3832

GEOCHEMICAL REPORT

on the

Moosehorn Group

(WAS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32; PIT 69, 70, 71, 72, 73, 74, 75, 76)

Eleven Miles Southwest of Chukachida Lake, B.C.

Lat. 57° N ; Long. 127° W

94 E /6 E

Owned by: T.C. Scott

Work done for: SUMAC Mines Ltd.

Field Work

August 6, 1971 to August 11, 1971

By: T.C. Scott

Date: July 26, 1972.

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Introduction

The Moosehorn Group of Claims was staked on behalf of and by T.C. Scott during the period July 1 - 9, 1971. Beginning on August 2 continuing through to August 11, 1971, a reconnaissance soil survey was carried out on the claim group.

Operations were conducted from a base camp located at the west end of Chukachida Lake which is 12 miles northeast of the claim group.

The field crew commuted daily to the working area in a helicopter.

Location and Access

The Moosehorn Group lies on the eastern flank of the Spatsizi Plateau in the upper Stikine River area of northern British Columbia. The group is centered near Lat. 57°29' North, Long. 127°13' West. The elevation of the property varies from approximately 4,500 ft. to 6,300 ft. above mean sea level.

Access to the claim group is by helicopter from one of the following lakes: Metsantan, Toodoggone or Chukachida. All of these can be serviced by float equiped aircraft. The closest road-serviced supply point is Dease Lake which lies 125 miles to the west.

Climate and Topography

The project area is snow covered from early October until mid-June. Some patches of snow, especially in creek valleys, remain until late July. The brief summer is usually cool with frequent rain. However, the summer of 1971 was unusually dry and warm.

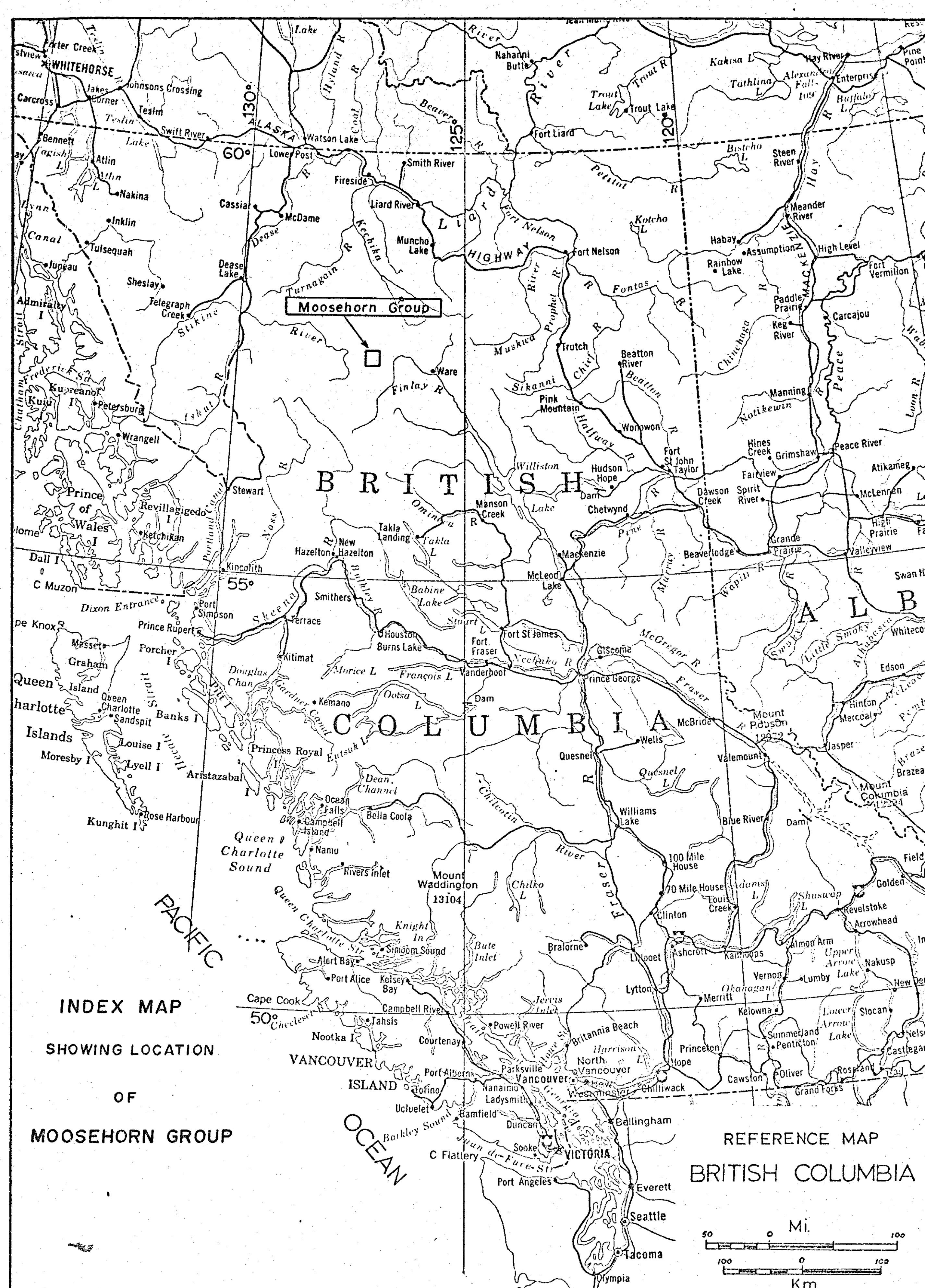

INDEX MAP
SHOWING LOCATION
OF
MOOSEHORN GROUP
Moosehorn Group
REFERENCE MAP
BRITISH COLUMBIA
BRITISH
COLUMBIA
PACIFIC
OCEAN
ALASKA HIGHWAY
60°
55°
50°
130°
125°
120°
Mi.
50
0
100
Km.
100
0
100
WHITEHORSE
Watson Lake
Lower Post
Cassiar
McDame
Dease Lake
Telegraph Creek
Fort Liard
Fort Nelson
Liard River
Muncho Lake
Fireside
Smith River
Ware
Stewart
Prince Rupert
Terrace
Kitimat
Smithers
Houston
Burns Lake
Vanderhoof
Prince George
Quesnel
Williams Lake
Dawson Creek
Fort St John
Mount Waddington 13104
Vancouver
VICTORIA
Seattle
Tacoma
Olympia
Kamloops
Penticton
Revelstoke
Golden
Jasper
Queen Charlotte Islands
VANCOUVER ISLAND
Turnagain
Kechika
Finlay R
Stikine

Fig. 1

The claim group is on a southwesterly exposed slope that averages about 30°. Vegetation on the property consists of "buck brush" and willows on the valley floor, a fringe of dense alpine balsam and spruce along the base of the slope and alpine meadow and tundra above an elevation of 5,000 ft. The area of alpine meadows and tundra is sometimes interrupted by solifluction slopes but rarely by talus.

Base Map

The base map was prepared by the photographic enlargement of a 1:250,000 Federal Government topographic sheet to a scale of 1:63,360. This map was in turn enlarged to 1" = 1,320' by drafting techniques. A contour interval of 500 ft. was used. Because the accuracy of the base map would be reduced if a further enlargement was made to accommodate the sample locations, a second map on a scale of 1" = 600' was constructed. This map displays a slope corrected plan of the sample stations and the respective assay values.

Field Procedure

The chaining of the lines and the collecting of soil samples were done simultaneously. Samples were taken at 200' slope-chained intervals. Each station was marked by a coloured plastic flag which had a sample number written on it. Intermediate points along the line were also marked with plastic flags. The starting and finishing points for each line were marked on an air photograph for control.

At each station, holes were dug with a mattock and soil samples were taken with a stainless steel trowel from the "B" horizon.

The soil samples were collected in high-wet-strength kraft soil sample bags.

Sample Preparation

The samples were transported from the field to the base camp where they were dried and sieved through stainless steel screens to -80 mesh. The -80 mesh material was placed in numbered coin envelopes and shipped to Chemex Labs. Ltd., 212 Brooksbank Ave., North Vancouver, B.C., for analysis.

Analytical Procedures

All of the samples were analysed for gold, silver, lead and copper. The majority of the samples were later analysed for zinc. The following analytical procedures were used:

Procedure for the Analysis of Trace Gold in Soil and Silt Materials.

Step 1. The sample is dried at 110°F, sieved to -80 mesh and stored in a coin envelope.

Step 2. A 2 gm sample is weighed into a 100 ml beaker.

Step 3. 15 ml of aqua regia (3 parts HCl to 1 part HNO_3) is added to the pulp.

Step 4. After sitting for 15 minutes, the sample is heated to dryness.

Step 5. More aqua regia is added and the sample is again evaporated to dryness.

Step 6. The soluble salts are dissolved in 25% HCl and mixed.

Step 7. The gold is extracted as the bromide in 5 ml. of methyl isobutyl ketone.

Step 8. The organic layer is then analyzed on the Atomic Absorption Spectrophotometer against prepared standards.

Geochemical Laboratory Procedure for the Handling and Analyses of Soil and Silt Materials Containing Traces of CU, MO, ZN, NI and CO.

Step 1. Samples are dried @ 110°F and then sieved to -80 mesh consistency through a nylon and stainless steel sieve. Presieved materials are processed starting at Step 2.

Step 2. 0.50 grams of the dry pulp is weighed into a calibrated test tube.

Step 3. 3 mls. of perchloric acid and 1 ml. of nitric acid is added to sample.

Step. 4. Samples are digested at low heat initially and then the

temperature is raised to 203°C. Digestion time 2 to 3 hours.

Step 5. Digested samples are cooled, made up to 25 ml. volume with distilled water and solutions are thoroughly mixed.

Step 6. Analyses for Cu, Mo, Zn, Ni and Co by Atomic Absorption procedures. Detection limits as per our brochure.

Bruce W. Brown,
Manager Laboratory Division.

Soil Development

Although the area was glaciated relatively recently, field observations indicate that the soil is largely residual in character. The steeper slopes show a considerable amount of down-hill creep (solifluction). Minor talus occurs up-hill from the soil sample lines.

The soil profile is only partially developed. Although the "B" horizon is distinct, further sub-divisions are difficult to determine. The material taken as samples can be classified as being from the B_f horizon.

Results

Statistical distributions of the results were obtained and the distributions were plotted as histograms. Because of the limited number of samples involved, the data collected on this survey were combined with those collected on an adjacent property of similar physiographical and geological environments (Mac and Lair Groups). This provided a larger population for the interpretation of the geochemical nature of the area. The limits of the zinc anomalies were based on the distribution of zinc values obtained from the detailed soil geochemistry on the Mac and Lair Claim Groups.

Interpretation

The statistical distributions of the results were all found to be approximately log-normal and multi-modal. Since the standard statistical parameters have little meaning in the case of multi-modal distributions, these

were not calculated.

The limits of background and anomalous populations were based on the natural grouping of values described by the multi-modal histograms (fig. 2). The mode containing the lowest values was considered to be background while the mode containing the highest values was considered to represent an anomalous condition. Past experience has shown that the background for Gold in this area is >30 ppb, thus an arbitrary value of 1,000 ppb was used to define the lower limit of an anomalous condition.

The values, when plotted on a 1" = 600' plan of the sample stations, delineate a zone approximately 5,000 ft. long which is anomalous in Ag, Pb, Zn and Cu.

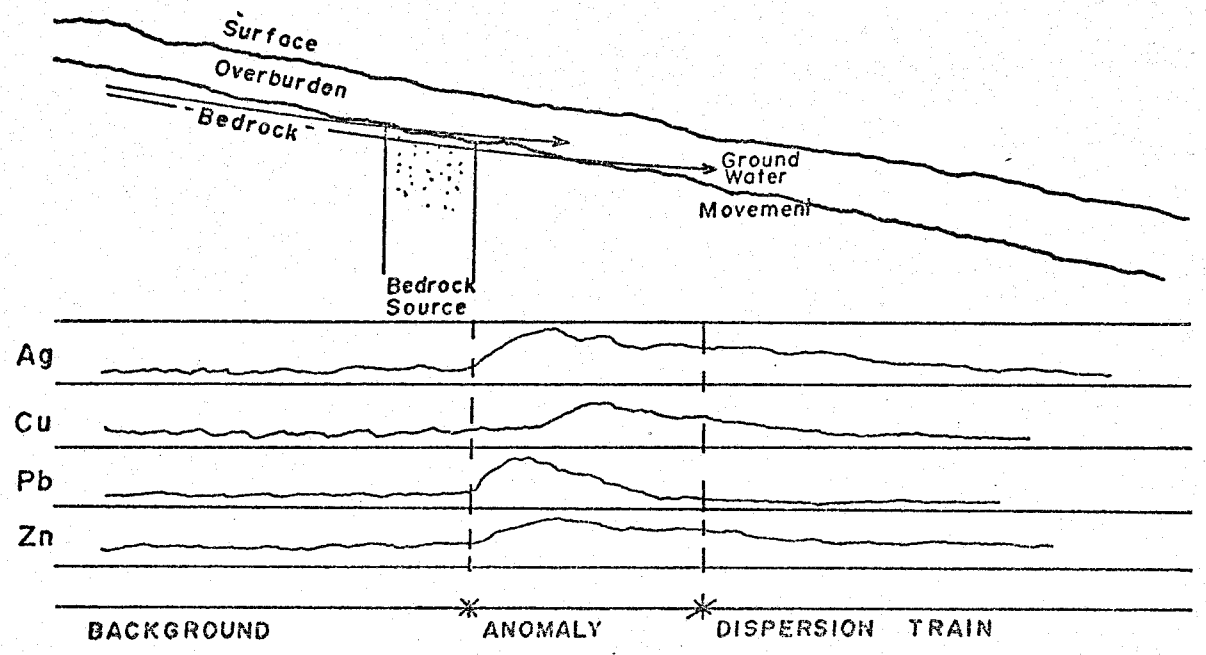
The ground water moving down-hill from the source disperses the metallic elements at different rates depending on the physiochemical nature of the ground water and the chemical nature of the elements involved. Thus, the width and exact position of the source material is difficult to determine.

Two conclusions can be made from the distributions :

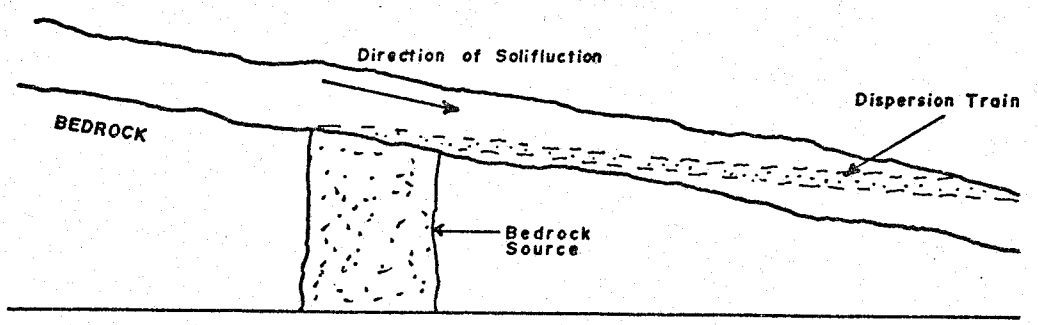
1) The anomalous conditions in the soil are down-hill from the actual source.

2) Pb, being very immoble, forms an anomaly very close to the source material.

A typical profile would be as indicated in the following diagram :



Gold is dispersed from a source primarily by mechanical solifluction of residual material. A typical profile would be as indicated in the following diagram :



Conclusions

The principle area of interest occurs on the lower slopes of the property and extends across 3 of the lines. The anomalous zone appears to be approximately 5,000 ft. long and of undetermined width.

As experience in British Columbia to-date has shown, there is no definite relationship between the values attained from the geochemical analysis of soils and the metal content of underlying bedrock.

Further investigation of the anomalous area defined by this survey is warranted.

T. C. Scott

Approved:
July 26, 1972.

Gordon R. Hilchey, P. Eng.

DECLARATION OF EXPENSES

Moosehorn Group

Men Employed on Survey

Brent Patriquin	Aug. 6 - 11	5 days	@$ 18.27*	= $	91.35
Barry Turner	Aug. 6 - 11	5 days	@$ 18.27*	=	91.35
T. Cameron Scott	Aug. 6 - 11	1½ days	@$ 30.77*	=	46.15
Dr. T. Rodgers		½ day	@$100.00	=	50.00
C. J. Sullivan		½ day	@$150.00	=	75.00
		12½ man days			

Direct Field Expenditure (see Appendix)	12½ man days	@$136.25	$ 1,703.12
Chemical Analysis	145 samples (4 elements)	@$ 3.20	$ 464.00
	106 samples (1 element)	@$ 1.00	$ 106.00
Drafting, reproduction, typing, etc.			-
			$ 2,626.97

* Rates include C.P.P., W.C.B., Vacation Pay and U.I.C. where applicable. Monthly rates were converted to daily rates (based on 26 day month).

Certified Correct T. C. Scott

DECLARATION OF QUALIFICATION

Thomas Cameron SCOTT

Education: - 4 years of University at U.B.C. towards a B.Sc. in Geology (major).

- requires Eng. 100 to complete B.Sc. degree.
- Geological and related courses completed:
    - Introductory Geology, Mineralogy, Mineralography, Structural Geology, Optical Mineralogy, Petrology, Petrography, Economic Geology, Geochemistry, Sedimentology, Theories of Ore Search, Mineral Evaluation, Rock Mechanics.

Experience: 1963, 1964 (Summers)

Newconex Canadian Exploration

- General reconnaissance
    - stream and soil geochemistry
    - prospecting
    - geological mapping

ref.: R. Knutsen (Toronto, Ontario)

1965, 1966 (Summers)

Noranda Exploration Ltd.

- General Reconnaissance - Party Chief
    - stream and soil geochemistry
    - geological mapping
- Detailed Property Work - Party Chief
    - soil geochemistry
    - sampling
    - geophysical surveys
    - road building
    - geological mapping
    - property evaluations

ref.: Dr. A. Soregaroli (Vancouver, B.C.)

1967 (Summer)

Northstar Copper Mines

- Detail Property Work - Party Chief

  - soil geochemistry
  - geological mapping
  - diamond drilling

ref.: Dr. W.H. White, P. Eng. (University of B.C.)

1968 (Spring)

West Coast Mining and Exploration

- Detailed geological mapping

ref.: H. Veerman, P. Eng. (West Vancouver)

1968 to 1969

Arbutus Mining and Exploration Ltd.

- in charge of the direction and execution of all exploration activities:

  - stream and soil geochemistry
  - prospecting
  - geological mapping
  - geophysical surveys
  - diamond drilling

ref.: H. Veerman, P. Eng. (West Coast Mining and Exploration)

1970 (6 months)

Frontier Explorations Ltd.

- in charge of the direction and execution of geological mapping, trenching, sampling and diamond drilling.

ref.: E.O. Chisholm, P. Eng. (Vancouver, B.C.)

1971 to-date

Sumitomo Metal Mining Canada Ltd.

- Party chief in charge of reconnaissance exploration.

  - stream and soil geochemistry
  - geological mapping

The above Declaration of Qualification is true and correct to the best of my knowledge.

July 26, 1972

Gordon R. Hilchey, P. Eng.

PITMAN PROJECT - 1971

Direct Field Expenditures

Camp Equipment	$ 4,257
Fuel - gasoline	2,912
- fuel oil, propane	399
Catering	9,351
Communications	1,506
Transportation	20,321
Helicopter Rental	41,913
	$80,659

Total Man Days

Period	Days	No. of Men	Man Days
June 8 - Aug. 4	58	6	348
Aug. 5 - Aug. 31	27	8	216
Sept.1 - Sept. 7	7	4	28
			592

Direct Field Expenditures per Man Day

$$\frac{\$80,659}{592} = \$136.25$$

Moosehorn Group

Reconnaissance Geochemistry - Maps: Pitman 71-6a, b, c, d, e.

1. Gold: Plotting intervals of 100, 500 and 1000 ppb were used.

2. Silver, Lead, Copper: Plotting intervals were based on analysis of respective histograms.

3. Zinc: Plotting interval based on zinc histogram of MGS Grid samples on the Mac and Lair Groups.

It was felt that the Moosehorn Group was physiographically and geologically similar to the Mac and Lair Groups, thus the results of the reconnaissance sampling from both areas were combined to give a higher sample population.

Appendix

S/R Pitman - Log Normal Distribution of Ag in ppm.
- McClair and Moosehorn Anomalies - RGS + P13-413 to 558

Class No.	Range from	Range to	Mid Point	Population
1		.420	.354	109
2	.420	.595	.500	40
3	.595	.840	.705	
4	.840	1.18	.999	22
5	1.18	1.66	1.41	18
6	1.66	2.36	1.99	20
7	2.36	3.34	2.71	15
8	3.34	4.72	3.98	10
9	4.72	6.65	5.60	14
10	6.65	9.40	7.95	9
11	9.40	13.3	11.2	2
12	13.3	18.7	15.7	7
13	18.7	26.4	22.3	4
14	26.4	37.5	31.5	3
15	37.5	52.5	42.5	273 Total
16	52.5	74.5	62.5	
17	74.5	106.0	89.5	

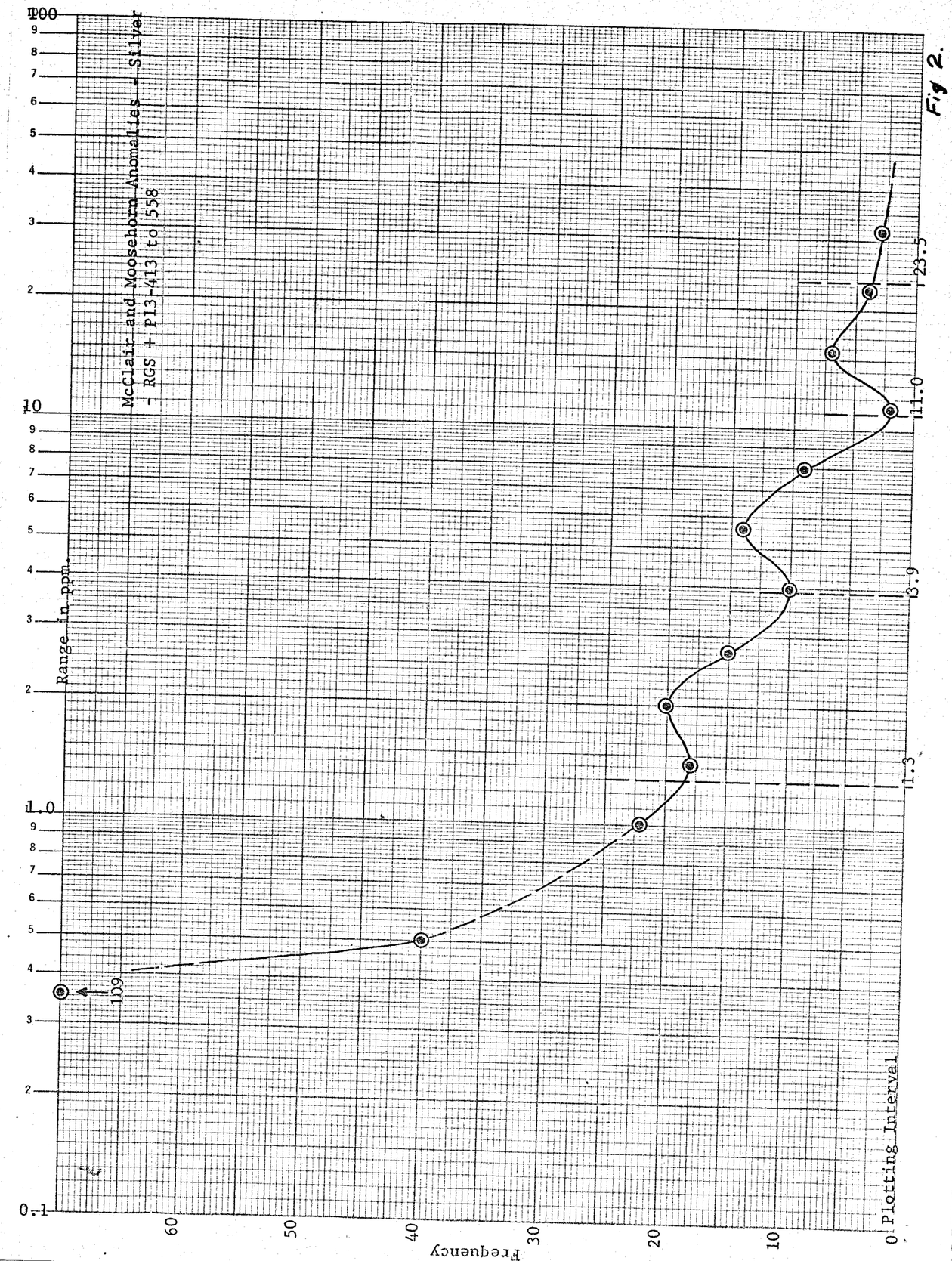
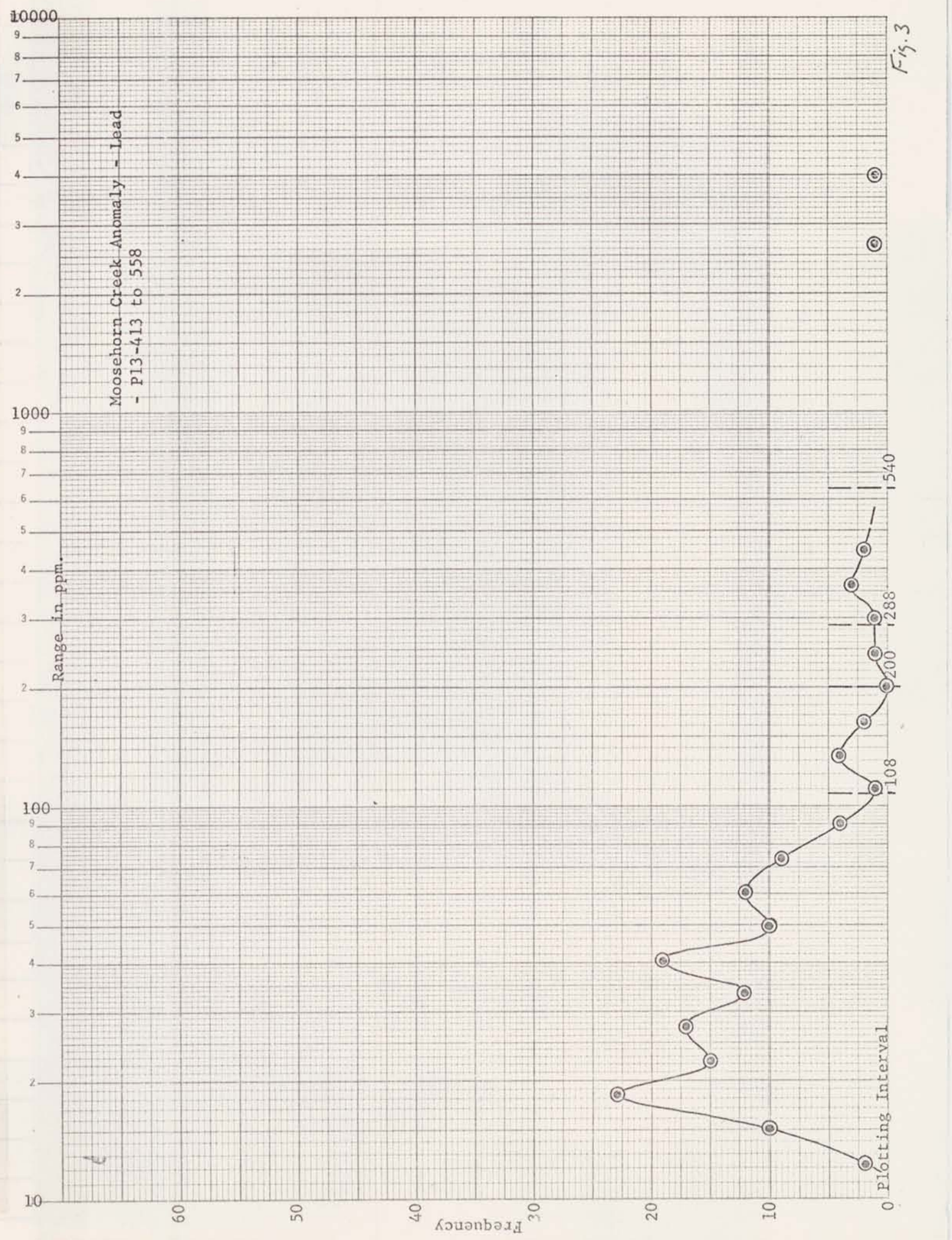


Fig 2.

S/R Pitman - Log Normal Distribution of Pb in ppm.
- Moosehorn Creek Anomaly

Class No.	Range from	to	Mid-Point	Population
1	2.7	3.3	3.0	
2	3.3	4.1	3.7	
3	4.1	4.9	4.5	
4	4.9	6.1	5.5	
5	6.1	7.4	6.7	
6	7.4	9.1	8.2	
7	9.1	11.1	10.0	
8	11.1	13.5	12.2	2
9	13.5	16.5	15.0	10
10	16.5	20.2	18.3	23
11	20.2	24.6	22.3	15
12	24.6	30.1	27.2	17
13	30.1	36.7	33.2	12
14	36.7	44.8	40.6	19
15	44.8	54.7	49.5	10
16	54.7	66.8	60.4	12
17	66.8	81.5	73.7	9
18	81.5	99.5	90.1	4
19	99.5	121.5	110.2	1
20	121.5	148.3	134.2	4
21	148.3	181.1	163.9	2
22	181.1	221.1	200.1	
23	221.1	270.03	244.3	1
24	270.03	329.7	298.3	1
25	329.7	402.5	364.3	3
26	402.5	491.4	444.8	2
27	491.4	599.8	542.9	
28	599.8	732.3	662.7	
29	732.3	893.9	809.1	
30	893.9	1091	987.6	
31	1091	1332.1	1206	
32	1332.1	1626.3	1472	
33	1626.3	1985.2	1794	
34	1985.2	2423	2193	
35	2423	2958	2677	1
36	2958	3611	3268	
37	3611	4409	3993	
				1 149 Total

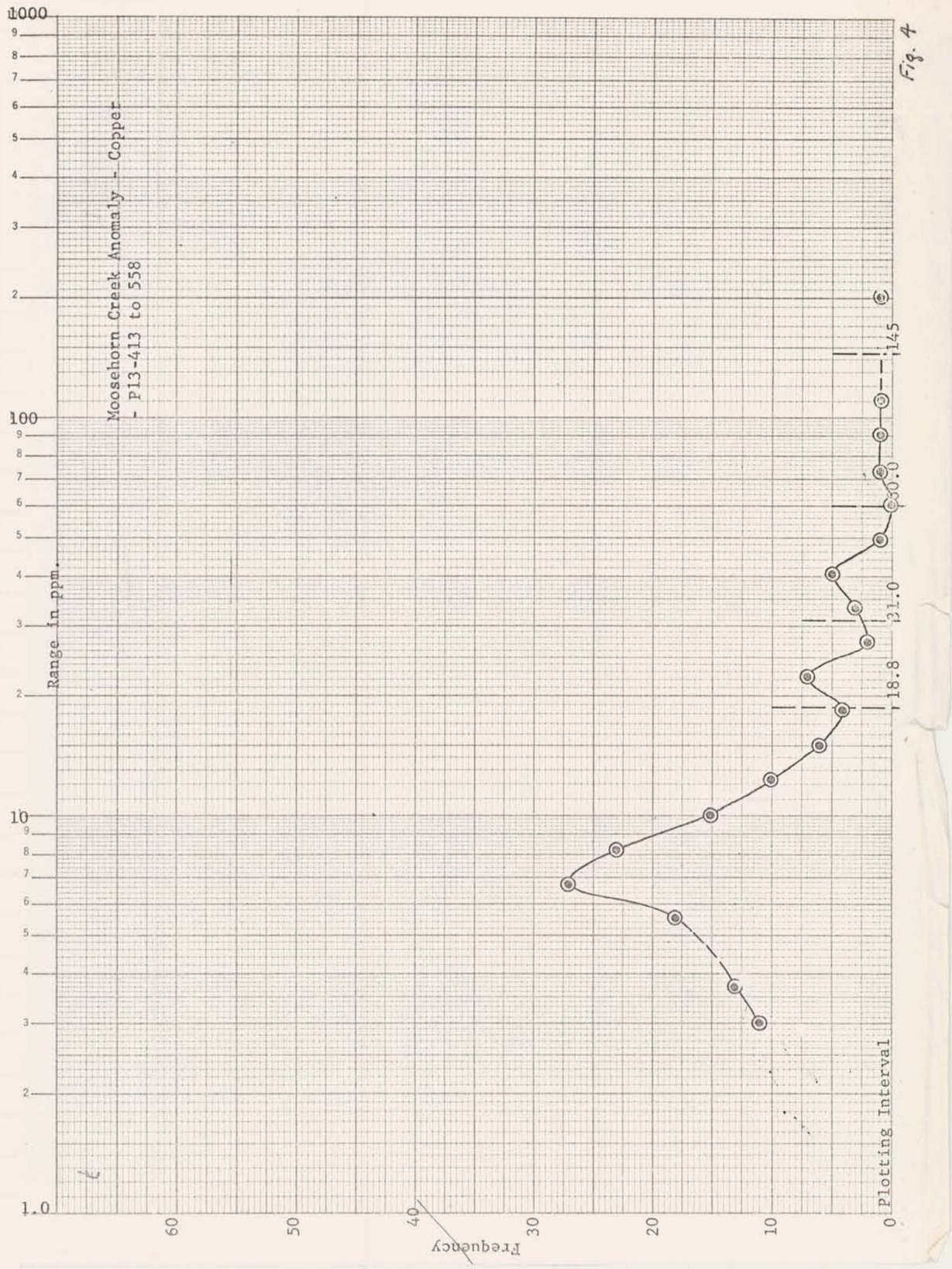


S/R Pitman - Log Normal Distribution of Cu in ppm.

- Moosehorn Creek Anomaly

Class No.	Range from	to	Mid-Point	Population
1	2.7	3.3	3.0	11
2	3.3	4.1	3.7	13
3	4.1	4.9	4.5	
4	4.9	6.1	5.5	18
5	6.1	7.4	6.7	27
6	7.4	9.1	8.2	23
7	9.1	11.1	10.0	15
8	11.1	13.5	12.2	10
9	13.5	16.5	15.0	6
10	16.5	20.2	18.3	4
11	20.2	24.6	22.3	7
12	24.6	30.1	27.2	2
13	30.1	36.7	33.2	3
14	36.7	44.8	40.6	5
15	44.8	54.7	49.5	1
16	54.7	66.8	60.4	
17	66.8	81.5	73.7	1
18	81.5	99.5	90.1	1
19	99.5	121.5	110.2	1
20	121.5	148.3	134.2	
21	148.3	181.1	163.9	
22	181.1	221.1	200.1	1
	221.1	270.03	244.3	149 Total
	270.03	329.7	298.3	
	329.7	402.5	364.3	
	402.5	491.4	444.8	
	491.4	599.8	542.9	
	599.8	732.3	662.7	
	732.3	893.9	809.1	
	893.9	1091	987.6	
	1091	1332.1	1206	
	1332.1	1626.3	1472	
	1626.3	1985.2	1794	
	1985.2	2423	2193	
	2423	2958	2677	
	2958	3611	3268	
	3611	4409	3989	

Fig. 4



S/R Pitman - Log Normal Distribution of Zn in ppm.
- McClair Creek Anomaly, MGS Grid

Class No.	Range from	to	Mid-Point	Population
1	2.7	3.3	3.0	
2	3.3	4.1	3.7	
3	4.1	4.9	4.5	
4	4.9	6.1	5.5	
5	6.1	7.4	6.7	
6	7.4	9.1	8.2	
7	9.1	11.1	10.0	
8	11.1	13.5	12.2	
9	13.5	16.5	15.0	
10	16.5	20.2	18.3	
11	20.2	24.6	22.3	
12	24.6	30.1	27.2	1
13	30.1	36.7	33.2	
14	36.7	44.8	40.6	1
15	44.8	54.7	49.5	3
16	54.7	66.8	60.4	8
17	66.8	81.5	73.7	21
18	81.5	99.5	90.1	32
19	99.5	121.5	110.2	34
20	121.5	148.3	134.2	28
21	148.3	181.1	163.9	40
22	181.1	221.1	200.1	33
23	221.1	270.03	244.3	21
24	270.03	329.7	298.3	45
25	329.7	402.5	364.3	28
26	402.5	491.4	444.8	12
27	491.4	599.8	542.9	8
28	599.8	732.3	662.7	11
29	732.3	893.9	809.1	7
30	893.9	1091	987.6	3
31	1091	1332.1	1206	1
32	1332.1	1626.3	1472	
33	1626.3	1985.2	1794	1
34	1985.2	2423	2193	
35	2423	2958	2677	
36	2953	3611	3268	
37	3611	4409	3989	2

340 Total

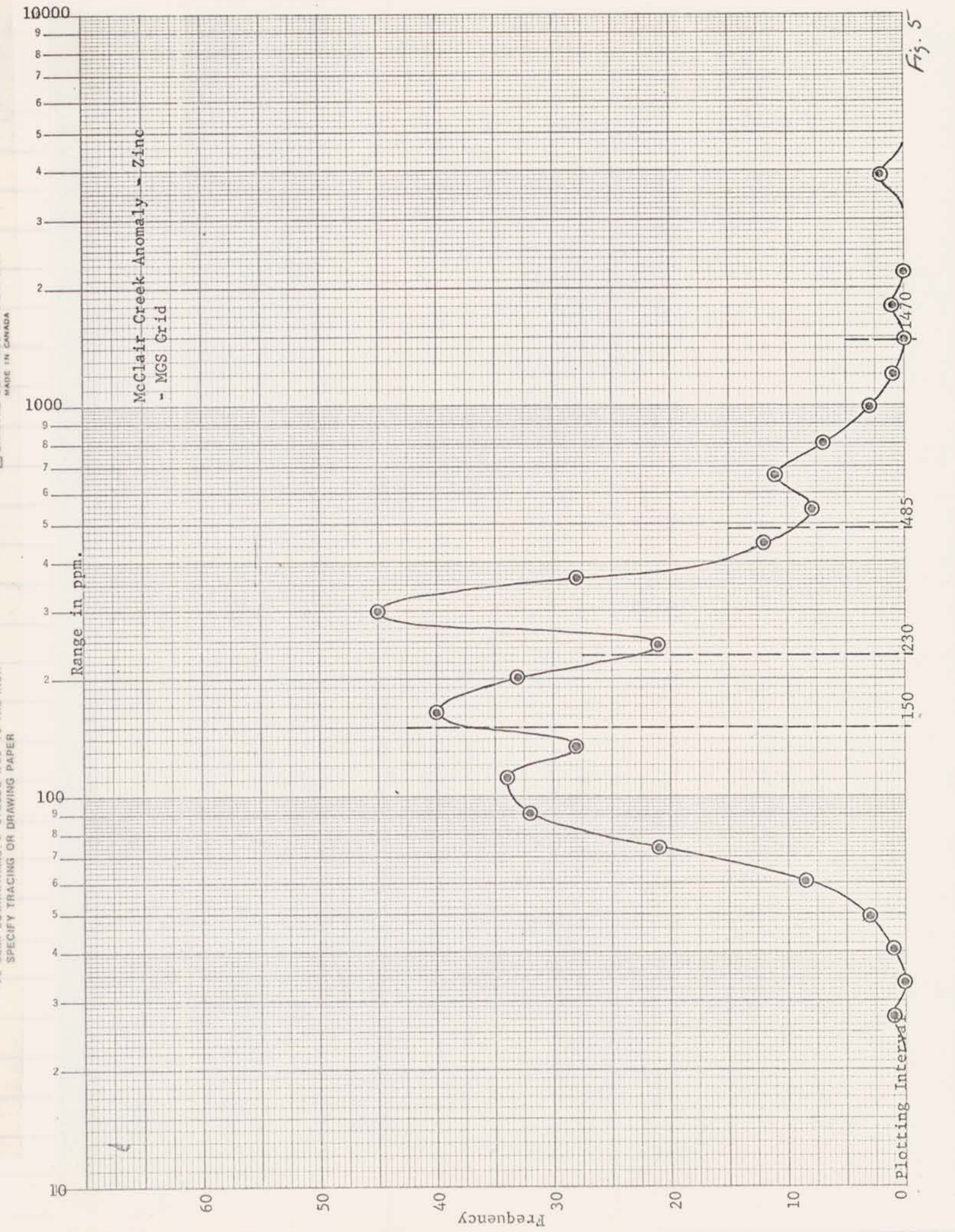
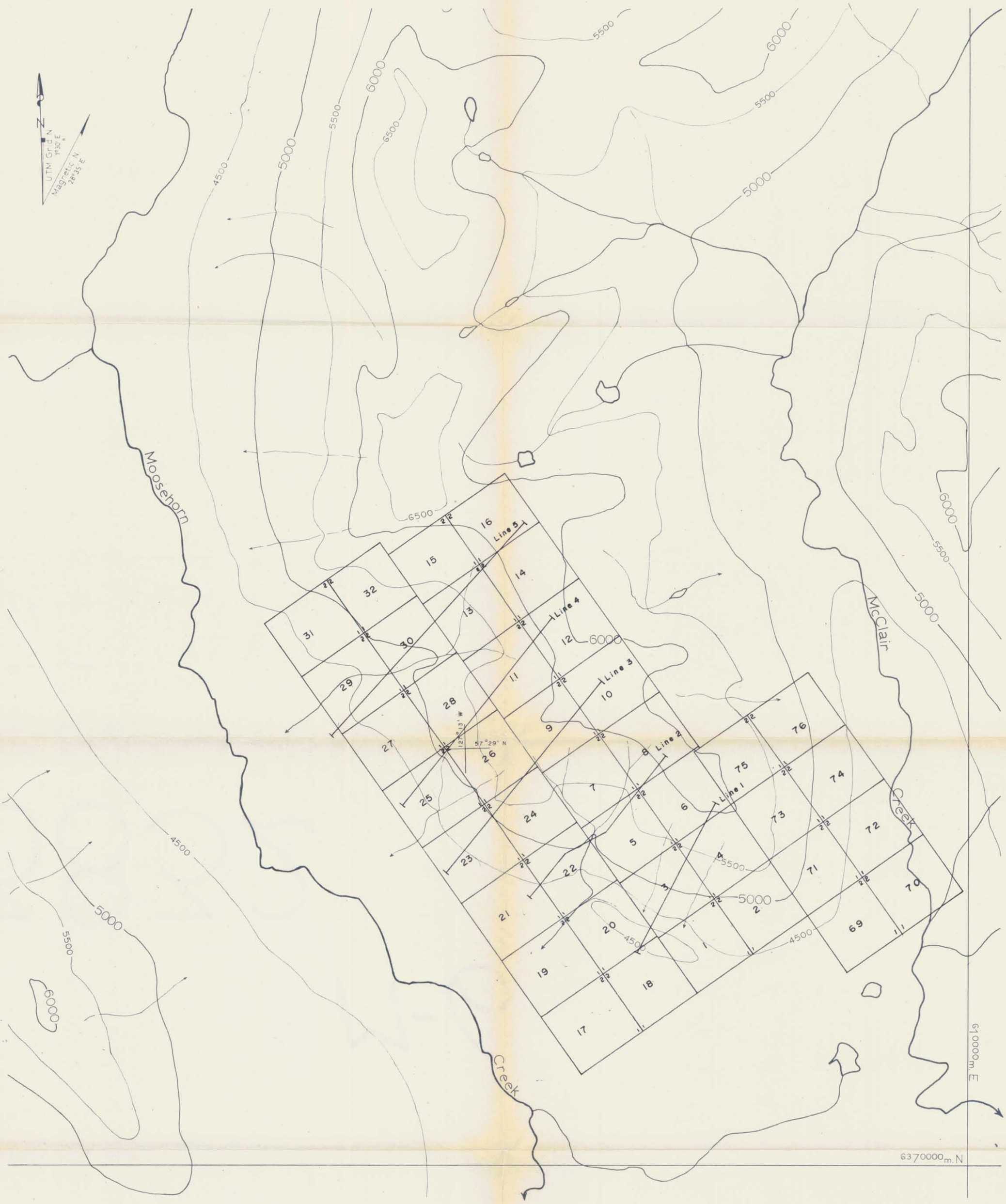


Fig. 5



SYMBOLS

UTM 10,000m Grid Coordinates

Legal Post, inital final

Claims: 'Moosehorn Group'

Line 3

6370000 m N

Was, 1 - 32 and Pit, 69-76

(See: Moosehorn Claim Group Recon. Soil Lines)

M-6

3832

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3832 MAP #6

To Accompany Geochemical Report

by T.C. Scott on

Moosehorn Group

Eleven Miles Southwest of Chukachida Lake, B.C.

Omineca Mining Division

Dated: 26 July, 1972

SULLIVAN RODGERS

— SUMAC —

MOOSEHORN CLAIM GROUP

Claim and Soil Line Location

Date: May, 1972	Scale: 1"= 1320'	N.T.S.: 94 E

To Accompany Geochemical Report

by T.C. Scott on

Moosehorn Group

Eleven Miles Southwest of Chukachida Lake, B.C.

Omineca Mining Division

Dated: 26 July, 1972

SULLIVAN RODGERS

— SUMAC —

PITMAN — 'Was Group'

(MOOSEHORN PROPERTY)

Reconnaissance Soil Lines

GOLD

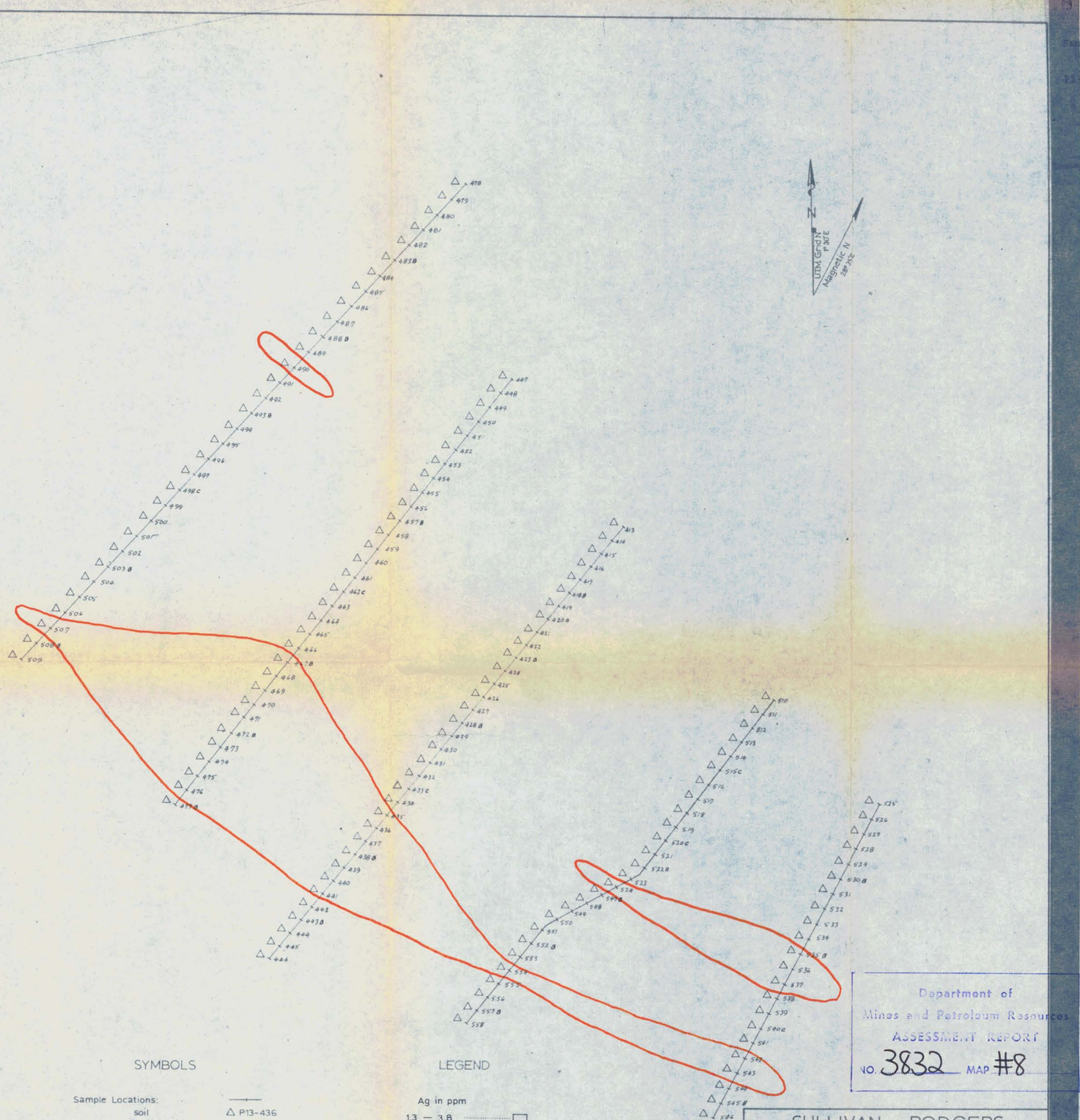
Map No. 71-6a		
Date: Oct., 1971	Scale: 1" = 600'	N.T.S. 94 E

T.C.S.

Moosehorn Claim Group

Sample No	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
408B	-	-	7	84	275
463	-	0.5	6	449	800
464	-	-	3	76	149
465	170	-	3	31	113
466	-	0.5	6	14	74
467	-	23.0	74	180	200
468	-	-	3	35	82
469	-	12.0	20	82	680
470	-	-			
471	-	3.5	8	69	420
472B	-	3.5	7	125	500
473	-	9.0	20	375	1820
474	-	1.0	8	67	334
475	-	5.0	14	82	315
476	-	4.0	22	36	
477B	-	0.5	14	69	231
478	-	-	7	20	
479	-	-	7	20	
480	-	-	4	18	
481	-	-	3	14	
482	-	-	12	20	
483B	-	-	13	39	
484	-	-	10	24	
485	-	-	4	18	138
486	-	-	4	20	163
487	-	-	4	20	163
488B	-	0.5	7	37	123
489	-	0.5	12	416	680
490	-	24.0	200	2750	2600
491	-	0.5	12	143	174
492	-	0.5	12	63	140
493B	-	0.5	7	44	82
494	-	0.5	8	94	113
495	-	0.5	7	22	93
496	-	-	10	56	200
497	-	0.5	8	56	130
498C	-	0.5	8	37	98
499	-	-	13	140	
500	-	-	6	42	90
501	-	-	7	37	99
502	-	0.5	4	46	52
503B	-	0.5	6	44	
504	-	-	3	46	76
505	-	-	4	22	93
506	-	-	4	35	87
507	-	8.5	18	70	
508B	-	0.5	10	40	133
509	-	-	6	14	31
510	-	-	8	18	63
511	-	-	7	18	68
512	30	4.0	8	39	68
513	-	-	10	26	99
514	-	-	6	18	74
515C	-	-	7	24	63
516	-	1.0	10	35	84
517	-	2.5	10	30	78
518	-	2.5	7	33	101
519	-	1.5	8	60	130
520C	-	1.5	8	50	168
521	-	-	8	35	257
522A	30	3.5	424	1125	2400
523	-	2.0	7	26	149
524	-	7.5	10	52	275
525	-	0.5	8	12	53
526	-	1.0	13	33	78
527	-	1.0	4	16	78
528	-	-	6	16	58
529	-	-	6	14	63
530B	-	-	10	30	101
531	-	1.0	14	130	178
532	-	-	6	33	130
533	-	1.0	14	39	227
534	-	3.0	18	46	173
535B	-	6.0	21	79	520
536	-	5.0	21	44	250
537	-	2.0	10	40	145
538	-	-	13	98	242
539	-	-	8	44	113
540C	-	1.5	7	30	120
541	-	3.0	6	35	113
542	-	4.0	8	28	113
543	-	8.0	24	56	213
544	-	-	7	26	107
545B	-	0.5	3	30	126
546	-	1.5	6	42	113
547B	-	0.5	6	63	172
548	-	2.5	7	31	255
549	-	-	7	24	187
550	-	-	7	24	138
551	320	-	10	76	520
552B	-	1.0	112	336	1410
553	-	-	7	39	113
554	-	7.5	44	79	535
555	-	0.5	12	46	218
556	-	3.0	26	63	600
557B	-	1.5	28	63	282
558	-	1.5	24	24	255

Values less than 0.5 ppm Ag and 30 ppb Au are denoted by " - ".



SYMBOLS

Sample Locations:
soil — △ P13-436
(for line locations see: Was Group Recon. Geochem.)

LEGEND

Ag in ppm
1.3 — 3.8
3.9 — 10.9
11.0 — 23.4
23.5+

To Accompany Geochemical Report
by T.C. Scott on
Moosehorn Group
Eleven Miles Southwest of Chukachida Lake, B.C.
Omineca Mining Division
Dated: 26 July, 1972

T.C. Scott

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3832 MAP #8

SULLIVAN RODGERS
— SUMAC —

PITMAN — 'Was Group'
(MOOSEHORN PROPERTY)
Reconnaissance Soil Lines

SILVER

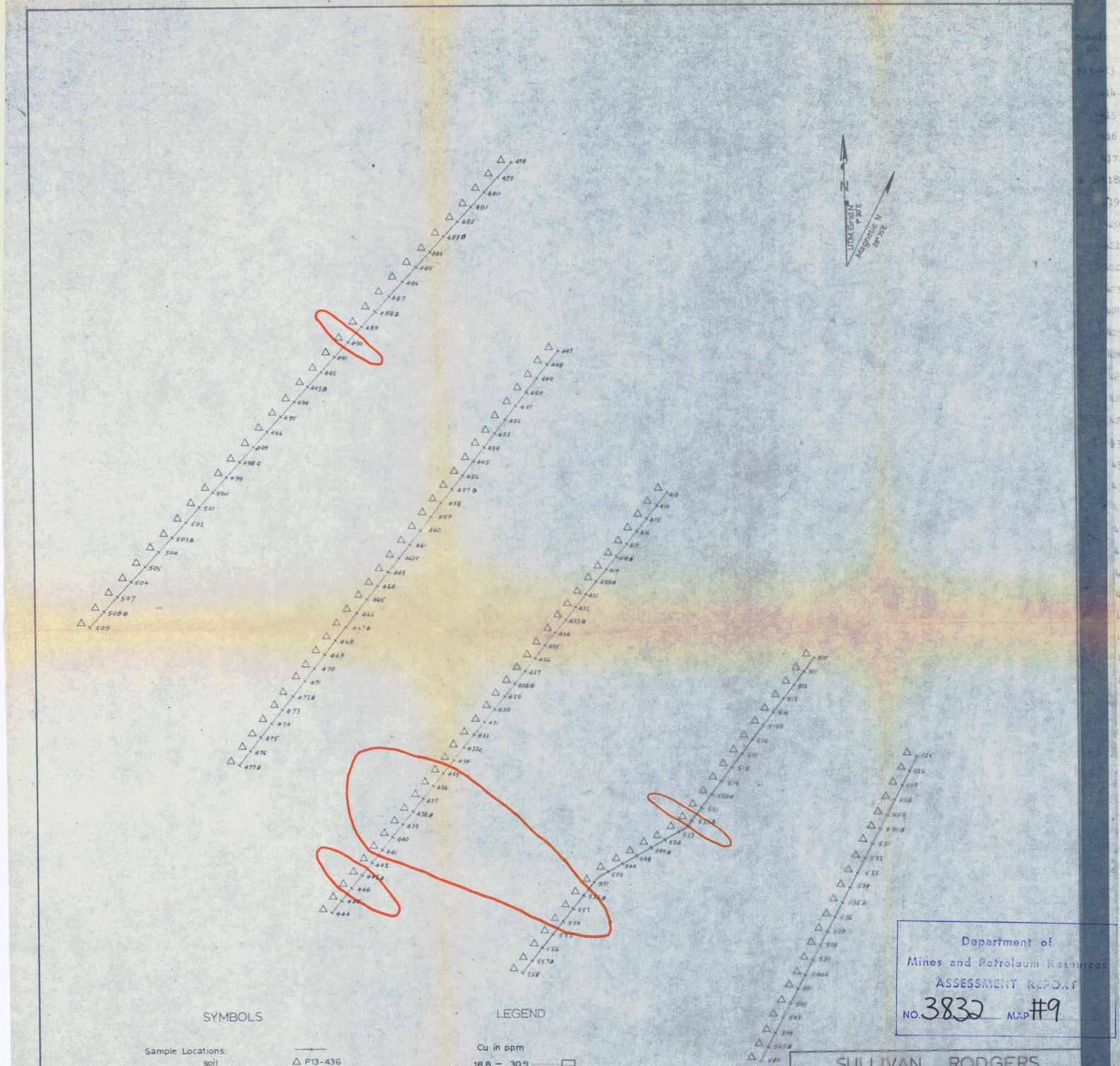
Map No. 71-6b
Date: Oct., 1971 | Scale: 1" = 600' | N.T.S.: 94 E

T.C.S.

Moosehorn Claim Group

Sample No.	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
P13-413	-	1.5	7	30	
414	-	5.0	10	39	
415	-	-	8	20	
416	-	0.5	6	22	
417	-	6.0	8	62	
418B	-	1.0	8	37	
419	-	-	3	20	
420B	-	-	4	26	
421	-	-	7	28	
422	-	-	3	14	
423B	-	-	6	32	
424	-	0.5	4	24	
425	-	0.5	4	18	
426	-	-	3	18	50
427	-	0.5	16	16	71
428B	-	0.5	10	36	80
429	-	1.0	13	16	74
430	-	-	7	16	71
431	-	-	10	24	123
432	-	-	6	20	78
433C	30	-	7	28	78
434	-	-	6	18	74
435	-	17.0	36	76	960
436	-	20.0	48	172	1000
437	-	6.5	84	2936	4000
438B	-	0.5	42	120	1080
439	-	4.0	51	37	610
440	-	4.0	7	260	200
441	-	7.0	31	63	840
442	-	2.0	21	22	
443B	-	1.5	40	91	
444	-	2.0	34	39	
445	-	2.0	21	34	880
446	-	2.0	42	12	
447	-	-	8	30	
448	-	-	6	20	
449	-	-	10	24	
450	-	-	7	20	
451	-	-	3	24	
452	-	-	3	24	
453	-	-	4	26	
454	-	-	4	20	
455	-	-	7	30	
456	-	0.5	14	60	
457B	-	-	8	24	
458	-	-	10	18	
459	-	-	8	22	78
460	-	-	8	20	101
461	-	-	8	280	440
462C	-	-	7	84	275
463	-	0.5	6	449	580
464	-	-	3	76	140
465	170	-	3	31	118
466	-	0.5	6	14	74
467	-	23.0	74	180	200
468	-	-	3	35	82
469	-	12.0	20	80	650
470	-	-			
471	-	3.5	8	69	470
472B	-	3.5	7	120	900
473	-	9.0	20	375	1800
474	-	1.5	8	60	384
475	-	4.0	14	62	410
476	-	4.0	22	80	
477B	-	0.5	14	64	231
478	-	-	7	20	
479	-	-	7	20	
480	-	-	4	18	
481	-	-	3	14	
482	-	-	12	20	
483B	-	-	13	39	
484	-	-	10	24	
485	-	-	4	18	138
486	-	-	4	20	163
487	-	-	4	20	133
488B	-	0.5	7	37	123
489	-	0.5	12	416	680
490	-	24.0	200	2750	2600
491	-	0.5	12	140	178
492	-	0.5	12	63	140
493B	-	0.5	7	44	82
494	-	0.5	8	34	113
495	-	0.5	7	22	93
496	-	-	10	56	200
497	-	0.5	8	36	130
498	-	0.5	8	37	98
499	-	-	13	140	
500	-	-	6	42	90
501	-	-	7	37	98
502	-	0.5	4	46	82
503B	-	2.5	6	44	
504	-	-	3	46	76
505	-	-	4	22	53
506	-	-	4	35	87
507	-	8.5	18	76	
508B	-	0.5	10	40	133
509	-	-	6	14	31
510	-	-	8	18	63
511	-	-	7	18	68
512	30	4.0	8	39	68
513	-	-	10	26	90
514	-	-	6	18	74
515C	-	-	7	24	63
516	-	1.0	10	35	84
517	-	2.5	10	30	78
518	-	2.0	7	33	101
519	-	1.5	8	60	130
520C	-	1.5	8	50	168
521	-	-	8	35	257
520A	30	3.5	424	1125	2400
523	-	2.0	7	26	149
524	-	7.5	10	52	275
525	-	0.5	8	12	53
526	-	1.0	13	33	78
527	-	1.0	4	16	78
528	-	-	6	16	78
529	-	-	6	14	63
530B	-	-	10	30	101
531	-	1.0	14	130	178
532	-	-	6	33	130
533	-	1.0	14	39	237
534	-	3.0	18	46	173
535B	-	6.0	21	79	520
536	-	5.0	21	44	250
537	-	2.0	10	40	145
538	-	-	13	98	242
539	-	-	8	44	113
540C	-	1.0	7	30	120
541	-	3.0	6	35	113
542	-	4.0	8	28	113
543	-	8.0	24	56	213
544	-	-	7	26	107
545B	-	0.5	3	30	126
546	-	1.5	6	42	113
547B	-	0.5	6	63	172
548	-	2.5	7	31	255
549	-	-	7	24	187
550	-	-	7	24	138
551	320	-	10	76	320
552B	-	1.0	112	336	1410
553	-	-	7	39	113
554	-	7.5	44	79	535
555	-	0.5	12	46	218
556	-	3.0	26	63	600
557B	-	1.5	28	63	282
558	-	1.5	24	24	255

Values less than 0.5 ppm Ag and 30 ppb Au are denoted by " - ".



To Accompany Geochemical Report

by T.C. Scott on

Moosehorn Group

Eleven Miles Southwest of Chukachida Lake, B.C.

Omineca Mining Division

Dated: 26 July, 1972

SULLIVAN RODGERS

— SUMAC —

PITMAN — 'Was Group'

(MOOSEHORN PROPERTY)

Reconnaissance Soil Lines

COPPER

Map No. 71-Gc

Date: Oct., 1971 | Scale: 1" = 600' | N.T.S. 94 E

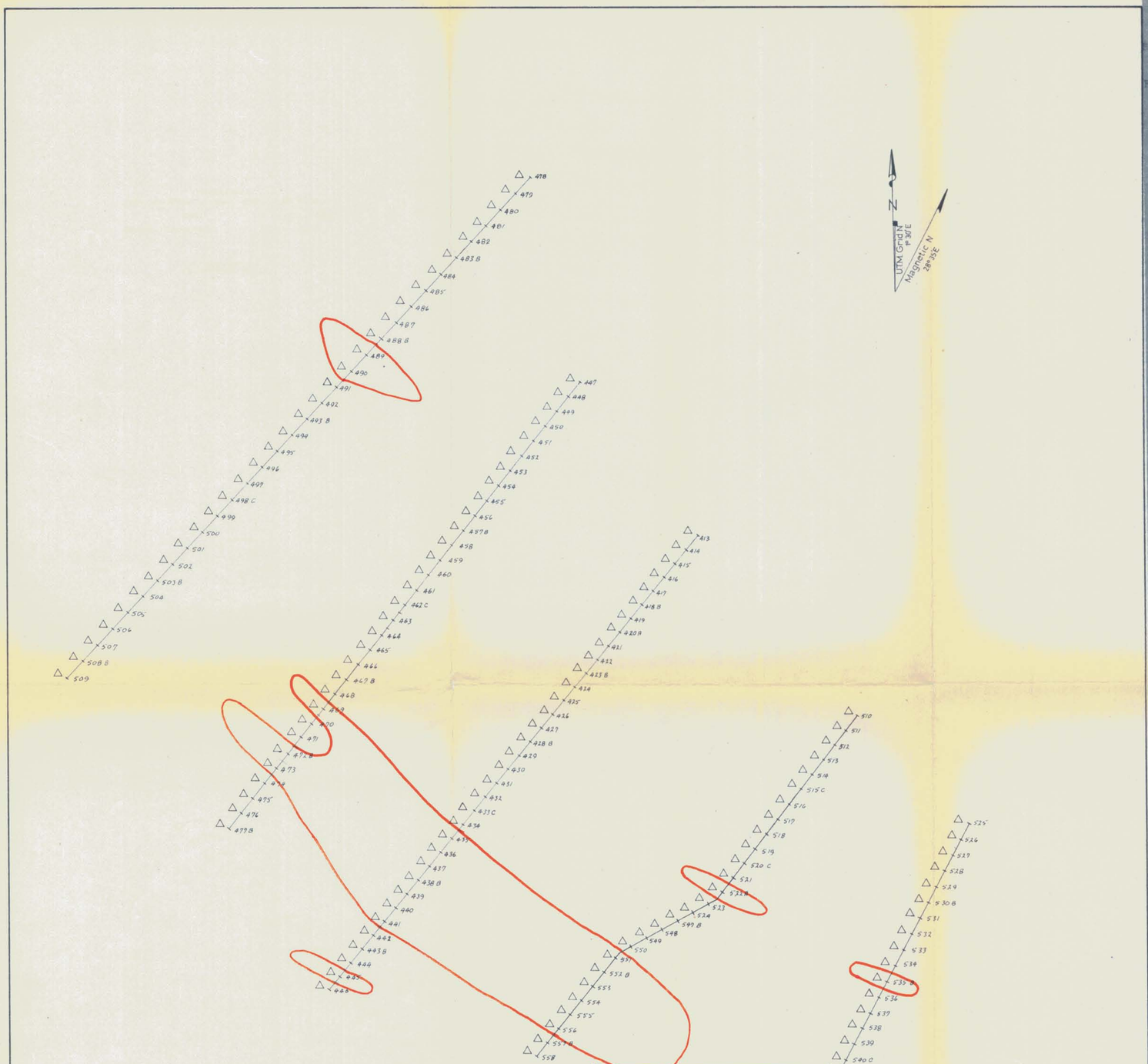
Moosehorn Claim Group

Sample No	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
P13-433	-	1.5	7	30	
434	-	5.0	10	39	
435	-	-	8	20	
436	-	0.5	6	22	
437	-	6.0	8	62	
438B	-	1.0	8	37	
439	-	-	3	20	
440B	-	-	4	26	
441	-	-	7	28	
442	-	-	3	14	
443B	-	-	6	52	
444	-	0.5	4	24	
445	-	0.5	4	18	
446	-	-	3	18	50
447	-	0.5	16	16	71
448B	-	0.5	10	35	66
449	-	1.0	13	16	74
450	-	-	7	16	71
451	-	-	10	34	123
452	-	-	6	20	78
453	30	-	7	28	78
454	-	-	6	18	74
455	-	17.5	36	76	900
456	-	21.0	42	178	1000
457	-	5.	84	393	400
458B	-	0.5	4	120	140
459	-	4.0	51	378	2600
460	-	4.0	7	260	200
461	-	7.0	31	63	840
462	-	8.0	21	82	
463B	-	1.0	40	91	
464	-	2.0	34	39	
465	-	2.0	21	54	880
466	-	8.0	42	12	
467	-	-	8	30	
468	-	-	6	20	
469	-	-	10	24	
470	-	-	7	20	
471	-	-	3	24	
472B	-	-	3	24	
473	-	-	4	26	
474	-	-	4	20	
475	-	-	7	30	
476	-	0.5	14	60	
477B	-	-	8	24	
478	-	-	10	18	
479	-	-	9	22	78
480	-	-	8	20	102
481	-	-	8	280	440

Sample No	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
4628	-	-	7	84	279
463	-	0.5	6	449	800
464	-	-	3	76	140
465	170	-	3	31	113
466	-	0.5	6	14	74
467	-	23.5	74	180	200
468	-	-	3	36	82
469	-	12.0	20	82	680
470	-	-			
471	-	3.5	8	69	420
472B	-	3.5	7	125	500
473	-	8.0	20	375	1800
474	-	1.5	8	67	384
475	-	5.0	14	68	315
476	-	4.0	22	26	
477B	-	0.5	14	69	231
478	-	-	7	20	
479	-	-	7	20	
480	-	-	4	18	
481	-	-	3	14	
482	-	-	12	20	
483B	-	-	13	39	
484	-	-	10	24	
213-485	-	-	4	18	138
486	-	-	4	20	163
487	-	-	4	20	153
488B	-	0.5	7	37	123
489	-	0.5	12	416	680
490	-	24.0	200	2750	2600
491	-	0.5	12	140	178
492	-	0.5	12	63	144
493B	-	0.5	7	44	82
494	-	0.5	8	54	117
495	-	0.5	7	22	93
496	-	-	10	56	200
497	-	0.5	8	56	130
498C	-	0.5	8	37	98
499	-	-	13	140	
500	-	-	6	42	90
501	-	-	7	37	95
502	-	0.5	4	46	82
503B	-	2.5	6	44	
504	-	-	3	46	76
505	-	-	4	22	53
506	-	-	4	35	87
507	-	8.5	18	76	
508B	-	0.5	10	40	133
509	-	-	6	14	31
510	-	-	8	18	63

Sample No	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
511	-	-	7	18	68
512	30	4.0	8	39	68
513	-	-	10	26	95
514	-	-	6	18	74
515C	-	-	7	24	63
516	-	1.0	10	35	84
517	-	2.5	10	30	78
518	-	2.5	7	33	101
519	-	1.5	8	60	130
520C	-	1.5	8	50	168
521	-	-	8	35	257
522A	30	3.5	424	1125	2400
523	-	2.0	7	26	149
524	-	7.5	10	52	275
525	-	0.5	8	12	53
526	-	1.0	13	33	78
527	-	1.0	4	16	78
528	-	-	6	16	58
529	-	-	6	14	63
530B	-	-	10	30	101
531	-	1.0	14	130	178
532	-	-	6	33	130
533	-	1.0	14	39	227
534	-	3.0	18	46	173
535B	-	6.0	21	79	520
536	-	5.0	21	44	250
537	-	2.0	10	40	146
538	-	-	13	98	242
539	-	-	8	44	113
540C	-	1.0	7	30	180
541	-	3.0	6	35	113
542	-	4.0	8	28	113
543	-	8.0	24	56	213
544	-	-	7	26	107
545E	-	0.5	3	30	126
546	-	1.5	6	42	113
547E	-	0.5	6	63	172
548	-	2.5	7	31	255
549	-	-	7	24	197
550	-	-	7	24	138
551	320	-	10	76	520
552B	-	1.0	112	336	1410
553	-	-	7	39	113
554	-	7.5	44	79	535
555	-	0.5	12	46	218
556	-	3.0	26	63	600
557B	-	1.5	28	63	282
558	-	1.5	24	24	255

Values less than 0.5 ppm Ag and 30 ppb Au are denoted by " - ".

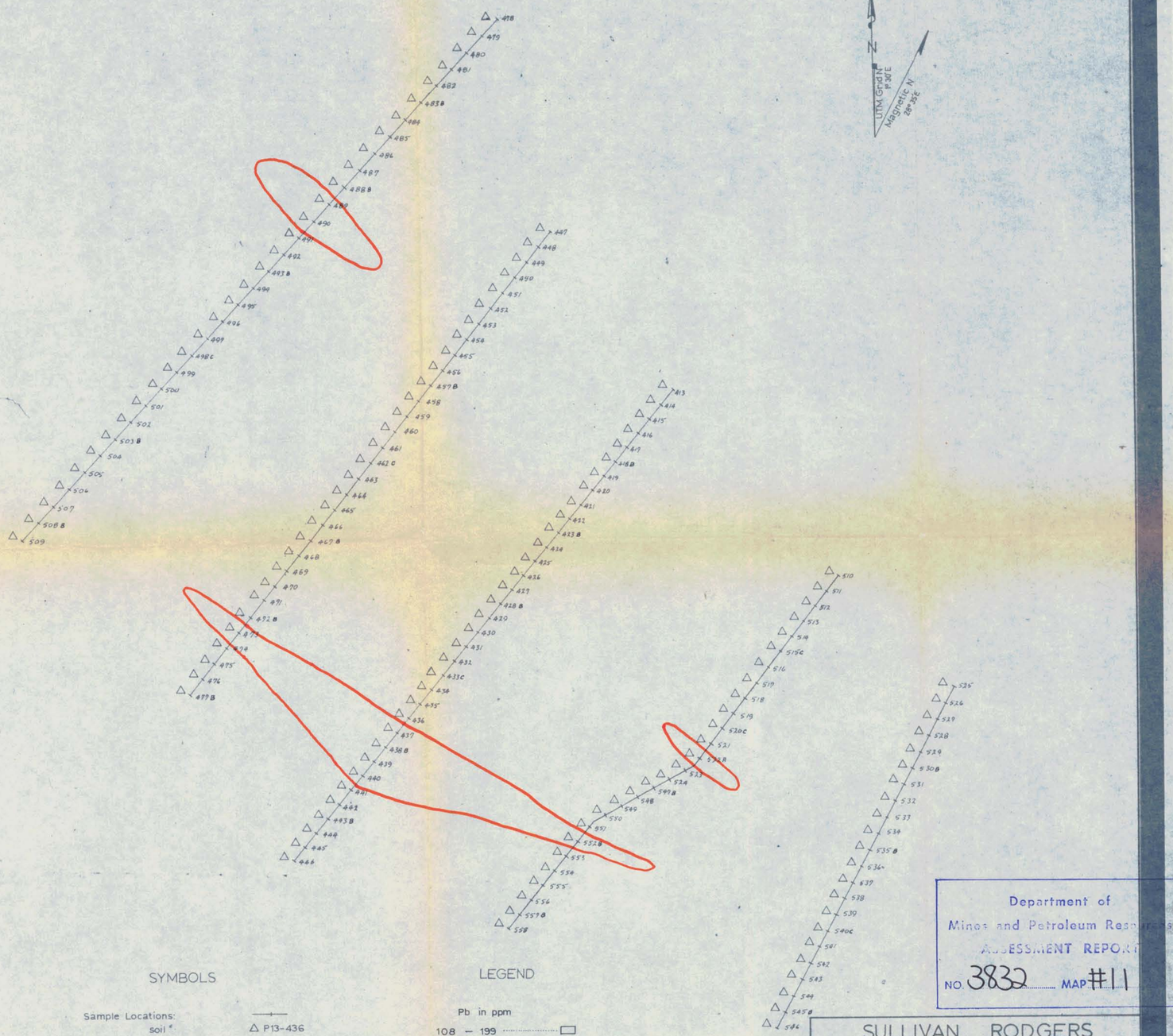


Moosehorn Claim Group

Sample No	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
P13-435	-	K.5	7	30	
434	-	5.0	10	39	
435	-	-	8	20	
436	-	0.5	6	22	
437	-	6.0	8	62	
438B	-	1.0	8	37	
439	-	-	3	20	
440B	-	-	4	26	
421	-	-	7	28	
422	-	-	3	14	
423B	-	-	6	52	
424	-	0.5	4	24	
425	-	0.5	4	18	
426	-	-	3	18	50
427	-	0.5	16	16	71
428B	-	0.5	10	35	66
429	-	1.0	13	16	74
430	-	-	7	16	71
431	-	-	10	24	123
432	-	-	6	20	78
433C	30	-	7	29	78
434	-	-	6	18	74
435	-	17.5	36	76	460
436	-	20.0	42	172	1000
437	-	5.5	84	3935	4000+
438B	-	0.5	42	120	1080
439	-	4.0	11	376	2600
440	-	4.0	7	260	200
441	-	7.0	31	63	840
442	-	2.0	21	22	
443B	-	1.5	40	91	
444	-	2.0	34	39	
445	-	2.0	21	54	880
446	-	2.0	42	12	
447	-	-	8	30	
448	-	-	6	20	
449	-	-	10	24	
450	-	-	7	20	
451	-	-	3	24	
452	-	-	3	24	
453	-	-	4	26	
454	-	-	4	20	
455	-	-	7	30	
456	-	0.5	14	60	
457B	-	-	8	24	
458	-	-	10	18	
459	-	-	8	22	78
460	-	-	8	20	101
461	-	-	8	280	440
462B	-	-	7	84	275
463	-	0.5	6	449	800
464	-	-	3	76	149
465	170	-	3	31	113
466	-	0.5	6	14	74
467	-	63.5	74	180	200
468	-	-	3	35	82
469	-	12.0	20	82	680
470	-	-			
471	-	3.5	8	69	420
472B	-	3.5	7	125	500
473	-	8.0	20	375	1820
474	-	1.5	8	67	354
475	-	5.0	14	62	319
476	-	4.0	22	26	
477B	-	0.5	14	69	231
478	-	-	7	20	
479	-	-	7	20	
480	-	-	4	18	
481	-	-	3	14	
482	-	-	12	20	
482B	-	-	13	39	
484	-	-	10	24	
P13-485	-	-	4	18	138
486	-	-	4	20	163
487	-	-	4	20	153
488B	-	0.5	7	37	123
489	-	0.5	18	416	680
490	-	24.0	200	2750	2600
491	-	0.5	12	140	178
492	-	0.5	12	63	140
493B	-	0.5	7	44	82
494	-	0.5	8	54	113
495	-	0.5	7	22	93
496	-	-	10	56	200
497	-	0.5	8	56	130
498C	-	0.5	8	37	98
499	-	-	13	140	
500	-	-	6	42	90
501	-	-	7	37	99
502	-	0.5	4	46	82
503B	-	2.5	6	44	
504	-	-	3	46	76
505	-	-	4	22	53
506	-	-	4	35	87
507	-	8.5	18	76	
508B	-	0.5	10	40	133
509	-	-	6	14	31
510	-	-	8	18	69

Sample No	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
511	-	-	7	18	68
512	30	4.0	8	39	68
513	-	-	10	26	99
514	-	-	6	18	74
515C	-	-	7	24	63
516	-	1.0	10	35	84
517	-	2.5	10	30	78
518	-	2.5	7	33	101
519	-	1.5	8	60	130
520C	-	1.5	8	50	168
521	-	-	8	35	257
522A	30	3.5	424	1125	2400
523	-	2.0	7	26	149
524	-	7.5	10	52	275
525	-	0.5	8	12	53
526	-	1.0	13	33	78
527	-	1.0	4	16	78
528	-	-	6	16	58
529	-	-	6	14	63
530B	-	-	10	30	101
531	-	1.0	14	130	178
532	-	-	6	33	130
533	-	1.0	14	39	227
534	-	3.0	18	46	173
535B	-	6.0	21	79	320
536	-	5.0	21	44	250
537	-	2.0	10	40	140
538	-	-	13	99	242
539	-	-	8	44	113
540C	-	1.5	7	30	120
541	-	3.0	6	35	113
542	-	4.5	8	28	113
543	-	8.0	24	56	213
544	-	-	7	26	107
545B	-	0.5	3	30	126
546	-	1.5	6	42	113
547B	-	0.5	6	63	172
548	-	2.5	7	31	255
549	-	-	7	24	187
550	-	-	7	24	138
551	330	-	10	76	320
552B	-	1.0	112	336	1410
553	-	-	7	39	113
554	-	7.5	44	79	535
555	-	0.5	12	46	218
556	-	3.0	26	63	600
557B	-	1.5	28	63	282
558	-	1.5	24	24	255

Values less than 0.5 ppm Ag and 30 ppb Au are denoted by " - ".



SYMBOLS

Sample Locations:
soil ° △ P13-436
(for line locations see: Was Group Recon. Geochem.)

LEGEND

Pb in ppm
108 – 199
200 – 287
288 – 539
540•

To Accompany Geochemical Report
by T.C. Scott on
Moosehorn Group
Eleven Miles Southwest of Chukachida Lake, B.C.
Omineca Mining Division
Dated: 26 July, 1972

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3832 MAP #11

SULLIVAN RODGERS
— SUMAC —
PITMAN — 'Was Group'
(MOOSEHORN PROPERTY)
Reconnaissance Soil Lines
LEAD
Map No. 71-6e
Date: Oct., 1971 | Scale: 1" = 600' | N.T.S.: 94 E

Moosehorn Claim Group

Sample No	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
P13-413	-	1.5	7	30	
414	-	5.0	10	39	
415	-	-	8	20	
416	-	0.5	6	22	
417	-	6.0	8	62	
418B	-	1.0	8	37	
419	-	-	3	20	
420B	-	-	4	26	
421	-	-	7	28	
422	-	-	3	14	
423B	-	-	6	52	
424	-	0.5	4	24	
425	-	0.5	4	18	
426	-	-	3	18	50
427	-	0.5	16	16	71
428B	-	0.5	10	95	66
429	-	1.0	13	16	74
430	-	-	7	16	71
431	-	-	10	24	123
432	-	-	6	20	78
433C	30	-	7	28	78
434	-	-	6	18	74
435	-	17.5	36	76	960
436	-	20.0	42	172	1000
437	-	5.5	84	3935	4000+
438B	-	0.5	42	120	1080
439	-	4.0	51	375	2600
440	-	4.0	7	260	200
441	-	7.0	31	63	940
442	-	2.0	21	22	
443B	-	1.5	40	91	
444	-	2.0	34	39	
445	-	2.0	21	54	880
446	-	2.0	42	12	
447	-	-	8	30	
448	-	-	6	20	
449	-	-	10	24	
450	-	-	7	20	
451	-	-	3	24	
452	-	-	3	24	
453	-	-	4	26	
454	-	-	4	20	
455	-	-	7	30	
456	-	0.5	14	60	
457B	-	-	8	24	
458	-	-	10	18	
459	-	-	8	22	78
460	-	-	8	20	101
461	-	-	8	280	440
462C	-	-	7	84	275
463	-	0.5	6	449	500
464	-	-	3	76	140
465	170	-	3	31	113
466	-	0.5	6	14	74
467	-	23.5	74	180	800
468	-	-	3	35	82
469	-	12.0	58	88	680
470	-	-			
471	-	3.5	8	69	420
472B	-	3.5	7	125	400
473	-	8.0	20	370	1820
474	-	1.5	5	67	394
475	-	0.5	14	68	270
476	-	4.0	32	90	
477B	-	0.5	14	64	241
478	-	-	7	20	
479	-	-	7	20	
480	-	-	4	18	
481	-	-	3	14	
482	-	-	12	20	
483B	-	-	13	39	
484	-	-	10	24	
P13-485	-	-	4	18	138
486	-	-	4	20	163
487	-	-	4	20	113
488B	-	0.5	7	37	153
489	-	0.5	12	416	680
490	-	24.0	200	2760	7000
491	-	0.5	12	140	174
492	-	0.5	12	63	140
493B	-	0.5	7	44	88
494	-	0.5	8	54	113
495	-	0.5	7	32	43
496	-	-	10	50	200
497	-	0.5	8	36	140
498C	-	0.5	8	37	96
499	-	-	13	140	
500	-	-	6	48	90
501	-	-	7	37	96
502	-	0.5	4	46	82
503B	-	2.5	6	44	
504	-	-	3	46	76
505	-	-	4	22	53
506	-	-	4	35	87
507	-	8.5	18	76	
508B	-	0.5	10	40	133
509	-	-	6	14	31
510	-	-	8	18	63
511	-	-	7	18	68
512	30	4.0	8	39	68
513	-	-	10	26	99
514	-	-	6	18	74
515C	-	-	7	24	63
516	-	1.0	10	30	84
517	-	2.0	10	30	78
518	-	2.5	7	33	101
519	-	1.5	8	60	130
520C	-	1.5	8	56	168
521	-	-	8	36	257
522A	30	3.5	424	1125	2400
523	-	2.0	7	26	149
524	-	7.5	10	52	275
525	-	0.5	8	12	53
526	-	1.0	13	33	78
527	-	1.0	4	16	78
528	-	-	6	16	58
529	-	-	6	14	63
530B	-	-	10	30	101
531	-	1.0	14	130	178
532	-	-	6	33	130
533	-	1.0	14	39	227
534	-	3.0	18	46	173
535B	-	6.0	21	79	320
536	-	2.0	21	44	240
537	-	2.0	10	40	144
538	-	-	13	98	242
539	-	-	8	44	113
540	-	1.0	7	36	120
541	-	3.0	6	30	113
542	-	4.0	8	88	113
543	-	8.0	84	90	213
44	-	-	7	38	107
545B	-	0.5	3	30	126
46	-	1.0	6	42	113
547	-	0.5	6	63	172
548	-	8.0	7	31	255
549	-	-	7	24	147
550	-	-	7	24	138
551	320	-	10	76	520
552B	-	1.0	112	336	1410
553	-	-	7	39	113
554	-	7.5	44	79	535
555	-	0.5	12	46	218
556	-	3.0	20	63	600
557B	-	1.5	28	63	282
558	-	1.5	24	24	255

Values less than 0.5 ppm Ag and 30 ppb Au are denoted by " - ".