84-974 - 13053

COMINCO LTD.

EXPLORATION WESTERN DISTRICT

REPORT ON SOIL GEOCHEMISTRY

NOKE GROUP

Fort Steetle Mining Division

N.T.S. 82F/8
82G/5

Lat: 49° 27' Long: 116° 02'

OWNER

Cominco Ltd.

Kootenay Exploration
1051 Industrial Road No. 2,
Cranbrook, B.C.
V1C 4K7

Work Performed during July and August 1984

Report by:

M.D. Waskett-Myers
Technician III

D. Anderson
Project Geologist

Submitted: November 1984

LIST OF CLAIMS

NOKE GROUP

Claim No.	Record No.	No. of Units	Recording Date
Noke 1	1687	8	Oct. 8, 1985
Noke 2	1688	15	"
Noke 3	1689	14	"
Noke 4	1690	14	"
Noke 5	1691	18	"
Noke 6	1776	20	May 17, 1985
Noke 7	1777	12	"
Noke 8	1778	3	"
Noke 9	1779	15	"
Noke 10	1780	8	"
Noke 11	1781	4	"
Noke 12	1782	6	"
Noke 13	1783	6	"
Noke 14	1784	12	"
Noke 18	1902	18	Aug.26, 1985
Noke 20	1900	12	"
Noke 21	1899	4	"
		189	

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MAPS

COMINCO LTD.

EXPLORATION WESTERN DISTRICT

REPORT ON SOIL GEOCHEMISTRY

NOKE GROUP

Fort Steele Mining Division

1.00 SUMMARY

The Noke group geochem program consisted of a number of contour geochem lines in areas of favorable geology.

Of the samples collected only 128 are applicable to this report. The samples were analyzed for Cu, Pb, Zn, Au, Ag, Sb, and Bi at Cominco's Lab in Vancouver. Expenditures on this survey were $3,890. plus $810. from PAC for a total of $4,700.

2.00 INTRODUCTION

2.10 Property Definition

The Noke is 100% Cominco owned. The work was performed by Kootenay Exploration (Cominco Ltd.). The Noke claim group currently includes claims totalling 189 units.

2.20 Location and Access

The Noke is located approximately 20 km southwest of Cranbrook. The group covers part of the mountain range between the Moyie River and Perry Creek.

Access is via good logging roads in both the Moyie River and Perry Creek drainages. The property location is shown (Plate 1, page 10, 1:50,000 and inset on Plage 2, in pocket, 1:250,000).

2.30 Topography and Vegetation

Elevations range from 1,500 to 2,400 meters above sea level.

The area is extensively wooded, consisting of Larch, Sprûce, Lodgepole Pine and Balsam.

2.40 Analytical Results

A total of 128 soil samples were collected from the eastern portion of the claim block. Seven different elements were analyzed for including Cu, Pb, Zn, Au, Ag, Sb and Bi. For analytical results refer to Appendix A on page 4.

3.00 GEOCHEMISTRY

3.10 Sampling Procedure

Contour sampling was carried out in areas of favorable geology. Sampling interval was 100 meters. Samples were collected from the 'B' horizon at depths of 10 to 20 centimeters, using a shovel.

3.20 Analytical Procedure

One half gram of -80 mesh soil is weighed into a test tube, 5 mls of 20% HNO_3 is added. The samples are digested for 90 minutes in a water bath at 95°C (samples are shaken every 15 minutes). After digestion the sample is made up to 10 mls with deionised water shaken and run on the A.A. for Pb, Zn, Cu, Ag, Sb, Bi. Background correction is used for Pb determinations.

The gold analysis consists of Aqua Regia decomposition, solvent extraction and determination by atomic absorbtion spectrometry.

Arsenic determination is achieved using pyrosulphate fusion followed by colorimetric analysis

3.30 Objectives of the Program

This geochem soil sampling program was carried out to help evaluate portions of the Noke claims for any gold potential. Despite not locating any gold in surface outcrops during 1983 (see 1983 Geological Report - Noke Group assessment report - DA), it was still pertinent to evaluate any other obvious geological potential using geochem. The contour lines were designed to be downslope of or crossing fault trends defined by the geological mapping referred to in the above report. The range of elements analyzed for were considered possible associated elements or pathfinders for gold mineralization.

3.40 Conclusions

From the work carried out in 1984, there is nothing to indicate the presence of economic quantities of gold. The values for Au, Ag, As, Sb, and Bi are below detection limits for each of the elements. Only 3 analyses for gold are above the detection limit of <10 ppb. These three samples occur in scattered locations and do not correlate with any Cu, Pb, or zinc values of significance. Because of the generally low values for the above five elements they have not been plotted on maps. The Cu, Pb, and Zn values in ppm have been plotted on Plate 2. There are no significant anomalies defined by this data either, although some very modest highs for each of the elements do exist. These variations are not considered indicative of anything of interest.

Report by: M.D. Waskett-Myers

M.D. WASKETT-MYERS
Technician III

Report by:

D. ANDERSON, P.Eng.
Project Geologist

Approved by: John Hamilton

J.M. HAMILTON, P.Eng.
Assistant Manager,
Western District

Approved for
Release by:

G. HARDEN
Manager, Exploration
Western District
Vancouver

Copies:

Mining Recorder (2 copies)
Western District, Exploration
Kootenay Exploration

APPENDIX "A"

NOKE

LAB NUMBER	FIELD NUMBER	EAST	NORTH	Au PPB	Pb PPM	Zn PPM	Ag PPM	Sb PPM	Bi PPM	Cu PPM	As PPM
S8407373	133	N1	+ 0	<10	9	14	<.4	<4	<5	8	<2
S8407374	134	N1	+ 100	<10	13	18	<.4	<4	<5	8	<2
S8407375	135	N1	+ 200	<10	<4	13	<.4	<4	<5	5	<2
S8407376	136	N1	+ 300	<10	6	14	<.4	<4	<5	8	<2
S8407377	137	N1	+ 400	<10	10	14	<.4	<4	<5	18	<2
S8407378	138	N1	+ 500	<10	13	16	<.4	<4	<5	23	<2
S8407379	139	N1	+ 600	<10	5	7	<.4	<4	<5	13	<2
S8407380	140	N1	+ 700	<10	5	8	<.4	<4	<5	5	<2
S8407381	141	N1	+ 800	<10	6	12	<.4	<4	<5	7	<2
S8407382	142	N1	+ 900	<10	11	30	<.4	<4	<5	8	<2
S8407383	143	N1	+1000	<10	14	61	<.4	<4	<5	9	<2
S8407384	144	N1	+1100	<10	15	47	<.4	<4	<5	9	<2
S8407385	145	N1	+1200	<10	6	27	<.4	<4	<5	4	<2
S8407386	146	N1	+1300	<10	9	27	<.4	<4	<5	8	<2
S8407387	147	N1	+1400	<10	15	50	<.4	<4	<5	10	<2
S8407388	148	N1	+1500	<10	8	18	<.4	<4	<5	4	<2
S8407389	149	N1	+1600	<10	6	8	<.4	<4	<5	1	<2
S8407390	150	N1	+1700	<10	<4	11	<.4	<4	<5	1	<2
S8407391	151	N1	+1800	<10	8	16	<.4	<4	<5	5	<2
S8407392	152	N1	+1900	<10	I	I	I	I	I	I	I
S8407393	153	N1	+2000	<10	5	20	<.4	<4	<5	4	<2
S8407394	154	N1	+2100	<10	6	13	<.4	<4	<5	3	<2
S8407395	155	N1	+2200	<10	6	22	<.4	<4	<5	2	<2
S8407396	156	N1	+2300	<10	7	18	<.4	<4	<5	4	<2
S8407397	157	N1	+2400	<10	16	16	<.4	<4	<5	12	<2
S8407398	158	N1	+2500	<10	7	19	<.4	<4	<5	4	<2
S8407423	183	N1	+5000	<10	8	23	<.4	<4	<5	5	<2
S8407424	514	N1	+5100	<10	11	30	<.4	<4	<5	11	<2
S8407425	515	N1	+5200	<10	12	56	<.4	<4	<5	7	<2
S8407426	516	N1	+5300	<10	12	27	<.4	<4	<5	7	<2
S8407427	517	N1	+5400	<10	9	39	<.4	<4	<5	10	<2
S8407428	518	N1	+5500	<10	11	26	<.4	<4	<5	4	<2
S8407429	519	N1	+5600	<10	11	22	<.4	<4	<5	14	<2
S8407430	520	N1	+5700	<10	9	11	<.4	<4	<5	3	<2
S8407431	521	N1	+5800	<10	11	21	<.4	<4	<5	13	<2
S8407432	522	N1	+5900	<10	18	18	<.4	<4	<5	9	<2
S8407433	523	N1	+6000	<10	12	30	<.4	<4	<5	13	<2
S8407434	524	N1	+6100	<10	7	12	<.4	<4	<5	1	<2
S8407435	525	N1	+6200	<10	7	19	<.4	<4	<5	2	<2
S8407436	526	N1	+6300	<10	12	24	<.4	<4	<5	12	<2
S8407437	527	N1	+6400	<10	16	18	<.4	<4	<5	10	<2
S8407438	184	N2	+ 0	<10	9	35	<.4	<4	<5	8	<2
S8407439	185	N2	+ 100	<10	7	25	<.4	<4	<5	5	<2
S8407440	186	N2	+ 200	<10	7	26	<.4	<4	<5	4	<2
S8407441	187	N2	+ 300	<10	13	51	<.4	<4	<5	9	<2

NOKE - Cont'd

LAB NUMBER	FIELD NUMBER	EAST	NORTH	Au PPB	Pb PPM	Zn PPM	Ag PPM	Sb PPM	Bi PPM	Cu PPM	As PPM
S8407448	194	N2	+1000	<10	10	45	<.4	<4	<5	11	<2
S8407449	195	N2	+1100	<10	27	64	<.4	<4	<5	10	<2
S8407450	196	N2	+1200	<10	13	69	<.4	<4	<5	8	<2
S8407451	197	N2	+1300	<10	19	40	<.4	<4	<5	6	<2
S8407452	198	N2	+1400	<10	12	35	<.4	<4	<5	7	<2
S8407453	199	N2	+1500	<10	7	26	<.4	<4	<5	5	<2
S8407454	200	N2	+1600	<10	8	39	<.4	<4	<5	6	<2
S8407455	501	N2	+1700	<10	11	31	<.4	<4	<5	5	<2
S8407456	502	N2	+1800	<10	13	48	<.4	<4	<5	7	<2
S8407457	503	N2	+1900	<10	12	39	<.4	<4	<5	8	<2
S8407458	504	N2	+2000	<10	15	66	<.4	<4	<5	15	<2
S8407459	505	N2	+2100	<10	15	43	<.4	<4	<5	7	<2
S8407460	506	N2	+2200	<10	12	72	<.4	<4	<5	17	<2
S8407461	507	N2	+2300	<10	17	38	<.4	<4	<5	6	<2
S8407462	508	N2	+2400	<10	15	58	<.4	<4	<5	6	<2
S8407463	509	N2	+2500	<10	49	116	<.4	<4	<5	15	<2
S8407464	510	N2	+2600	<10	37	109	<.4	<4	<5	13	<2
S8407465	511	N2	+2700	<10	17	63	<.4	<4	<5	12	<2
S8407466	512	N2	+2800	<10	22	53	<.4	<4	<5	14	<2
S8407467	513	N3	+2900	<10	24	29	<.4	<4	<5	7	<2
S8407468	531	N3	+ 0	<10	15	54	<.4	<4	<5	5	<2
S8407469	532	N3	+ 100	<10	19	81	<.4	<4	<5	4	<2
S8407470	533	N3	+ 200	<10	13	69	<.4	<4	<5	10	<2
S8407471	534	N3	+ 300	<10	13	74	<.4	<4	<5	4	<2
S8407472	535	N3	+ 400	<10	16	57	<.4	<4	<5	8	<2
S8407473	536	N3	+ 500	<10	16	99	<.4	<4	<5	3	<2
S8407474	537	N3	+ 600	<10	17	108	<.4	<4	<5	9	<2
S8407475	538	N3	+ 700	<10	15	73	<.4	<4	<5	9	<2
S8407476	539	N3	+1000	41	18	43	<.4	<4	<5	16	<2
S8407477	540	N3	+1100	<10	14	79	<.4	<4	<5	9	<2
S8407478	541	N3	+1200	<10	14	56	<.4	<4	<5	7	<2
S8407489	528	N4	+ 0	<10	19	54	<.4	<4	<5	10	<2
S8407490	529	N4	+ 100	<10	18	48	<.4	<4	<5	8	<2
S8407491	530	N4	+ 200	<10	19	43	<.4	<4	<5	9	<2
S8407492	552	N4	+ 300	<10	19	36	<.4	<4	<5	2	<2
S8407493	553	N4	+ 400	<10	19	38	<.4	<4	<5	7	<2
S8407494	554	N4	+ 500	<10	9	24	<.4	<4	<5	6	<2
S8407495	555	N4	+ 600	<10	18	58	<.4	<4	<5	5	<2
S8407496	556	N4	+ 700	<10	13	44	<.4	<4	<5	6	<2
S8407497	557	N4	+ 800	<10	14	38	<.4	<4	<5	4	<2
S8407498	558	N4	+ 900	<10	15	44	<.4	<4	<5	7	<2
S8407499	559	N4	+1000	<10	20	50	<.4	<4	<5	6	<2
S8407500	560	N4	+1100	11	15	41	<.4	<4	<5	6	<2
S8407514	574	N5	+ 0	<10	36	65	<.4	<4	<5	16	<2
S8407515	575	N5	+ 100	<10	17	47	<.4	<4	<5	3	<2
S8407516	576	N5	+ 200	<10	16	46	<.4	<4	<5	5	<2
S8407517	577	N5	+ 300	<10	16	73	<.4	<4	<5	4	<2

NOKE - Con't

LAB NUMBER	FIELD NUMBER	EAST	NORTH	Au PPB	Pb PPM	Zn PPM	Ag PPM	Sb PPM	Bi PPM	Cu PPM	As PPM
S8407518	578	N5	+ 400	<10	16	60	<.4	<4	<5	7	<2
S8407519	579	N5	+ 500	<10	17	57	<.4	<4	<5	1	<2
S8407520	580	N5	+ 600	<10	12	56	<.4	<4	<5	4	<2
S8407521	581	N5	+ 700	<10	10	41	<.4	<4	<5	1	<2
S8407522	582	N5	+ 800	<10	16	42	<.4	<4	<5	4	<2
S8407523	583	N5	+ 900	12	19	51	<.4	<4	<5	1	<2
S8407524	584	N5	+1000	<10	11	29	<.4	<4	<5	3	<2
S8409423	737	N6	+ 500	<10	22	44	<.4	<4	<5	8	<2
S8409424	738	N6	+ 600	<10	25	42	<.4	<4	<5	12	<2
S8409425	739	N6	+ 800	<10	35	16	<.4	<4	<5	23	<2
S8409426	740	N6	+ 900	<10	9	16	<.4	<4	<5	7	<2
S8409427	741	N6	+1000	<10	19	81	<.4	<4	<5	13	<2
S8409428	742	N6	+1100	<10	8	32	<.4	<4	<5	14	<2
S8409429	743	N6	+1200	<10	4	24	<.4	<4	<5	7	<2
S8409430	744	N6	+1300	<10	6	29	<.4	<4	<5	3	<2
S8409431	745	N6	+1400	<10	12	43	<.4	<4	<5	6	<2
S8409432	746	N6	+1500	<10	26	46	<.4	<4	<5	8	<2
S8409433	747	N6	+1600	<10	9	23	<.4	<4	<5	6	<2
S8409434	748	N6	+1700	<10	6	19	<.4	<4	<5	2	<2
S8409435	749	N6	+1800	<10	8	28	<.4	<4	<5	3	<2
S8409436	750	N6	+1900	<10	8	25	<.4	<4	<5	5	<2
S8409437	751	N6	+2000	<10	8	43	<.4	<4	<5	7	<2
S8409438	752	N6	+2200	<10	16	32	<.4	<4	<5	8	<2
S8409439	753	N6	+2300	<10	10	26	<.4	<4	<5	6	<2
S8409440	754	N6	+2400	<10	4	37	<.4	<4	<5	3	<2
S8409441	755	N6	+2500	<10	8	36	<.4	<4	<5	8	<2
S8409442	756	N6	+2600	<10	12	17	<.4	<4	<5	4	<2
S8409443	757	N6	+2700	<10	<4	40	<.4	<4	<5	4	<2
S8409444	758	N6	+2800	<10	8	18	<.4	<4	<5	13	<2
S8409445	759	N6	+2900	<10	8	13	<.4	<4	<5	5	<2
S8409446	760	N6	+3000	<10	15	21	<.4	<4	<5	12	<2
S8407442	188	N2	+ 400	<10	13	52	<.4	<4	<5	8	<2
S8407443	189	N2	+ 500	<10	12	54	<.4	<4	<5	11	<2
S8407444	190	N2	+ 600	<10	14	47	<.4	<4	<5	9	<2
S8407445	191	N2	+ 700	<10	20	50	<.4	<4	<5	14	<2
S8407446	192	N2	+ 800	<10	12	49	<.4	<4	<5	5	<2
S8407447	193	N2	+ 900	<10	10	15	<.4	<4	<5	18	<2

APPENDIX "B"

STATEMENT OF EXPENDITURES

SOIL GEOCHEMISTRY

NOKE GROUP

July through October, 1984

Salaries		
D. Anderson - Geologist, Office 2 days @ $250.	= $	500.00
R. Deans - Fieldwork, Sample collection 4 days @ $90.	=	360.00
C. Schultze - Fieldwork, Sample collection 4 days @ $90.	=	360.00
M.D. Waskett-Myers - Geochem, Field & Office, 2 days @ $160.	=	320.00
Geochem Assays		
128 samples @ $16.25 each	=	2,080.00
Transportation		
4X4 Truck - 6 days @ $40/day	=	240.00
Materials		
Flagging, Sample bags, Cotton etc.	=	30.00
		$3,890.00

M.D. Waskett-Myers
Technician III

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A SOIL GEOCHEMISTRY PROGRAM

CARRIED OUT ON THE NOKE GROUP MINERAL CLAIMS

In the Fort Steele Mining Division of the

Province of British Columbia

A F F I D A V I T

I, M.D. Waskett-Myers, of the City of Cranbrook in the Province of British Columbia, make Oath and say:

1. That I am employed as a Technician with Cominco Ltd. and as such, have a personal knowledge of the facts to which I hereinafter depose;

2. That annexed hereto and marked as Appendix "B" to this my Affidavit is true copy of expenditures incurred on a Soil Geochemistry program, on the Noke group mineral claims.

3. That the said expenditures were incurred between July through October, 1984, for the purpose of mineral exploration on the above noted claim.

M.D. Waskett-Myers

M.D. WASKETT-MYERS
Technician III

COMINCO LTD.

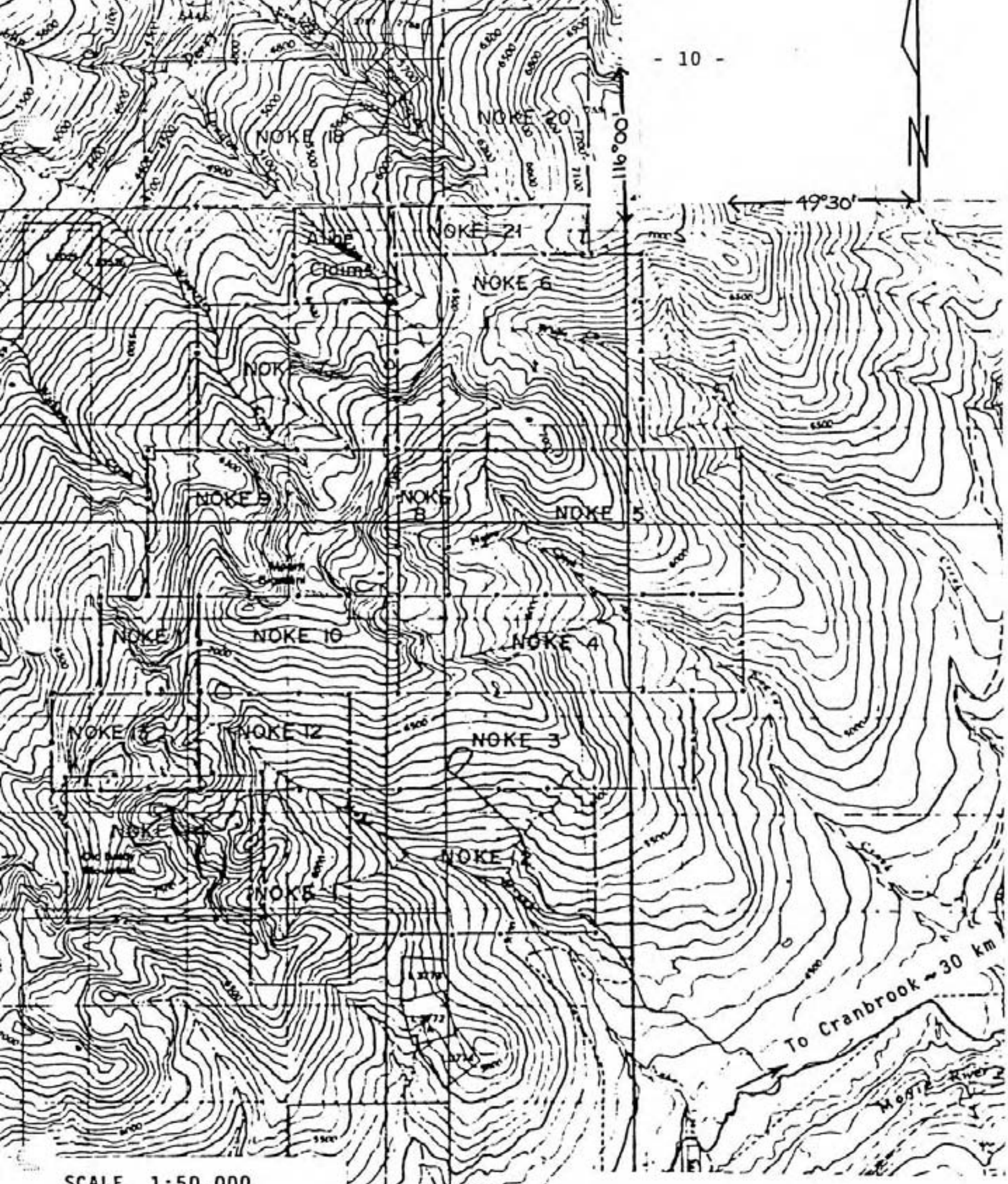
EXPLORATION WESTERN DISTRICT

STATEMENT OF QUALIFICATION

M.D. WASKETT-MYERS has worked in Mineral Exploration for the past sixteen years. He has spent the last eight years working for Cominco Ltd., principally in the field of geochemistry.

I consider him qualified to prepare this report.

DOUGLAS ANDERSON, P.Eng.
Project Geologist

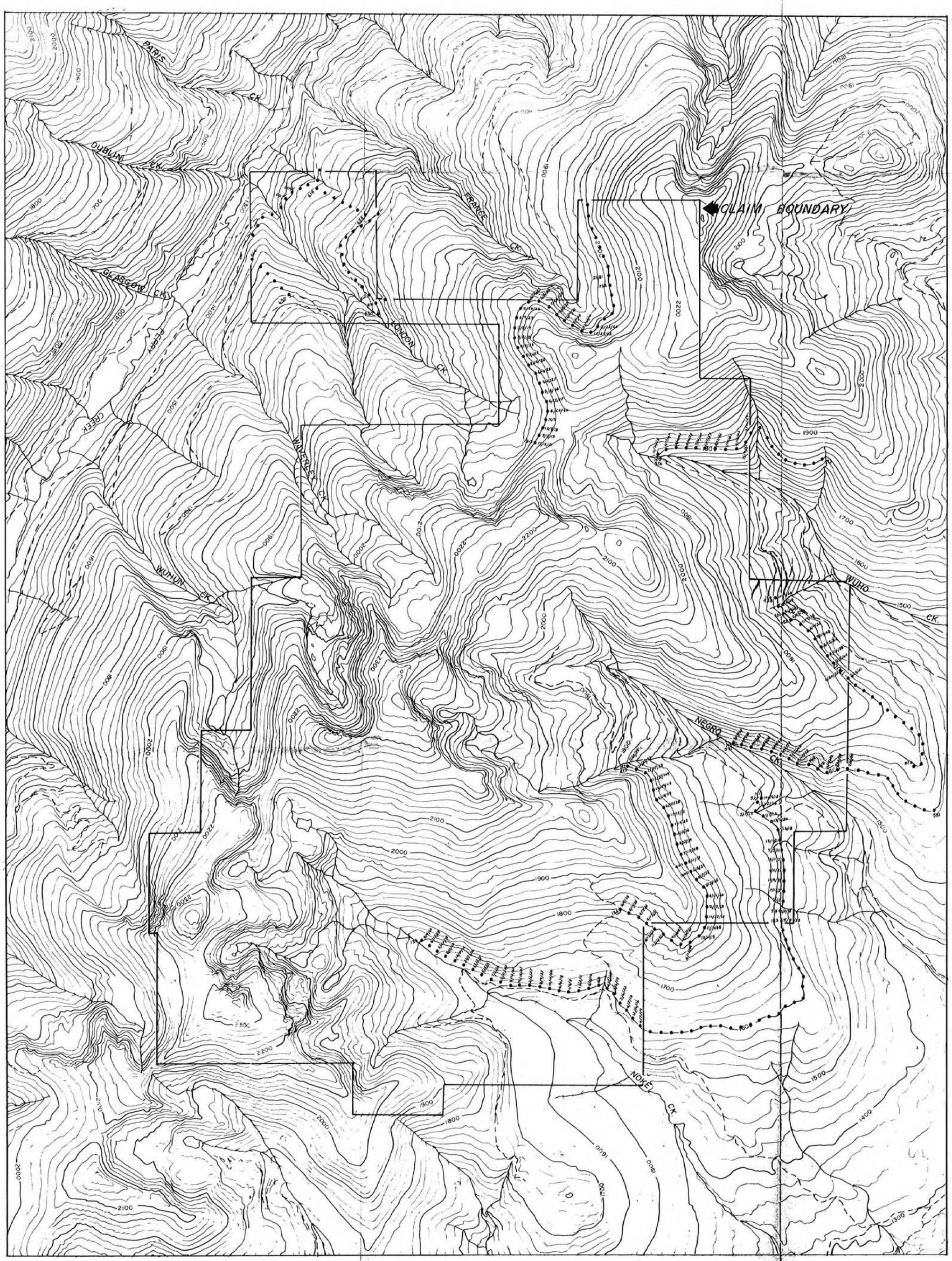


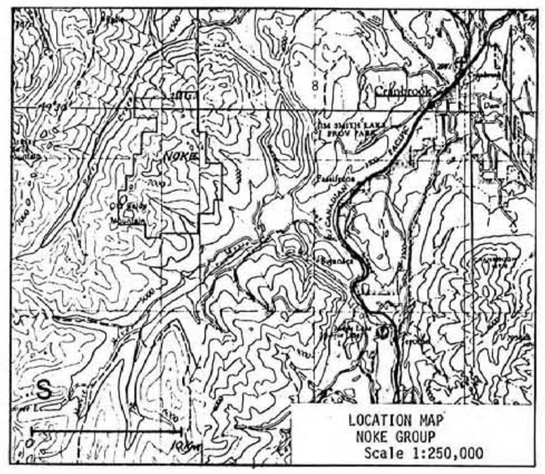
NOKE CLAIMS --- LOCATION MAP

October, 1984 Plate 1

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,053





LOCATION MAP
NOKE GROUP
Scale 1:250,000

• Cu/Pb/Zn (ppm)

0 1000
metres

NOKE PROPERTY

CONTOUR SOIL VALUES

COPPER, LEAD AND ZINC

Drawn by:	Traced by:	Scale: 1:20,000	Date: NOV. 1984	Plate: 2
Revised by: Date	Revised by: Date			

FORM 210-0660