

115-9-3

MT. NANSEN PROPERTY  
Yukon Territory  
GEOCHEMICAL SOIL SURVEY, 1970  
F. Bianconi  
R. Saager

Oct. 26/70

012143

Mount Nansen Property

GEOCHEMICAL SOIL SURVEY 1970

by

F.Bianconi and R.Saager

Vancouver

October 26, 1970

## INTRODUCTION

This soil sampling programme was undertaken following the stream sampling survey of July 1970 (report "Stream Sampling Survey 1970, Mount Nansen Property, Yukon T.", by F. Bianconi and R. Saager, dated September 10, 1970), in which two distinct Cu-Mo anomalies were detected.

Since the Cu-Mo anomalies occur in acid porphyries and are supported by potassium 40 peaks and aeromagnetic depressions, they were interpreted by the authors as being caused by underlying porphyry ore mineralizations.

The aim of the present soil survey was, therefore, to obtain detailed informations on the exact position of the anomalies detected by the stream sediment survey.

## GEOLOGICAL SETTING

The geological setting of the Mount Nansen area has already been discussed in detail in the above mentioned earlier report. However, a photogeological interpretation, together with some field observations is attempted on Figure 1. The watershed between Victoria Creek and Nansen Creek lies within the investigated area, which explains the unusually high portion of outcrops. Generally they consist of brownish, leached and weathered porphyries which macroscopically show no mineralizations. Two sets of faults occur in the area and seem to influence the geochemical response of the possible mineralization as well as the development of the porphyries. The faults strike in the same directions as the faults encountered in the Mount Nansen mine, i.e. NW and NE respectively.

F. Bianconi - R. Saager

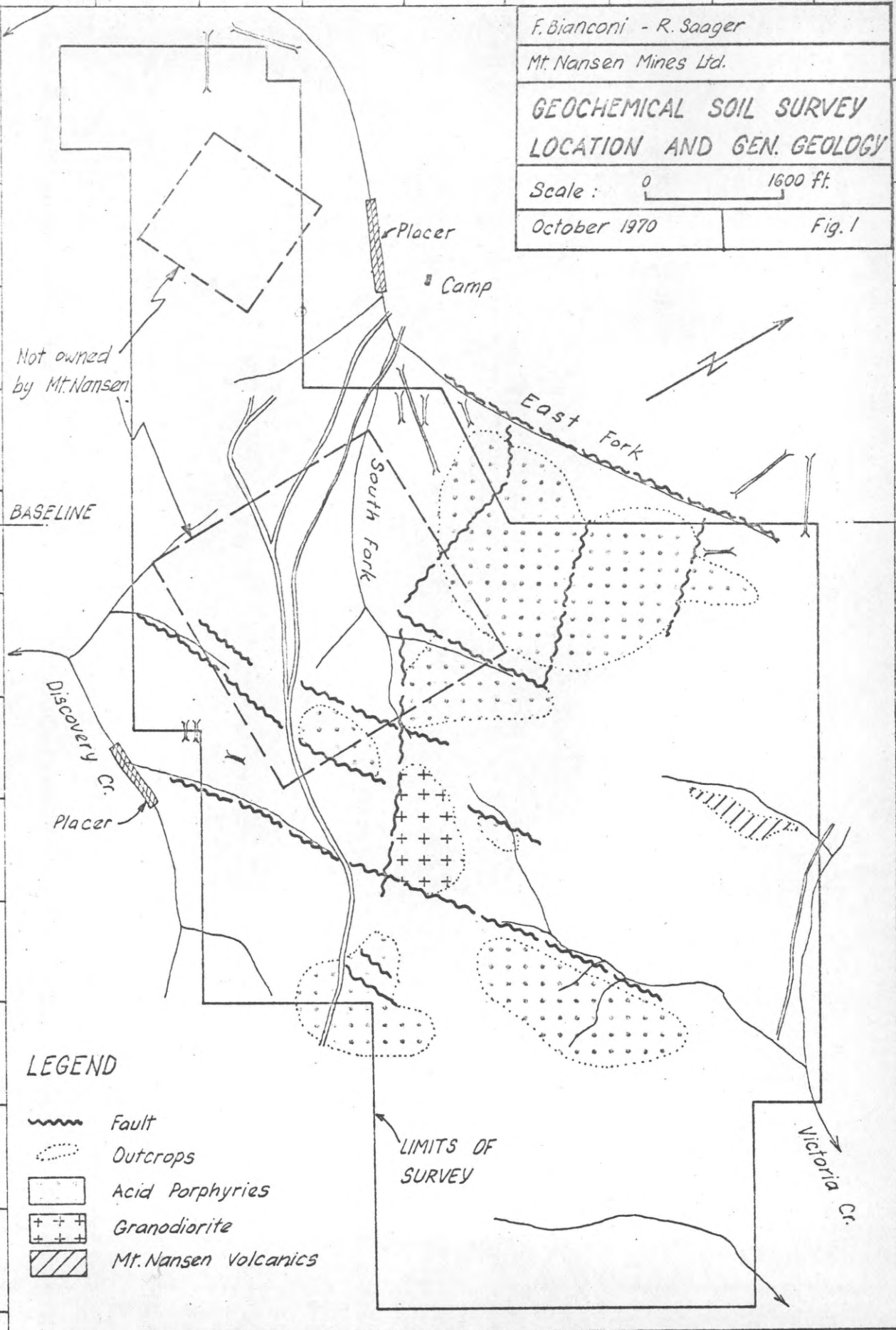
Mt. Nansen Mines Ltd.

# GEOCHEMICAL SOIL SURVEY LOCATION AND GEN. GEOLOGY

Scale: 0 1600 ft.

October 1970

Fig. 1



Not owned  
by Mt. Nansen

BASELINE

Discovery Cr.

Placer

Placer






Camp

South Fork

East Fork

Victoria Cr.

## LEGEND

-  Fault
-  Outcrops
-  Acid Porphyries
-  Granodiorite
-  Mt. Nansen Volcanics

LIMITS OF  
SURVEY

84W 72W 60W 48W 36W 24W 12W 0W

144N  
132N  
120N  
108N  
96N  
92N  
84N  
72N  
60N  
48N  
36N  
24N  
12N  
0N

### CLAIMS

Most of the area covered by the soil survey is owned by Mt. Nansen Mines Ltd., and the claims are in good standing until 1974. The five foreign claims which occur in the area (Fig. 1) are owned by Silver Standard Mines Ltd., of Vancouver. They are in good standing until July 1971. The exact location of these claims seems to be unknown, since claim posts have not been found. However, the authors feel, that the position given for these claims in Figure 1 is the worst possible one in respect to the detected Cu-Mo anomalies. It is recommended, therefore, to have the area of interest (approximately 20 claims) surveyed by a Land Surveyor, in order to eliminate any question on the position of our claims and to bring us in a stronger position in any future dealings with Silver Standard Mines Ltd.

### METHODS

A quadratic 400 ft. grid was surveyed and 410 soil samples collected. Associated Geological Services, of Vancouver, was contracted to undertake the field survey of the sampling stations and also the actual sampling. The baseline as well as all the sampling stations are marked in the field by wooden pickets. The field work was carried out during the first half of September, 1970, and was severely hampered by unusual early snowfall and low temperatures. The area covered by the survey is delineated in Figure 4 of the stream sampling report (Sept. 10, 1970) and is given in detail together with the coordinates in Figure 1 of the present report. Most of the samples were taken from the B and C soil-horizons. According to ARCHER and MAIN ("Casino, Yukon - A geochemical discovery of an unglaciated Arizona-type porphyry", presented to International Geochemical Symposium at Toronto, 16 April, 1970; in press) these two horizons do not show a significant variation in their Cu and Mo contents.

The -80 mesh fraction of the 410 samples were analyzed by Bondar-Clegg & Company Ltd., of North Vancouver, for Cu, Mo, and Pb, using atomic absorption after hot aqua regia extraction.

The background value 'b' and threshold value 't' were estimated, since the data are obtained from geochemically anomalous area possessing high Cu and Mo-values. A statistical evaluation thus would yield unrealistically high parameters (Fig. 2).

The following 'b' and 't' values were used for contouring the geochemical maps:

	background 'b'	threshold 't'
Cu	50	100
Mo	5	10
Pb	20	70

Incidentally, similar values were used by ARCHER and MAIN in the Casino area.

## DISCUSSION OF RESULTS

### Copper (Fig. 3)

Two distinct high Cu-anomalies, accompanied by several smaller ones were discovered. The northeastern of the two distinct anomalies, between East Fork and South Fork, clearly occurs in terrain underlain by a porphyry stock. The four related smaller anomalies are also underlain by outcropping porphyries. The very strong Cu anomaly just to the south of the road, on the contrary, does not occur on outcropping terrain.

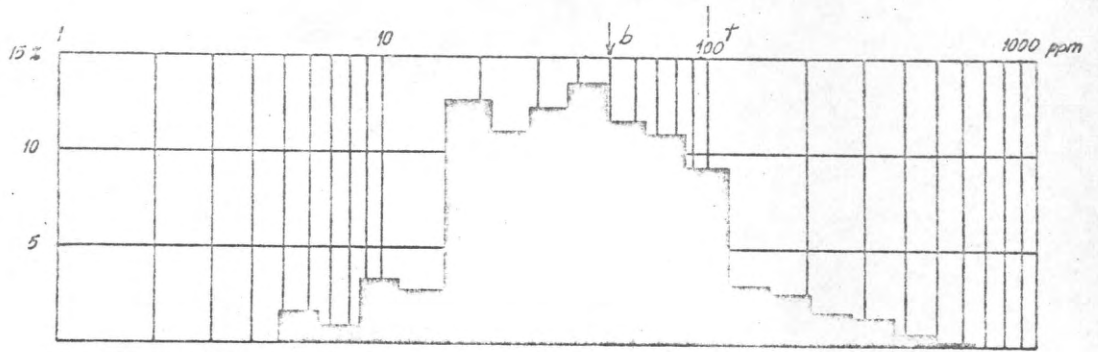
### Molybdenum (Fig. 4)

Molybdenum shows more or less similar patterns as Cu, but the anomalies are distinctly larger and somehow more sharply defined. It is interesting to note, that the strongest Cu anomaly -occurring just south of the road- is not accompanied by higher than background Mo-values.

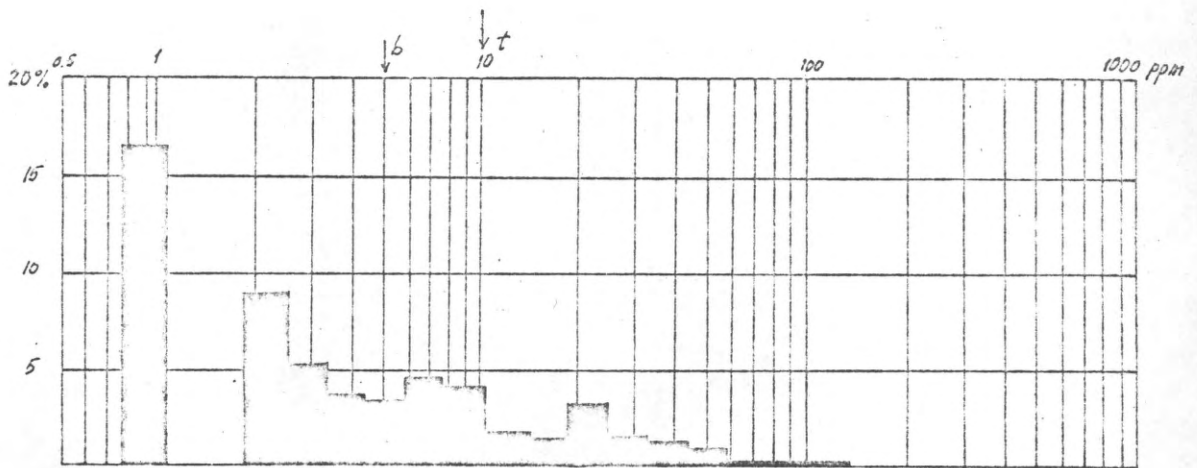
In Figure 5 the areas possessing Cu and Mo-values above threshold are combined, which results in two areas of potential interest. One area, 3,200 ft. x 1,600 ft. in dimension, occurs along East Fork, and a second area, 4,000 ft. x 1,200 ft. in dimension, lies some 2,000 ft. further to the east.

Lead (Fig. 6)

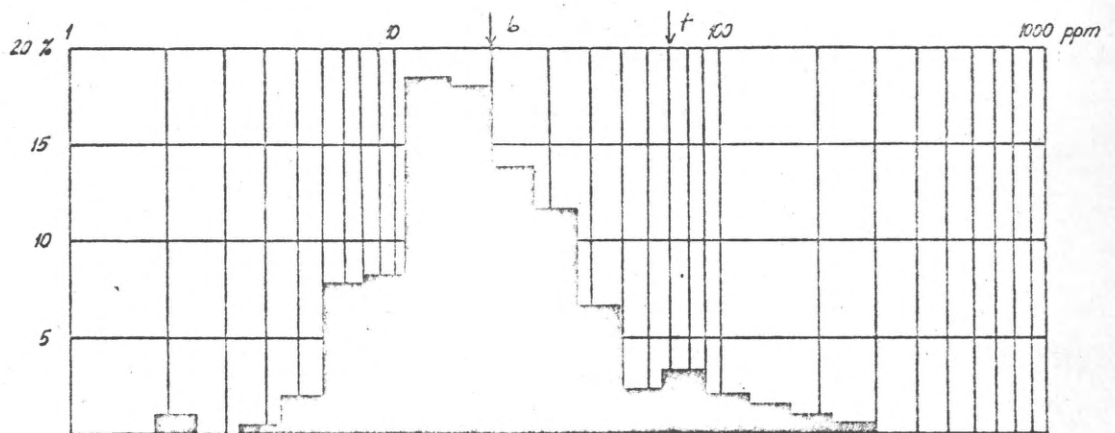
Above background and anomalous Pb-values occur partly within and partly outside of the Cu-Mo anomalies. The latter occurrence suggests peripheral mineralizations around the Cu-Mo anomalies, and are typical for porphyry ores.



A. Relative frequency histogram for Copper



B. Relative frequency histogram for Molybdenum. In 170 samples (41.3%) Mo not detected.



C. Relative frequency histogram for Lead

Fig. 2. Relative frequency histograms of Cu, Zn, Pb.

F. Bianconi - R. Saager

Mt. Nansen Mines Ltd.

GEOCHEMICAL SOIL SURVEY  
COPPER

Scale: 0 1600 ft.




October 1970

Fig. 3



BASELINE

LEGEND

-  50 - 99
-  100 - 199
-  200 + ppm

84W

72W

60W

48W

36W

24W

12W

0W

144N  
132N  
120N  
108N  
96N  
92N  
84N  
72N  
60N  
48N  
36N  
24N  
12N  
0N

F. Bianconi - R. Saager.

Mt. Nansen Mines Ltd.

# GEOCHEMICAL SOIL SURVEY MOLYBDENUM

Scale: 0 1600 ft.

October 1970

Fig. 4

144N

132N

120N

108N

96N

92N

84N

72N

60N

48N

36N

24N




12N

0N

BASELINE



## LEGEND

-  5-9
-  10-19
-  20 + ppm

84W

72W

60W

48W

36W

24W

12W

0W

F. Bianconi - R. Saager

Mt. Nansen Mines Ltd.

144N

GEOCHEMICAL SOIL SURVEY  
COPPER AND MOLYBDENUM

132N

Scale: 0 1600 ft.

October 1970

Fig. 5

120N

108N

96N

84N

72N

60N

48N

36N




24N

12N

0N

BASELINE

LEGEND

-  > 100 ppm Cu
-  > 10 ppm Mo
-  > 100 ppm Cu / > 10 ppm Mo

84W

72W

60W

48W

36W

24W

12W

0W

F. Bianconi - R. Saager

Mt. Nansen Mines Ltd.

# GEOCHEMICAL SOIL SURVEY LEAD



Scale: 0 1600 ft.

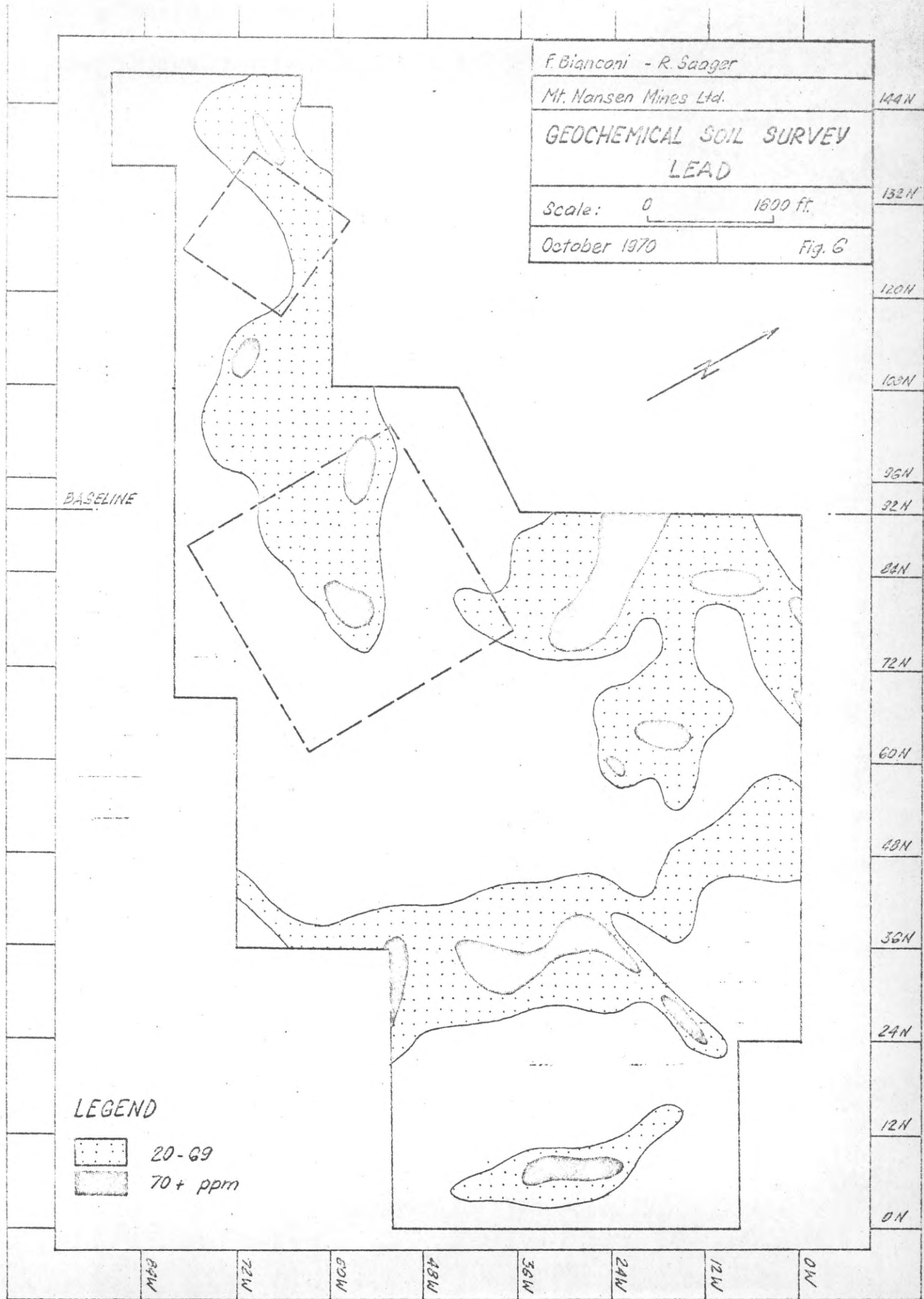
October 1970

Fig. 6

BASELINE

## LEGEND

-  20-69
-  70+ ppm



### CONCLUSIONS

As expected from the stream sampling survey two distinct Cu and Mo-anomalies, indicative of a porphyry ore mineralization, were found (Fig. 7). Compared with the anomalies of the Casino Cu-Mo prospect the geochemical Cu-Mo values of the Mt. Nansen anomalies possess the same magnitude. In areal extent, however, they are smaller and less regularly defined. The latter behaviour can possibly be attributed to the erratic overburden distribution -ranging from no overburden to thick, waterlogged detrital material- encountered in the area.

A further possible Cu-Mo anomaly lies at the west boundary of the surveyed area. Since it is determined by only few values and is open to the west, no conclusions were drawn as to its areal extent and magnitude.

### RECOMMENDATIONS

The target area, comprising some 20 claims, should be surveyed by a Land Surveyor, in order to establish the exact position of the Mt. Nansen claims. Subsequently the claims should be converted into 21-years mineral leases.

Before any drilling is undertaken a further detailed geological and geochemical survey should be carried out in the area outlined in Figure 7 (4,800 ft. x 7,600 ft.). In this area a 200 ft. grid should be soil sampled, and the pH of the water and soils determined. In addition, the area should be geologically mapped. In order to obtain best possible results this survey has to be carried out under optimum field conditions, preferably at beginning of the summer.

The results of this proposed detailed survey must be considered as the basis for the future drilling programme.

The cost of the next exploratory phase, comprising Land Surveyor, geological and geochemical investigations, and initial drilling, are thought to be in the magnitude of \$ 50,000 to \$ 70,000.

October 26, 1970

F. Bianconi - R. Saager

Mt. Nansen Mines Ltd.

144N

### GEOCHEMICAL SOIL SURVEY RESULTS AND RECOMMEND.

Scale: 0 1600 ft.

132N

October 1970

Fig. 7

120N

4W

112N

108N

East Fork

96N

92N

South Fork

84N

Discovery Creek

72N

Road to Mt. Nansen camp

60N

48N

36N

36N

PROPOSED AREA OF DETAILED GEOLOGICAL AND GEOCHEMICAL SURVEYS


Victoria Cr.

24N

12N

#### LEGEND

 Fault

 Copper and/or Molybdenum Anomalies

0N

84W

72W

60W

48W

36W

24W

12W

0W

## ANALYTICAL RESULTS

SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm	SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm
L-0M-24N	20	9	1	L-0M-68N	24	9	3
L-0M-28N	24	10	ND	L-4M-72N	20	31	1
L-0M-32N	13	8	ND	L-4M-76N	29	42	3
L-0M-36N	28	11	ND	L-4M-80N	21	35	ND
L-0M-40N	35	8	ND	L-0M-84N	100	44	1
L-0M-44N	31	10	1	L-4M-88N	11	15	ND
L-0M-48N	6	18	ND	L-8M-0N	35	29	ND
L-0M-52N	10	6	ND	L-8M-4N	25	17	ND
L-0M-56N	15	21	1	L-8M-12N	38	10	ND
L-0M-64N	26	8	ND	L-8M-16N	16	13	ND
L-0M-68N	70	70	7	L-8M-20N	20	19	ND
L-0M-76N	15	22	ND	L-8M-24N	25	18	ND
L-0M-80N	46	155	2	L-8M-28N	43	25	ND
L-0M-84N	23	8	ND	L-8M-36N	55	13	2
L-0M-88N	24	18	ND	L-8M-40N	80	13	2
L-0M-92N	16	24	ND	L-8M-52N	43	29	2
L-0M-24N	40	14	ND	L-8M-60N	125	17	ND
L-0M-30N	12	12	ND	L-8M-64N	6	19	ND
L-0M-40N	13	12	ND	L-8M-68N	16	26	ND
L-0M-44N	27	9	ND	L-8M-76N	50	32	1
L-0M-48N	145	18	3	L-8M-80N	60	20	ND
L-4M-52N	83	23	1	L-8M-84N	255	175	25
L-4M-56N	100	27	7	L-8M-88N	30	35	
L-4M-60N	82	35	4	L-12M-0N	14	38	
L-4M-64N	34	20	ND	L-12M-4N	10	10	ND

SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm	SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm
L-12W-8N	46	36	ND	L-16W-32N	25	13	3
L-12W-12N	22	14	ND	L-16W-36N	58	13	11
L-12W-16N	20	21	ND	L-16W-40N	325	27	41
L-12W-20N	21	16	ND	L-16W-44N	92	35	56
L-12W-24N	60	30	ND	L-16W-48N	75	23	6
L-12W-28N	19	15	ND	L-16W-52N	80	18	5
L-12W-32N	14	35	ND	L-16W-56N	46	29	3
L-12W-36N	50	8	5	L-16W-60N	85	48	13
L-12W-40N	98	13	21	L-16W-64N	76	94	19
L-12W-44N	96	10	4	L-16W-68N	83	57	42
L-12W-48N	68	24	9	L-16W-72N	157	38	36
L-12W-52N	75	27	2	L-16W-76N	140	30	26
L-12W-56N	25	15	7	L-16W-80N	44	24	7
L-12W-64N	40	17	ND	L-16W-84N	45	37	2
L-12W-68N	104	37	3	L-16W-88N	50	18	ND
L-12W-72N	30	19	1	L-16W-92N	42	40	4
L-12W-76N	70	12	3	20W-0N	20	22	ND
L-12W-80N	33	17	1	20W-4N	65	18	ND
L-12W-84N	193	140	19	20W-8N	6	10	ND
L-12W-88N	50	22	1	20W-12N	10	25	ND
L-12W-92N	33	33	2	20W-16N	24	12	ND
L-16W-0N	9	8	ND	20W-20N	42	5	1
L-16W-12N	35	15	ND	20W-24N	40	18	ND
L-16W-16N	31	25	ND	20W-28N	160	12	ND
L-16W-20N	38	19	1	20W-32N	25	21	ND
L-16W-24N	44	19	ND	20W-36N	80	9	2
L-16W-28N	50	295	1	20W-40N	94	29	15

SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm	SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm
20W-44N	25	17	8	L-24W-64N	26	14	1
20W-48N	26	14	9	L-24W-68N	85	44	2
20W-52N	65	24	6	L-24W-72N	65	17	10
20W-56N	22	10	3	L-24W-76N	34	25	5
20W-60N	36	14	2	L-24W-80N	185	94	33
20W-64N	137	140	7	L-24W-84N	280	86	19
20W-68N	65	52	13	L-24W-92N	175	105	9
20W-72N	145	38	15	28W-0N	66	30	ND
20W-76N	37	16	1	28W-8N	25	80	ND
20W-80N	42	22	4	28W-16N	6	12	ND
20W-84N	97	29	7	28W-20N	50	7	ND
20W-88N	280	102	11	28W-24N	29	10	1
20W-92N	370	170	13	28W-28N	15	21	ND
L-24W-0N	72	23	2	28W-40N	48	78	13
L-24W-4N	40	20	ND	28W-44N	140	29	19
L-24W-8N	43	75	ND	28W-48N	67	44	9
L-24W-12N	22	20	ND	28W-52N	105	28	49
L-24W-16N	33	12	ND	28W-56N	40	17	22
L-24W-20N	10	30	ND	28W-60N	18	9	ND
L-24W-28N	44	27	1	28W-64N	31	18	ND
L-24W-36N	42	125	2	28W-68N	55	37	5
L-24W-40N	90	20	23	28W-72N	144	18	4
L-24W-44N	95	22	22	28W-76N	400	255	82
L-24W-48N	50	18	16	28W-80N	70	120	9
L-24W-52N	95	50	35	28W-88N	230	40	37
L-24W-56N	32	17	4	L-32W-0N	16	12	1
L-24W-60N	67	73	3	L-32W-4N	20	66	4

SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm	SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm
L-32W-8N	32	205	1	L-36W-92N	54	12	6
L-32W-16N	6	11	ND	40W-20N	15	34	ND
L-32W-24N	44	23	ND	40W-24N	70	12	1
L-32W-28N	53	13	ND	40W-32N	115	170	3
L-32W-32N	24	54	ND	40W-36N	54	97	1
L-32W-36N	70	78	ND	40W-40N	33	35	ND
L-32W-40N	105	14	22	40W-44N	69	20	1
L-32W-52N	94	7	2	40W-48N	26	7	2
L-32W-56N	175	25	29	40W-52N	18	6	ND
L-32W-64N	35	10	6	40W-60N	54	10	3
L-32W-68N	45	13	ND	40W-66N	45	11	4
L-32W-72N	182	18	2	40W-72N	102	7	6
L-36W-8N	25	44	ND	40W-80N	78	23	26
L-36W-12N	18	19	ND	40W-84N	96	18	13
L-36W-16N	50	15	ND	40W-88N	76	12	25
L-36W-20N	24	10	1	40W-92N	108	25	19
L-36W-32N	25	35	ND	40W-96N	95	8	3
L-36W-36N	50	37	ND	40W-100N	132	9	45
L-36W-48N	105	15	14	44W-4N	72	29	2
L-36W-52N	101	10	16	44W-8N	12	17	ND
L-36W-56N	110	9	2	44W-12N	36	10	ND
L-36W-60N	142	10	21	44W-16N	12	7	1
L-36W-66N	77	8	5	44W-24N	6	10	1
L-36W-72N	21	10	2	44W-32N	40	45	1
L-36W-80N	50	65	9	44W-36N	103	69	1
L-36W-84N	19	19	1	44W-40N	43	34	1
L-36W-88N	25	32	12	44W-44N	44	13	5

SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm	SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm
44M-48N	57	8	5	52M-28N	42	103	1
44M-52N	90	11	52	52M-32N	300	68	2
44M-64N	109	12	9	52M-36N	47	95	1
44M-72N	240	13	105	52M-40N	42	37	ND
44M-80N	35	24	7	52M-48N	19	5	ND
44M-92N	64	15	16	52M-52N	90	27	1
44M-96N	87	16	31	52M-56N	25	8	1
44M-100N	200	14	63	52M-60N	62	14	ND
48M-12N	23	13	ND	52M-68N	40	13	ND
48M-16N	14	5	ND	52M-72N	50	15	ND
48M-24N	20	5	ND	52M-76N	51	10	ND
48M-28N	15	35	1	52M-80N	42	15	1
48M-36N	48	43	1	52M-84N	51	5	1
48M-44N	20	8	ND	52M-88N	33	10	9
48M-48N	64	17	ND	52M-92N	42	11	6
48M-52N	13	9	ND	52M-96N	66	8	3
48M-56N	92	14	1	52M-100N	41	22	5
48M-60N	28	10	1	56M-36N	14	25	ND
48M-64N	83	9	ND	56M-44N	14	8	1
48M-72N	66	8	ND	56M-52N	59	15	1
48M-80N	34	33	9	56M-56N	56	14	1
48M-92N	65	8	12	56M-60N	83	18	1
52M-0N	24	29	ND	56M-64N	36	8	ND
52M-16N	11	24	1	56M-80N	74	116	10
52M-20N	7	31	1	56M-84N	41	23	2
52M-24N	21	130	2	56M-88N	270	30	2

SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm	SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm
44M-48N	57	8	5	52M-28N	42	103	7
44M-52N	50	11	52	52M-32N	300	68	2
44M-56N	709	12	9	52M-36N	47	95	7
44M-72N	240	73	105	52M-40N	42	37	ND
44M-80N	36	24	7	52M-48N	19	5	ND
44M-82N	64	15	16	52M-52N	90	27	7
44M-86N	87	16	37	52M-56N	25	8	7
44M-100N	200	14	63	52M-60N	62	14	ND
44M-12N	23	13	ND	52M-64N	40	13	ND
44M-16N	14	5	ND	52M-72N	50	15	ND
44M-24N	20	5	ND	52M-76N	51	13	ND
44M-32N	15	35	7	52M-80N	42	15	7
44M-36N	48	43	7	52M-84N	57	5	7
44M-44N	20	8	ND	52M-88N	33	10	9
44M-48N	64	17	ND	52M-92N	42	17	6
44M-52N	18	9	ND	52M-96N	66	8	3
44M-56N	92	14	7	52M-100N	47	22	5
44M-60N	28	10	7	56M-36N	14	25	ND
44M-64N	88	9	ND	56M-44N	14	8	7
44M-72N	66	8	ND	56M-52N	59	15	7
44M-80N	34	33	9	56M-56N	56	14	7
44M-82N	65	8	12	56M-60N	03	18	7
52M-8N	24	29	ND	56M-64N	36	8	ND
52M-16N	11	24	7	56M-80N	74	118	10
52M-20N	7	37	7	56M-84N	47	23	2
52M-24N	21	130	2	56M-88N	270	33	2

SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm	SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm
68W-56N	60	15	ND	L-72W-56N	104	22	ND
68W-60N	37	12	ND	L-72W-60N	62	33	ND
68W-64N	21	33	ND	L-72W-64N	56	15	3
68W-68N	24	14	ND	L-72W-68N	21	8	ND
68W-72N	16	10	ND	L-72W-72N	49	39	10
68W-76N	23	17	ND	L-72W-76N	21	11	ND
68W-80N	33	34	1	L-72W-80N	17	15	ND
68W-84N	70	14	1	L-72W-84N	9	2	ND
68W-88N	47	20	ND	L-72W-88N	156	22	15
68W-92N	85	21	1	L-72W-92N	30	8	ND
68W-96N	33	29	3	L-72W-96N	19	13	ND
68W-100N	60	62	4	L-72W-100N	43	27	1
68W-104N	36	45	1	L-72W-108N	67	20	3
68W-108N	50	27	1	L-72W-112N	113	105	5
68W-112N	35	22	1	L-72W-116N	46	17	2
68W-116N	68	27	5	L-72W-120N	32	12	ND
68W-120N	21	12	ND	L-72W-124N	24	10	ND
68W-128N	26	12	ND	L-72W-128N	25	7	1
68W-136N	20	68	2	L-72W-132N	24	12	ND
68W-140N	60	86	3	L-72W-140N	22	17	ND
68W-144N	23	67	3	L-76W-60N	40	13	7
68W-148N	19	28	ND	L-76W-72N	73	8	9
L-72W-36N	19	20	ND	L-76W-74N	19	7	2
L-72W-40N	19	13	ND	L-76W-80N	40	14	6
L-72W-44N	69	27	4	L-76W-84N	10	2	ND
L-72W-48N	19	5	ND	L-76W-88N	6	4	ND
L-72W-52N	123	25	ND	-76W-92	9	2	ND

SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm	SAMPLE NO.	Cu ppm	Pb ppm	Mo ppm
L-78W-68N	35	24	ND	L-80W-50N	22	39	ND
L-78W-70N	44	20	ND	L-80W-72N	71	74	ND
L-78W-70N	32	22	ND	L-80W-76N	42	70	1
L-78W-70N	21	14	ND	L-80W-80N	73	21	2
L-78W-72N	79	15	ND	L-80W-84N	28	4	ND
L-78W-76N	19	72	ND	L-80W-88N	72	78	ND
L-78W-78N	23	14	ND	L-80W-92N	73	14	ND
L-78W-78N	44	13	3	L-80W-96N	40	22	ND
L-78W-78N	11	2	ND	L-80W-100N	21	8	ND
L-78W-78N	17	8	ND	L-80W-108N	46	72	7
L-78W-78N	88	74	4	L-80W-112N	42	75	5
L-78W-78N	102	30	5	L-80W-116N	73	72	ND
L-78W-78N	50	24	9	L-80W-120N	75	70	ND
L-78W-78N	26	13	2	L-80W-124N	35	70	ND
				L-80W-128N	32	72	ND
				L-80W-136N	60	74	6
				L-80W-140N	32	72	2
				L-80W-140N	26	75	6
				L-80W-136N	67	74	7
				L-80W-140N	165	25	70
				L-80W-140N	60	7	7
				L-80W-136N	62	8	6
				L-80W-144N	340	73	80
				L-80W-148N	709	7	6