

ROCK GEOCHEMICAL REPORT

D.D.H. NB-1

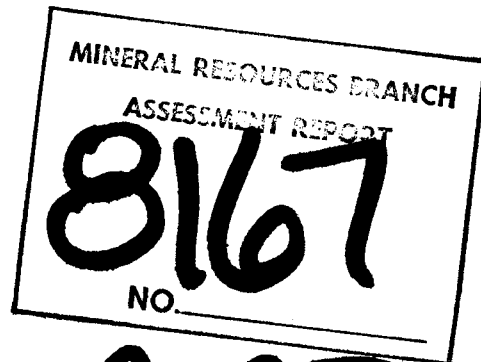
BUTTERS CREEK PROJECT

N.T.S. 82K/14W

AMAX - NORANDA JOINT VENTURE

T. Lewis

May 1980



PART  
2 of 2

Table of Contents

	<u>Page</u>
Introduction	1
Sampling Procedure	1
Discussion of Results	1
Molybdenum	1
Copper	1
Iron	1
Lead	2
Zinc	2
Gold and Silver	2
Silica Dioxide	2
Sulphur	2
Fluorine	2
K <sub>2</sub> O	2
Na <sub>2</sub> O	2
Tungsten	2
Maps	In Pocket
% Fe )	
PPM Cu ) Map #1	
PPM Mo )	
PPM Zn )	
PPM Pb ) Map #2	
PPM F )	
% S ) Map #3	
% SiO <sub>2</sub> )	
% Na <sub>2</sub> )	
% K <sub>2</sub> O ) Map #4	
% CaO )	
PPM W ) Map #5	
Assay Results	In Pocket

## INTRODUCTION

During August and September, 1979, a diamond drill hole was completed on the Butters Creek cirque. Results of this drilling and an account of exploration in the area during the 1979 field season is contained in an earlier Noranda-Amax Joint Venture report (see Diamond Drilling, Geological and Geochemical Report on the Butters Creek Property by B.B. Hughes, 1979).

The purpose of this report is to report and assess the results of a rock geochemical study done on the Butters Creek drill hole, designated Diamond Drill Hole NB-1.

## SAMPLING PROCEDURE

At the completion of the hole, the core was assembled and selected sections were shipped to Kamloops by Noranda employees for splitting. The samples were prepared by splitting the NQ or BQ core depending on where the samples were taken in the hole. The length of core sample was determined by the length of one run in a 5 foot core box, or approximately 1.4 metres. The samples were placed in plastic bags, labelled and shipped to Rossbacher Laboratory, Burnaby, B.C. for analysis.

A total of 155 rock samples were analysed for Mo, Cu, S, Fe, Zn, Pb, Ag, Au, W and F. Of these total of 49 selected samples were also analysed for SiO<sub>2</sub>, CaO, K<sub>2</sub>O, and Na<sub>2</sub>O. The results of the analysis have been plotted on graphs depicting concentration versus drill hole depth (see drawings 1-5).

## DISCUSSION OF RESULTS

### Molybdenum

The molybdenum values ranged from a low of 1 ppm to a high of 470 ppm. The molybdenum concentration is closely related to the degree of quartz-muscovite-pyrite alteration between intervals 175 metres to 188 metres, and 240 metres to 515 metres. Although the values are somewhat erratic in this area, it does, however, outline a potential zone of 275 metres capable of hosting molybdenum mineralization.

### Copper

The copper values range from a low of 1 ppm to a high of 238 ppm. Copper concentrates appear to be somewhat offset from the molybdenum values, and attain their highest peaks between 300 metres and 600 metres. Although the copper overlaps the molybdenum peaks, the copper occurs lower down in the section.

### Iron

Iron is plotted in terms of percentages, and ranges from 0.4% to 5.6%. The highest concentration closely follows the molybdenum concentrations associated with the quartz-muscovite-pyrite alteration. In addition, the iron values peak at the contact between the Butters Stock and the Battle Porphyry at 600 metres.

### Lead

The lead values range from a low of 2 ppm to a high of 34 ppm. There is also a sporadic increase in lead between 275 metres to 350 metres.

### Zinc

The zinc content ranges from 6 ppm to 110 ppm. Zinc is very erratic but tends to be depleted between 300 metres to 450 metres, and increases associated with the Butters Stock.

### Gold and Silver

The gold and silver values are quite low, with gold constantly 10 ppb, with the occasional peak to 60 ppb. Silver is constantly 0.2 ppm, with an occasional rise to .4 ppb.

### Silica Dioxide

Silica dioxide ranges between 50% to 65% with the average about 55%. No trends could be concluded.

### Sulphur

Sulphur ranges from a low of .05% to a high of 5.40%. The sulphur concentration is closely related to the quartz-muscovite-pyrite alteration and peaks between 150 metres and 450 metres.

### Fluorine

The fluorine content ranges from a low of 420 ppm to a high of 1180 ppm. The values vary greatly, and no relationships could be detected.

### K<sub>2</sub>O

Potassium ranges from a low of 2.6% to a high of 6%. The potassium appears to form two populations, with a increase in potassium from 50 metres to 475 metres, and a decrease from 475 metres to the end of the hole.

### Na<sub>2</sub>O

No trends can be detected from the sodium graph.

### Tungsten

Tungsten values are nearly all zero, except for a spectacular increase to 1400 ppm at 459.49 metres.

ASSAY RESULTS

ROCK GEOCHEMICAL REPORT

D.D.H. NB-1

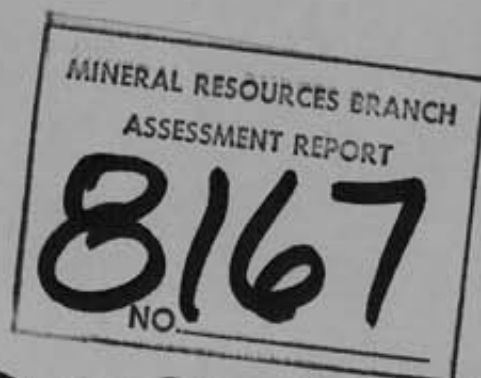
BUTTERS CREEK PROJECT

N.T.S. 82K/14W

AMAX - NORANDA JOINT VENTURE

T. Lewis

May 1980



PART 2 of 2

# Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,  
 BURNABY, B.C. KAMLOOPS  
 CANADA  
 TELEPHONE: 299-6910


## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 9468-1  
 INVOICE NO. 0045  
 DATE ANALYSED JAN. 1980  
 PROJECT 38 # 12-34

NORANDA EXPLORATION CO LTD.  
 TO: 1050 Davie Street  
 Vancouver, B.C. B. Hughes (BUTTERS J.V.)

No.	Sample	pH	PPM Mo	PPM Cu	% S	% Fe	PPM Zn	PPM Pb	PPM Ag	PPM Au	PPM W	PPM F	No.
170.4 - 171.80	72 26		1	7	1.80	1.6	30	14	0.2	10	0	710	01
171.8 - 173.20	27		1	6	0.50	1.8	30	12	0.2	10	15	840	02
173.2 - 174.60	28		1	6	0.50	1.3	26	20	0.2	10	0	1050	03
174.6 - 175.80	29		1	6	0.55	1.6	28	18	0.2	10	0	1040	04
175.8 - 177.30	30		1	3	0.80	1.8	28	10	0.2	10	0	790	05
177.3 - 178.80	31		3	4	0.30	1.9	32	8	0.2	10	0	720	06
178.8 - 180.30	32		220	2	4.50	4.6	14	2	0.2	40	0	910	07
180.3 - 181.90	33		4	3	1.00	1.5	14	10	0.2	10	0	840	08
181.9 - 183.30	34		4	2	2.60	2.3	8	2	0.2	10	0	820	09
183.3 - 184.70	35		3	2	3.20	2.2	6	2	0.2	10	0	930	10
184.7 - 186.10	36		200	4	4.00	2.9	10	2	0.2	10	0	1000	11
186.1 - 187.40	37		4	3	2.80	1.8	12	8	0.2	10	0	890	12
187.46 - 188.80	38		20	3	4.40	2.8	6	6	0.2	10	0	710	13
188.8 - 190.20	39		1	3	0.75	1.4	20	8	0.2	10	0	830	14
190.2 - 191.60	40		1	4	0.40	1.8	28	12	0.2	10	0	880	15
191.6 - 193.00	41		1	5	0.55	1.4	20	10	0.2	10	0	780	16
193.0 - 194.10	42		1	3	1.40	1.3	18	10	0.2	10	0	870	17
194.1 - 195.20	43		1	3	0.75	1.1	14	30	0.4	10	0	1080	18
195.2 - 196.30	44		1	3	1.00	1.0	10	12	0.2	10	0	1070	19
196.3 - 197.40	45		1	3	0.85	1.4	14	10	0.2	10	0	1090	20
197.4 - 199.00	46		1	2	1.90	1.8	12	10	0.2	10	0	730	21
199.0 - 200.60	47		1	5	1.30	1.2	12	8	0.2	10	0	740	22
200.6 - 202.20	48		1	5	0.95	1.6	20	14	0.2	10	0	760	23
202.2 - 203.90	49		1	4	0.60	1.9	26	12	0.2	10	0	720	24
203.9 - 205.10	50		1	5	0.70	1.8	28	16	0.2	10	0	860	25
205.1 - 206.30	51		1	2	0.15	2.0	38	12	0.2	10	0	780	26
206.3 - 207.50	52		4	3	0.20	1.9	32	12	0.2	10	0	730	27
207.5 - 208.80	53		1	5	0.20	1.8	30	12	0.2	10	0	700	28
208.8 - 210.20	54		1	3	0.50	1.9	30	12	0.2	10	0	790	29
210.2 - 211.60	55		1	3	0.30	2.0	36	10	0.2	10	0	760	30
211.6 - 213.00	56		1	5	0.20	2.1	42	12	0.2	10	0	560	31
213.0 - 214.70	57		1	4	0.15	2.2	40	8	0.2	10	0	580	32
214.7 - 216.10	58		1	4	0.15	2.0	38	16	0.2	10	0	710	33
216.1 - 217.50	59		1	3	0.10	1.9	33	20	0.2	10	0	640	34
217.5 - 218.90	60		1	6	0.40	1.8	30	26	0.2	10	100	750	35
218.9 - 220.40	61		1	3	0.80	1.6	24	20	0.2	10	0	920	36
220.4 - 221.80	62		1	4	0.65	1.8	26	22	0.2	10	0	860	37
221.8 - 223.20	63		1	3	1.10	1.3	20	26	0.4	10	0	760	38
223.2 - 224.60	72 64		6	4	0.35	1.9	30	24	0.2	10	0	760	39
	7D.A		5	24	-	2.6	36	20	0.2	-	15	810	40

\*) GEOCHEM. S.  
 \*\*) HEROY-HNO3 EXTRACTABLE Fe.

Certified by 

# Rossbacher Laboratory

2225 S. SPRINGER AVE.,  
BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

GEOCHEMICAL ANALYSTS & ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 9468-2  
INVOICE NO. 0045  
DATE ANALYSED JAN. 1980  
PROJECT 38 # 12-34

TO: NORANDA EXPLORATION CO LTD.  
1050 Davie Street  
Vancouver, B.C.

No.	Sample	pH	PPM Mo	PPM Cu	% S	% Fe	PPM Zn	PPM Pb	PPM Ag	PPB Au	PPM W	PPM F	No.
24.6 - 225.9	7265		18	8	0.75	1.9	26	34	0.2	10	0	820	01
25.9 - 227.4	66		10	5	0.30	2.0	50	18	0.2	10	0	760	02
27.4 - 228.9	67		1	8	0.50	2.3	36	18	0.2	10	0	840	03
28.9 - 230.4	68		2	4	0.20	2.1	38	18	0.2	10	0	860	04
30.4 - 231.8	69		1	3	0.55	2.0	30	16	0.2	10	0	870	05
31.8 - 233.3	70		1	3	0.20	2.1	36	26	0.2	10	0	850	06
33.3 - 234.8	71		1	3	0.20	2.0	40	22	0.2	10	0	850	07
34.8 - 236.3	72		1	3	0.45	2.2	40	18	0.2	10	0	800	08
36.3 - 237.6	73		1	4	0.15	2.0	40	20	0.2	10	0	800	09
37.6 - 239.0	74		1	5	0.15	2.1	40	26	0.2	10	0	820	10
39.0 - 240.4	75		1	5	0.65	2.1	36	22	0.2	10	0	740	11
40.4 - 241.8	76		1	3	0.50	2.0	32	16	0.2	10	0	700	12
41.8 - 243.3	77		1	3	1.90	1.8	20	10	0.2	10	0	900	13
43.3 - 244.7	78		1	4	0.60	2.1	34	12	0.2	10	0	920	14
44.7 - 246.1	79		1	4	0.15	2.2	40	8	0.2	10	0	880	15
46.1 - 247.5	80		44	5	0.40	1.8	30	12	0.2	10	0	920	16
47.5 - 249.0	81		46	4	0.95	1.0	14	16	0.2	10	0	800	17
49.0 - 250.5	82		180	2	0.70	1.0	8	8	0.2	10	0	840	18
50.5 - 252.0	83		136	2	1.70	1.3	10	8	0.2	10	0	1000	19
52.0 - 253.5	84		40	3	1.00	1.3	18	6	0.2	10	0	840	20
53.5 - 254.8	85		172	2	2.50	2.3	8	6	0.2	10	0	800	21
54.8 - 256.2	86		50	4	1.35	1.6	10	10	0.2	10	0	620	22
56.2 - 257.6	87		8	4	1.20	1.5	24	6	0.2	10	0	740	23
57.6 - 259.0	88		6	3	1.90	1.6	18	8	0.2	10	0	600	24
59.0 - 260.5	89		4	3	0.70	2.0	34	8	0.2	10	0	700	25
60.5 - 262.00	90		10	3	0.50	1.8	28	10	0.2	10	0	760	26
62.00-263.50	91		22	4	1.05	1.3	18	8	0.2	10	0	760	27
63.50-265.00	92		56	3	0.65	1.5	24	8	0.2	10	0	790	28
65.00-266.30	93		164	3	1.45	1.5	14	8	0.2	10	0	880	29
66.30-267.7	94		310	5	2.45	2.1	14	8	0.2	10	0	860	30
67.7 - 269.1	95		80	4	0.65	1.4	16	12	0.2	10	0	860	31
69.1 - 270.5	96		12	4	0.55	1.6	24	10	0.2	10	0	700	32
70.5 - 272.0	97		2	4	0.40	1.7	24	12	0.2	10	0	740	33
72.0 - 273.4	98		20	4	1.05	1.6	20	10	0.2	10	0	740	34
73.4 - 274.8	299		20	3	1.30	1.2	12	8	0.2	10	0	640	35
74.8 - 276.2	300		2	4	0.60	1.7	28	10	0.2	10	0	740	36
76.2 - 277.7	01		1	5	1.55	1.4	16	14	0.2	10	0	760	37
77.7 - 279.1	02		1	4	5.50	3.1	8	8	0.2	10	0	740	38
79.1 - 280.5	303		76	4	3.40	2.3	10	10	0.2	10	0	1030	39
	ID B		32	150		1.0	150	98	1.0	-	18	680	40

x) GEOCHEM. S.  
y) HClO4-HNO3 EXTRACTABLE Fe.

Certified by *P. Rossbacher*

# Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2223 S. SPRINGER AVE.,  
BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

## CERTIFICATE OF ANALYSIS

NORANDA EXPLORATION CO LTD.

TO: 1050 Davie Street  
Vancouver, B.C.

CERTIFICATE NO. 9468-3  
INVOICE NO. 0045  
DATE ANALYSED JAN. 1980  
PROJECT 38 # 12-34

No.	Sample	pH	PPM Mo	PPM Cu	% N	% Fe	PPM Zn	PPM Pb	PPM Ag	PPM Al	PPM V	PPM F	No.
280.5 - 281.9	7304		1	5	0.20	1.8	28	30	0.2	10	0	600	01
281.9 - 283.3	05		1	6	0.60	1.7	26	14	0.2	10	0	800	02
283.3 - 284.7	06		10	4	0.85	1.6	24	16	0.2	10	0	800	03
284.7 - 286.1	07		10	4	0.95	1.4	20	14	0.2	10	0	830	04
286.1 - 287.5	08		52	3	3.70	3.2	8	8	0.2	10	0	780	05
287.5 - 288.9	09		16	3	0.65	1.6	22	16	0.2	10	0	760	06
288.9 - 290.3	10		4	2	0.95	1.4	18	12	0.2	10	0	740	07
290.3 - 291.7	11		32	2	1.30	1.4	18	10	0.2	10	0	940	08
291.7 - 293.1	12		60	22	1.25	1.6	14	12	0.2	10	0	850	09
293.1 - 294.4	13		146	4	2.30	1.6	8	12	0.2	10	0	940	10
294.4 - 295.9	14		16	2	2.35	1.8	10	10	0.2	10	0	760	11
295.9 - 297.3	15		5	2	4.35	4.1	6	2	0.2	10	0	700	12
297.3 - 298.7	16		6	3	4.70	3.7	6	4	0.2	10	0	820	13
298.7 - 299.9	17		210	2	2.20	1.7	4	10	0.2	10	0	1100	14
299.9 - 301.3	18		32	29	5.20	4.2	8	14	0.2	10	0	740	15
301.3 - 302.7	19		30	4	1.25	0.7	8	12	0.2	10	0	870	16
302.7 - 304.1	20		6	2	1.10	1.0	10	12	0.2	10	0	940	17
304.1 - 305.62	21		4	2	0.80	1.0	10	10	0.2	10	0	1020	18
305.6 - 307.0	22		20	3	2.45	2.0	6	8	0.2	10	0	880	19
307.0 - 308.4	23		12	6	0.90	1.8	12	10	0.2	10	0	900	20
308.4 - 309.8	24		14	4	1.50	1.4	10	10	0.2	10	0	840	21
309.8 - 311.30	25		22	2	1.40	1.2	8	8	0.2	10	0	840	22
312.72- 314.1	26		4	2	1.45	1.2	12	30	0.2	10	0	900	23
318.21- 319.6	27		10	2	3.15	3.0	10	14	0.2	10	0	750	24
324.00- 325.4	28		170	2	2.70	2.2	8	20	0.2	10	0	900	25
330.40- 331.8	29		20	2	2.75	0.4	10	14	0.2	10	0	800	26
335.58- 336.98	30		6	1	1.60	0.4	8	14	0.2	10	0	920	27
341.07- 342.47	31		28	1	1.30	0.8	10	10	0.2	10	0	780	28
346.7 - 348.1	32		120	48	3.55	3.0	6	8	0.2	10	0	700	29
352.35- 353.75	33		54	2	5.40	4.6	6	6	0.2	10	0	900	30
358.29- 359.69	34		16	2	3.45	2.7	10	8	0.2	10	2	680	31
363.93- 365.33	35		36	2	3.05	2.6	10	8	0.2	10	25	670	32
369.57- 1.4m Sec.	36		90	2	1.45	0.8	10	10	0.2	10	2	730	33
375.3 - "	37		92	2	1.10	0.8	12	8	0.2	10	0	800	34
381.15- "	38		206	64	2.30	0.6	10	10	0.2	10	0	670	35
386.79- "	39		90	3	0.95	1.0	18	10	0.2	10	0	840	36
392.63- "	40		60	3	1.55	0.6	14	8	0.2	10	0	680	37
398.35- "	41		110	5	0.85	1.0	14	8	0.2	10	0	980	38
403.13- "	7342		380	3	4.90	3.5	8	6	0.2	10	0	870	39
	D.C		20	178	-	1.3	116	72	0.8	-	18	370	40

Ⓝ GEOCHEM. S.  
Ⓝ HClO<sub>4</sub>-HNO<sub>3</sub> EXTRACTABLE Fe.

Certified by *P. Rossbacher*



# Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2240 S. SPRINGER AVE.,  
BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

J. LEWIS  
KAM 1001

## CERTIFICATE OF ANALYSIS

TO: NORANDA EXPLORATION COMPANY LIMITED  
(NO PERSONAL LIABILITY)

CERTIFICATE NO. 80035

INVOICE NO. 0125

DATE ANALYSED MARCH 1980

BUTTERS

T.L.

+) )

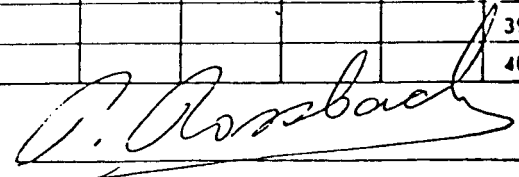
xx)

PROJECT 38 #2-2

No.	Sample	pH	PPM Mo	PPM Cu	o/o S	PPB Au	o/o Fe	PPM Ag	PPM Zn	PPM Pb	PPM W	PPM F	No.
	J 7352		42	228	2.30	60	3.0	0.2	26	10	1400	1080	01
	J 7353		19	34	0.35	10	2.4	0.2	36	6	210	580	02
	J 7354		26	12	0.40	10	2.3	0.2	36	6	35	970	03
	J 7355		6	7	0.25	10	2.2	0.2	36	10	0	1040	04
	J 7356		52	30	0.60	10	2.2	0.2	36	14	55	950	05
	J 7357		6	8	0.20	10	2.1	0.2	40	12	0	1030	06
	J 7358		7	9	0.35	10	2.3	0.2	38	6	0	1000	07
	J 7359		12	13	0.40	10	2.0	0.2	26	6	0	850	08
	J 7360		14	10	0.35	10	2.2	0.2	38	10	0	960	09
	J 7361		1	6	0.15	10	2.4	0.2	56	6	0	730	10
	J 7362		2	10	0.25	10	2.2	0.2	42	6	0	850	11
	J 7363		2	6	0.20	10	2.1	0.2	40	6	0	920	12
	J 7364		1	2	0.05	10	2.0	0.2	78	10	0	1240	13
	J 7365		1	3	0.30	10	5.6	0.2	110	2	0	1180	14
	J 7366		2	2	0.05	10	3.4	0.2	100	6	0	420	15
	J 7367		10	4	0.10	10	1.9	0.2	70	12	0	980	16
	J 7368		14	3	0.35	10	1.7	0.2	66	12	0	920	17
	J 7369		18	3	0.15	10	1.8	0.2	62	8	0	880	18
	J 7370		74	9	0.15	10	1.8	0.2	54	12	0	660	19
	J 7371		8	5	0.10	10	1.3	0.2	46	10	0	590	20
	J 7372		2	12	0.20	10	1.4	0.2	38	16	0	570	21
	J 7373		1	2	0.05	10	2.0	0.2	68	14	0	900	22
	J 7374		1	2	0.05	10	1.8	0.2	70	8	0	680	23
	J 7375		1	3	0.05	10	2.0	0.2	66	10	0	740	24
	J 7376		1	4	0.35	10	2.0	0.2	62	8	0	880	25
	J 7377		186	3	0.15	20	1.9	0.2	38	6	0	800	26
	J 7378		4	3	0.05	10	1.9	0.2	40	10	0	710	27
	J 7379		2	2	0.05	10	1.9	0.2	38	6	0	840	28
	J 7380		2	3	0.20	10	2.1	0.2	40	10	0	830	29
	J 7381		1	4	0.35	10	2.0	0.2	30	8	0	840	30
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x) GEOCHEM. S.  
xx) HClO<sub>4</sub>-HNO<sub>3</sub> EXTRACTABLE FE

Certified by



# Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,  
BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

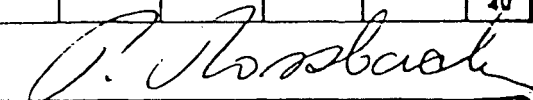
## CERTIFICATE OF ANALYSIS

TO: NORANDA EXPLORATION CO LTD.  
1050 Davie Street  
Vancouver, B.C.

CERTIFICATE NO. 9468-4  
INVOICE NO. 0045  
DATE ANALYSED JAN. 1980  
PROJECT 38 # 12-34

No.	Sample	pH	PPM Mo	PPM Cu	% S	% Fe	PPM Zn	PPM Pb	PPM Ag	PPB Au	PPM W	PPM F	No.
09.50-	1.4m Sed 7343		100	5	0.55	1.3	24	10	0.2	10	0	730	01
15.14-	" 44		68	4	0.55	1.2	12	8	0.2	10	0	470	02
20.16-	" 45		470	9	1.50	1.5	10	6	0.2	10	0	490	03
26.57-	" 46		10	4	0.95	1.8	28	4	0.2	10	0	630	04
32.36-	" 47		8	8	0.85	1.3	18	12	0.2	10	0	640	05
37.69-	" 48		10	10	1.70	1.1	12	12	0.2	10	0	630	06
43.79-	" 49		18	10	1.45	1.5	18	8	0.2	10	0	700	07
48.36-	" 50		26	5	2.30	1.8	10	4	0.2	10	0	640	08
53.00-	" 7351		40	10	3.45	2.9	8	4	0.2	10	0	740	09
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x) GEOCHEM. S.  
xx) HClO4-HNO3 EXTRACTABLE Fe.

Certified by 

# Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,  
BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 9468-5  
INVOICE NO. 0045  
DATE ANALYSED JAN. 1980  
PROJECT 38 #12-34

NORANDA EXPLORATION CO LTD.  
TO: 1040 Davie Street  
Vancouver, B.C.

No.	Sample	pH	Mo.	Cu	% SiO <sub>2</sub>	% CaO	% K <sub>2</sub> O	% Na <sub>2</sub> O				No.
	J 7226				60.0	2.2	4.3	2.5	170.4	to 171.80		01
	J 7233				59.0	2.3	3.6	2.6	180.3	to 181.9		02
	J 7240				58.5	2.9	3.6	1.8	190.2	to 191.6		03
	J 7248				60.0	2.3	4.0	2.6	200.6	to 202.2		04
	J 7255				65.0	2.5	3.9	3.3	210.2	to 211.6		05
	J 7262				56.0	2.3	3.8	2.8	220.4	to 221.8		06
	J 7269				59.5	2.2	3.9	3.0	230.4	to 231.8		07
	J 7276				55.0	2.3	3.8	3.4	240.4	to 241.8		08
	J 7283				50.5	1.2	4.2	2.0	250.5	to 252.0		09
	J 7289				54.5	2.2	3.4	3.3	259.0	to 260.5		10
	J 7297				52.0	2.1	2.9	3.4	270.5	to 272.0		11
	J 7304				53.0	2.3	4.3	3.8	280.5	to 281.9		12
	J 7311				59.0	1.6	3.8	2.4	290.3	to 291.7		13
	J 7319				48.0	1.0	4.3	1.5	301.3	to 302.7		14
	J 7326				51.5	1.5	4.1	1.3	312.72	to 314.1		15
	J 7328				54.0	1.6	4.6	1.7	324.00	to 325.4		16
	J 7330				53.0	1.3	4.8	2.1	335.58	to 336.98		17
	J 7332				50.0	1.3	4.5	2.3	346.7	to 348.1		18
	J 7334				54.5	2.0	4.8	1.8	358.29	to 359.69		19
	J 7336				55.5	2.5	5.0	4.0	369.57	to 1.4 Sections		20
	J 7338				52.0	2.2	4.1	2.6	381.15	"		21
	J 7340				53.0	2.1	3.7	3.0	392.63	"		22
	J 7342				54.0	2.4	3.9	2.4	403.13	"		23
	J 7344				52.0	1.6	5.8	3.3	415.14	"		24
	J 7346				53.0	2.0	3.8	3.5	426.57	"		25
	J 7348				54.5	2.8	2.6	4.2	437.69	"		26
	J 7350				50.0	1.9	5.1	1.6	448.36	"		27
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Certified by

*P. Rossbach*

# Rossbacher Laboratory

BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

GEOCHEMICAL ANALYSTS & ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 80035

NORANDA EXPLORATION COMPANY LIMITED  
(NO PERSONAL LIABILITY)

INVOICE NO.

DATE ANALYSED FEB. 29, 1968

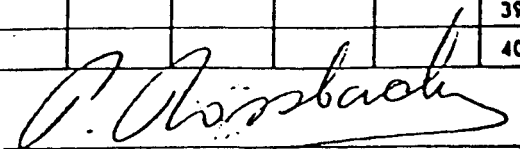
PROJECT 38 #2-2

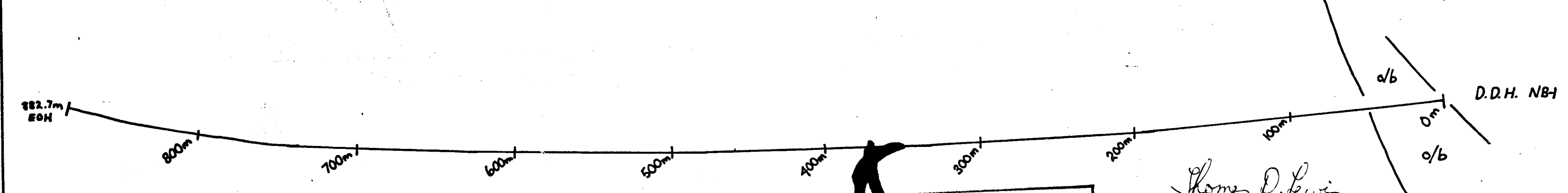
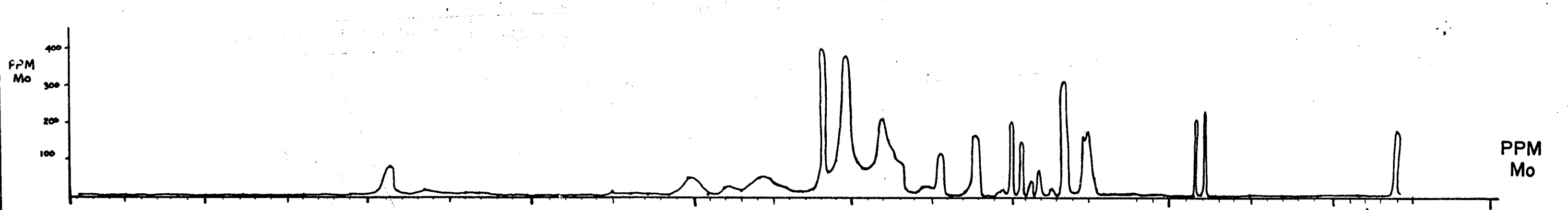
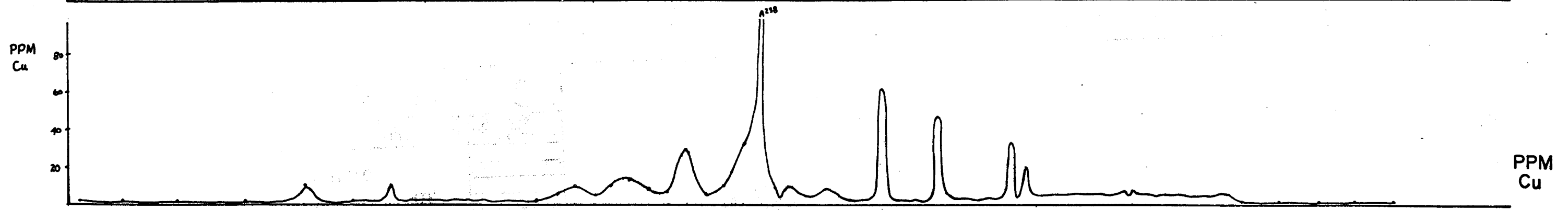
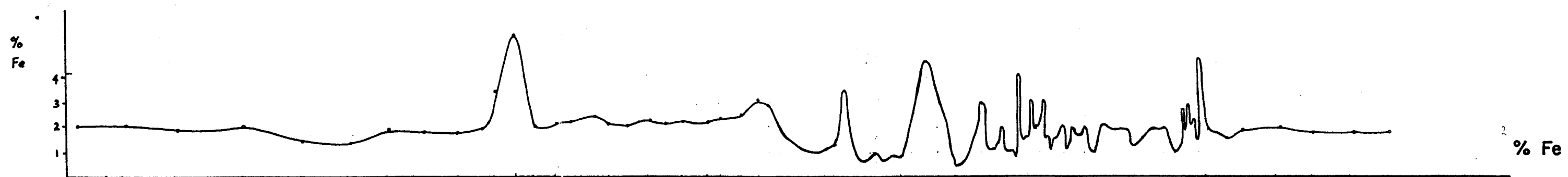
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No.	Sample	pH	Mo	Cu	% SiO <sub>2</sub>	% CaO	% K <sub>2</sub> O	% Na <sub>2</sub> O					No.
459.49	J 7352				46.0	1.9	6.0	2.6					01
482.50	J 7354				51.0	1.9	2.8	3.2					02
505.66	J 7356				50.0	1.5	3.0	2.6					03
528.22	J 7358				56.0	2.0	3.3	3.2					04
551.58	J 7360				55.0	1.5	3.1	2.8					05
574.54	J 7362				48.0	1.6	3.4	3.2					06
597.69	J 7364				49.0	2.0	3.0	4.0					07
620.40	J 7366				53.0	1.2	3.9	3.6					08
643.19	J 7368				51.0	1.9	3.0	3.2					09
666.29	J 7369				56.0	1.9	3.2	3.6					10
688.96	J 7370				54.0	1.6	3.7	3.2					11
711.75	J 7371				57.0	2.4	3.5	2.7					12
741.30	J 7372				56.0	1.6	3.7	3.7					13
777.74	J 7373				56.0	2.2	3.2	4.0					14
815.68	J 7374				55.0	1.6	2.5	2.9					15
850.90	J 7375				56.0	1.9	2.8	3.6					16
877.72	J 7376				54.0	1.9	2.9	3.5					17
63.25	J 7377				55.0	1.6	3.5	3.2					18
85.65	J 7378				56.0	1.8	3.7	3.4					19
109.00	J 7379				58.0	1.8	3.6	3.6					20
131.88	J 7380				55.0	2.0	3.1	3.2					21
154.53	J 7381				56.0	1.6	3.6	3.0					22
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ALL SAMPLES 1.4 Metre Sections

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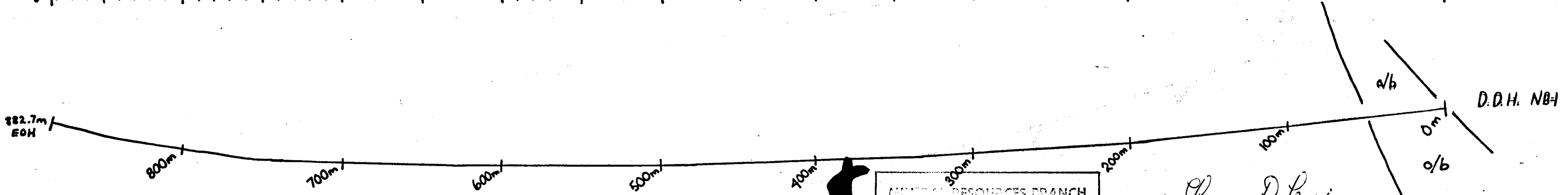
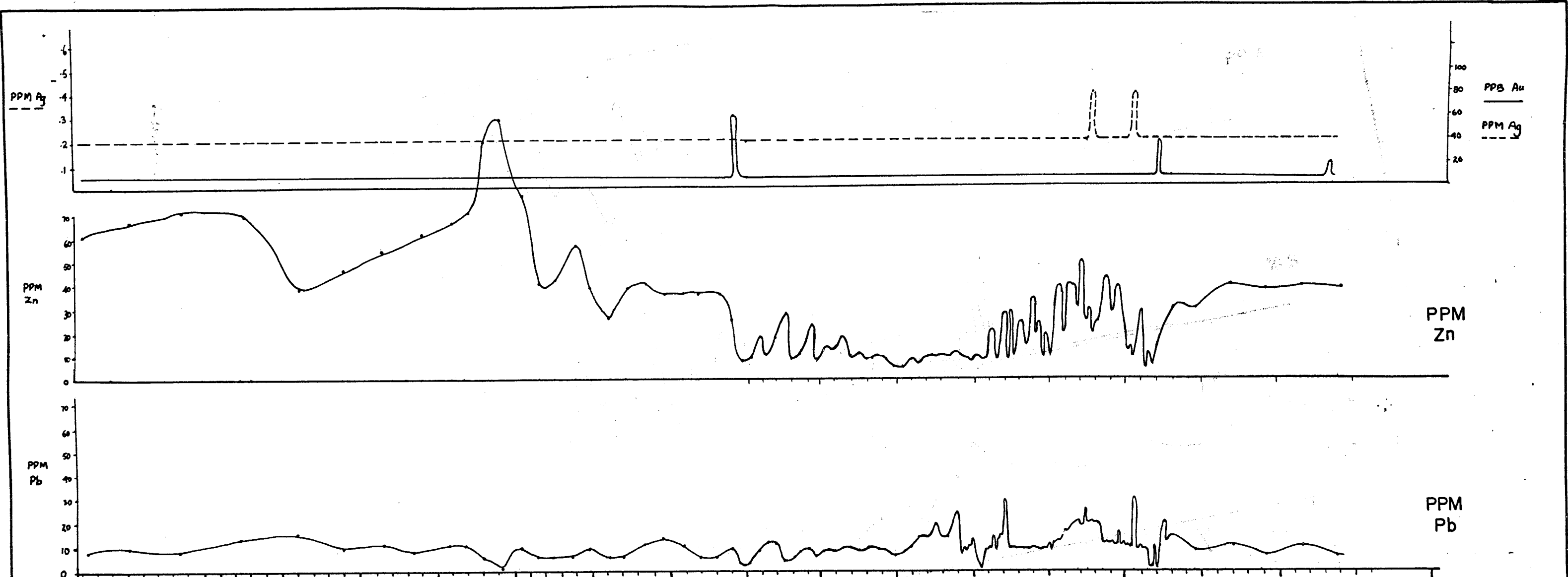


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**2022**

MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**8167**  
 NO.

*Thomas D. Lewis*

REVISED	MOUNT BUTTERS JOINT VENTURE
	ROCK GEOCHEMISTRY OF D.D.H. NB-1
PROJ No. 38	SURVEY BY T. LEWIS, R. HUGHES DATE: APRIL 1980
N.T.S. 82 K/14 W	DRAWN BY T. LEWIS SCALE: 1:2500
DWG. No.	NORANDA EXPLORATION
1 of 5	OFFICE: KAMLOOPS

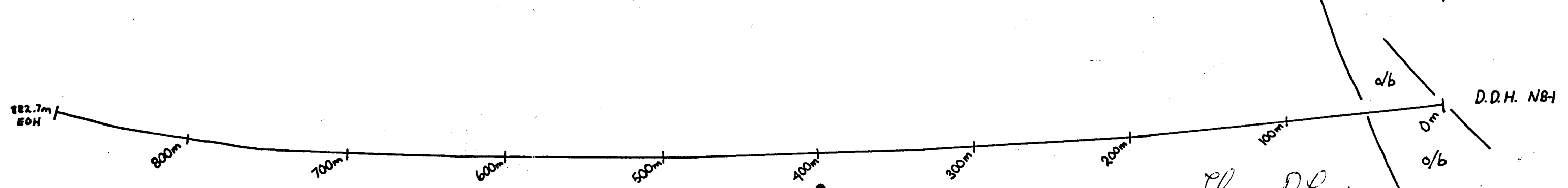
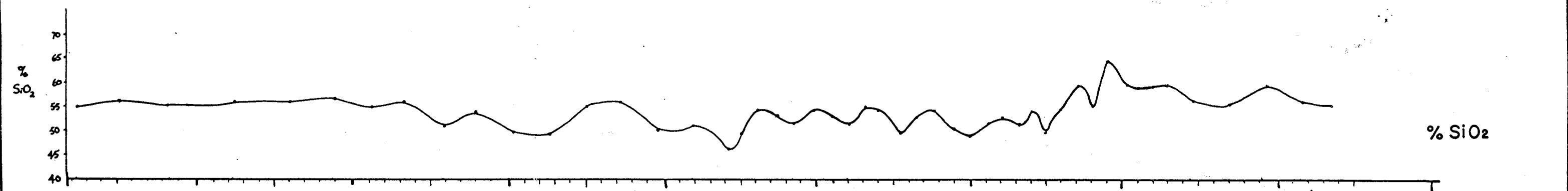
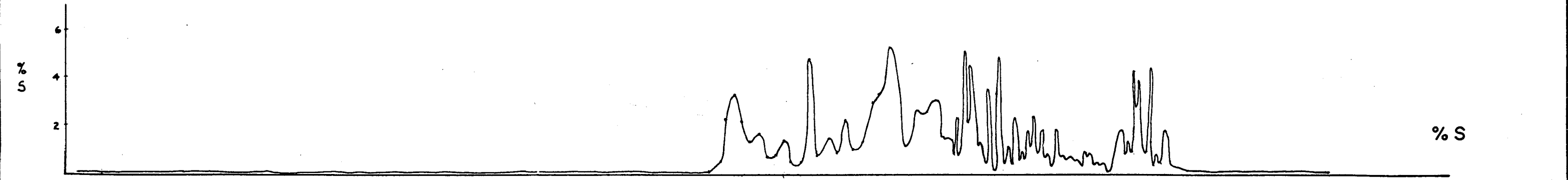


**pt**  
**8167**  
**NO.**  
**2 of 2**

MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**8167**  
 NO.

*Thomas D. Lewis*

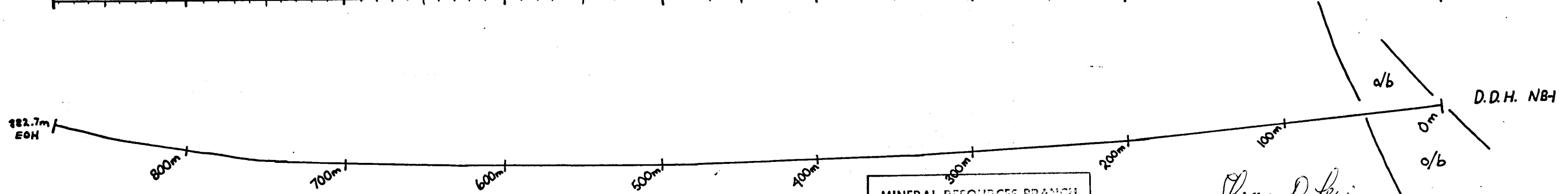
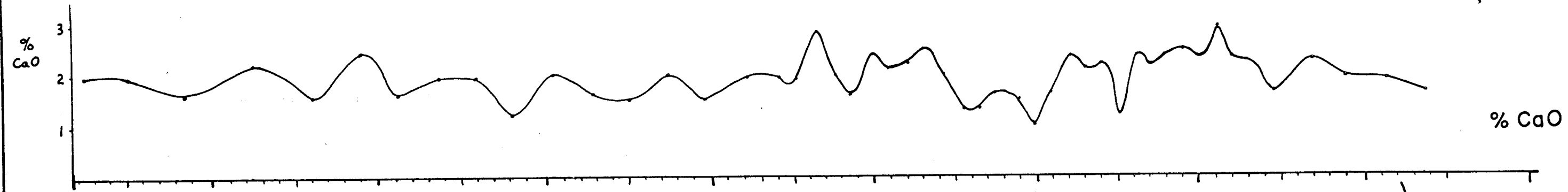
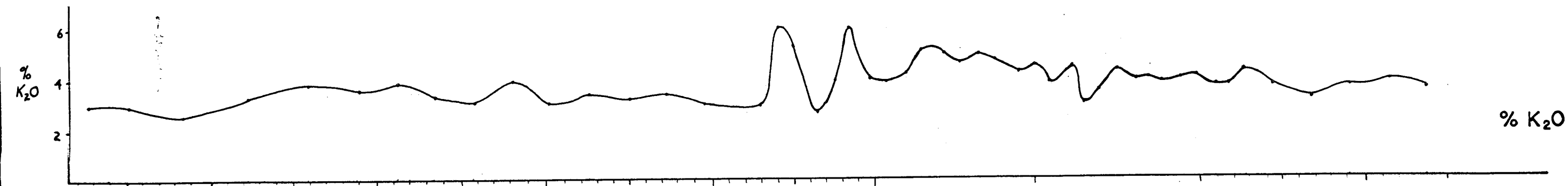
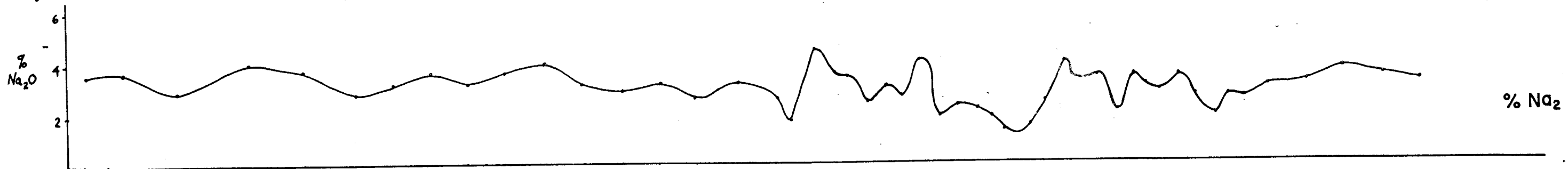
REVISED	MOUNT BUTTERS JOINT VENTURE
	ROCK GEOCHEMISTRY OF D.D.H. NB-1
PROJ. No. 38	SURVEY BY T. LEWIS, B. HUGHES DATE: APRIL 1980
N.T.S. 82 K/H W	DRAWN BY T. LEWIS SCALE: 1:2500
DWG. No. 2 of 5	NORANDA EXPLORATION OFFICE: KAMLOOPS



**Pat**  
**8167**  
**2 of 2**

*Thomas P. Lewis*

REVISED	MOUNT BUTTERS JOINT VENTURE
	ROCK GEOCHEMISTRY OF D.D.H. NB-1
PROJ. No. 99	SURVEY BY T. LEWIS, B. HUGHES DATE: APRIL 1980
N.T.S. 82 K/14 W	DRAWN BY T. LEWIS SCALE: 1:2500
DWG. No. 3 of 5	NORANDA EXPLORATION OFFICE: KAMLOOPS



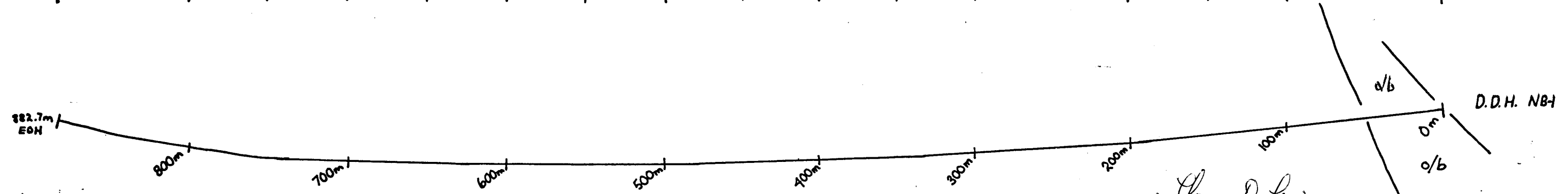
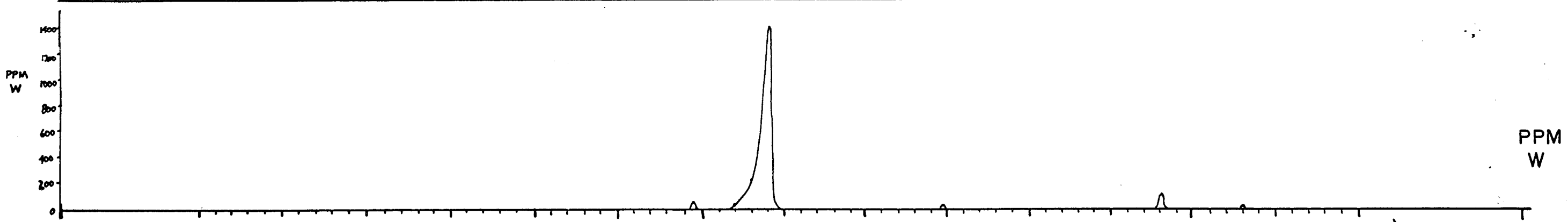
MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**8167**

**pat 2082**

REVISED	MOUNT BUTTERS JOINT VENTURE	
	ROCK GEOCHEMISTRY OF D.D.H. NB-1	
PROJ No. 38	SURVEY BY: J. LEWIS, R. HUGHES	DATE: APRIL 1980
N.T.S. 82 K/MW	DRAWN BY: J. LEWIS	SCALE: 1:2500
DWG. No. 4 of 5	NORANDA EXPLORATION	
	OFFICE: KAMLOOPS	

*Thomas D. Lewis*





MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
NO. **8167**

**2072**

*Thomas D. Lewis*

REVISED	MOUNT BUTTERS JOINT VENTURE
	ROCK GEOCHEMISTRY OF D.D.H. NB-1
PROJ No. <u>38</u>	SURVEY BY <u>J. LEWIS, R. HUGHES</u> DATE: <u>APRIL 1980</u>
N.T.S. <u>82 K/14 W</u>	DRAWN BY <u>J. LEWIS</u> SCALE: <u>1:2500</u>
DWG. No.	<b>NORANDA EXPLORATION</b>
5 of 5	OFFICE: <u>KAMLOOPS</u>