		-7	5
7.00 E	700	-3		
	712.5		-4	7
7.25 E	725	-1		
	737.5		0	8
7.50 E	750	1		
	762.5		4	7
7.75 E	775	3		
	787.5		7	2
8.00 E	800	4		
	812.5		6	0
8.25 E	825	2		
	837.5		7	6
8.50 E	850	5		
	862.5		12	5
8.75 E	875	7		
	887.5		12	-4
9.00 E	900	5		
	912.5		8	-8
9.25 E	925	3		
	937.5		4	-9
9.50 E	950	1		
	962.5		-1	-10
9.75 E	975	-2		
	987.5		-6	
10.00 E	1000	-4		

DOMINIC LAKE VLF 1

LINE : 6N (South and east dips are negative)

SEATTLE
STATION

	DISTANCE	(SW) DIP	SUM	FILTER
.00 E	0	-2		
	12.5		-4	
.25 E	25	-2		
	37.5		-7	-3
.50 E	50	-5		
	62.5		-7	3
.75 E	75	-2		
	87.5		-4	4
1.00 E	100	-2		
	112.5		-3	1
1.25 E	125	-1		
	137.5		-3	4
1.50 E	150	-2		
	162.5		1	10
1.75 E	175	3		
	187.5		7	1
2.00 E	200	4		

2.25 E	225	-2		
	237.5		-2	1
2.50 E	250	0		
	262.5		3	4
2.75 E	275	3		
	287.5		2	-1
3.00 E	300	-1		
	312.5		2	3
3.25 E	325	3		
	337.5		5	5
3.50 E	350	2		
	362.5		7	9
3.75 E	375	5		
	387.5		14	17
4.00 E	400	9		
	412.5		24	11
4.25 E	425	15		
	437.5		25	-10
4.50 E	450	10		
	462.5		14	-16
4.75 E	475	4		
	487.5		9	-12
5.00 E	500	5		
	512.5		2	-17
5.25 E	525	-3		
	537.5		-8	-12
5.50 E	550	-5		
	562.5		-10	1
5.75 E	575	-5		
	587.5		-7	9
6.00 E	600	-2		
	612.5		-1	6
6.25 E	625	1		
	637.5		-1	-3
6.50 E	650	-2		
	662.5		-4	1
6.75 E	675	-2		
	687.5		0	6
7.00 E	700	2		
	712.5		2	-1
7.25 E	725	0		
	737.5		-1	2
7.50 E	750	-1		
	762.5		4	10
7.75 E	775	5		
	787.5		9	-2
8.00 E	800	4		
	812.5		2	-19
8.25 E	825	-2		
	837.5		-10	-15
8.50 E	850	-8		
	862.5		-13	-2
8.75 E	875	-5		
	887.5		-12	5
9.00 E	900	-7		
	912.5		-8	12
9.25 E	925	-1		

9.50 E	937.5 950	1	0	12
9.75 E	962.5 975	3	4	12
10.00 E	987.5 1000	9	12	

Happy Day 4 Grid - VLF-EM July

FIRE LOOKOUT VLF 1

LINE : 6S

(South and east dips are negative)

SEATTLE

STATION

DISTANCE (SW) DIP SUM FILTER

1.00 W	0	-8		
	12.5		-13	
.75 W	25	-5		
	37.5		-10	3
.50 W	50	-5		
	62.5		-10	1
.25 W	75	-5		
	87.5		-9	4
.00 W	100	-4		
	112.5		-6	3
.25 E	125	-2		
	137.5		-6	1
.50 E	150	-4		
	162.5		-5	2
.75 E	175	-1		
	187.5		-4	6
1.00 E	200	-3		
	212.5		1	11
1.25 E	225	4		
	237.5		7	5
1.50 E	250	3		
	262.5		6	-6
1.75 E	275	3		
	287.5		1	-9
2.00 E	300	-2		
	312.5		-3	-4
2.25 E	325	-1		
	337.5		-3	-9
2.50 E	350	-2		
	362.5		-12	-16
2.75 E	375	-10		
	387.5		-19	-3
3.00 E	400	-9		
	412.5		-15	9
3.25 E	425	-6		
	437.5		-10	8
3.50 E	450	-4		
	462.5		-7	7
3.75 E	475	-3		
	487.5		-3	
4.00 E	500	0		

FIRE LOOKOUT VLF 1

LINE : 0E

(South and east dips are negative)

CUTLER

FIRE LOOKOUT VLF 1

LINE : OE

(South and east dips are negative)

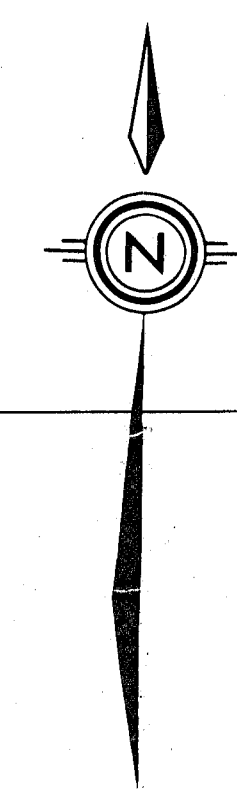
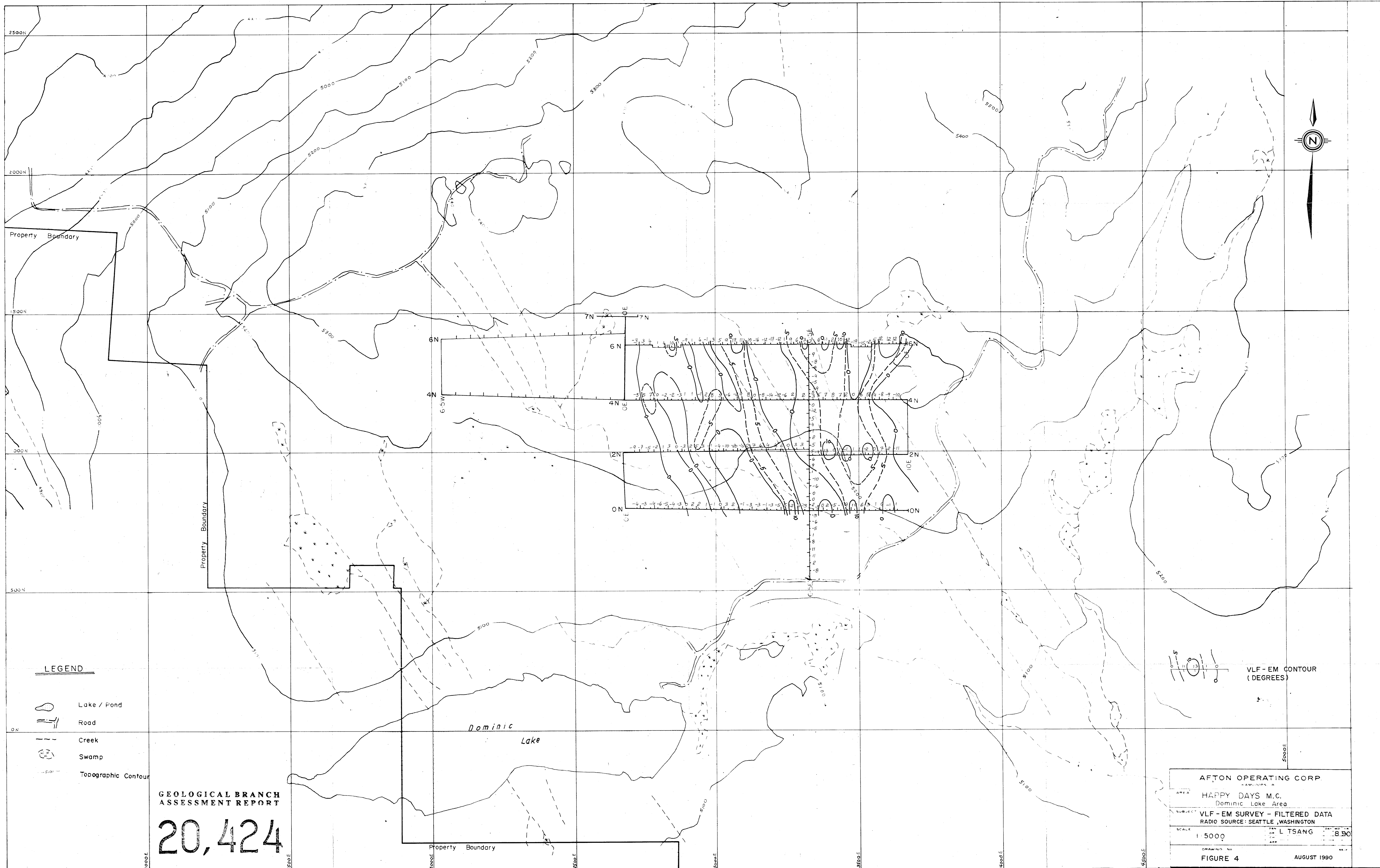
CUTLER
STATION

DISTANCE (CM) DIP SUM FILTER

.00 S	0	-1		
	12.5		2	
.25 S	25	3		
	37.5		4	-1
.50 S	50	1		
	62.5		1	-8
.75 S	75	0		
	87.5		-4	-9
1.00 S	100	-4		
	112.5		-8	3
1.25 S	125	-4		
	137.5		-1	14
1.50 S	150	3		
	162.5		6	6
1.75 S	175	3		
	187.5		5	-4
2.00 S	200	2		
	212.5		2	-8
2.25 S	225	0		
	237.5		-3	-12
2.50 S	250	-3		
	262.5		-10	-15
2.75 S	275	-7		
	287.5		-18	-10
3.00 S	300	-11		
	312.5		-20	5
3.25 S	325	-9		
	337.5		-13	10
3.50 S	350	-4		
	362.5		-10	-6
3.75 S	375	-6		
	387.5		-19	-15
4.00 S	400	-13		
	412.5		-25	1
4.25 S	425	-12		
	437.5		-18	15
4.50 S	450	-6		
	462.5		-10	10
4.75 S	475	-4		
	487.5		-8	8
5.00 S	500	-4		
	512.5		-2	8
5.25 S	525	2		
	537.5		0	-2
5.50 S	550	-2		
	562.5		-4	-1
5.75 S	575	-2		
	587.5		-1	6
6.00 S	600	1		
	612.5			

5.75 S	575	-2		
	587.5		-1	6
6.00 S	600	1		
	612.5		2	3
6.25 S	625	1		
	637.5		2	10
6.50 S	650	1		
	662.5		12	8
6.75 S	675	11		
	687.5		10	-16
7.00 S	700	-1		
	712.5		-4	-16
7.25 S	725	-3		
	737.5		-6	-3
7.50 S	750	-3		
	762.5		-7	0
7.75 S	775	-4		
	787.5		-5	-1
8.00 S	800	-2		
	812.5		-1	1
8.25 S	825	1		
	837.5		5	8
8.50 S	850	4		
	862.5		7	0
8.75 S	875	3		
	887.5		5	-3
9.00 S	900	2		
	912.5		4	-2
9.25 S	925	2		
	937.5		3	-1
9.50 S	950	1		
	962.5		3	1
9.75 S	975	2		
	987.5		4	2
10.00 S	1000	2		
	1012.5		5	-1
10.25 S	1025	3		
	1037.5		3	-3
10.50 S	1050	0		
	1062.5		2	-5
10.75 S	1075	2		
	1087.5		-2	-11
11.00 S	1100	-4		
	1112.5		-9	-10
11.25 S	1125	-5		
	1137.5		-12	-5
11.50 S	1150	-7		
	1162.5		-14	-2
11.75 S	1175	-7		
	1187.5		-14	0
12.00 S	1200	-7		
	1212.5		-14	3
12.25 S	1225	-7		

7.75 S	775	-4		
	787.5		-6	6
8.00 S	800	-2		
	812.5		-1	11
8.25 S	825	1		
	837.5		5	8
8.50 S	850	4		
	862.5		7	0
8.75 S	875	3		
	887.5		5	-3
9.00 S	900	2		
	912.5		4	-2
9.25 S	925	2		
	937.5		3	-1
9.50 S	950	1		
	962.5		3	1
9.75 S	975	2		
	987.5		4	2
10.00 S	1000	2		
	1012.5		5	-1
10.25 S	1025	3		
	1037.5		3	-3
10.50 S	1050	0		
	1062.5		2	-5
10.75 S	1075	2		
	1087.5		-2	-11
11.00 S	1100	-4		
	1112.5		-9	-10
11.25 S	1125	-5		
	1137.5		-12	-5
11.50 S	1150	-7		
	1162.5		-14	-2
11.75 S	1175	-7		
	1187.5		-14	0
12.00 S	1200	-7		
	1212.5		-14	3
12.25 S	1225	-7		
	1237.5		-11	5
12.50 S	1250	-4		
	1262.5		-9	-2
12.75 S	1275	-5		
	1287.5		-13	-7
13.00 S	1300	-8		
	1312.5		-16	-2
13.25 S	1325	-8		
	1337.5		-15	1
13.50 S	1350	-7		
	1362.5		-15	-2
13.75 S	1375	-8		
	1387.5		-17	
14.00 S	1400	-9		



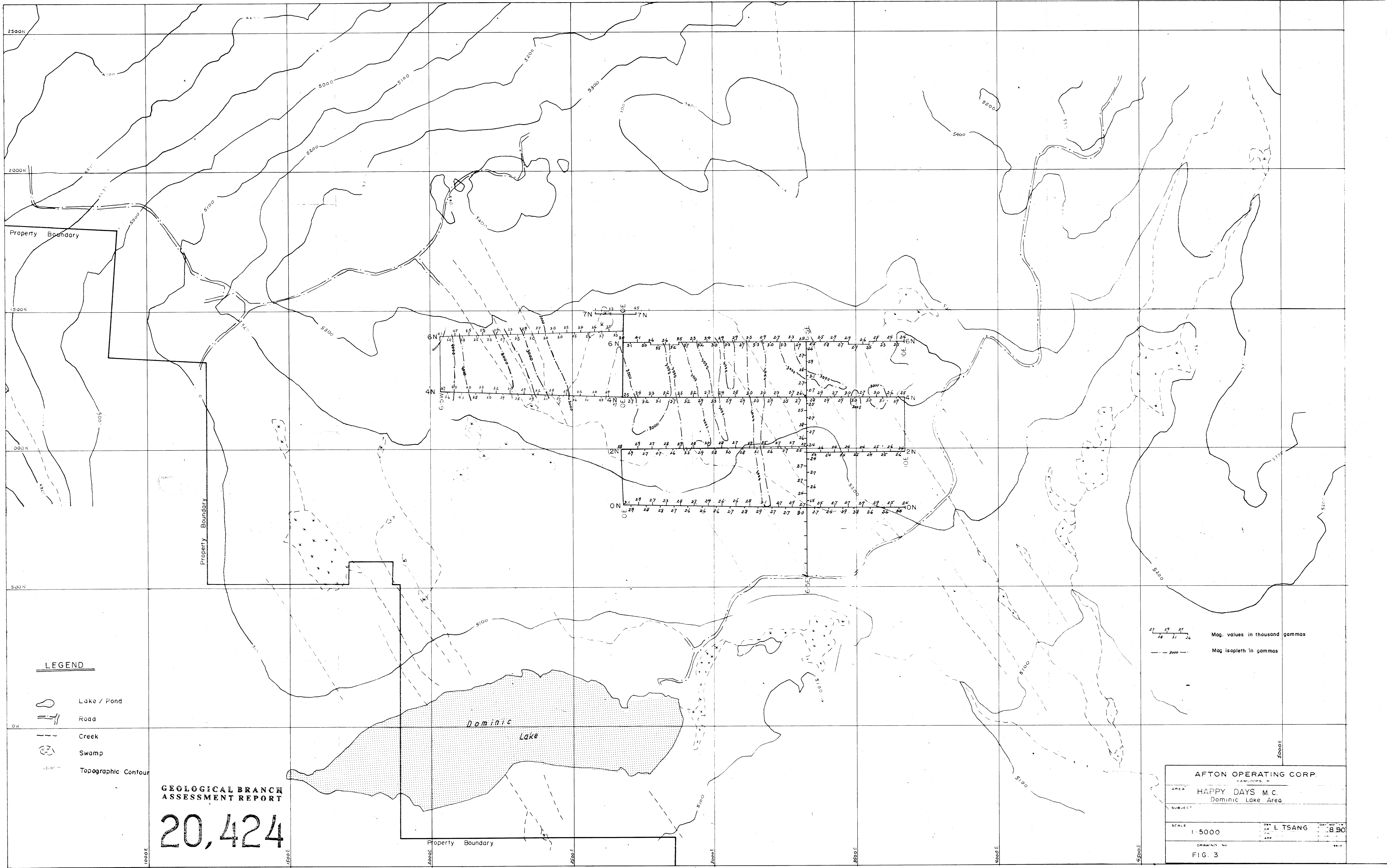
- LEGEND**
- Lake / Pond
 - Road
 - Creek
 - Swamp
 - Topographic Contour

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,424

VLF - EM CONTOUR
(DEGREES)

AFTON OPERATING CORP	
AREA	HAPPY DAYS M.C. Dominic Lake Area
SUBJECT	VLF - EM SURVEY - FILTERED DATA RADIO SOURCE: SEATTLE, WASHINGTON
SCALE	1:5000
DRAWING NO.	890
DATE	AUGUST 1990



LEGEND

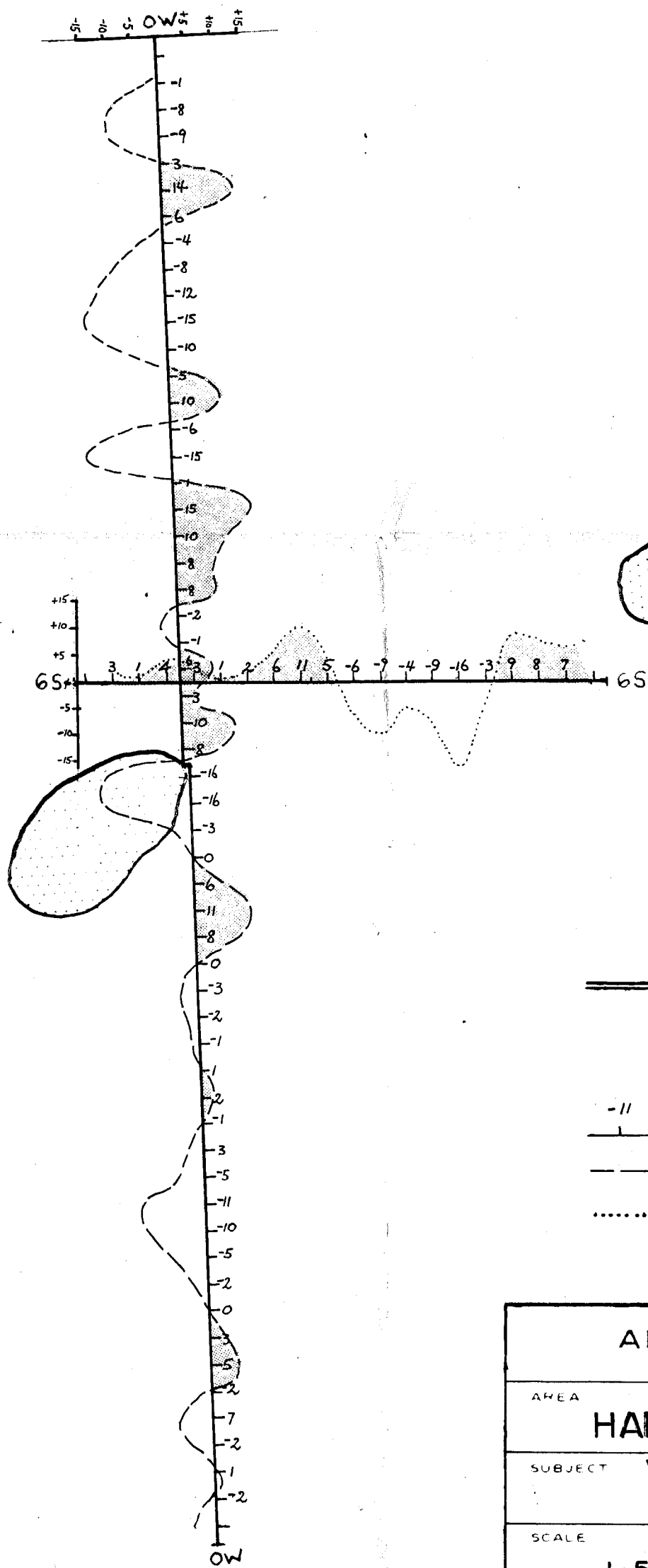
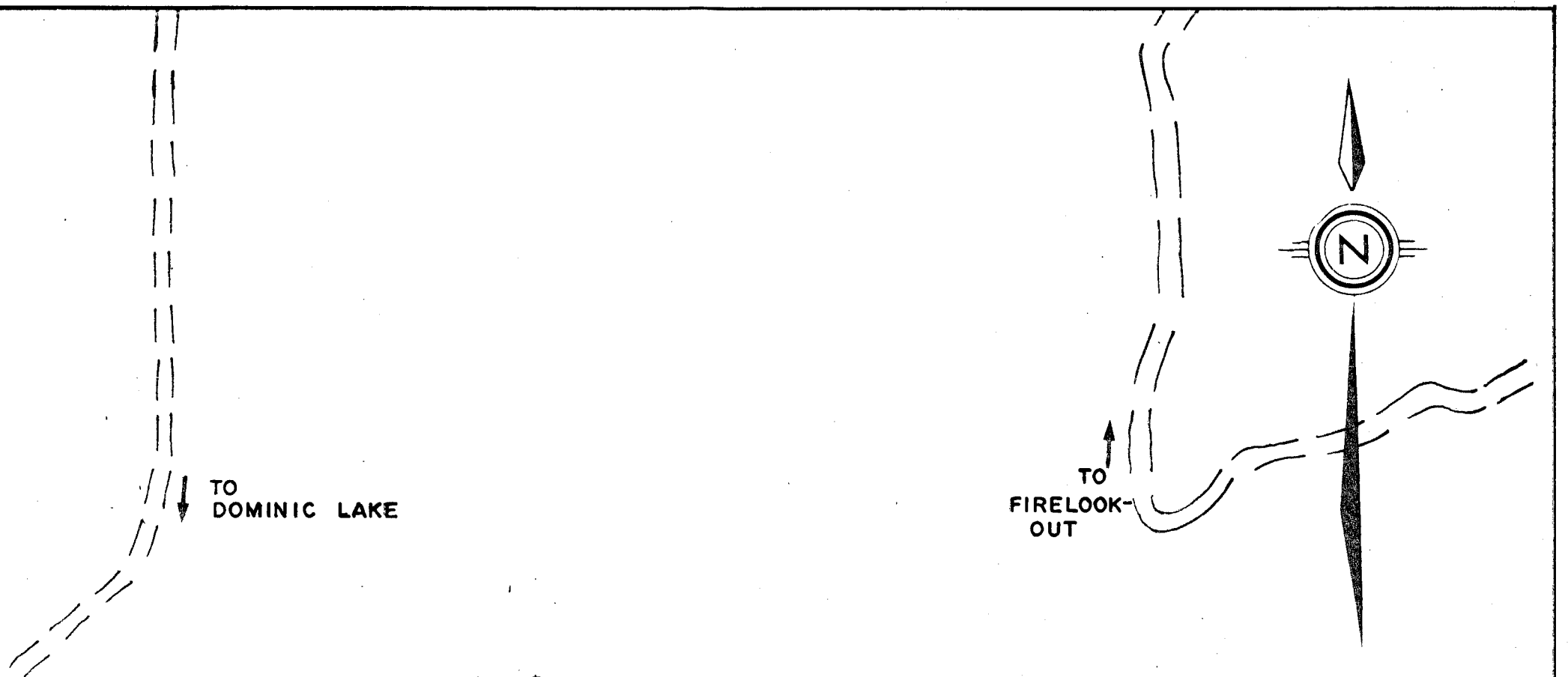
- Lake / Pond
- Road
- Creek
- Swamp
- Topographic Contour

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,424

Mag. values in thousand gammas
Mag isopleth in gammas

AFTON OPERATING CORP.	
AREA	HAPPY DAYS M.C.
SUBJECT	Dominic Lake Area
SCALE	1:5000
DRAWING No	20,424
DATE	8 90
FIG. 3	



GEOLOGICAL BRANCH
ASSESSMENT REPORT

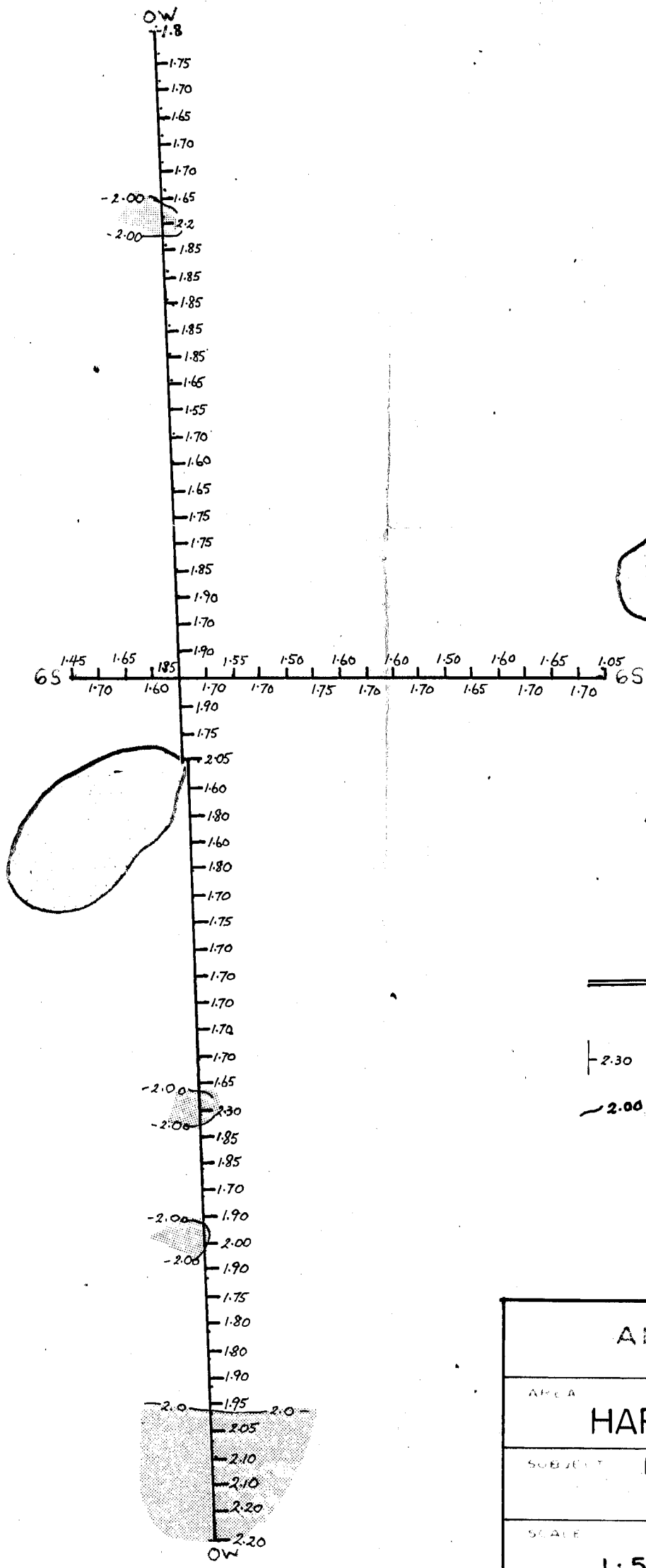
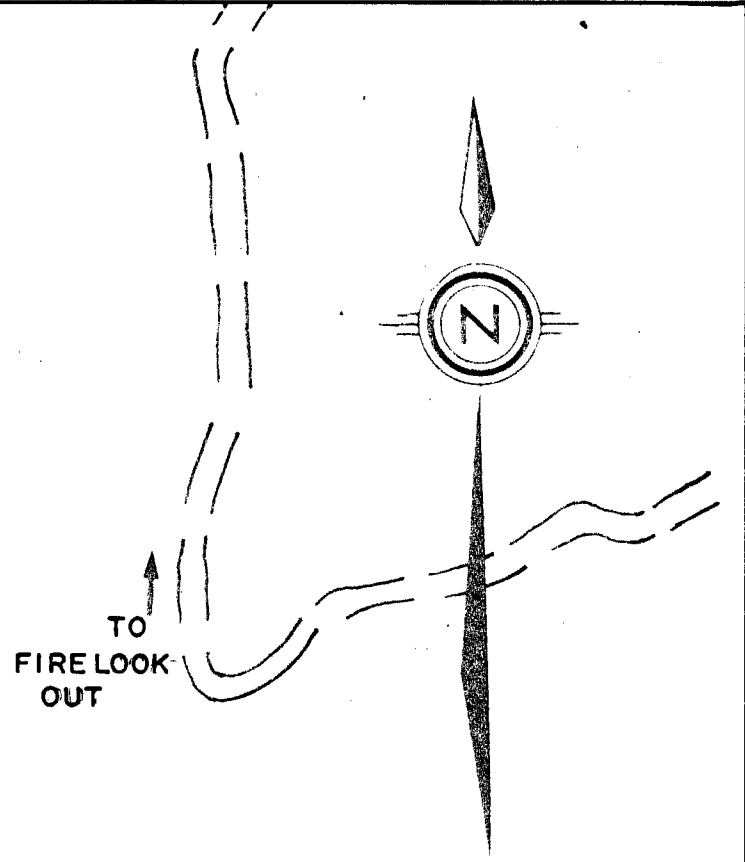
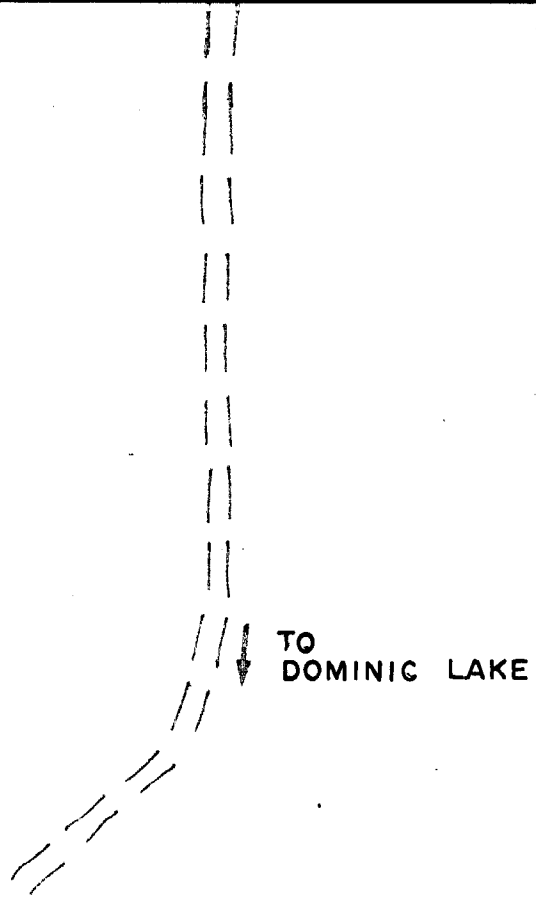
20,424

LEGEND

- || 8 FRASER FILTERED VALUES (NEGATIVE, POSITIVE)
- VLF-EM (Cutler, Maine) GRAPH FOR FILTERED VALUES
- VLF-EM (Seattle, Washington) GRAPH FOR FILTERED VALUES

Note: Positive graph were shaded

AFTON OPERATING CORP. <small>KAMLOOPS, B.C.</small>	
AREA HAPPY DAYS 4 - CORNWALL LAKE	
SUBJECT VLF-EM SURVEY Filtered Data	
SCALE 1:5000	OSW DR L. TSANG DAY MO YR CH 8 90 APP
DRAWING No FIG. 7	ISSUE



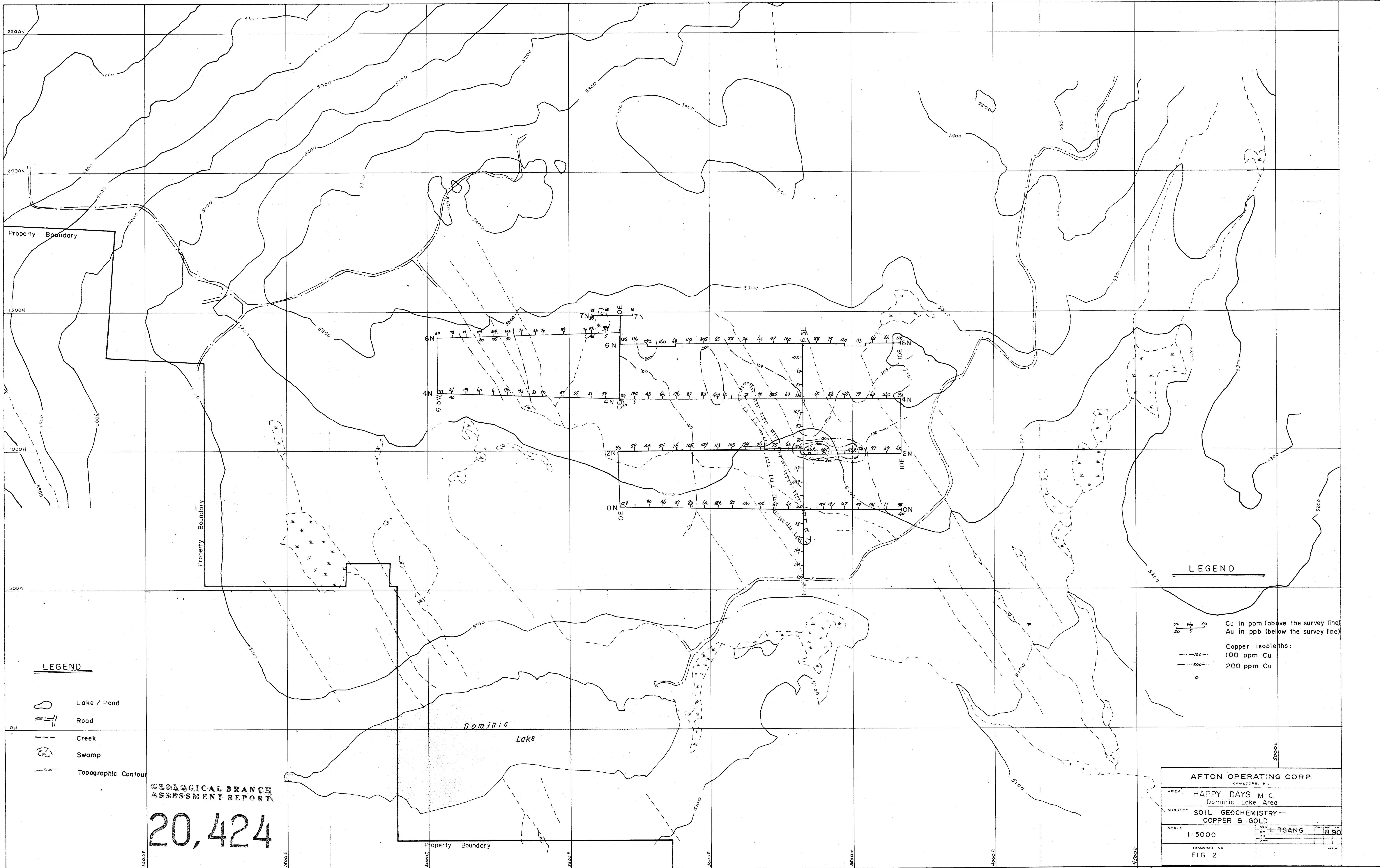
GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,424


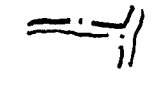
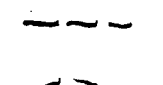

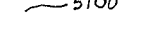
LEGEND

- 2.30 Corrected mag. values in thousand gammas
- 2.00 2000 γ contours

AFTON OPERATING CORP.				
AREA HAPPY DAYS 4 - CORNWALL LAKE				
SUBJECT MAGNETIC SURVEY Corrected values				
SCALE 1:5000		DRN OR APP L. TSANG		DAY MO YR 8 90
DRAWING NO. FIG. 6				



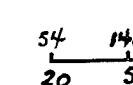
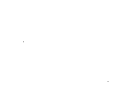
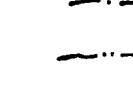

LEGEND

-  Lake / Pond
-  Road
-  Creek
-  Swamp
-  Topographic Contour

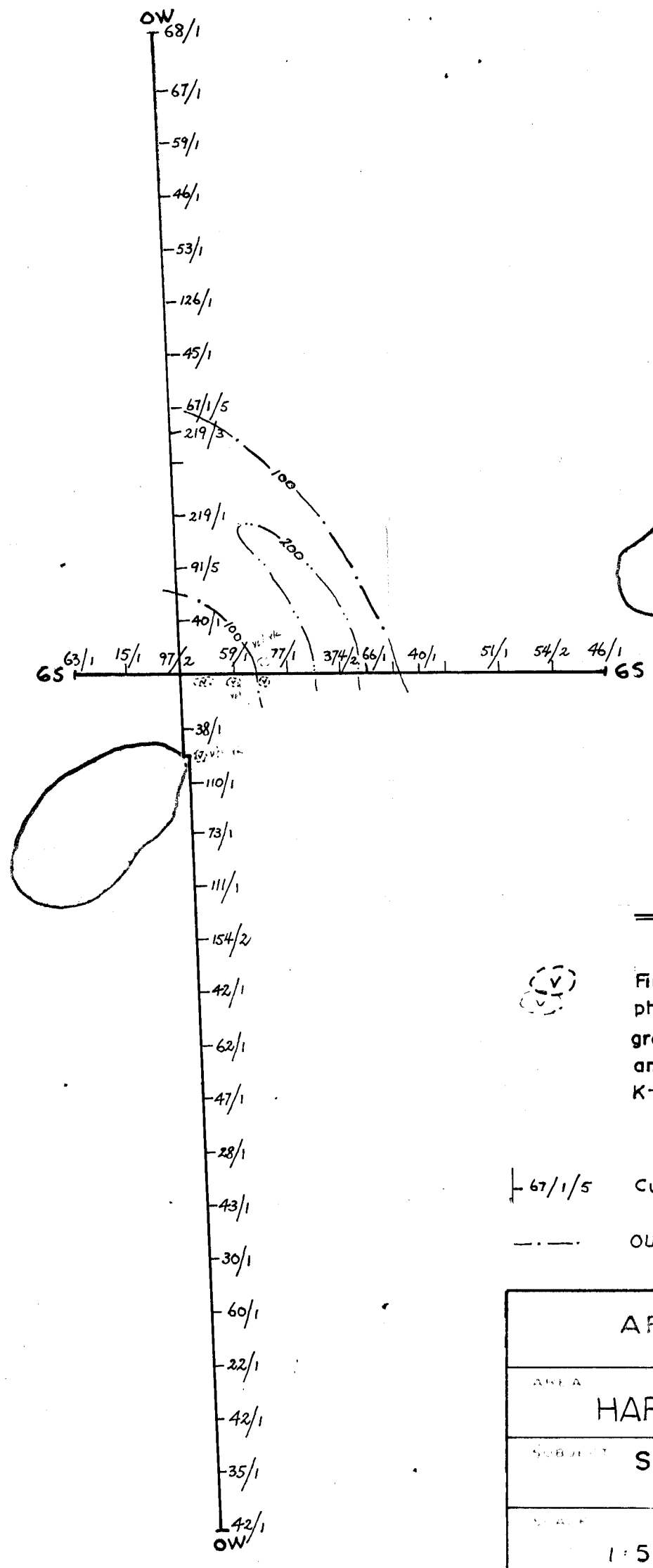
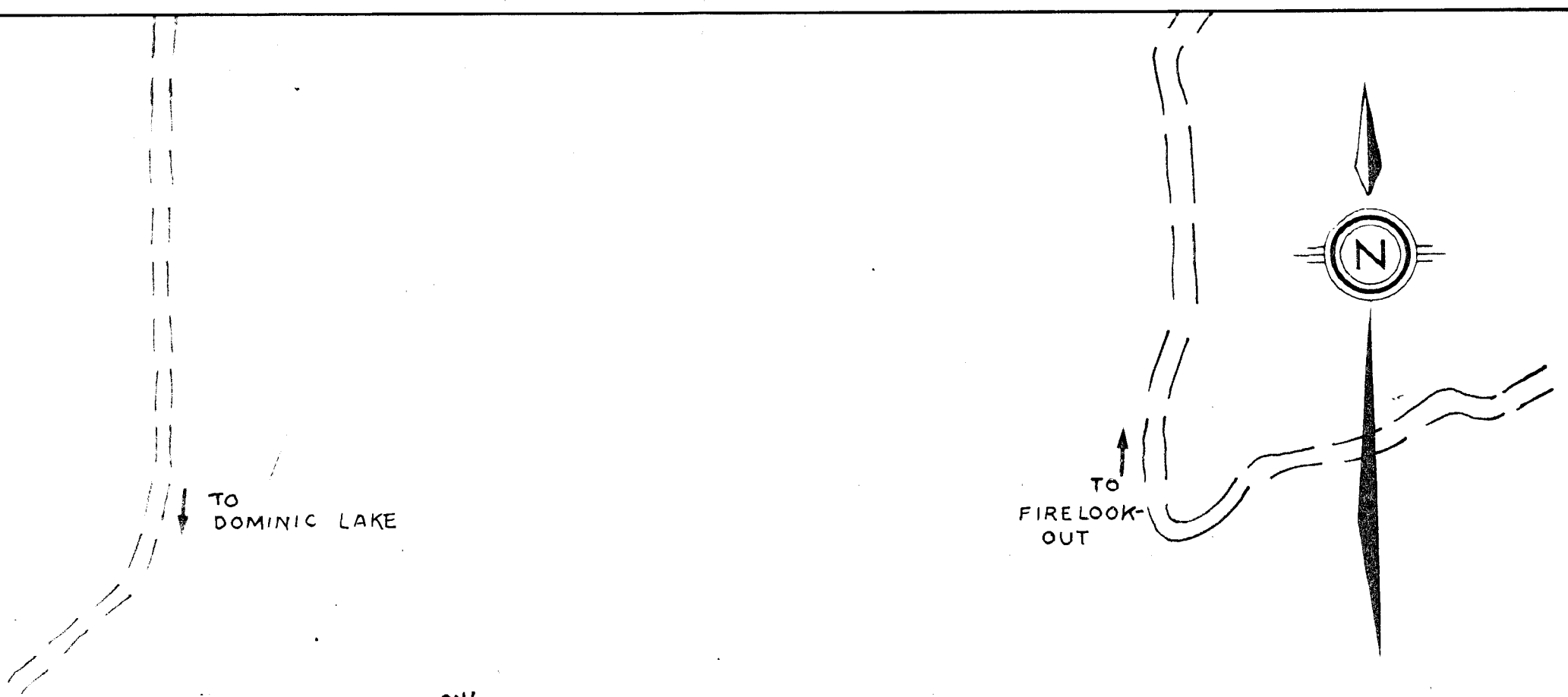
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,424

LEGEND

-  Cu in ppm (above the survey line)
-  Au in ppb (below the survey line)
- Copper isopleths:**
-  100 ppm Cu
-  200 ppm Cu

AFTON OPERATING CORP.	
HAMLDOPS, B.I.	
AREA	HAPPY DAYS M.C. Dominic Lake Area
SUBJECT	SOIL GEOCHEMISTRY— COPPER & GOLD
SCALE	1:5000
DRAWN BY	L. TSANG
DATE	8.90
DRAWING NO.	FIG. 2



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,424
LEGEND

- Fine-grained greenish volcanic rock with or without phenocrysts. The phenocrysts consist of coarse grain pyroxene and medium grain plagioclase. Minor amount of pyrite and, calcite stringers. Some spotty K-spar in the groundmass
- 67/1/5 Cu IN ppm/Mo IN ppm/Au IN ppb
- OUTLINES OF SOIL ANOMALIES.

AFTON OPERATING CORP. FAMOUS, B.			
AREA HAPPY DAYS 4 - CORNWALL LAKE			
SUBJECT SOIL GEOCHEMISTRY AND GEOLOGY			
SCALE 1:5000	BY L. TSANG	DAY 8	MO 90
DRAWING NO. FIG. 5			