

CONSOLIDATED KALCO VALLEY MINES, LTD. (N.P.L.)

REPORT OF ASSESSMENT WORK
TO BE APPLIED TO

MUF MINERAL CLAIM - RECORD NUMBER 13

SIMILKAMEEN MINING DIVISION, B.C.

92H/9W - 49 40'N; 120 28'W

(Date of Record : July 15, 1975)

SOIL GEOCHEMICAL SURVEY - JULY, 1979

B.M. FRASER, B.Sc.

August 1, 1979

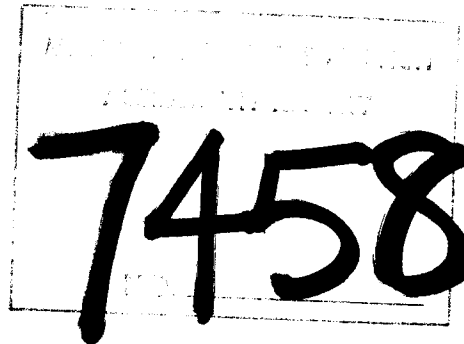


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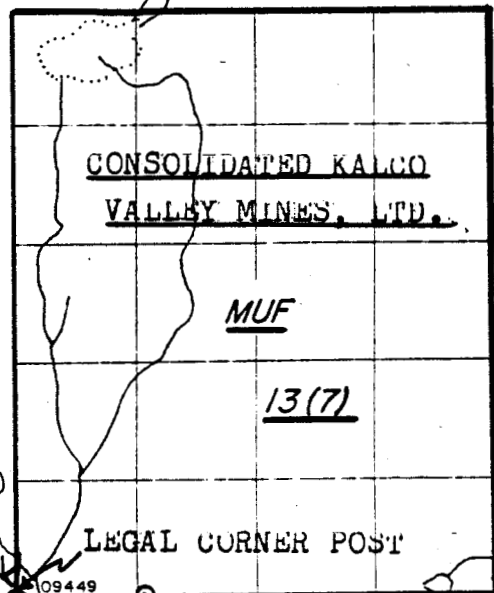
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CONSOLIDATED KALCO VALLEY MINES, LTD. AF

LOCATION MAP - MUF CLAIM (NO. 13)

Similkameen Mining Division, B.C.

92H / 9W 49 40'N ; 120 28'W

August 1, 1979

SCALE 1" = 500 METERS

92H/10E

TREND	TREND
37U	38U

INTRODUCTION

The MUF Mineral Claim of Consolidated Kalco Valley Mines Ltd. is located in the Similkameen Mining Division. It is 18 kilometers north of Princeton, B.C. and lies 2 kilometers east of Rampart Lake on a northeast trending ridge. Elevations vary from 4400 feet to 5200 feet with slopes generally moderate.

The property is underlain mainly by Nicola volcanic rocks on the western margin of the Similkameen Batholith. It is believed to have the same general environment as that of Newmont's Similkameen Mine near Princeton.

A soil geochemical program in 1978 indicated several anomalous areas on the property. However, the description of samples and environment by field workers was thought to be too general in scope. The purpose of this soil program was to follow up on the copper anomalies indicated in the southern part of the property and to provide a more descriptive basis for further work. To this end, sampling was done on a tighter grid over previously anomalous areas and numerous soil profiles were taken to study the effects of sampling different soil horizons on assays obtained.

PROCEDURE

From July 5, 1979 to July 10, 1979 a total of 254 soil samples were collected by B. Fraser on a contract basis. Using the southern location line of the MUF claim as an east-west base line, grid lines were run north at 115 meter intervals between posts 4E and 1E. Samples were taken at 115 meter intervals except in anomalous areas where they were taken every 58 meters. Control was by pace and compass with closure error taken into account where significant.

Geochemical analysis was done by Chemex Labs Ltd. of North Vancouver, B.C. with -80 mesh fraction of the material being used for analyses. Perchloric-nitric acid extraction was performed for the following elements: copper, molybdenum, lead,

PROCEDURE (continued)

zinc, silver. A background correction was applied by the lab for lead and silver values. Analysis for uranium was by molecular fluorescence.

The results were compiled with field descriptions and plotted by B. Fraser in tabular form and as 1:5000 plan maps.

GEOCHEMICAL DATA

The data table makes use of the following abbreviations:

- STN - station number on the grid
- DP - depth of soil hole in centimeters
- DEV - extent of horizon development
 - P - poor
 - F - fair
 - G - good
- HOR - horizon
 - eg. B? - poorly developed B
- rtv - rooty
- org - organic
- lt - light
- gy - grey
- dk - dark
- bn - brown
- bk - black
- ang - angular
- mod - moderate
- med - medium

Note: Assay values for all elements are in ppm.

<u>STN</u>	<u>DP</u>	<u>DEV</u>	<u>HOR</u>	<u>Cu</u>	<u>Mo</u>	<u>Pb</u>	<u>Zn</u>	<u>Ag</u>	<u>U</u>	<u>COMMENTS</u>
20W 00N	28	P	B?	36	1	4	48	0.1	1.0	dk. bn. org. gravelly clay, edge of swamp
10N	35	P	A	136	6	2	14	0.6	9.0	dk. bn. clayey org., wet, forested swamp
15N	28	P	B?	86	1	6	38	0.4	7.0	dk. bn. org. sandy clay,
20N	40	P	B?	98	1	6	62	0.6	7.0	dk. bn. org. gravelly clay
25N	28	P	B?	52	1	4	40	0.2	3.0	gentle slope, med. bn. org. gravelly clay
30N:	60	P								SOIL PROFILE mod. slope
(1)	60-35		C?	54	1	4	58	0.2	3.0	med. bn. slightly org. gravelly clay SAMPLE
(2)	35-20		B-C	60	1	6	68	0.4	2.5	med. bn. rty. org. gravelly clay
(3)	20-8		B	48	2	4	62	0.2	2.0	slightly reddish med. bn. rty. org. gravelly clay
35N	35	P	B?	34	1	6	72	0.1	0.5	lt. bn. org. gravelly clay, mod. slope
40N	30	P	B?	46	1	4	62	0.1	1.0	reddish bn. org. sandy clay, mod. slope
45N	40	P	B?	40	1	4	86	0.1	0.5	med. bn. org. gravelly clay, mod. slope.
50N	45	F	B	44	1	4	100	0.2	1.0	lt. bn. org. sandy clay, mod. slope.
55N:	60	F								SOIL PROFILE, mod. slope
(1)	60-40		C	58	1	4	56	0.2	2.5	lt. bn. gravelly clay
(2)	40-30		B-C	48	1	2	52	0.2	1.5	lt. bn. org. rty. gravelly clay
(3)	30-15		B	44	1	4	66	0.2	1.0	lt. bn. org. rty. gravelly clay.
(4)	15-8		A ₃ -B	28	1	4	66	0.1	1.0	med. bn. org. sandy clay
60N	28	P	B?	42	1	4	70	0.1	2.5	med. bn. org. gravelly clay, mod. slope.
65N	20	P	B?	52	1	6	72	0.4	2.5	med. bn. org. gravelly clay, gentle slope.
70N	40	P	B?	40	1	4	52	0.2	1.5	med. bn. org. gravelly clay, gentle slope.
75N	38	P	B?	38	1	4	68	0.2	1.0	slightly reddish med. bn. org. sandy clay, gentle slope
80N:	45	F								SOIL PROFILE gentle slope
(1)	45-40		B-C	52	1	4	58	0.1	1.5	hty and med. bn. mixed org. gravelly clay
(2)	40-15		B?	42	1	6	66	0.4	0.5	med. bn. org. gravelly clay
(3)	15-7		A ₃ -B	34	1	6	66	0.1	0.5	slightly reddish med. bn. org. rty. sandy clay
85N	28	F	B	44	1	6	68	0.1	0.5	med. bn. org. sandy clay gentle slope
90N	22	F	B	62	1	4	66	0.1	1.5	med. bn. org. sandy clay gentle slope
95N	42	P	B?	42	1	4	74	0.2	1.0	med. bn. org. sandy clay

<u>STN</u>	<u>DP</u>	<u>DEV</u>	<u>HOR</u>	<u>Cu</u>	<u>Mo</u>	<u>Pb</u>	<u>Zn</u>	<u>Ag</u>	<u>U</u>	<u>COMMENTS</u>
20W 100N	70	G								SOIL PROFILE gentle slope
(1)	70-55	C		62	1	4	62	0.2	2.0	med. gy. bn gravelly clay
(2)	55-45	BC		62	1	4	70	0.2	1.5	med. bn. org. gravelly clay
(3)	45-20	B		50	1	4	68	0.1	1.0	nty. slightly reddish med. bn org. gravelly clay
(4)	20-10	A-B		46	1	4	72	0.1	1.0	nty. lt. bn. org. sandy clay
(5)	10-8	A ₂		32	1	4	54	0.1	1.0	lt. gy. clayey org., narrow leached zone.
30W 5N	30	P	B?	98	1	6	38	0.2	5.5	dk. bn. org. sandy clay, flat, on claim line (00N)
10N	15	P	B?	38	1	4	40	0.1	1.5	dk. bn. org. gravelly clay, flat logged clearing.
15N	28	P	B?	72	2	6	48	0.2	3.0	dk. bn. org. gravelly clay, gentle slope.
20N	25	P	B?	56	1	6	54	0.2	2.5	med. bn. org. sandy clay
25N	30	P	B?	120	1	4	62	0.2	8.5	dk. bn. org. sandy clay, gentle slope.
30N	30	P	B?	40	1	4	64	0.2	1.5	med. bn. org. gravelly clay, mod. slope.
35N	33	P	B?	90	1	6	72	0.2	1.5	med. bn. nty. org. gravelly clay, mod. slope
40N	30	P	B?	32	1	2	58	0.1	1.0	med. bn. org. gravelly clay, mod. slope
45N	30	P	B?	40	1	4	76	0.1	1.0	med. bn. org. sandy clay, mod. steep slope
50N	23	P	B-C	30	2	4	60	0.2	1.0	tan org. gravelly clay, mod. steep slope.
55N	25	P	B?	32	1	4	60	0.2	1.0	med. bn. org. nty. gravelly clay, mod. slope
60N	31	P	B?	42	1	4	58	0.1	2.0	dk. bn. org. sandy clay, mod. slope.
65N	32	F	B.	36	1	4	74	0.1	1.0	med. bn. org. sandy clay, gentle slope.
70N	28	F	B.	46	1	4	72	0.2	1.0	med. bn. org. gravelly clay mod. slope.
75N	45	P	B?	112	3	4	66	0.2	13.0	dk. bn. org. sandy clay, mod. slope.
80N	22	P	B?	96	1	4	64	0.2	3.5	dk. bn. org. gravelly clay, gentl slope
85N	28	P	B?	24	1	2	74	0.2	0.5	med. bn. org. sandy clay, mod. slope
90N	30	P	B?	26	1	4	72	0.2	1.0	lt. gy. org. sandy clay, gentle slope
95N	28	P	B?	40	2	4	62	0.2	1.0	med. bn. org. sandy clay flat.
100N.	42	P	B?	68	2	4	58	0.2	1.5	med. bn. org. sandy clay flat.
40W 00N	28	F	B	30	1	4	48	0.2	1.0	lt. bn. org. gravelly clay, gentle slope, glacial ridge
5N	28	P	B?	54	1	4	58	0.4	3.0	nty. med. org. gravelly clay, base of mod. slope
10N	30	P	B?	52	2	6	68	0.2	1.0	med. bn. org. sandy clay, mod. slope
15N	35	P	B?	36	2	4	74	0.2	1.5	med. bn. org. sandy clay, gentle slope.

STN.	DP	DEV	HOR	Cu	Mo	Pb	Zn	Ag	U	COMMENTS
40W 20N	30	P	B?	94	2	6	66	0.2	10.0	med. bn. org. 'hardpan' clayey gravel, mod slope.
25N	30	P	B?	34	1	4	54	0.1	2.0	rt. tan. org. gravelly clay, mod. steep slope.
30N	25	P	B?	38	1	4	62	0.1	1.0	med. bn. org. gravelly clay, mod. slope
35N.	70	F								SOIL PROFILE mod. slope
(1)	70-50		C	48	1	4	46	0.1	1.0	H. gy bn cobbly gravelly clay
(2)	50-40		B-C	52	1	4	66	0.2	0.5	slightly org. tan.
(3)	40-12		B	34	1	4	76	0.1	0.5	rt. tan. org. gravelly clay
(4)	12-10		A ₂ -B	26	1	6	84	0.1	0.5	H. gy. leached zone clayey org.
40N.	30	P	B?	36	1	4	76	0.1	7.0	org. tan gravelly clay, mod. slope.
45N	30	P	B?	26	1	4	76	0.2	0.5	tan org. gravelly clay mod. slope.
50N	20	P	B?	20	1	6	118	0.1	1.0	lt. bn. org. gravelly clay, mod. steep slope.
55N	32	P	B?	44	1	6	76	0.2	1.5	med. bn. org. sandy clay, mod. slope.
60N	25	P	B?	38	1	6	62	0.1	1.0	lt. bn. org. gravelly clay, gentle slope.
65N	28	F	B	58	1	4	70	0.2	1.0	reddish bn. org. gravelly clayey sand, gentle slope
70N	30	P	B?	32	1	4	64	0.1	0.5	reddish bn. org. sandy clay, gentle
75N.	28	P	B?-C	112	3	6	102	0.2	3.5	wet med. bn. org. clay gentle
80N	30	F	B	42	1	4	74	0.2	2.5	base of mod. slope, lt. bn. org. sandy clay
85N.	30	P	B?	40	1	6	82	0.2	1.5	reddish bn. org. gravelly clay, mod. slope
90N	30	P	B?	40	1	4	66	0.2	1.0	med. bn. org. sandy clay, gentle slope.
95N	25	P	B?	52	1	4	66	0.2	1.0	reddish bn. org. sandy clay, gentle slope
100N	30	P	B?	50	1	4	74	0.4	1.0	med. bn. org. sandy clay, gentle slope.
50W 10S	33	F	B	54	2	4	70	0.2	1.0	med. bn. org. sandy clay, gentle slope. (on claim line)
5S	35	P	B?	26	1	2	62	0.2	1.0	tan. org. gravelly clay, mod. slope.
00N	32	P	B?	38	1	6	148	0.2	1.0	tan org. gravelly clay mod. slope.
5N	15	P	med	38	2	6	86	0.2	1.5	med. bn. org. gravelly clay off occ. of granodiorite
10N	15	P	med	22	1	4	82	0.1	0.5	org. ang. gravelly clay, talus pile, mod. steep slope
15N	23	P	A-B	28	1	4	82	0.2	1.0	med. bn. org. gravelly clay, mod. steep slope
20N	25	P	A-B	16	1	4	64	0.1	0.5	med. bn. org. gravelly clay, steep slope.

STN	DP	DEV	HOR	Cu	Mo	Pb	Zn	Ag	U	COMMENTS
50W 25N	15	P	B?	44	1	4	70	0.2	1.5	reddish bn. org. gravelly clay, granodiorite ocp. at base, mod. steep slope
30N.	20	P	B?	24	1	2	64	0.1	1.0	med bn. org. sandy clay, mod. steep slope
35N	25	P	B?	62	1	4	90	0.1	2.0	med. bn. org. gravelly clay, hummocky topo.
40N.	25	P	B?	120	1	2	74	0.2	2.5	mod. slope, med. bn. org. gravelly clay.
45N.	10	P	B?C	62	2	4	58	0.1	2.0	shallow sample off granodiorite ocp, med. bn. org. gravelly clay.
50N	31	P	B?	42	1	4	52	0.2	1.0	reddish bn. org. sandy clay, gentle slope.
55N.	15	P	B?	36	1	4	66	0.1	1.0	reddish bn. org. clay amongst ang. boulders.
60N	30	P	B?	38	1	4	58	0.1	1.5	med. bn. org. sandy clay, subocp of qtz monz
65N	32	F	B	72	3	4	74	0.2	2.5	reddish bn. org. sandy clay, gentle hummocky top
70N	28	P	B?	72	3	4	74	0.2	2.5	mod. slope, med. bn. org. sandy clay.
75N.	31	P	B?	58	1	2	64	0.2	2.0	tan org. sandy clay, sub-ocp flat slope.
80N	15	P	B?	46	1	2	52	0.2	1.0	dk bn. org. clay, andesite ocp, subocp, gentle slope
85N	29	F	B	36	1	2	58	0.2	1.0	reddish bn. org. sandy clay, subocp of andesite
90N	30	F	B	52	1	4	56	0.2	1.0	lt. bn. org. gravelly clay, beside ocp. of rhyolite flow.
95N	28	P	B?	136	4	2	88	0.2	2.0	dk bn. org. sandy clay, gentle slope.
100N	30	P	B?	48	2	2	70	0.2	0.5	dk. bn. org. sandy clay,
60W 00N	30	P	B?	56	1	4	92	0.4	0.5	lt. bn. org. sandy clay mod. slope.
10N	30	P	B?	24	1	2	78	0.2	1.0	tan org. rty gravelly clay, mod. steep slope
20N	30	P	B?C	28	1	4	62	0.2	1.0	H. gy org. gravelly clay, mod. steep slope.
30N	30	P	B?	40	2	4	74	0.2	1.0	lt. bn. rty. org. gravelly clay, mod. slope
40N	32	P	B?	94	1	2	56	0.4	0.5	tan org. gravelly clay gentle slope.
50N	30	P	B?	32	1	2	52	0.2	1.0	tan. org. gravelly clay, mod. steep slope.
60N	32	P	B?	38	1	4	68	0.2	1.0	lt. bn. org. gravelly clay, sandy subocp.
70N	30	P	B?	28	1	2	58	0.4	1.0	lt. bn. org. gravelly clay gentle slope
80N	28	P	B?	38	1	2	44	0.2	1.0	H. gy. org. gravelly clay gentle slope.
90N	35	F	Bc	64	1	4	48	0.1	0.5	tan org. gravelly clay gentle slope
100N	25	P	B?	52	1	4	56	0.2	1.0	slightly reddish bn. org. gravelly clay, subocp.
70W 00N	25	P	B?	32	1	6	84	0.4	1.5	tan org. gravelly clay, mod. slope

STN	DP	DEV	HOR	Cu	Mo	Pb	Zn	Ag	U	COMMENTS
70W 1UN	10	P	A-B?	28	1	6	60	0.4	1.0	med. bn. org. sandy clay, subocp, mod. slope
20N	15	P	A-B?	44	1	6	88	0.2	1.0	med bn org sandy clay, sub-ocp.
30N	30	P	B?	30	1	4	134	0.2	2.5	med bn org gravelly clay
40N	60	F								SOIL PROFILE, gentle slope
(1)	60-40		C	50	1	6	48	0.2	2.0	lt. gy gravelly clay
(2)	40-15		B	34	2	4	64	0.1	1.0	lt. bn. org. gravelly clay
(3)	15-8		A ₂ -B	22	2	4	62	0.2	1.0	lt. gy leached clayey org.
20N.	32	F	B	46	1	4	74	0.4	1.0	gentle slope, med. bn org. sandy clay
60N	30	P	B?	28	1	4	66	0.2	1.0	mod. slope, lt. bn. org. gravelly clay.
70N	35	P	B?	34	1	6	70	0.2	0.5	med. bn. org. gravelly sandy clay
80N	38	P	B?	36	1	4	54	0.2	1.0	tan org. sandy clay, gentle slope.
90N	40	P	B?	34	1	6	68	0.2	0.5	lt. bn. org. sandy clay, gentle slope.
100N	18	F	B	26	2	14	70	0.2	2.0	org. arg. gravelly clay, sub-ocp.
80W 00N	28	P	B?	42	2	8	78	0.4	1.0	lt. bn. rty. org. gravelly clay, mod. slope
1UN	30	P	B?	62	1	8	72	0.2	2.0	very rty. lt. bn. org. clay, many subang. cobbles at base
20N	30	P	B-C	64	1	6	84	0.1	1.0	tan org. sandy clay, gentle slope
30N	32	P	B?-C	52	1	6	108	0.2	1.5	tan org. sandy clay, gentle slope.
40N	30	P	B?-c	92	1	4	68	0.2	1.0	gentle slope, med. bn org. rty. gravelly clayey sand.
50N.	68	P								SOIL PROFILE, gentle slope
(1)	68-50		C	58	5	4	98	0.2	6.5	wet med. gy bn. gravelly clay
(2)	50-20		B?	88	3	4	124	0.1	6.5	wet med. bn. org. rty gravelly clay
(3)	20-10		A-B?	66	4	4	104	0.2	6.5	dk bn. org. rty gravelly clay
60N	26	P	C?	74	1	6	58	0.2	1.0	slightly org. tan gravelly clay, ridge crest.
70N.	33	P	B?	24	1	4	66	0.2	1.5	tan org. gravelly clay, ridge crest
80N.	30	P	B?	36	2	4	58	0.2	1.0	reddish bn. org. gravelly sandy clay
90N	10	P	mixed	16	1	4	60	0.2	1.0	shallow sample on ocp of volc. bx., cliff.
100N	30	F	B	26	1	4	52	0.2	3.5	med. bn. org. gravelly clay, subocp.

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STN	DP	DEV	HOR	Cu	Mo	Pb	Zn	Ag	U	COMMENTS
90W 00N	25	P	B?	42	1	6	118	0.2	1.5	med. bn. org. gravelly clay, mod. slope
10N	30	P	B?	40	1	4	88	0.2	2.0	med bn. org. rty. gravelly clay
20N.	20	P	B?	34	1	6	110	0.2	4.0	med bn. org. gravelly clay, sub-ocp.
30N.	25	P	B?	46	1	4	78	0.1	4.0	tan org. gravelly clay, gentle slope.
40N	25	P	B?	40	1	6	128	0.2	5.0	lt. bn. org. gravelly clay, subocp.
50N	15	P	B?	42	2	6	66	0.1	2.0	reddish bn. org. rty sandy clay, subocp.
60N	30	P	B?	44	1	4	58	0.1	1.0	med. bn. org. sandy clay, gentle slope.
70N	20	P	B?	40	1	4	54	0.1	3.0	lt. bn. rty org. gravelly clay, subocp.
80N	10	P	mixed	34	1	6	66	0.2	1.5	med. bn. org. gravelly clay, subocp. of volc. bx.
90N	25	P	B?	38	1	6	54	0.1	0.5	lt. bn. org. sandy clay, top of andesite cliffs
100N	8	P	mixed	20	1	10	64	0.1	0.5	dk bn. org. rty. clay in talus on cliff.
100W 00N	40	P	B?	66	1	6	210	0.2	5.0	tan org. gravelly clay, gentle slope
10N	40	P	B?	28	1	2	110	0.1	3.5	tan org. rty. gravelly clay, gentle slope
20N	40	P	B?	54	3	4	92	0.1	1.0	lt. bn. org. sandy clay, gentle slope
30N	35	P	B?	34	2	2	82	0.1	3.0	gentle slope, lt. bn org. gravelly clay
40N.	65	P								SOIL PROFILE, flat.
	65-50		C	68	1	4	66	0.1	0.5	tan. gravelly clayey sand.
	50-20		B?	66	1	4	80	0.2	0.5	tan rty org. gravelly clayey sand.
	20-10		A ₃ B	78	2	2	76	0.2	0.5	lt. bn. org. rty sandy clay
	10-0		A ₂ A ₃	52	1	4	76	0.1	0.5	very narrow leached zone of lt. gy clayey org
50N	35	P	B?	26	1	2	92	0.2	0.5	tan. org. gravelly clayey sand, talus pile.
55N	-	P	B?	20	1	2	38	0.2	2.0	talus pile beside altered andesite cliff, tan org. sandy clay
60N	-	P	B?	94	1	2	72	0.2	1.5	tan org. rty. gravelly clay, subocp.
65N	35	P	B?	56	1	4	58	0.1	1.5	lt. bn. org. sandy clay, subocp. of andesite.
70N	38	F	BC	94	2	2	80	0.1	2.0	tan org. gravelly clay, mod. slope.
75N.	32	P	B?C	114	1	4	92	0.1	2.5	talus pile, gentle slope, tan org. cobbly clayey sand
80N	35	F	B	44	2	4	72	0.4	7.0	gentle slope, lt. bn. org. rty gravelly clay
85N	40	P	B?	36	2	4	42	0.2	1.5	lt. bn. org. sandy clay, gentle slope.

<u>STN</u>	<u>DP</u>	<u>DEV</u>	<u>HOR</u>	<u>Cu</u>	<u>Mo</u>	<u>Pb</u>	<u>Zn</u>	<u>Ag</u>	<u>U</u>	<u>COMMENTS</u>
100W 90N	65	F								SOIL PROFILE, mod. slope
	65-55		C	52	1	4	46	0.2	2.5	lt. gy bn gravelly clay
	55-45		B-C	66	1	4	60	0.1	1.0	lt. bn. org. gravelly clay
	45-10		B	52	1	4	60	0.2	1.5	lt. bn. rty. org. gravelly clay
	10-8		A ₂ -B	32	1	4	46	0.1	0.5	lt. gy-bn leached zone org. rty clay
95N	25	P	B?	86	2	4	48	0.2	4.0	gentle slope, lt. bn. org. gravelly clay
100N	33	P	B?	88	2	4	44	0.2	2.0	mod. gentle slope, lt. bn. org. sandy clay
110W 00N	35	F	B	56	1	4	92	0.1	1.0	gentle slope, tan. org. rty gravelly clay
100N.	30	F	B	76	1	4	210	0.2	1.0	lt. bn. org. gravelly clay, mod. slope.
200N.	30	P	B?	56	1	4	92	0.2	0.5	flat, tan. org. gravelly clayey sand.
300N	32	P	B?	88	2	6	680	0.4	2.5	gentle slope, med. bn. org. gravelly clay
400N.	30	F	B	42	2	2	54	0.2	1.0	mod. slope, tan org. gravelly clay
500N	35	F	B	36	1	2	46	0.2	0.5	mod. slope, lt. bn. org. gravelly clay
550N	18	P	B?	30	1	4	50	0.1	3.0	tan org. sandy clay, lg. andesite blocks at base
600N	35	F	B	24	1	4	42	0.2	1.0	tan org. gravelly clay, gentle slope
650N	38	F	B	36	1	2	80	0.1	0.5	tan org. gravelly clay,
700N	45	F								SOIL PROFILE, gentle slope
	45-32		C	38	1	2	38	0.1	0.5	lt. gy gravelly clay
	32-10		B	34	1	4	46	0.2	0.5	lt. bn. org. gravelly clay
	10-5		A ₂	14	1	4	50	0.1	0.5	leached zone, lt. gy-lt bn clayey org.
75N	35	F	B	56	1	4	68	0.2	2.5	lt. bn. org. gravelly clay, gentle slope.
80N	30	P	B?	42	1	2	52	0.1	1.0	lt. gy org. gravelly clay
85N	35	P	B?	60	1	4	52	0.1	1.0	tan org. gravelly clay, gentle slope.
90N	35	P	B?	60	1	4	44	0.2	1.5	lt. bn. org. sandy clay, gentle slope
95N	30	P	B?	44	1	4	44	0.1	0.0	lt. gy-bn. org. gravelly clay
100N	35	P	B?	46	1	2	42	0.1	1.0	lt. gy. org. gravelly clay mod. slope
120W 10N.	25	P	B?	38	1	4	68	0.1	0.5	tan org. sandy clay, gentle slope, andesite ocr.
200N	35	F	B	38	1	2	48	0.2	1.0	mod. slope, tan org. gravelly clay

STN	DP	DEV	HOR	Cu	Mo	Pb	Zn	Ag	U	COMMENTS
120W 30N	42	P	B?	30	11	2	54	0.1	0.5	med. bn org. sandy clay, gully
40N	40	F	B	26	1	2	52	0.1	0.5	flat, gully bottom, med bn. org. sandy clay
50N	28	F	B	36	1	2	54	0.2	0.5	med. bn. org. gravelly clay, ridge crest.
55N	35	P	B?	44	1	4	32	0.1	0.5	med. gy bn org. gravelly clay, gentle slope
60N	35	F	B	64	1	4	38	0.2	0.5	mod. slope, tan org. gravelly clay
05N	35	P	B?	42	1	4	42	0.2	1.0	tan org. rty gravelly clay, mod. slope
70N	50	G								SOIL PROFILE, mod. slope
	50-29		C	34	1	4	40	0.1	1.5	H. gy gravelly clay
	29-10		B	28	2	2	60	0.1	0.5	H. bn. org. sandy clay
	10-5		A-B	12	1	2	38	0.1	0.5	H. gy and H. bn org. rty clay, leached zone.
75N	38	P	B?	28	1	2	58	0.1	0.5	tan org. gravelly clay, ridge crest.
80N	35	F	B	40	1	4	48	0.2	0.5	tan gravelly clayey sand, mod. steep slope
85N	35	F	B	32	2	4	58	0.2	0.5	H. bn. org. gravelly clay; mod. slope.
90N	25	P	B?	54	2	4	48	0.2	1.0	H. gy. org. rty. sandy clay
130W 00N	42	P	B?	38	2	4	56	0.2	1.0	H. gy. org. sandy clay, mod. slope.
10N	35	P	B?	30	1	4	82	0.2	1.0	H. gyish tan org. gravelly sandy clay, mod. slope
20N	35	P	B?	50	1	10	62	0.2	1.0	tan org. gravelly sandy clay, mod. steep
30N	25	P	mixed	10	1	2	48	0.1	0.5	H. gy. org. rty clay, talus pile.
40N	-	P	mixed	20	1	4	48	0.1	1.5	H. bn. org. rty gravelly sandy clay
50N	38	P	mixed	32	2	6	54	0.1	1.5	med. bn. org. rty sandy clay
55N	32	P	B?	62	2	4	74	0.2	1.0	med. bn. org. gravelly clayey sand.
60N	32	P	B?	100	1	4	54	0.1	1.0	tan org gravelly clayey sand, gentle slope
65N	35	P	B?	156	2	4	64	0.2	1.0	gentle slope, H. gy. org. gravelly clay
70N	30	P	B?	46	1	4	38	0.2	0.5	H. gy. org. sandy clay, mod. slope
75N	35	P	B?	28	1	2	36	0.1	1.5	tan org. gravelly sandy clay, mod. slope
80N	38	F	B	34	1	4	58	0.2	1.5	H. bn. gravelly clayey sand, mod. slope
85N	30	F	B	28	2	4	44	0.1	1.0	H. bn. org. sandy clay mod. slope.
90N	30	P	A-B	126	1	4	32	0.4	2.0	med. bn. org. rty sandy clay

<u>STN</u>	<u>DP</u>	<u>DEV</u>	<u>HOR</u>	<u>Cu</u>	<u>Mo</u>	<u>Pb</u>	<u>Zn</u>	<u>Ag</u>	<u>U</u>	<u>COMMENTS</u>
140W 00N	5	P	B?C	36	2	6	78	0.2	3.0	lt. bn. residual org. sandy clay, ocp. of andesite
10N	25	P	B?	100	2	6	66	0.4	3.0	med. bn. org. sandy clay
20N	20	P	A-B	54	2	4	38	0.2	1.0	lt. bn. org gravelly clay
30N	25	F	B	32	2	4	66	0.1	1.0	H. bn. org. sandy gravel
40N	50	F								SOIL PROFILE
(1)	50-40		C	42	1	2	36	0.1	2.5	gy. bn. gravelly 'hardpan' clay
(2)	40-30		BC	42	1	2	38	0.1	1.0	org. gy. bn gravelly clay
(3)	30-10		B	56	1	4	58	0.2	0.5	tan org. rty sandy clay
(4)	10-5		A ₂	38	1	2	30	0.1	1.5	leached zone, lt. gy org. clay
50N	30	P	B?	46	1	2	40	0.1	1.0	gy. bn. gravelly clayey sand, mod. slope
55N	45	P	B?	30	1	2	40	0.1	2.0	gy. bn. org. sandy clay
60N	80	F								SOIL PROFILE, mod. slope
(1)	80-60		C	56	1	2	40	0.1	4.5	lt. bn gravelly sand
(2)	60-10		B	80	1	2	56	0.2	1.5	lt. bn. org. rty sandy cobble gravel
(3)	10-5		A ₂ B	38	2	2	82	0.1	4.0	med. bn. org. sand, immediately below leached A ₂ zone.
65N	20	F	B	42	1	4	82	0.1	3.5	reddish tan org. gravelly sand.
70N	28	P	B?	50	1	2	42	0.2	1.5	H. bn. org. sandy clay, ocp. of porph. andesite.
75N	30	P	B?	58	1	2	64	0.1	1.5	tan org. rty clayey gravelly sand.
80N	35	P	B?	44	1	2	36	0.1	1.5	wet, med. bn. org. gravelly clay
85N	35	F	B	26	1	2	32	0.1	0.5	tan org. clayey sand
90N	63	F								SOIL PROFILE
(1)	63-60		C	108	1	2	54	0.2	1.5	med. gy. bn. cobbly clayey sand
(2)	60-20		B	58	1	4	70	0.2	0.5	reddish tan org. gravelly clayey sand.
(3)	20-10		A ₂ B?	20	1	2	46	0.1	0.5	tan clayey org.
(4)	10-9		A ₂	12	1	4	38	0.1	1.0	very narrow leached zone, lt. gy clayey org.
95N	40	F	B	42	1	2	68	0.2	0.5	tan org. gravelly clayey sand
100N	40	F	B	46	1	2	66	0.2	0.5	tan. org. gravelly sandy clay

<u>STN</u>	<u>DP</u>	<u>DEV</u>	<u>HOR</u>	<u>Cu</u>	<u>Mo</u>	<u>Pb</u>	<u>Zn</u>	<u>Ag</u>	<u>U</u>	<u>COMMENTS</u>
150W 00N	30	P	B?	44	1	4	46	0.2	<0.5	tan org. gravelly sandy clay
10N	30	P	A-B	210	1	8	66	0.4	10.0	med. bn. org. sandy clay
20N	30	P	B?	56	1	1	68	0.2	2.0	tan org rty sandy clay
30N	35	F	B	30	1	2	42	0.2	1.0	H. bn rty org. sandy clay
40N	30	F	B	54	1	2	68	0.4	1.0	H. bn. rty org. gravelly clay
50N	22	P	B?C	68	1	2	46	0.2	1.0	wet, org. clayey sandy gravel
55N	30	P	A-B	300	1	4	38	0.8	4.0	dk. bn wet org. gravelly clay, ocp. of andasite
60N	25	P	B?	76	1	4	54	0.4	1.0	tan org. sandy cobbly clay
65N										NOT TAKEN DUE TO ACTIVE LOGGING
70N	45	P	A-B	240	1	2	26	0.4	4.0	wet bk. org. gravelly clay
75N	30	F	B	28	1	4	44	0.2	0.5	tan org. gravelly sandy clay
80N	38	F	B	38	1	4	58	0.2	1.0	H. bn. org. gravelly clayey sand.
85N	35	P	A-B?	52	1	2	38	0.4	1.0	med. bn rty org. sandy clay.
90N	40	P	B?	32	1	4	74	0.2	0.5	med. bn rty org. cobbly clayey sand.
95N	35	F	B	36	1	2	38	0.2	1.0	tan org. gravelly clayey sand
100N	30	F	B	40	1	4	42	0.1	<0.5	tan org. rty cobbly sandy clay

INTERPRETATION

DISTRIBUTION OF COPPER VALUES

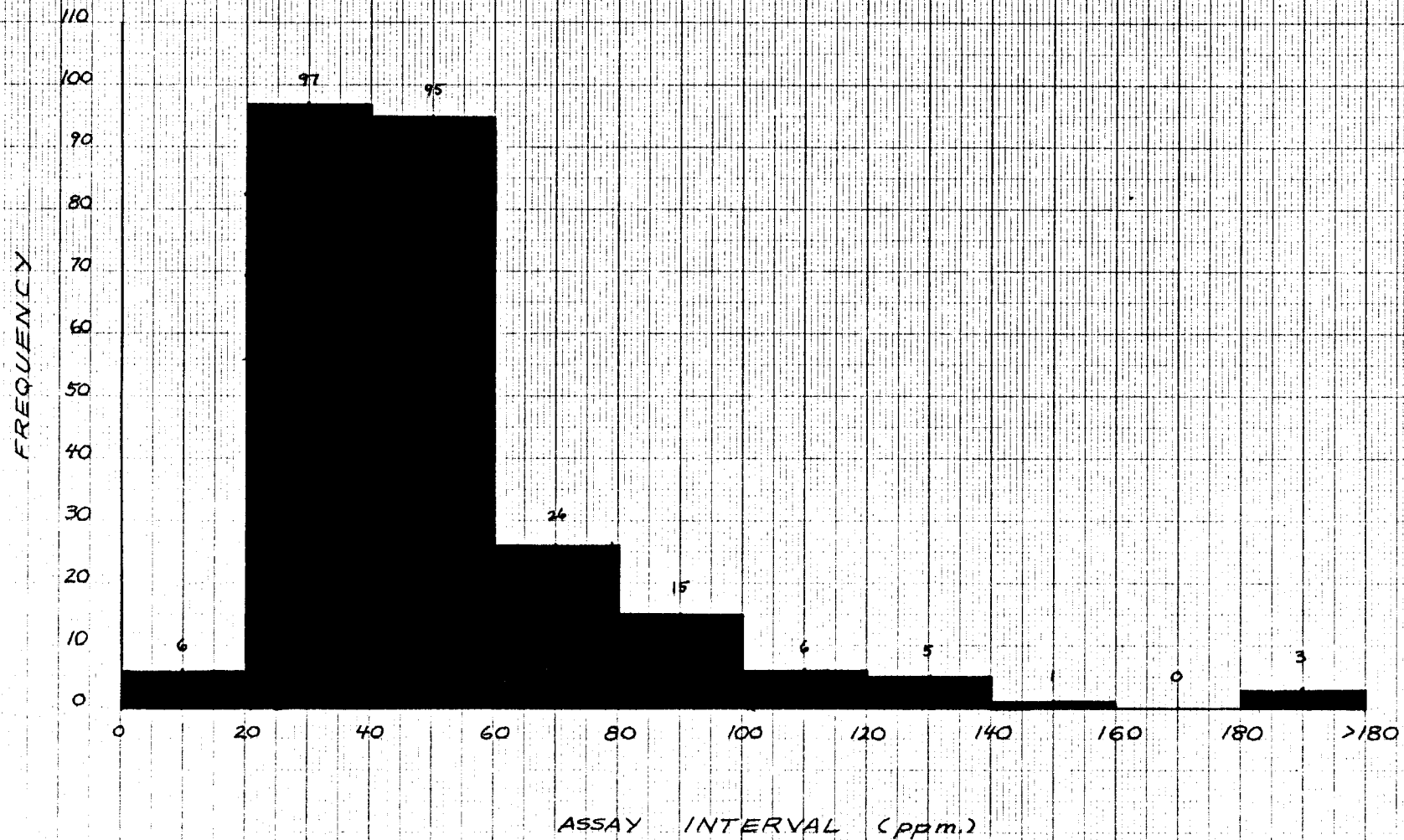


Figure 1

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DISTRIBUTION OF MOLYBDENUM VALUES

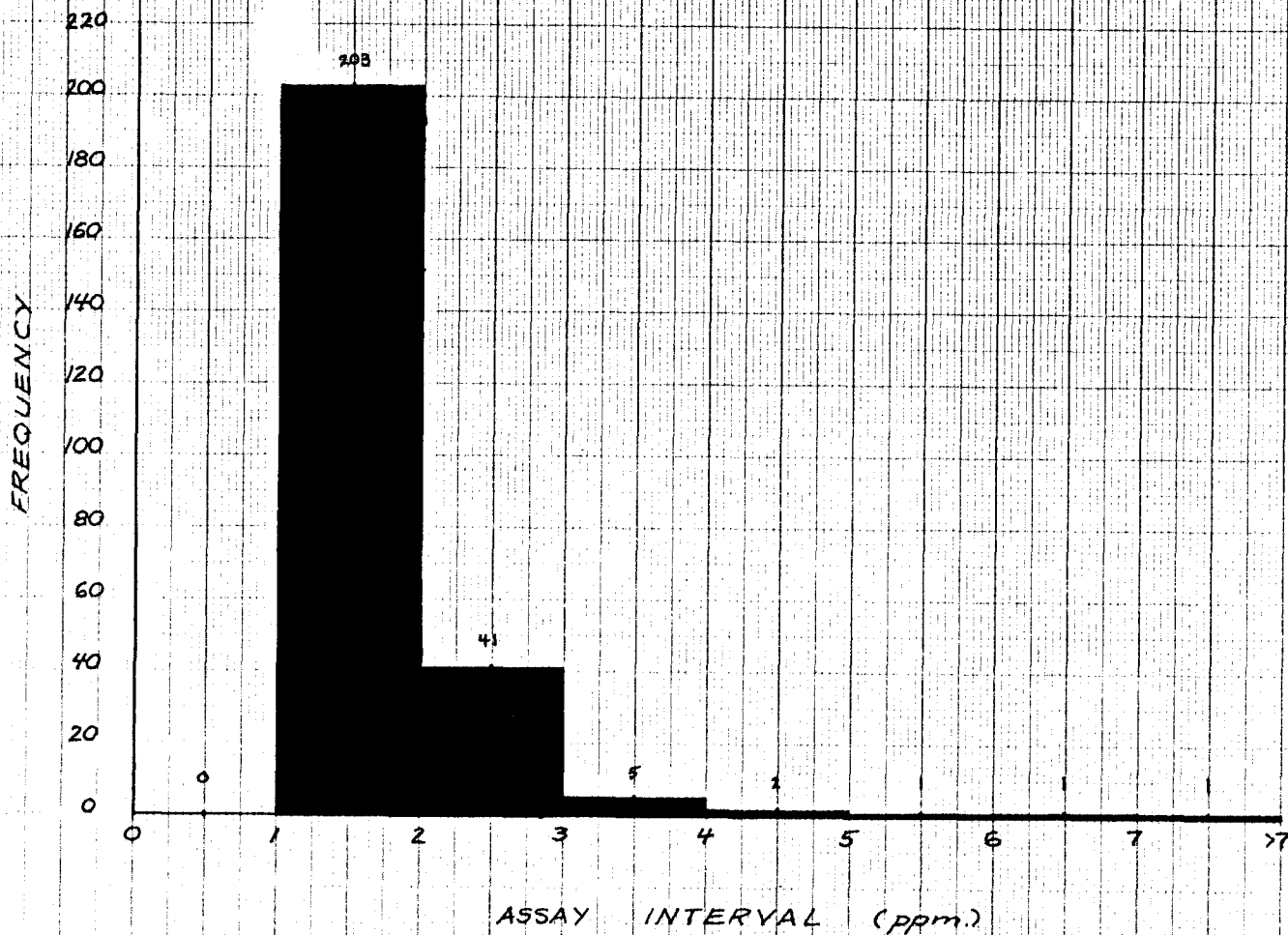


Figure 2

DISTRIBUTION OF LEAD VALUES



Figure 3

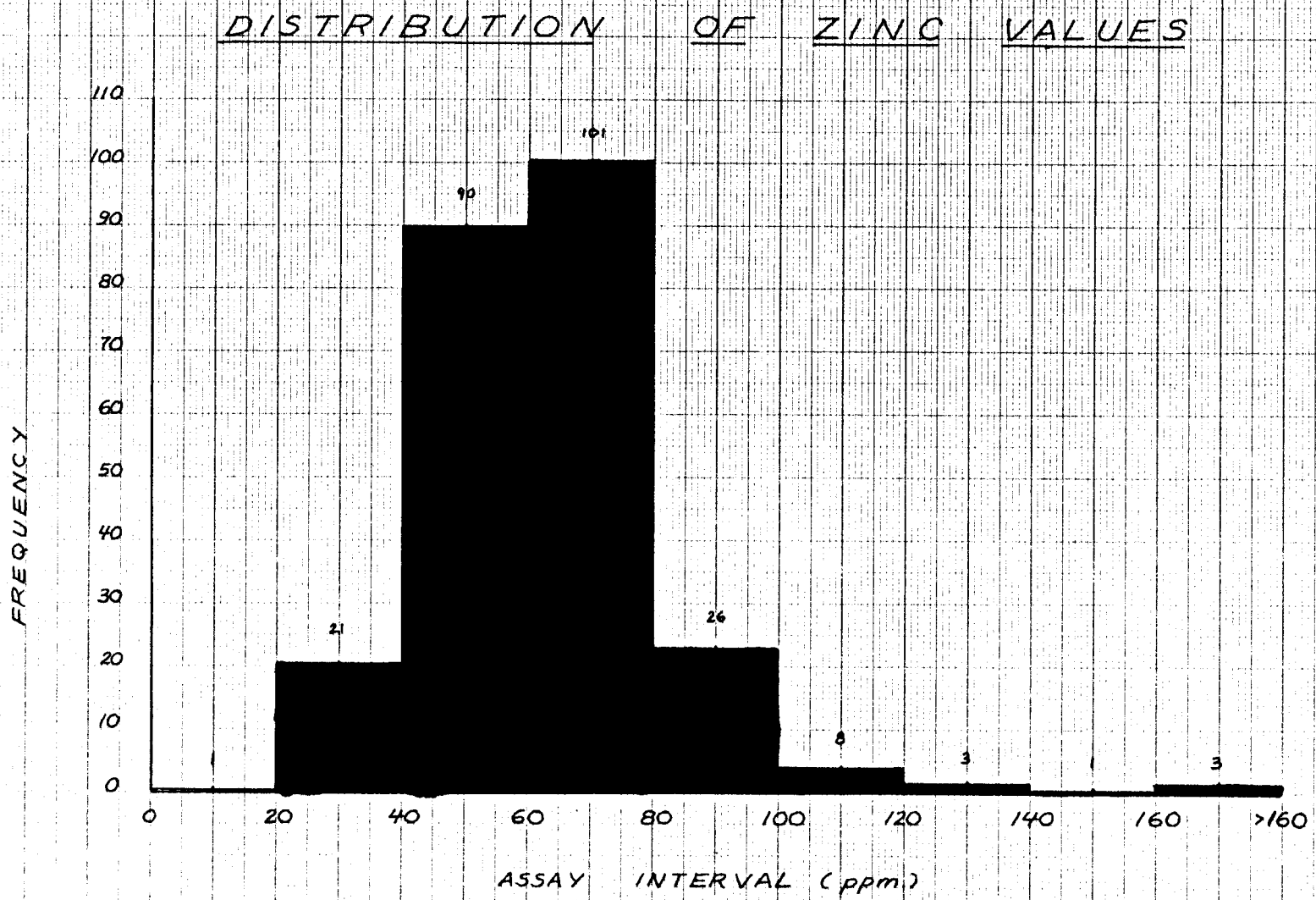


Figure 4

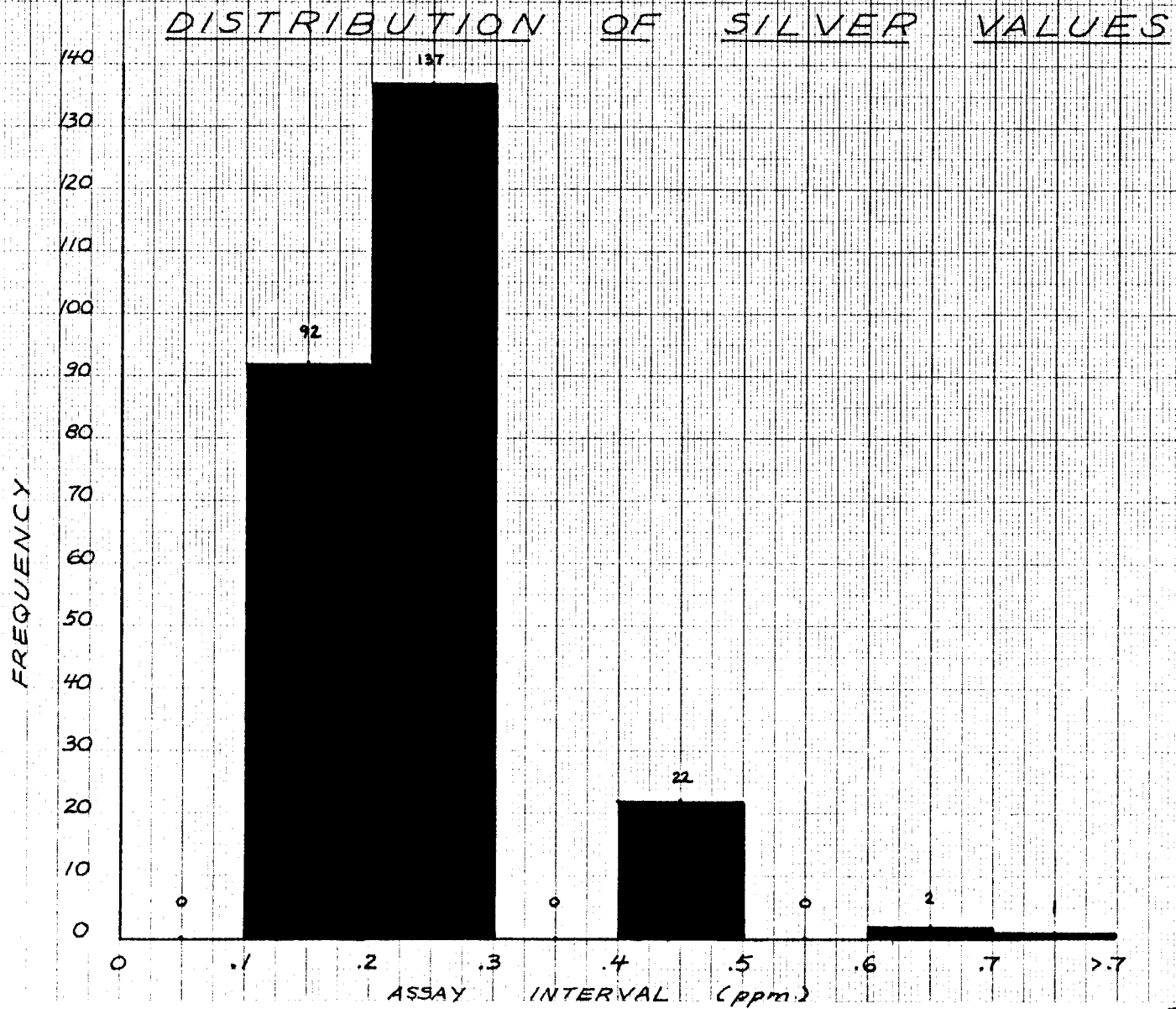


Figure 5

DISTRIBUTION OF URANIUM VALUES

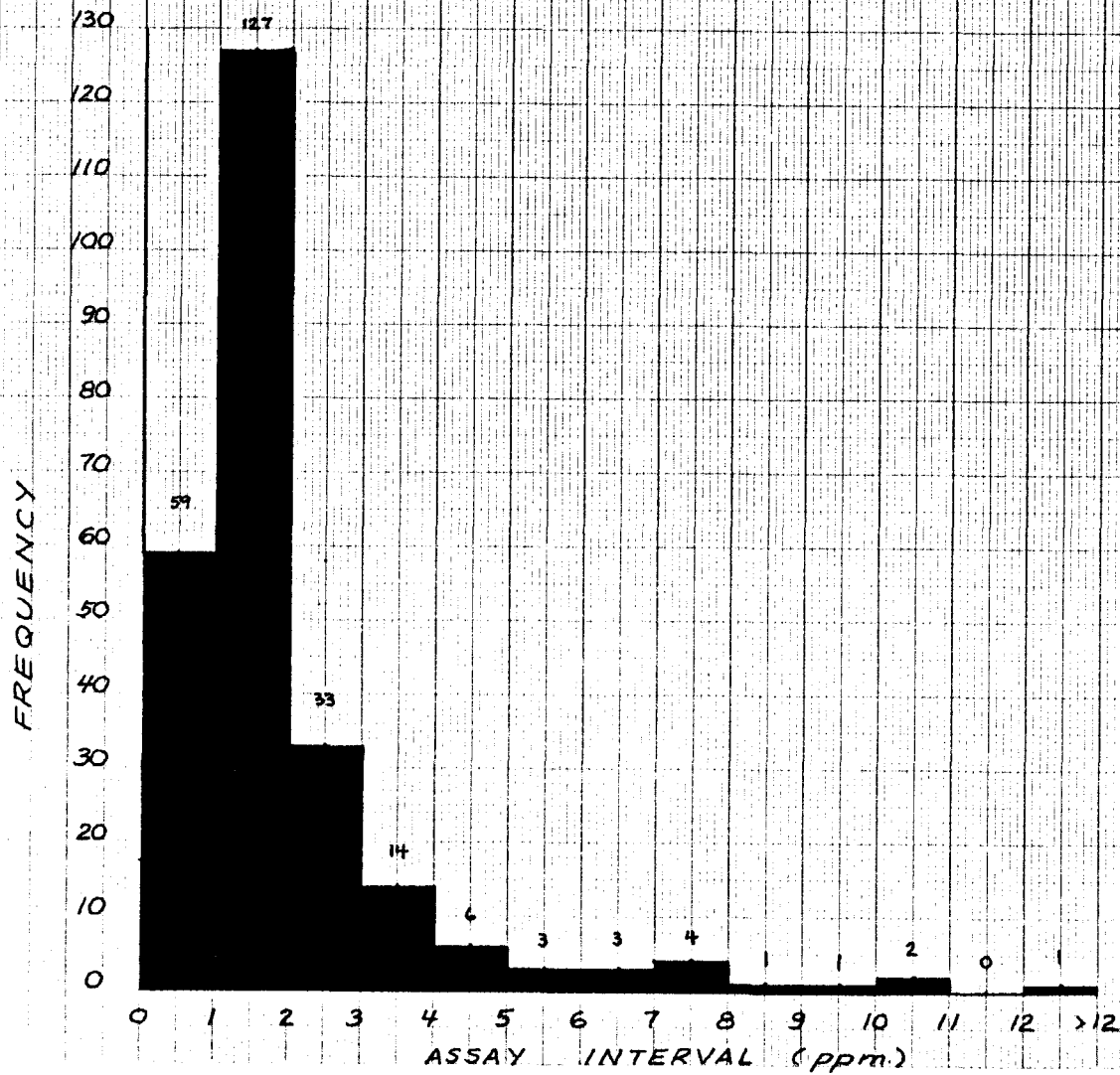


Figure 6

INTERPRETATION

The results for each element were plotted as separate histograms (see Fig. 1 to 6). Background values were considered to be the lowest 67% of the population. Threshold values were considered to be those in the bottom 67% to 95% of the population. Anomalous values were considered to be those in the top 5% of the population. The breakdown by element is as follows (values in ppm.) :

<u>ELEMENT</u>	<u>BACKGROUND</u>	<u>THRESHOLD</u>	<u>ANOMALOUS</u>
copper	less than 60	60 to 100	greater than 100
molybdenum	less than 2	2 to 3	greater than 3
lead	less than 6	6 to 8	greater than 8
zinc	less than 80	80 to 100	greater than 100
silver	less than .3	.3 to .5	greater than .5
uranium	less than 2	2 to 6	greater than 6

Using these groupings it is possible to define several anomalous zones on the property (see maps ONE to SIX in pocket).

Profile holes were dug to test the degree of difference in values obtained from different horizons within the same hole. They were 50 to 70 centimeters in depth and a representative sample of each recognizable soil layer was taken. A summary of the data is as follows. For more complete description, consult the data table.

COPPER PROFILES

-Values increased with depth with a peak at the B-C interface and a levelling off thereafter.

MOLYBDENUM PROFILES

-Values were generally constant with depth.

LEAD PROFILES

-Values were generally constant with depth.

7458

INTERPRETATION (continued)

ZINC PROFILES

- Values generally decreased with depth with an occasional small increase in the E zone.

SILVER PROFILES

- Values were generally constant with depth with a slight increase in the E zone.

URANIUM PROFILES

- Values were generally higher in the C horizon. They were lowest in the B horizon. Overall, values remained constant or increased with depth.

On the whole, profile holes indicated that reliable results could be expected if the same general horizon were sampled. This was particularly true for copper, molybdenum and uranium.

COPPER ANOMALIES

Copper anomalies are small and scattered. Main concentrations appear to be in the southeast corner and western margin of the sample area. Good values are associated with darker brown organic samples, often wet. This may indicate surface concentration by the organic matter. The most interesting area is the western margin where several values greater than 200 ppm. were obtained. Outcrop exposures in this area were andesitic.

MOLYBDENUM ANOMALIES

Molybdenum anomalies were very weak. Only three moderately strong holes were obtained: 20W 10N; 80W 50N; 120W 30N. The first was in a swamp; the second was wet; and the third was in a gully. This seems to indicate groundwater concentration.

LEAD ANOMALIES

Although statistically some values were anomalous, they were too weak to be a basis for more work.

ZINC ANOMALIES

Zinc appears to be concentrated mainly in the south central

INTERPRETATION (continued)

ZINC ANOMALIES (continued)

margin of the sample area. Higher values seem to be associated with lighter brown soils and not associated with higher values for other elements except weak lead (8 ppm.) and uranium (5 ppm.)

SILVER ANOMALIES

Silver values are dead except for one spot value at 150W 55N. As this is also high for copper, it reinforces the possibility of mineralization in this area.

URANIUM ANOMALIES

Uranium concentrations are generally weak. It is felt that higher values in the southeast reflect adsorption by highly organic soils.

RECOMMENDATIONS

The greatest potential appears to be in the high copper concentrations along the western margin of the sample area. Although much of the property is covered with a mantle of glacial gravelly clay numerous outcrop exposures were noted during the course of the present soil program. Further work should consist of geologic mapping at a scale of 1:5000 or larger to define outcrop pattern. Andesite exposures were noted close to anomalous copper samples. Extensions of this unit and possible contact with 'granitic' intrusions should be better defined. The next stage should probably be a geophysics survey to test the presence of buried conductors near the copper anomalies. Based on this work a decision to use percussion drilling could be reached.

CONSOLIDATED KALCO VALLEY MINES, LTD.

Statement of Exploration Expenditures

MUF CLAIM - RECORD NO. 13

July, 1979

1.	Collection of 254 soil samples @ \$5.00 by B. M. Fraser per contract attached (note: overcharge of \$5.00)	\$1275.00
2.	Chemical Analysis by Chemex Labs Ltd.	\$1611.63
3.	Report by B. M. Fraser	\$292.08
		<hr/>
	TOTAL	\$3178.71

STATEMENT OF QUALIFICATIONS.

The undersigned certifies that:

1. He is a graduate geologist (B. Sc. 1976 from University of British Columbia)
2. He performed a detailed soil sampling program on the MUF claim property from July 5 to July 10, 1979.
3. He does not own or expect to receive any financial interest in Consolidated Kalco Valley Mines, Ltd. or any of its properties.
4. The expenditures reported herein and claimed for assessment work credits are correct as to amount and type of work performed.



B. M. Fraser

August 1, 1979



INVOICE

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: ~~604-271-1111~~ 084-0221
AREA CODE: 604
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

TO: Consolidated Kalco Valley Mines
511 - 850 W. Hastings St.,
Vancouver, B.C.

CERTIFICATE NO. 48528-48533

INVOICE NO. 31283

ATTN: Mr. Andrew Milligan (Bryan Fraser)

DATE July 24/79

	DESCRIPTION	SUB-TOTAL	TOTAL
254	Analyzed for Cu, Mo, Pb, Zn, Ag & U @ \$6.60	\$1676.40	
254	Prep. charge (soil) @ \$0.45	114.30	
		1790.70	
	Less 10%	-179.07	
			\$1611.63

TERMS-NET 30 DAYS

78-040

1½% Per Month (18% Per Annum) Charged on Overdue Accounts

#201-8625 Osler St.
Vancouver, B.C.
July 3, 1979

Attention: Mr. Andrew Milligan
Consolidated Kalco Valley Mines Ltd.
#511-850 W. Hastings St.
Vancouver, B.C.

Re: Soil Geochemical Survey of the MUF Claim
Near Rampart Lake, Simalkameen Mining
Division

Dear Sir:

I, Bryan M. Fraser, do undertake to conduct a detail soil program on the MUF mineral claim on a contract basis for the price of \$5.00 per sample collected. It is understood that all expenses related to collection of the samples will be paid for by myself.

Yours truly,

Bryan Fraser

Bryan Fraser

/bmf

Accepted

A. Milligan

President
July 3 '79



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: [REDACTED]
 AREA CODE: 604
 TELEX: 043-52597

984-0221

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CERTIFICATE OF ANALYSIS

TO: Consolidated Kalco Valley Mines
 511 - 850 W. Hastings St.,
 Vancouver, B.C.

CERTIFICATE NO. 48528

INVOICE NO. 31283

RECEIVED July 13/79

ATTN: Mr. Andrew Milligan

CC. Mr. Bryan Fraser

ANALYSED July 23/79

SAMPLE NO. :	PPM Cu	PPM Mo	PPM Pb	PPM Zn	PPM Ag	PPM U
20W - 00N	36	1	4	48	0.1	1.0
10	<u>136</u>	<u>6</u>	2	14	<u>0.6</u>	<u>9.0</u>
15	<u>86</u>	1	6	38	<u>0.4</u>	<u>7.0</u>
20	98	1	6	62	<u>0.6</u>	<u>7.0</u>
25	52	1	4	40	0.2	3.0
30(1)	54	1	4	58	0.2	3.0
30(2)	60	1	6	68	0.4	2.5
30(3)	48	2	4	62	0.2	2.0
35	34	1	6	72	0.1	0.5
40	46	1	4	62	0.1	1.0
45	40	1	4	86	0.1	0.5
50	44	1	4	100	0.2	1.0
55(1)	58	1	4	56	0.2	2.5
55(2)	48	1	2	52	0.2	1.5
55(3)	44	1	4	66	0.2	1.0
55(4)	28	1	4	66	0.1	1.0
60	42	1	4	70	0.1	2.5
65	52	1	6	72	0.4	2.5
70	40	1	4	52	0.2	1.5
75	38	1	4	68	0.2	1.0
80(1)	52	1	4	58	0.1	1.5
80(2)	42	1	6	66	0.4	0.5
80(3)	34	1	6	66	0.1	0.5
85	44	1	6	68	0.1	0.5
90	62	1	4	66	0.1	1.5
95	42	1	4	74	0.2	1.0
100(1)	62	1	4	62	0.2	2.0
100(2)	62	1	4	70	0.2	1.5
100(3)	50	1	4	68	0.1	1.0
100(4)	46	1	4	72	0.1	1.0
20W - 100(5)N	32	1	4	54	0.1	1.0
30W - 5N	98	1	6	38	0.2	5.5
10	38	1	4	40	0.1	1.5
15	72	2	6	48	0.2	3.0
20	56	1	6	54	0.2	2.5
25	<u>120</u>	1	4	62	0.2	<u>8.5</u>
30	40	1	4	64	0.2	1.5
35	90	1	6	72	0.2	1.5
40	32	1	2	58	0.1	1.0
30W - 45N	40	1	4	76	0.1	1.0

7458



MEMBER
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 ASSOCIATION

CERTIFIED BY:

Hart Biddle



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CERTIFICATE OF ANALYSIS

TO: Consolidated Kalco Valley Mines
 511 - 850 W. Hastings St.,
 Vancouver, B.C.

CERTIFICATE NO. 48529
 INVOICE NO. 31283
 RECEIVED July 13/79
 ANALYSED July 23/79

ATTN: Mr. Andrew Milligan

CC: Mr. Bryan Fraser

SAMPLE NO. :	PPM Cu	PPM Mo	PPM Pb	PPM Zn	PPM Ag	PPM U
30W-50N	30	2	4	60	0.2	1.0
55	32	1	4	60	0.2	1.0
60	42	1	4	58	0.1	2.0
65	36	1	4	74	0.1	1.0
70	46	1	4	72	0.2	1.0
75	<u>112</u>	3	4	66	0.2	<u>13.0</u>
80	96	1	4	64	0.2	3.5
85	24	1	2	74	0.2	0.5
90	26	1	4	72	0.2	1.0
95	40	2	4	62	0.2	1.0
30W-100N	68	2	4	58	0.2	1.5
40W-100N	30	1	4	48	0.2	1.0
5	54	1	4	58	0.4	3.0
10	52	2	6	68	0.2	1.0
15	36	2	4	74	0.2	1.5
20	94	2	6	66	0.2	<u>10.0</u>
25	34	1	4	54	0.1	2.0
30	38	1	4	62	0.1	1.0
35(1)	48	1	4	46	0.1	1.0
35(2)	52	1	4	66	0.2	0.5
35(3)	34	1	4	76	0.1	0.5
35(4)	26	1	6	84	0.1	0.5
40	36	1	4	76	0.1	<u>7.0</u>
45	26	1	4	76	0.2	0.5
50	20	1	6	<u>118</u>	0.1	1.0
55	44	1	6	76	0.2	1.5
60	38	1	6	62	0.1	1.0
65	58	1	4	70	0.2	1.0
70	32	1	4	64	0.1	0.5
75	<u>112</u>	3	6	<u>102</u>	0.2	3.5
80	42	1	4	74	0.2	2.5
85	40	1	6	82	0.2	1.5
90	40	1	4	66	0.2	1.0
95	52	1	4	66	0.2	1.0
40W-100N	50	1	4	74	0.4	1.0
50W-00N	38	1	6	<u>148</u>	0.2	1.0
5	38	2	6	86	0.2	1.5
10	22	1	4	82	0.1	0.5
15	28	1	4	82	0.2	1.0
50W-20N	16	1	4	64	0.1	0.5



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CERTIFIED BY:

Harold Biddle



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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 48530

TO: Consolidated Kalco Valley Mines
 511 - 850 W. Hastings St.,
 Vancouver, B.C.

INVOICE NO. 31283

RECEIVED July 13/79

ANALYSED July 23/79

ATTN: Mr. Andrew Milligan

CC: Mr. Bryan Fraser

SAMPLE NO. :	PPM Cu	PPM Mo	PPM Pb	PPM Zn	PPM Ag	PPM U
50W-25N	44	1	4	70	0.2	1.5
30	24	1	2	64	0.1	1.0
35	62	1	4	90	0.1	2.0
40	120	1	2	74	0.2	2.5
45	62	2	4	58	0.1	2.0
50	42	1	4	52	0.2	1.0
55	36	1	4	66	0.1	1.0
60	38	1	4	58	0.1	1.5
65	72	3	4	74	0.2	2.5
70	58	1	2	64	0.2	2.0
75	36	1	2	58	0.2	0.5
80	46	1	2	52	0.2	1.0
85	36	1	2	58	0.2	1.0
90	52	1	4	56	0.2	1.0
95	136	4	2	88	0.2	2.0
50W-100N	48	2	2	70	0.2	0.5
50W-5S	26	1	2	62	0.2	1.0
50W-10S	54	2	4	70	0.2	1.0
60W-00N	56	1	4	92	0.4	0.5
10	24	1	2	78	0.2	1.0
20	28	1	4	62	0.2	1.0
30	40	2	4	74	0.2	1.0
40	94	1	2	56	0.4	0.5
50	32	1	2	52	0.2	1.0
60	38	1	4	68	0.2	1.0
70	28	1	2	58	0.4	1.0
80	38	1	2	44	0.2	1.0
90	64	1	4	48	0.1	0.5
60W-100N	52	1	4	56	0.2	1.0
70W-00N	32	1	6	84	0.4	1.5
10	28	1	6	60	0.4	1.0
20	44	1	6	88	0.2	1.0
30	30	1	4	134	0.2	2.5
40(1)	50	1	6	48	0.2	2.0
40(2)	34	2	4	64	0.1	1.0
40(3)	22	2	4	62	0.2	1.0
50	46	1	4	74	0.4	1.0
60	28	1	4	66	0.2	1.0
70	34	1	6	70	0.2	0.5
70W-80N	36	1	4	54	0.2	1.0



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CERTIFIED BY: *Hart Biddle*



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 TELEX: 043-52597

4.

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CERTIFICATE OF ANALYSIS

TO: Consolidated Kalco Valley Mines
 511 - 850 W. Hastings St.,
 Vancouver, B.C.

CERTIFICATE NO. 48531
 INVOICE NO. 31283
 RECEIVED July 13/79
 ANALYSED July 23/79

ATTN: Mr. Andrew Milligan CC: Mr. Bryan Fraser

SAMPLE NO. :	PPM Cu	PPM Mo	PPM Pb	PPM Zn	PPM Ag	PPM U
70W-90N	34	1	6	68	0.2	0.5
70W-100N	26	2	<u>14</u>	70	0.2	2.0
80W-00N	42	2	8	78	0.4	1.0
10	62	1	8	72	0.2	2.0
20	64	1	6	84	0.1	1.0
30	52	1	6	<u>108</u>	0.2	1.5
40	92	1	4	68	0.2	1.0
50(1)	58	5	4	98	0.2	<u>6.5</u>
50(2)	88	3	4	<u>124</u>	0.1	<u>6.5</u>
50(3)	66	4	4	<u>104</u>	0.2	<u>6.5</u>
60	74	1	6	58	0.2	1.0
70	24	1	4	66	0.2	1.5
80	36	2	4	58	0.2	1.0
90	16	1	4	60	0.2	1.0
80W-100N	26	1	4	52	0.2	3.5
90W-00N	42	1	6	<u>118</u>	0.2	1.5
10	40	1	4	88	0.2	2.0
20	34	1	6	<u>110</u>	0.2	< 0.5
30	46	1	4	78	0.1	4.0
40	40	1	6	<u>128</u>	0.2	5.0
50	42	2	6	66	0.1	2.0
60	44	1	4	58	0.1	1.0
70	40	1	4	54	0.1	3.0
80	34	1	6	66	0.2	1.5
90	38	1	6	54	0.1	0.5
90W-100N	20	1	<u>10</u>	64	0.1	0.5
100W-00N	66	1	6	<u>210</u>	0.2	5.0
10	28	1	2	<u>110</u>	0.1	3.5
20	54	3	4	92	0.1	1.0
30	34	2	2	82	0.1	3.0
40(1)	68	1	4	66	0.1	0.5
40(2)	66	1	4	80	0.2	0.5
40(3)	78	2	2	76	0.2	0.5
40(4)	52	1	4	76	0.1	0.5
50	26	1	2	92	0.2	0.5
55	20	1	2	38	0.2	2.0
60	94	1	2	72	0.2	1.5
65	56	1	4	58	0.1	1.5
70	94	2	2	80	0.1	2.0
100W-75N	<u>114</u>	1	4	92	0.1	2.5



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CERTIFIED BY: *Harold S. ...*



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CERTIFICATE OF ANALYSIS

TO: Consolidated Kalco Valley Mines
 511 - 850 W. Hastings St.,
 Vancouver, B.C.

CERTIFICATE NO. 48532
 INVOICE NO. 31283
 RECEIVED July 13/79
 ANALYSED July 23/79

ATTN: Mr. Andrew Milligan

CC: Mr. Bryan Fraser

SAMPLE NO. :	PPM Cu	PPM Mo	PPM Pb	PPM Zn	PPM Ag	PPM U
100W-80N	44	2	4	72	0.4	7.0
85	36	2	4	42	0.2	1.5
90(1)	52	1	4	46	0.2	2.5
90(2)	66	1	4	60	0.1	1.0
90(3)	52	1	4	60	0.2	1.5
90(4)	32	1	4	46	0.1	0.5
95	86	2	4	48	0.2	4.0
100W-100N	88	2	4	44	0.2	2.0
110W-00N	56	1	4	92	0.1	1.0
10	76	1	4	210	0.2	1.0
20	56	1	4	92	0.2	0.5
30	88	2	6	680	0.4	2.5
40	42	2	2	54	0.2	1.0
50	36	1	2	46	0.2	< 0.5
55	30	1	4	50	0.1	3.0
60	24	1	4	42	0.2	1.0
65	36	1	2	80	0.1	0.5
70(1)	38	1	2	38	0.1	0.5
70(2)	34	1	4	46	0.2	0.5
70(3)	14	1	4	50	0.1	0.5
75	56	1	4	68	0.2	2.5
80	42	1	2	52	0.1	1.0
85	60	1	4	52	0.1	1.0
90	60	1	4	44	0.2	1.5
95	44	1	4	44	0.1	0.0
110W-100N	46	1	2	42	0.1	1.0
120W-10N	38	1	4	68	0.1	0.5
20	38	1	2	48	0.2	1.0
30	30	11	2	54	0.1	0.5
40	26	1	2	52	0.1	0.5
50	36	1	2	54	0.2	0.5
55	44	1	4	32	0.1	0.5
60	64	1	4	38	0.2	0.5
65	42	1	4	42	0.2	1.0
70(1)	34	1	4	40	0.1	1.5
70(2)	28	2	2	60	0.1	0.5
70(3)	12	1	2	38	0.1	0.5
75	28	1	2	58	0.1	0.5
80	40	1	4	48	0.2	0.5
120W-85N	32	2	4	58	0.2	0.5



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CERTIFIED BY:

Handwritten signature: Hart Biele



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 CANADA V7J 2C1
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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 48533
 INVOICE NO. 31283
 RECEIVED July 13/79
 ANALYSED July 23/79

TO: Consolidated Kalco Valley Mines
 511 - 850 W. Hastings St.,
 Vancouver, B.C.

ATTN: Mr. Andrew Milligan CC: Mr. Bryan Fraser

SAMPLE NO. :	PPM Cu	PPM Mo	PPM Pb	PPM Zn	PPM Ag	PPM U
120W-90N	54	2	4	48	0.2	1.0
130W-00N	38	2	4	56	0.2	1.0
10	30	1	4	82	0.2	1.0
20	50	1	<u>10</u>	62	0.2	1.0
30	10	1	2	48	0.1	0.5
40	20	1	4	48	0.1	1.5
50	32	2	6	54	0.1	1.5
55	62	2	4	74	0.2	1.0
60	100	1	4	54	0.1	1.0
65	<u>156</u>	2	4	64	0.2	1.0
70	46	1	4	38	0.2	0.5
75	28	1	2	36	0.1	1.5
80	34	1	4	58	0.2	1.5
85	28	2	4	44	0.1	1.0
130W-90	<u>126</u>	1	4	32	0.4	2.0
140W-00N	36	2	6	78	0.2	3.0
10	100	2	6	66	0.4	3.0
20	54	2	4	38	0.2	1.0
30	32	2	4	66	0.1	1.0
40(1)	42	1	2	36	0.1	2.5
40(2)	42	1	2	38	0.1	1.0
40(3)	56	1	4	58	0.2	0.5
40(4)	38	1	2	30	0.1	1.5
50	46	1	2	40	0.1	1.0
55	30	1	2	40	0.1	2.0
60(1)	56	1	2	40	0.1	4.5
60(2)	80	1	2	56	0.2	1.5
60(3)	38	2	2	82	0.1	4.0
65	42	1	4	82	0.1	3.5
70	50	1	2	42	0.2	1.5
75	58	1	2	64	0.1	1.5
80	44	1	2	36	0.1	1.5
85	26	1	2	32	0.1	0.5
90(1)	<u>108</u>	1	2	54	0.2	1.5
90(2)	58	1	4	70	0.2	0.5
90(3)	20	1	2	46	0.1	0.5
90(4)	12	1	4	38	0.1	1.0
95	42	1	2	68	0.2	0.5
140W-100N	46	1	2	66	0.2	0.5
150W-00N	44	1	4	46	0.2	< 0.5



MEMBER
 CANADIAN TESTING
 ASSOCIATION

CERTIFIED BY: *Hart Riddle*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: [REDACTED] 984-0221
 AREA CODE: 604
 TELEX: 043-52597

7

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Consolidated Kalco Valley Mines
 511 - 850 W. Hastings St.,
 Vancouver, B.C.

CERTIFICATE NO. 48534

INVOICE NO. 31283

RECEIVED July 13/79

ATTN: Mr. Andrew Milligan

CC: Mr. Bryan Fraser

ANALYSED July 23/79

SAMPLE NO. :	PPM Cu	PPM Mo	PPM Pb	PPM Zn	PPM Ag	PPM U
150W-10N	<u>210</u>	1	8	66	0.4	<u>10.0</u>
20	56	1	1	68	0.2	2.0
30	30	1	2	42	0.2	1.0
40	54	1	2	68	0.4	1.0
50	68	1	2	46	0.2	1.0
55	<u>300</u>	1	4	38	<u>0.8</u>	4.0
60	76	1	4	54	0.4	1.0
70	<u>240</u>	1	2	26	0.4	4.0
75	28	1	4	44	0.2	0.5
80	38	1	4	58	0.2	1.0
85	52	1	2	38	0.4	1.0
90	32	1	4	74	0.2	0.5
95	36	1	2	38	0.2	1.0
150W-100N	40	1	4	42	0.1	< 0.5



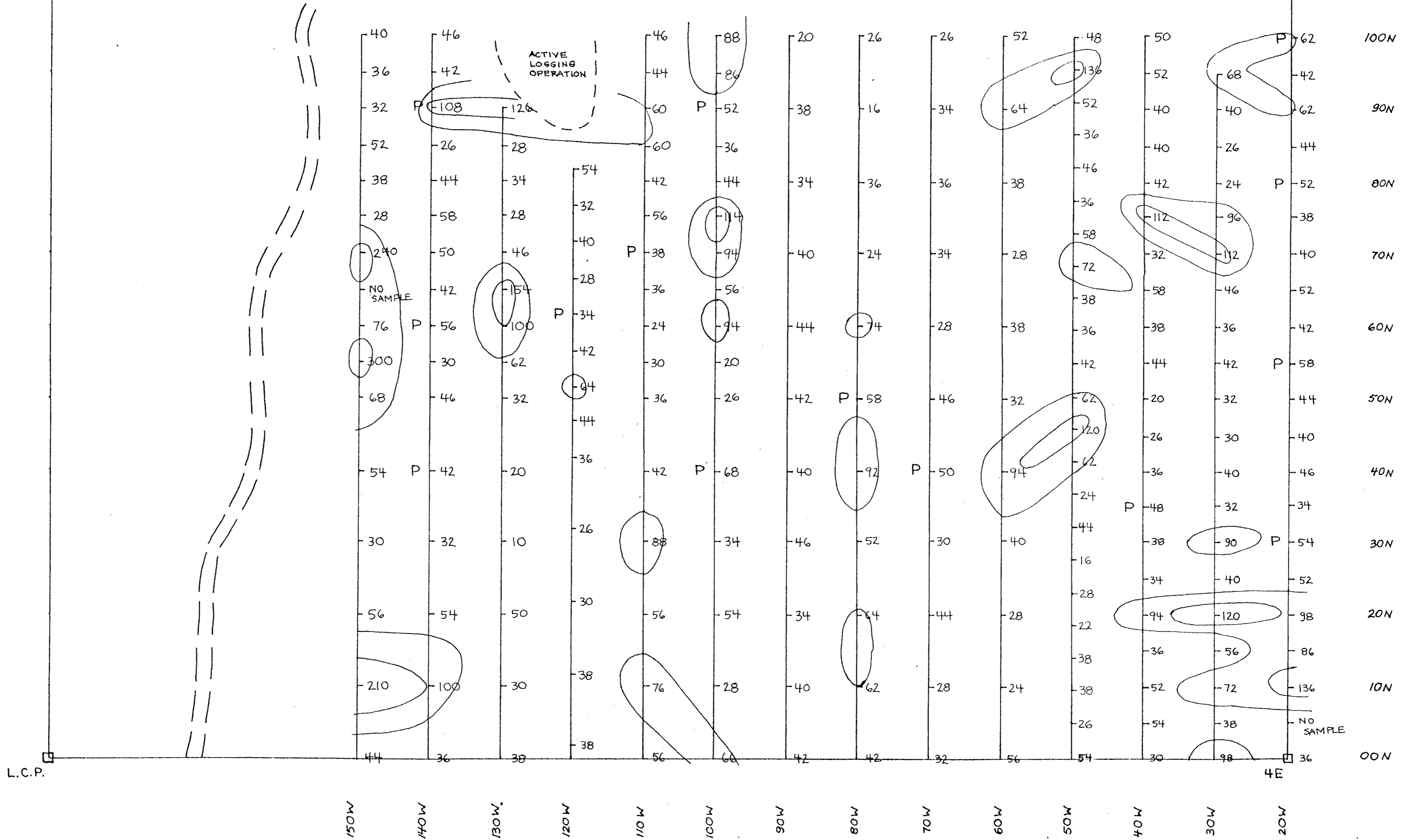
MEMBER
 CANADIAN TESTING
 ASSOCIATION

CERTIFIED BY:

Harri Biddle

CLAIM LINE

CLAIM LINE



L.C.P.

4E

LEGEND

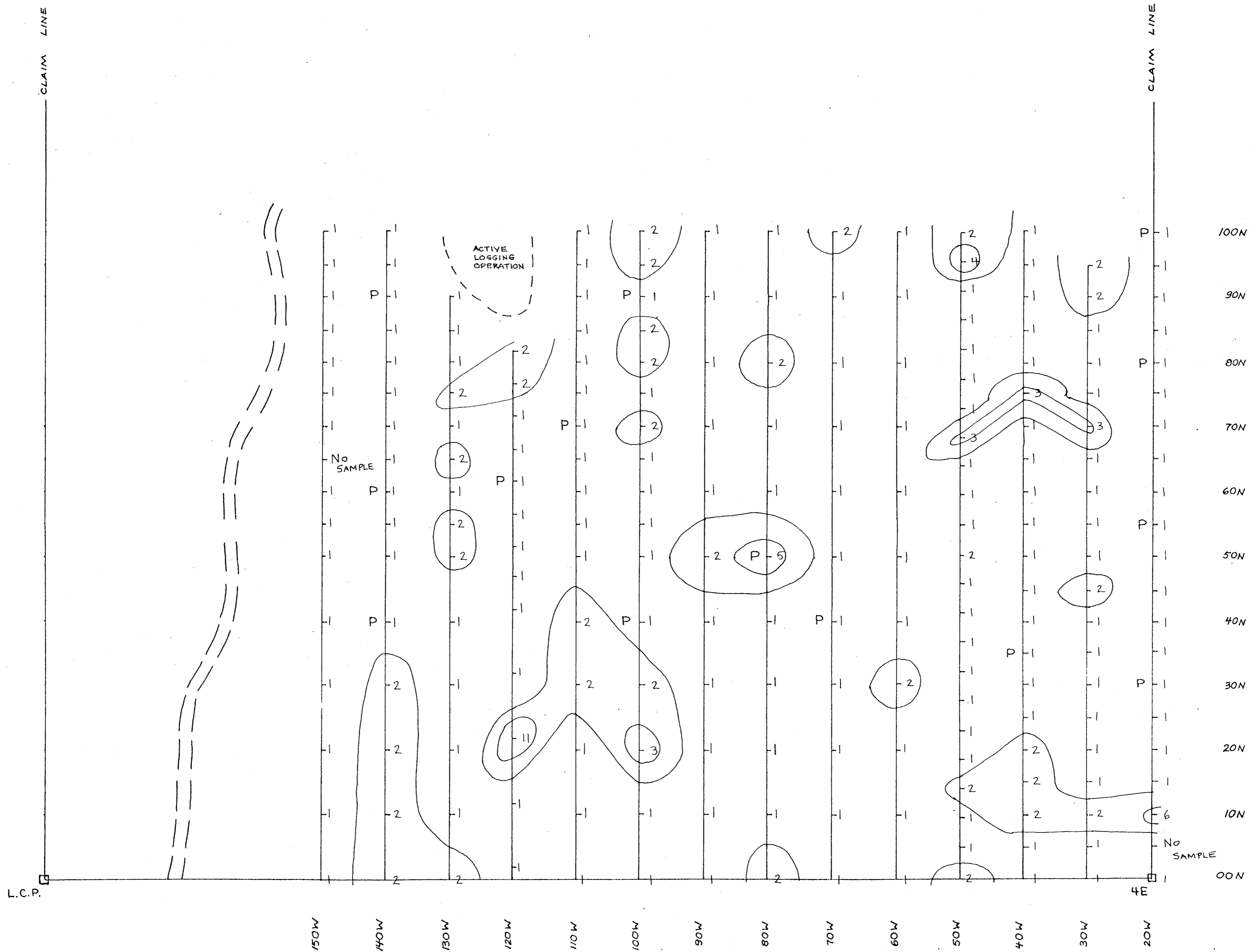
COPPER

178 ← ASSAY VALUE OF THE ABOVE ELEMENT IN PPM. P — PROFILE HOLE

0 100 200 300 400 500
meters

WORK BY B.M. FRASER JULY, 1973

CONSOLIDATED KALCO VALLEY MINES LTD.
 MUF CLAIM **7458**
 DETAILED SOIL GEOCHEMISTRY
 MAP NUMBER ONE



LEGEND

MOLYBDENUM

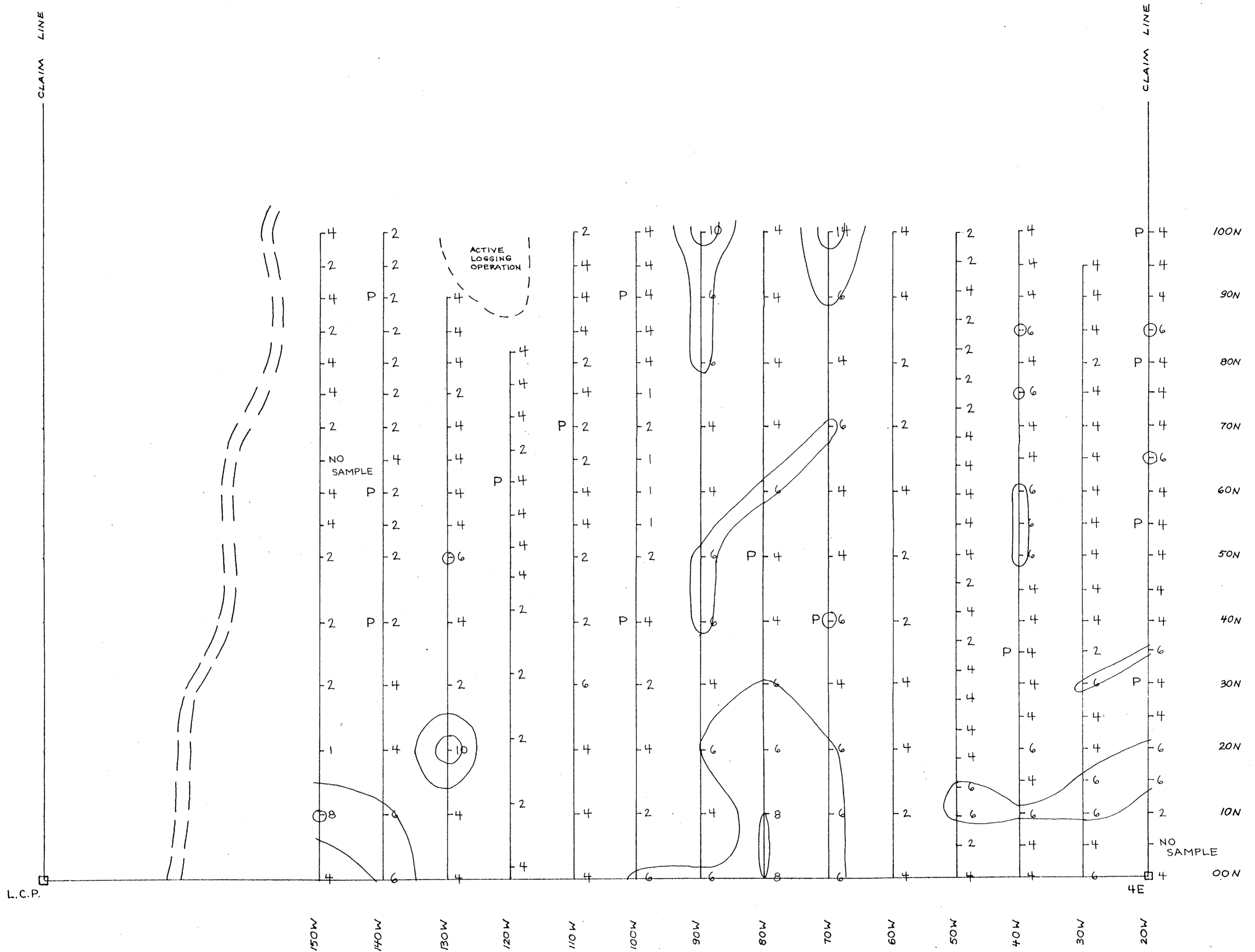
--- ASSAY VALUE OF THE ABOVE ELEMENT IN PPM.

P — PROFILE HOLE

0 100 200 300 400 500
meters

WORK BY B.M. FRASER JULY, 1979

CONSOLIDATED KALCO VALLEY
MINES LTD.
MUF CLAIM **7458**
DETAILED SOIL GEOCHEMISTRY
MAP NUMBER TWO



LEGEND

LEAD

78 ← -- ASSAY VALUE OF THE ABOVE ELEMENT IN PPM.

P — PROFILE HOLE

0 100 200 300 400 500
meters

WORK BY B.M. FRASER JULY, 1979

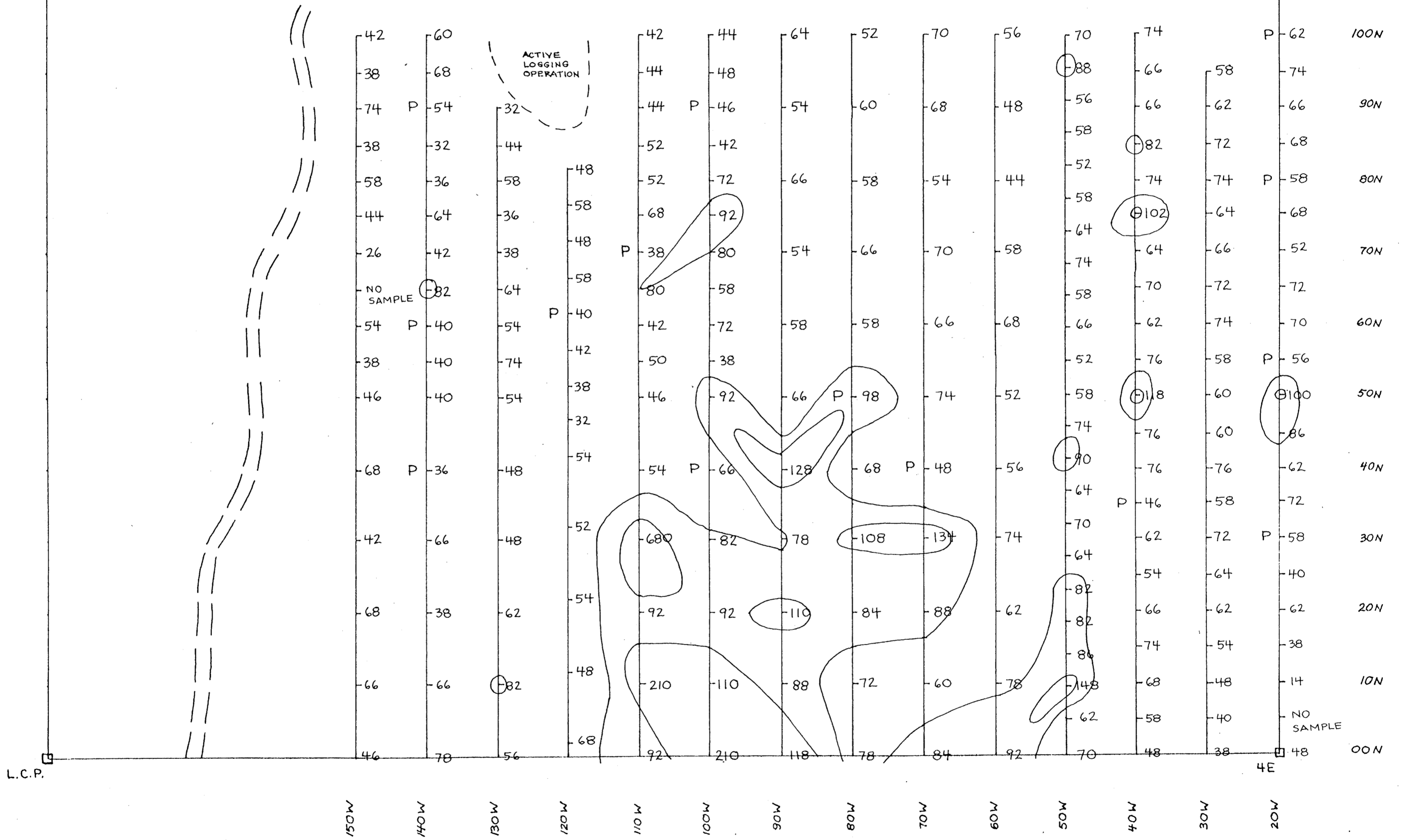
CONSOLIDATED KALCO VALLEY MINES LTD.
MUF CLAIM

7458
NO.

DETAILED SOIL GEOCHEMISTRY
MAP NUMBER THREE

CLAIM LINE

CLAIM LINE



LEGEND

ZINC

78 ← -- ASSAY VALUE OF THE ABOVE ELEMENT IN PPM. P — PROFILE HOLE

0 100 200 300 400 500 meters

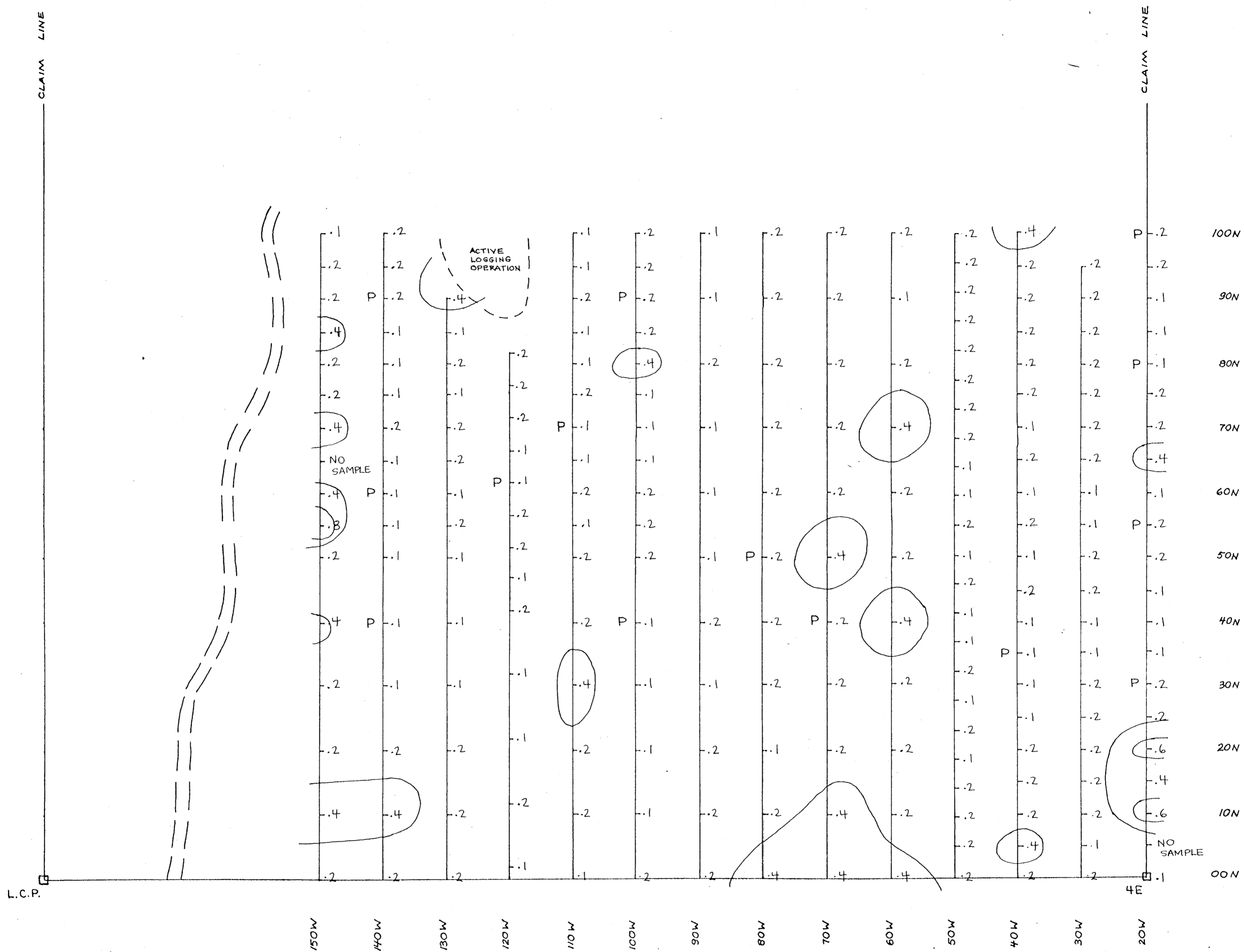
WORK BY B.M. FRASER JULY, 1979

CONSOLIDATED KALCO VALLEY MINES LTD.

MUF CLAIM **7458**

DETAILED SOIL GEOCHEMISTRY

MAP NUMBER FOUR



LEGEND

SILVER

78 + -- ASSAY VALUE OF THE ABOVE ELEMENT IN PPM. P - PROFILE HOLE

0 100 200 300 400 500 meters

WORK BY B.M. FRASER JULY, 1979

CONSOLIDATED KALCO VALLEY MINES LTD.

MUF CLAIM

MINERAL RESOURCES BRANCH

ASSESSMENT REPORT

7458

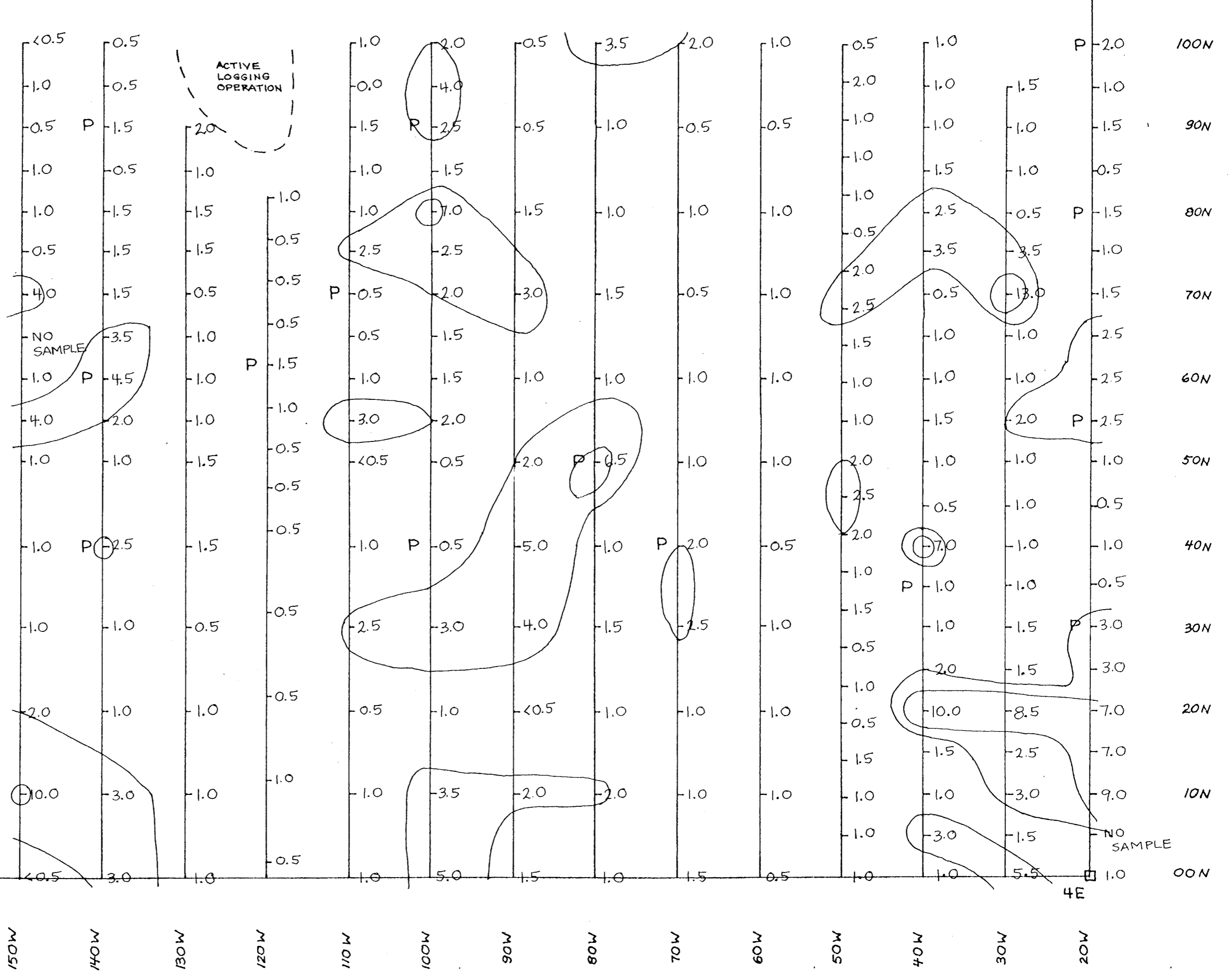
NO. _____

DETAILED SOIL GEOCHEMISTRY

MAP NUMBER FIVE

CLAIM LINE
L.C.P.

CLAIM LINE
4E



LEGEND

URANIUM

78 ← -- ASSAY VALUE OF THE ABOVE ELEMENT IN PPM. P — PROFILE HOLE

WORK BY B.M. FRASER JULY, 1979

CONSOLIDATED KALCO VALLEY MINES LTD.
MUF CLAIM **7458**
DETAILED SOIL GEOCHEMISTRY
MAP NUMBER SIX