

GEOCHEMICAL ASSESSMENT REPORT

SEQUOIA 1-8, TAKU 1-52 M.C.

105-F-10

61°^{38'} - 132°^{38'}



NORANDA EXPLORATION COMPANY LIMITED

(No Personal Liability)

090416
November 1978

G. Macdonald

Stirling Expediting Ltd: August 23-30, 1978



This report has been examined by the Geological Evaluation Unit and is recommended to the Commission to be considered as representation work in the amount of

\$6,000.00

[Signature]
Resident Geologist or
~~Resident Mining Engineer~~

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

[Signature]
B. R. BAXTER
Supervising Mining Recorder

[Signature]
Commissioner of Yukon Territory



NORANDA EXPLORATION COMPANY LIMITED
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040416
November 1978

Surveying Swearing In: 1st August 1978

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GEOCHEMICAL REPORT ON TAKU 1-52 AND SEQUOIA 1-8 M.C.
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INTRODUCTION

The claims referred to in this report are registered in the name of Noranda Exploration Company Limited (No Personal Liability). The claim group consists of 60 Taku claims and 8 Sequoia claims.

The property is located 3 miles east of Seagull Lakes at the head of the McConnell River, 25 miles southwest of Ross River, Yukon Territory, on claim sheet 105-F-10. Access is by helicopter from Ross River.

Line cutting and geochemical soil sampling were conducted during the period August 23-30, 1978 by Stirling Expediting Ltd., as contractor to Noranda.

Survey control is provided by chained and compassed lines 200 and 400 meters apart with stations every 100 meters forming a grid pattern (see Drawing No. 1).

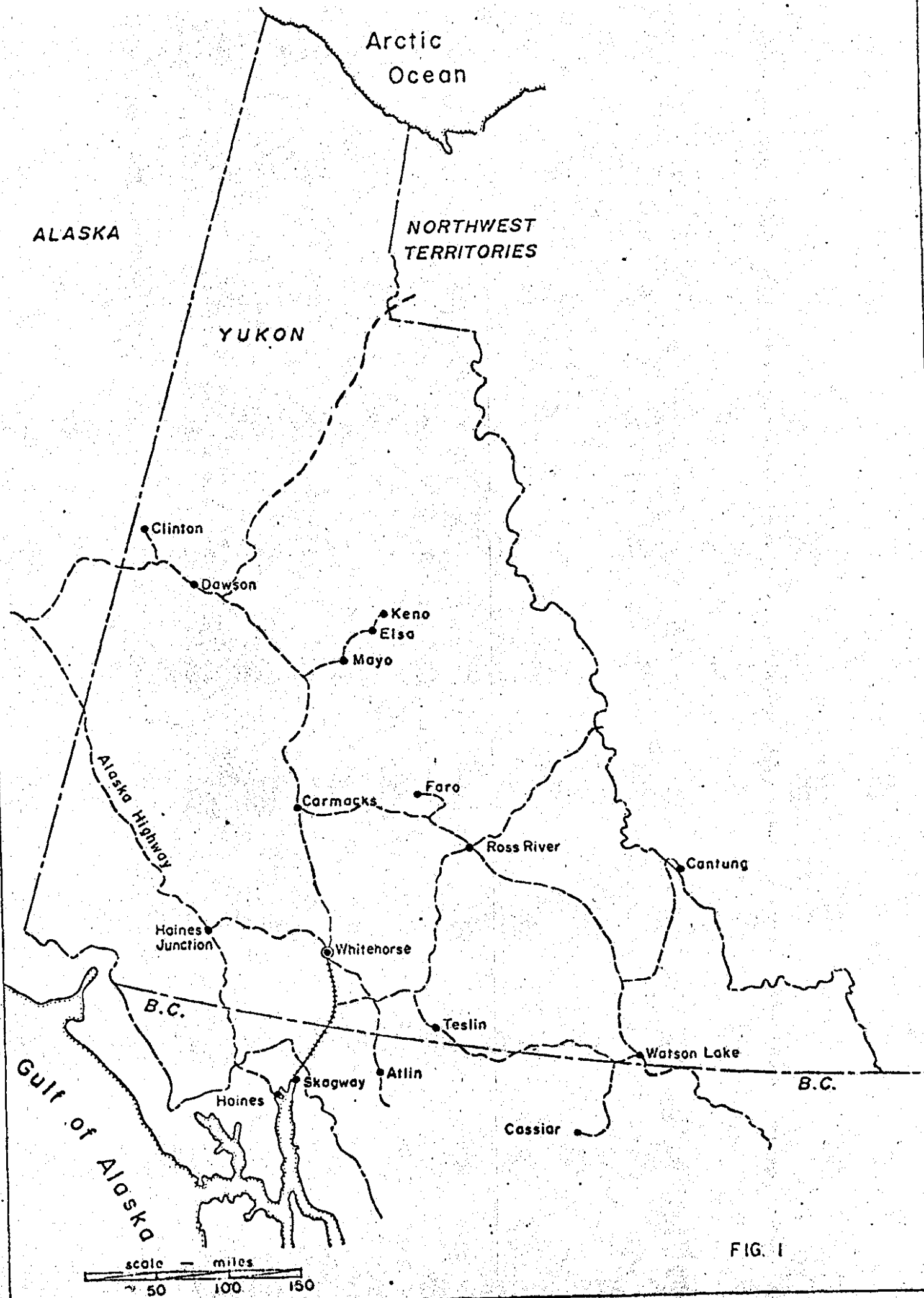
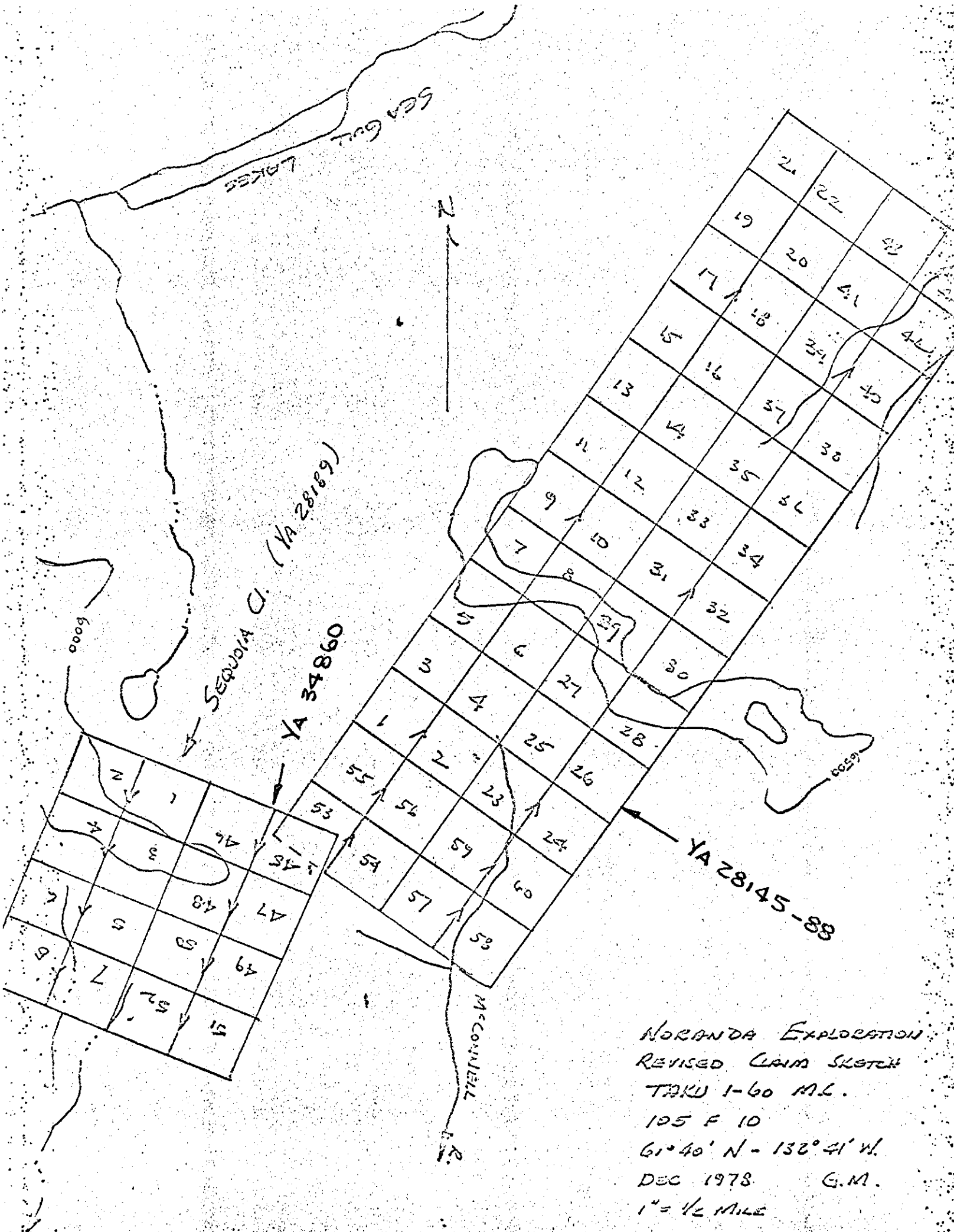


FIG. 1



NORANDA EXPLORATION
 REVISED CLAIM SKETCH
 TAKU 1-60 M.L.
 105 F 10
 61° 40' N - 132° 41' W.
 DEC 1978 G.M.
 1" = 1/2 MILE

GEOCHEMICAL SOIL SURVEY

All soils were analyzed for copper, lead, zinc and molybdenum in the Noranda Exploration Company Limited laboratory located at 1050 Davie Street, Vancouver, British Columbia; analyst was Evert Van Leeuwen.

Sampling Method

Samples were obtained by digging holes with a maddock to a depth, if feasible, where the visible B horizon or sub-outcrop was encountered. The B horizon was sampled whenever possible. The samples were placed in "Hi West Strength Kraft 3½ x 6 1/8" Open End" envelopes and the grid station was marked on the envelopes with indelible felt pen.

Laboratory Determination Method

The samples are first placed in a drying cabinet for a period of 24 to 48 hours; the sample material is then screened and sifted to obtain a -80 mesh fraction.

The determination procedure for total copper, lead, zinc and molybdenum is as follows:

0.200 grams of the -80 mesh material is digested in 2 ml of HClO_4 and 0.5 ml of HNO_3 for approximately 4 hours. Following digestion, each sample is diluted to 5 ml with de-mineralized H_2O . A varian Techtron Model AA-5 Atomic Absorption Spectrophotometer was used to determine the parts per million copper, lead, zinc and molybdenum content in each sample.

The Theory of Atomic Absorption Spectrophotometer is fully described in the literature and will not be elaborated upon in this report.

Discussion of Results

Geochemical results are presented on plans with a scale of 1:10000 (Drawings 2 and 3).

Cu-Mo and Pb-Zn responses will be discussed separately.

(i) Pb-Zn

Zinc values greater than 300 ppm and lead values greater than 100 ppm are considered anomalous. A linear area of anomalous zinc values occurs from 40N to 50N, from 50E to 42E (generally from 49E to 45E) and from 50N to 56N from 50E to 53E. Other anomalous values occur erratically throughout the grid. Lead values were more subdued and anomalous locations tend to be coincident with the higher zinc values.

(ii) Cu-Mo

Cu values greater than 85 ppm and Mo values greater than 15 ppm are considered anomalous. Only random anomalous Cu values were obtained. These samples tend to correlate somewhat with anomalous zinc samples.

Weakly anomalous Mo values were obtained erratically at several locations. Cu and Mo anomalous values are not significantly coincident.

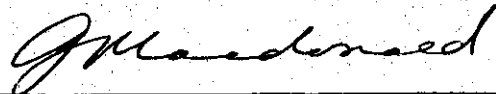
Anomalous Pb/Zn and Cu results probably reflect mineralization in meta-volcanic rocks (acid tuffs(?) or trachytes(?)) and chert. (Minor galena and sphalerite were noted in the vicinity of 45E/46N). Anomalous Mo results probably reflect minor molybdenum mineralization in small granitic dykes peripheral to a syenite plug.

CONCLUSIONS AND RECOMMENDATIONS

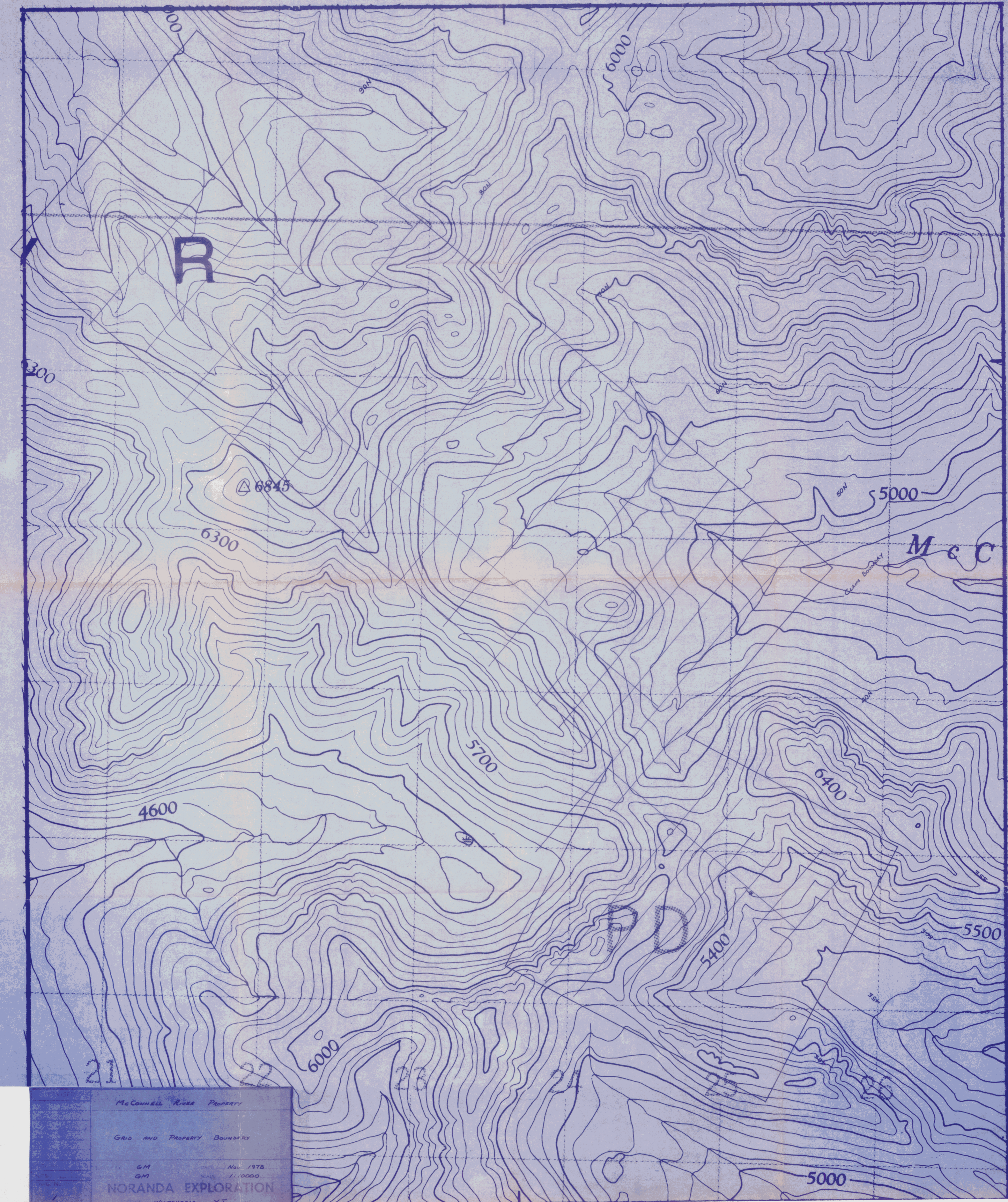
Geochemical results obtained in 1978 on the Taku and Sequoia claims have provided target areas for further evaluation.

Mapping, prospecting and geophysical surveying are warranted on the claims.

Submitted by:

A handwritten signature in cursive script, appearing to read "G. Macdonald", is written above a horizontal line.

G. Macdonald, Geologist.
November 1978.



McCONNELL RIVER PROPERTY

GRID AND PROPERTY BOUNDARY

SURVEY BY GM DATE Nov. 1978
GM SCALE 1:10000

NORANDA EXPLORATION

PROPERTY NO. 1

30 E

35 E

40 E

45 E

50 E

55 E

60 E

65 E



94 N

210	74	68	110	60	86	88	94	78	84	54	78	320	18	12	74	42	34	64	60
20	14	18	16	14	18	18	22	20	28	18	18	18	6	6	30	38	18	30	18

90 N

230	88	04	130	24	110	350	140	68	54	92	80	10	58	44	44	42	110
42	22	18	20	24	20	36	64	28	12	32	22	14	18	12	10	26	54

86 N

32	110	96	120	200	110	180	300	260	120	110	8	140	110	120					
14	22	20	40	370	24	140	190	120	18	18	1	74	36	28					

82 N

74	82	210	210	230	110	350									150	76	84	68	48
24	28	42	74	48	34	30									38	16	24	16	32

78 N

38	40	44	22	80	100	120	96	160	150										
20	14	16	12	10	18	34	18	24	56										

72 N

170	76	54	38	96	20	54	20	150	300	110	290	80	280	220					
110	38	24	22	24	16	16	10	160	72	30	220	32	38	52					

68 N

80	440	280	730	170	92	62	42	60	80	2	310	210	140		92	130	44	30	36
26	18	20	24	32	12	26	12	14	28	10	110	28	40		24	62	22	14	14

64 N

38	40	78	26	34	10	300	490	280	390	90	22	120	150	20	54	70	20	38	24
14	16	44	10	18		26	80	38	30	18	20	28	34	20	20	24	18	18	16

60 N

26	60	18	270	490	130	280	200	110	1200	360	300	210	110	38	200	68	50	50	50
10	18	16	72	86	30	14	16	32	22	28	30	26	14	14	18	28	12	8	8

56 N

60	72	50	260	92	160	210	250	270	270	210	360	320	140	170	110	180	80	22	140
130	62	24	32	22	24	24	18	40	38	36	24	28	30	36	34	34	14	4	28

52 N

80	60	76	410	290	460	490	260	210	270	210	82	32	210	290	500	300	48	54	36
26	28	42	76	210	12	150	36	36	42	32	4	4	26	66	130	52	10	8	6

50 N

360	650	880	600	630	750	1300	550	590	630	240	620	400	94	120	100	360	260	1600	62	680	62	870	150	220	74
54	84	110	120	140	94	20	62	72	28	210	140	50	28	36	20	42	14	510	16	170	10	150	32	120	22

44 N

340		260	300	410	30	58	18	72		64	170	320	1800	470	620	450	290									
54		28	30	18	22	14	6	30		36	58	92	18	10	3000	64	44									

40 N

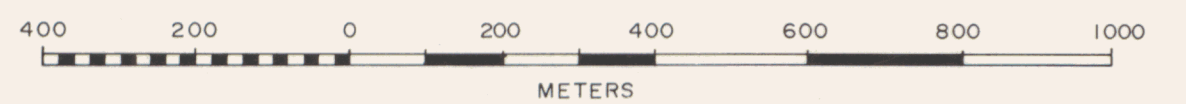
100	88	130	270	46	54	28	80	36	38	18	130	190	320	66	850	500										
36	46	26	42	8	14	6	30	8	12	6	40	36	100	18	110	110										

36 N

100	290	100	8	10	20	210	46	44	210	250																	
76	16	32	2	6	4	150	32	22	18	86																	

34 N

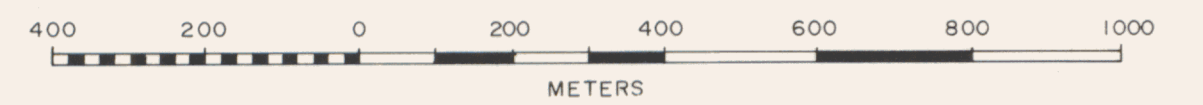
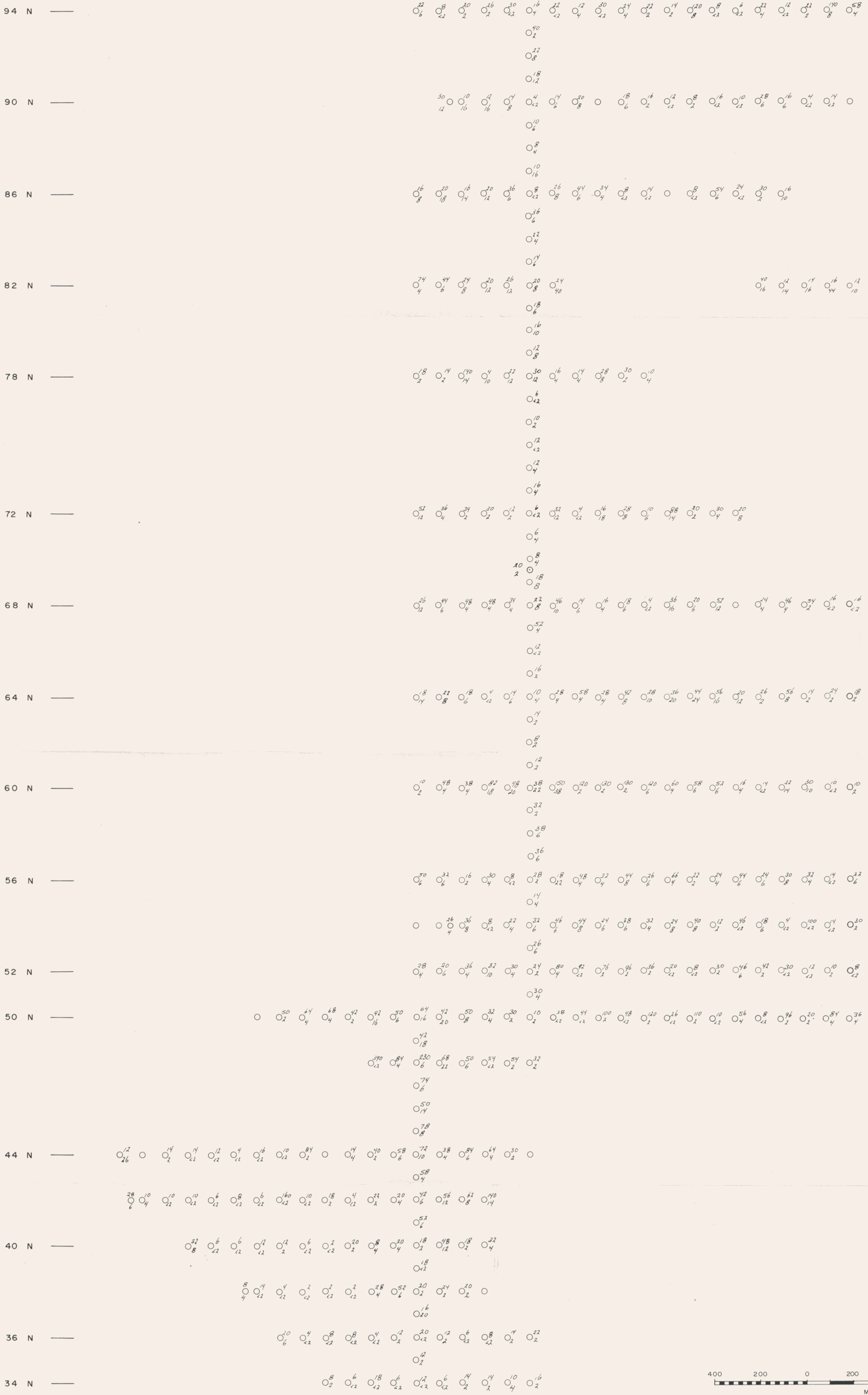
320	20	160	74	58	88	62	72	26																			
300	8	100	26	18	48	46	46	18																			



250 - Zn
34 - Pb
18 - Ag

REVISED	Mc CONNELL RIVER PROPERTY	
	GEOCHEMICAL SOIL SURVEY Zn, Pb, Ag IN P.P.M.	
PROJ. No. 9093	SURVEY BY: G. M.	DATE: OCT. 1978
N.T.S. 105 F/10	DRAWN BY: J. V. V.	SCALE: 1:10,000
DWG. No. 2	NORANDA EXPLORATION OFFICE: VANCOUVER	

30 E 35 E 40 E 45 E 50 E 55 E 60 E 65 E



36 - Cu
4 - Mo

REVISED	Mc CONNELL RIVER PROPERTY	
	GEOCHEMICAL SOIL SURVEY Cu, Mo IN P.P.M.	
PROJ. No. 9093	SURVEY BY: G. M.	DATE: OCT. 1978
N.T.S. 1:105,710	DRAWN BY: J. V. V.	SCALE: 1:10,000
DWG. No. 3	NORANDA EXPLORATION	
	OFFICE: VANCOUVER	