

COMINCO LTD.

EXPLORATION

NTS: 82F/10E

WESTERN DISTRICT

August 22, 1983

ASSESSMENT REPORT

PERCUSSION DRILLING

BAKER MINERAL CLAIMS

CRAWFORD BAY AREA

FORT STEELE MINING DIVISION B.C.

LATITUDE: 49°35'N; LONGITUDE: 116°39'W

WORK PERIOD: July 28-July 30, 1983

on Baker 1 and 2 Mineral Claims

Report by:

D.L. COCKE

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,604

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EXPLORATION
NTS: 82F/IOE

WESTERN DISTRICT
August 22, 1983

DIAMOND DRILLING ASSESSMENT REPORT

BAKER MINERAL CLAIMS

FORT STEELE MINING DIVISION, B.C.

SUMMARY

A percussion drilling program was carried out in 1983 on the Baker claims, 16 kilometres southeast of Crawford Bay, B.C. The work consisted of 4 holes totalling 286.5 metres. The cuttings from these holes were split in 10 foot intervals and analyzed geochemically for molybdenum and tungsten.

Results show interesting but low values for Mo and generally low values for W.

LOCATION

The Baker mineral claims are located in the Fort Steele Mining Division, 16 kilometres southeast of Crawford Bay, B.C. The property covers the headwaters of Baker Creek which drains northeastward into Redding Creek. Access to the property is by logging road from Kimberley via Redding Creek and St. Mary's River, or by the powerline road east from Crawford Bay. Elevation ranges from 1650 to 2300 metres, with heavy forest up to about 2000 metres.

HISTORY

1978 - GSC Open File 514 indicated anomalous Mo value in silts from Baker Creek; property staked by Cominco Ltd.

1979 - Geological mapping (1:5,000) and soil geochemistry.

WORK DONE IN 1983

Four percussion holes totalling 286.5 metres, were drilled by Al Miller Percussion Drilling Ltd. of Kamloops, B.C. during the period July 28 and July 30, 1983. Percussion cuttings were collected by R. Rysiuk and microscopic examination done by S.B. Butrenchuk. All samples were analyzed for Mo and W in Cominco's Exploration Research Laboratory in Vancouver.

2.

OWNERSHIP

Seven claims comprising 84 units constitute the Baker Creek property, which is owned 100% by Cominco Ltd.

<u>CLAIM</u>	<u>NO. OF UNITS</u>	<u>RECORD NO.</u>	<u>RECORDED</u>	<u>DUE DATE</u>
BAKER 1	20	521	July 31,1978	July 31,1983
BAKER 2	18	522	July 31,1978	July 31,1983
BAKER 3	10	523	July 31,1978	July 31,1983
BAKER 4	15	575	Oct. 20,1978	Oct. 20,1986
BAKER 5	12	1074	Sept.18,1980	Sept.18,1983
BAKER 6	8	1075	Sept.18,1980	Sept.18,1983
BAKER Fr.	1	1076	Sept.18,1980	Sept.18,1983

GEOLOGY

The claims are underlain by sedimentary rocks of upper Proterozoic age. A homoclinal north-south trending sequence of sediments, including the Kitchener-Siyeh, Dutch Creek and Mount Nelson Formations of Purcell Age are unconformably overlain to the west by the Toby and Horsethief Creek Formations of Windermere Age.

The Purcell rocks consist of quartzites, phyllites, argillites, dolomites and minor amphibolites. These rocks cannot generally be correlated over more than a few hundred metres due to structural complications or sedimentary facies variations. To the west, the Windermere rocks consist of a basal conglomerate unit overlain by quartzite and black argillite. A small intrusion of quartz monzonite outcrops in the centre of the Baker 1 claim.

PURPOSE OF DRILLING PROGRAM

The percussion drilling program on the Baker mineral claims was initiated in 1983 to test the covered low area between two Mo-W soil geochemical anomalies for molybdenum and/or tungsten mineralization, and to determine the depth of overburden.

INTERPRETATION OF 1980 DRILL RESULTS

Drilling in 1983 has shown the presence of lithologies consisting of light grey phyllite, fine-grained quartzite and calcareous metasediments (skarn).

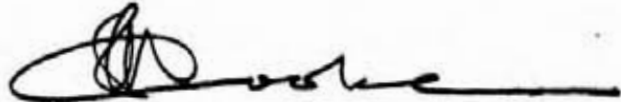
3.

Mineralization consists mainly of pyrite and occurs throughout all of the drill holes. Grades in these rocks are low but persistent, averaging less than 100 ppm Mo. and less than 100 ppm W. The overburden varies from 7.6 metres to 14.6 metres deep.

CONCLUSIONS

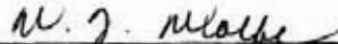
The 1983 diamond drilling program on the Baker mineral claims has succeeded in identifying minor molybdenum and tungsten on the valley bottom. These occur together with disseminated pyrite, in quartzites, phyllites and skarn. No intrusive rocks were identified in the percussion cuttings. More drilling and testing are required to determine whether portions of this mineralized zone could be of economic grade and size.

Report by:



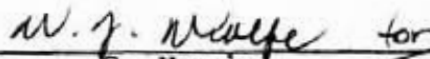
D.L. Cooke, Ph.D., P.Eng.
Senior Geologist

Endorsed by:



W.J. Wolfe,
Assistant Manager,
Exploration
Western District

Approved for
Release by:



G. Harden
Manager, Exploration
Western District

DLC/pm
Distribution
Mining Recorder (2)
W.D. File (1)
DLC (1)

PERCUSSION DRILL LOGS

BAKER CREEK

LOGGED BY: S.B. Butrenchuk

HOLE: PDH83-1

LENGTH: 48.8 meters

<u>INTERVAL (m)</u>	<u>ROCK</u>	<u>DESCRIPTION</u>
0 - 11	Overburden	
11.0 - 48.8	Quartzite	Very fine-grained (grain size less than 1mm) rock containing 85-95% quartz; 5-10% sericite giving the rock a slightly phyllitic appearance. - trace to 2% pyrite throughout the hole; trace molybdenite at 27-30 meters. 43-48.8 meters: rock is distinctly phyllitic containing 10-15% sericite and minor chlorite. - minor quartz veining throughout the hole.

HOLE: PDH83-2

LENGTH: 91.4 meters

<u>INTERVAL (m)</u>	<u>ROCK</u>	<u>DESCRIPTION</u>
0 - 14.5	Overburden	
14.6 - 21.3	Quartzite	- very fine-grained rock containing 75-90% quartz, 5-10% sericite, 5% chlorite, and 2-3% biotite. - 0.5-10% pyrite present. - weakly phyllitic

<u>INTERVAL (m)</u>	<u>ROCK</u>	<u>DESCRIPTION</u>
21.3 - 17.3	Skarn	Very fine-grained rock containing pyroxene and quartz and possible garnet. - quartzite bands present - rock contains 0.5-2.0% pyrite and trace scheelite.

27.3 - 91.4	Quartzite	Very fine-grained, very weak to weakly phyllitic rock containing 85-95% quartz, 5-10% sericite, trace magnetite and less than 5% mafic minerals. - minor quartz veining present throughout the hole - 0.5-1.0% pyrite as disseminated grains
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HOLE: PDH83-3

LENGTH: 91.4 meters

<u>INTERVAL (m)</u>	<u>ROCK</u>	<u>DESCRIPTION</u>
0 - 7.6	Overburden	
7.6 - 79.2	Quartzite	Very fine-grained, very weak to weakly phyllitic rock containing 85-95% quartz, 5-10% sericite and chlorite up to 10%. - 0.5-2.0% pyrite as disseminated grains present throughout the interval - minor quartz veining 21.3 - 30 meters and 48.8 - 61 meters - trace molybdenite 48.8 - 51.8 meters
79.2 - 82.8	Skarn	Very fine-grained, pyroxene rich rock containing trace scheelite and 1.0% pyrite. Quartz and minor chlorite also present.
82.8 - 91.4	Quartzite	Very fine-grained, very weakly phyllitic rock containing 85-90% quartz, 5-10% sericite, and up to 5% mafic minerals of which biotite is in abundance.

HOLE: PDH83-4

LENGTH: 54.9 meters

<u>INTERVAL (m)</u>	<u>ROCK</u>	<u>DESCRIPTION</u>
0 - 14.6	Overburden	
14.6 - 54.9	Phyllitic Quartzite	Very fine-grained, phyllitic rock containing 80-90% quartz, 10-15% sericite and 5-10% mafic minerals (chlorite, biotite, horn- blende) ± trace magnetite throughout the hole; 0.5-3.0% pyrite. - minor quartz veining at 42.6-45.6m and 48.8-51.8 m.

APPENDIX I

1983 ANALYTICAL RESULTS

BAKER CLAIMS

KASLO

REPORTING DATE 19 AUG 1983

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Mo PPM	W PPM
			FROM	TO		
RB3 07011	PDH83-1		36.0	50.0	43	6
RB3 07012	PDH83-1		50.0	60.0	54	8
RB3 07013	PDH83-1		60.0	70.0	270	15
RB3 07014	PDH83-1		70.0	80.0	192	17
RB3 07015	PDH83-1		80.0	90.0	147	9
RB3 07016	PDH83-1		90.0	100.0	109	10
RB3 07017	PDH83-1		100.0	110.0	136	12
RB3 07018	PDH83-1		110.0	120.0	70	11
RB3 07019	PDH83-1		120.0	130.0	54	7
RB3 07020	PDH83-1		130.0	140.0	87	20
RB3 07021	PDH83-1		140.0	150.0	81	25
RB3 07022	PDH83-1		150.0	160.0	60	6
RB3 07023	PDH83-2		48.0	60.0	4	20
RB3 07024	PDH83-2		60.0	70.0	8	300
RB3 07025	PDH83-2		70.0	80.0	4	125
RB3 07026	PDH83-2		80.0	90.0	3	30
RB3 07027	PDH83-2		90.0	100.0	2	60
RB3 07028	PDH83-2		100.0	110.0	3	125
RB3 07029	PDH83-2		110.0	120.0	2	400
RB3 07030	PDH83-2		120.0	130.0	3	300
RB3 07031	PDH83-2		130.0	140.0	5	40
RB3 07032	PDH83-2		140.0	150.0	3	25
RB3 07033	PDH83-2		150.0	160.0	3	30
RB3 07034	PDH83-2		160.0	170.0	2	40
RB3 07035	PDH83-2		170.0	180.0	3	30
RB3 07036	PDH83-2		180.0	190.0	4	20
RB3 07037	PDH83-2		190.0	200.0	4	50
RB3 07038	PDH83-2		200.0	210.0	3	20
RB3 07039	PDH83-2		210.0	220.0	3	6
RB3 07040	PDH83-2		220.0	230.0	5	7
RB3 07041	PDH83-2		230.0	240.0	6	20
RB3 07042	PDH83-2		240.0	250.0	4	15
RB3 07043	PDH83-2		250.0	260.0	7	45
RB3 07044	PDH83-2		260.0	270.0	4	25
RB3 07045	PDH83-2		270.0	280.0	4	11
RB3 07046	PDH83-2		280.0	290.0	3	8

KASLO

REPORTING DATE 19 AUG 1983

PA

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Mg	H
			FROM	TO	PPM	PPM
RB3 07047	PDH83-2		290.0	300.0	4	14
RB3 07048	PDH83-3		25.0	40.0	<2	2
RB3 07049	PDH83-3		40.0	50.0	4	15
RB3 07050	PDH83-3		50.0	60.0	<2	6
RB3 07051	PDH83-3		60.0	70.0	2	7
RB3 07052	PDH83-3		70.0	80.0	5	8
RB3 07053	PDH83-3		80.0	90.0	4	5
RB3 07054	PDH83-3		90.0	100.0	2	7
RB3 07055	PDH83-3		100.0	110.0	6	6
RB3 07056	PDH83-3		110.0	120.0	5	7
RB3 07057	PDH83-3		120.0	130.0	4	8
RB3 07058	PDH83-3		130.0	140.0	6	4
RB3 07059	PDH83-3		140.0	150.0	6	7
RB3 07060	PDH83-3		150.0	160.0	4	6
RB3 07061	PDH83-3		160.0	170.0	5	5
RB3 07062	PDH83-3		170.0	180.0	4	9
RB3 07063	PDH83-3		180.0	190.0	6	10
RB3 07064	PDH83-3		190.0	200.0	3	30
RB3 07065	PDH83-3		200.0	210.0	7	15
RB3 07066	PDH83-3		210.0	220.0	7	8
RB3 07067	PDH83-3		220.0	230.0	6	6
RB3 07068	PDH83-3		230.0	240.0	10	8
RB3 07069	PDH83-3		240.0	250.0	11	20
RB3 07070	PDH83-3		250.0	260.0	10	30
RB3 07071	PDH83-3		260.0	270.0	42	30
RB3 07072	PDH83-3		270.0	280.0	13	25
RB3 07073	PDH83-3		280.0	290.0	24	10
RB3 07074	PDH83-3		290.0	300.0	10	15
RB3 07075	PDH83-4		48.0	60.0	<2	8
RB3 07076	PDH83-4		60.0	70.0	4	7
RB3 07077	PDH83-4		70.0	80.0	12	5
RB3 07078	PDH83-4		80.0	90.0	2	7
RB3 07079	PDH83-4		90.0	100.0	2	8
RB3 07080	PDH83-4		100.0	110.0	5	9
RB3 07081	PDH83-4		110.0	120.0	4	8
RB3 07082	PDH83-4		120.0	130.0	3	15

KASLO

REPORTING DATE 19 AUG 1983

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Mo	U
			FROM	TO	PPM	PPM
RB3 07083	PDH83-4		130.0	140.0	<2	5
RB3 07084	PDH83-4		140.0	150.0	<2	6
RB3 07085	PDH83-4		150.0	160.0	<2	7

WHERE ANALYSIS REQUESTED BUT NO VALUES SHOWN, RESULTS ARE TO FOLLOW

ANALYTICAL METHODS

N PYROSULPHATE FUSION / COLORIMETRIC
Mo HNO3 - HCL04 DECOMPOSITION / AAS

APPENDIX II
STATEMENT OF EXPENDITURES FOR THE
1983 PERCUSSION DRILLING ON THE
BAKER #1 and 2 MINERAL CLAIMS

Salaries

R. Rysiuk - July 26-30, 1983
5 days @ \$148.72 - \$ 743.60

Percussion Drilling

Al Miller Percussion Drilling Ltd.: Direct -
950 ft. @ \$7.50/ft. \$7,125.00
Indirect - Mobilization &
Demobilization 2,692.00
9,817.00

Chemical Analyses: 75 x \$10 (Mo & W) 750.00

Transportation: Truck Rental, etc. 750.00

Camp Costs: 7 days @ \$35 per day 245.00

\$12,305.60



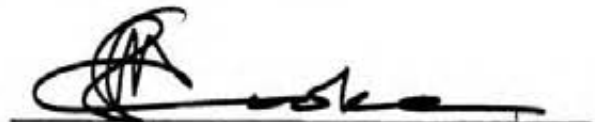
APPENDIX III

STATEMENT OF QUALIFICATIONS

I, DAVID LAWRENCE COOKE of the Municipality of Surrey in the Province of British Columbia, hereby certify:

1. That I am a geologist residing at 16331 Bell Road, Surrey, B.C., with a business office at 409 Granville Street, Vancouver, B.C.
2. That I graduated with a B.Sc. degree in Geology from the University of New Brunswick in 1959, and with a M.A. degree and Ph.D. degree in Geology from the University of Toronto in 1961 and 1966 respectively.
3. That I have practised my profession as an exploration geologist from 1959 to the present in Canada, Mexico, the Caribbean and South America.
4. That I am a Registered Member of the Association of Professional Engineers of the Province of British Columbia.
5. That I supervised the exploration work on the Baker claims and that I am the author of this report.

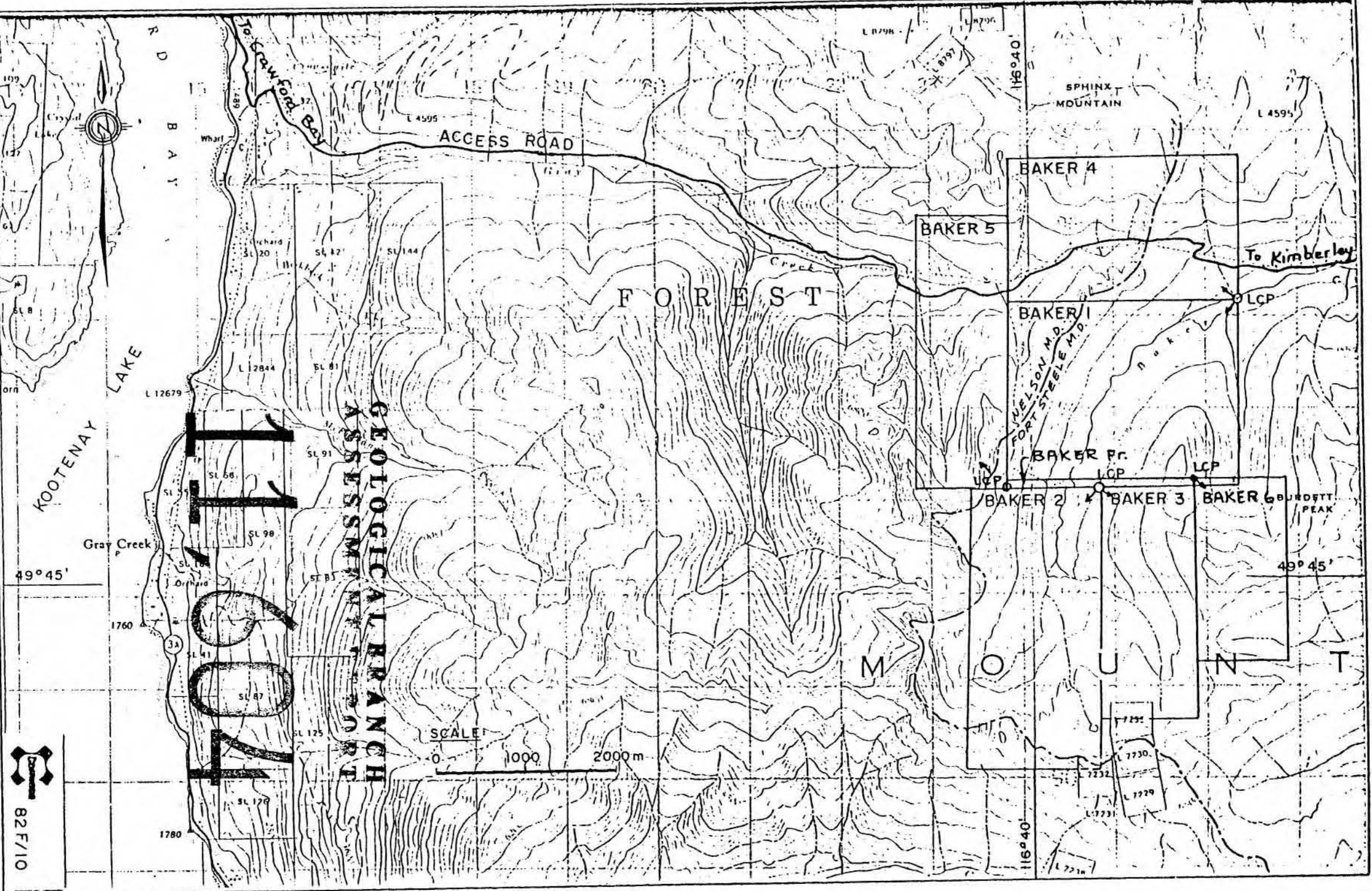
Dated this 25th day of August 1983, at Vancouver, British Columbia.



D. L. Cooke, Ph.D., P.Eng.

Drawn by: *P. J. M.*
 Revised by: _____
 Date: *Oct/80*

Scale: 1:50,000
 Date: AUGUST, 1979
 Plate: 1



LOCATION MAP - BAKER CLAIMS

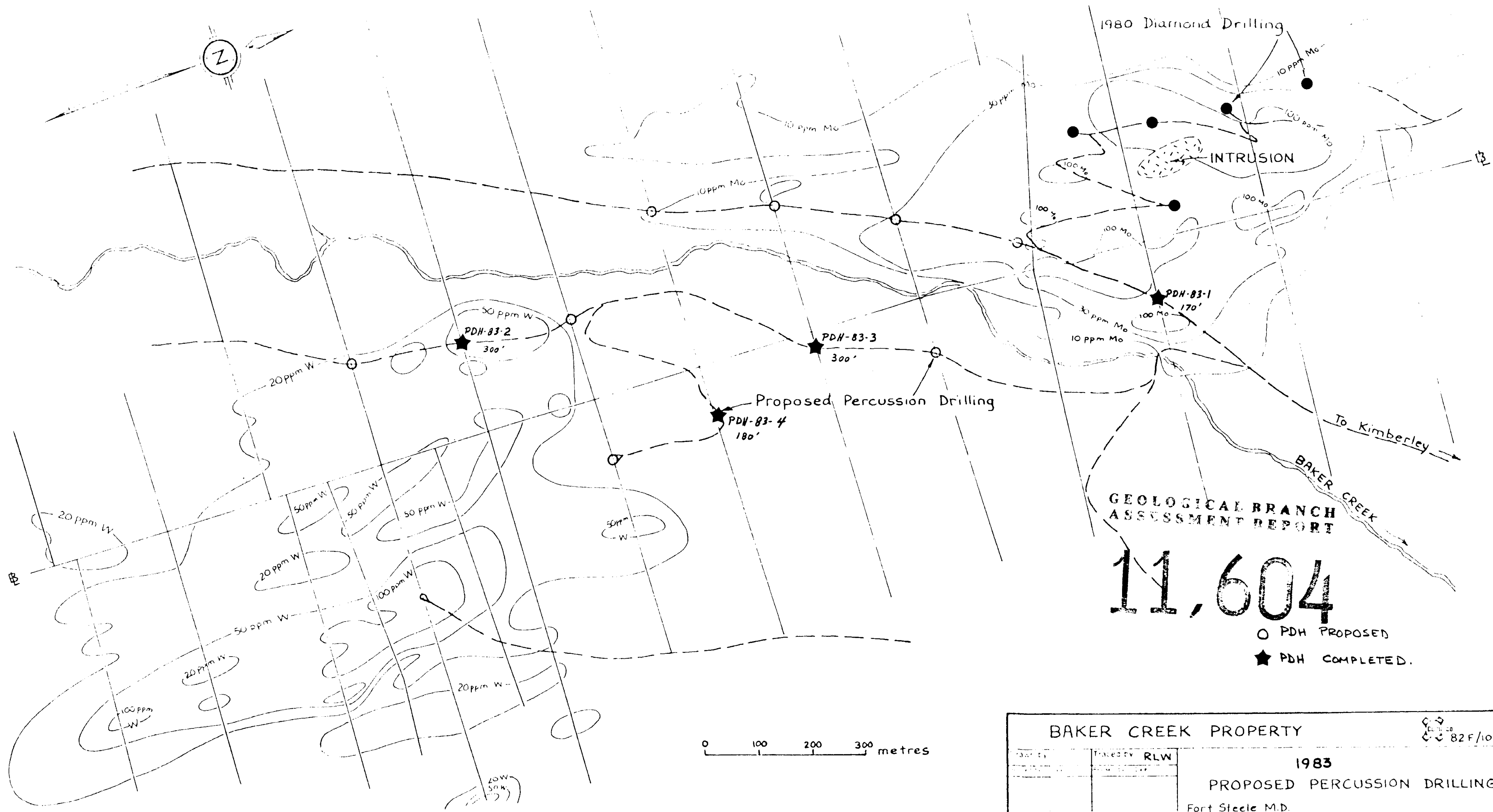
**KOOTENAY MOUNTAINS
 GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

82 F/10

SCALE
 0 1000 2000 m

MPT 112A 21

21028



GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,604

○ PDH PROPOSED
★ PDH COMPLETED.

0 100 200 300 metres

BAKER CREEK PROPERTY		82F/10E
Drawn by	Traced by RLW	1983
PROPOSED PERCUSSION DRILLING		
Fort Steele M.D.		
1:5000	Feb 1/81	2

PDH-83-1 to 4 drilled July 29, 30/1983