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COGEMA CANADA LIMITED
PORPHYRY CREEK PROJECT
FINAL REPORT 1989

RECEIVED

SEP 10 1990

"DIAMOND DRILL RESULTS"

MINING LANDS SECTION

VOLUME 2 OF 2

APPENDIX

1. Summary Logs
2. Field Logs
3. Analytical Results
4. Thin Section Descriptions

by: J. Learn
I. Cadieux
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M. Proulx

Ref. No. 90-CND-52-01
/BCD

Compiled: June, 1990



1. SUMMARY LOG

POC-01:

0 - 61.6	<u>OVERBURDEN</u>
61.6 - 196.9	<u>MAFIC TO INTERMEDIATE METAVOLCANIC ROCKS</u>
61.6 - 126.3	Intermediate to mafic tuffs (and/or flows), weakly graphitic at 70, 78m.
126.3 - 153.35	Amphibole-rich mafic flow(s).
153.35 - 196.9	Mafic to intermediate tuffs (and/or flows).

SUMMARY OF GOLD ANALYTICAL RESULTS

Maximum Au value is 14 ppb

SUMMARY LOG, continued

POC-02:

0 - 40.8	<u>OVERBURDEN</u>
40.8 - 151.5	<u>MAFIC TO INTERMEDIATE METAVOLCANIC ROCKS</u>
40.8 - 54.0	Strongly fractured, oxidized/limonitic.
54.0 - 71.1	Intermediate to mafic tuffs (and/or flows).
71.1 - 134.4	Mafic to intermediate tuffs (and/or flows).
134.4 - 151.5	Intermediate to mafic tuffs (and/or flows).
151.5 - 312.9	<u>FELSIC TO INTERMEDIATE METAVOLCANIC ROCKS</u>
151.5 - 211.1	Feldspar-quartz porphyry.
211.1 - 312.9	Feldspar-quartz crystal tuffs.
312.9 - 321.6	<u>MAFIC TO INTERMEDIATE METAVOLCANIC ROCKS</u>
312.9 - 314.9	Faulted contact.
314.9 - 321.6	Mafic to intermediate tuffs and/or flows.

SUMMARY OF GOLD ANALYTICAL RESULTS

Maximum Au value is 21 ppb

FIELD LOGS

The following notes should help the reader understand the manner in which core was logged, and also includes an explanation of information which is given in the logs in abbreviated form:

<u>COLUMN TITLE</u>	<u>DESCRIPTION EXPLANATION OF ABBREVIATIONS</u>
BOX:	core box number as received from drillers
DEPTH:	depth in metres (from drill floor)
% REC:	% recovery; generally given in 3m intervals, i.e. measured length of core between driller tags expressed as %. However, if drill core can be fitted across drill tag, zone of core loss can be more precisely determined, and we have made every effort to do so
LOG:	graphic representation of drill log; the legend we use is still at a preliminary stage and will be presented in full at a later time
GRAIN SIZE:	visual estimate of grain size; where porphyroblastic or porphyritic rock types occur, grain size of groundmass and coarser minerals given separately
TEXTURE:	macroscopic rock texture
STRUCTURES:	foliations measures in degrees to core axis, folds and other features also reported here
FRACTURES AND VEINS:	F = fracture V = vein
- Density:	where fracture or vein density prohibits individual description (eg where 10 or more fractures of same orientation occur in limited depth interval), density of fractures (or veins) are given: number of fractures (or veins) per metre
- Angle:	angle of fracture (F) or vein (V) to core axis as suffix to feature eg. F40 is a fracture at 40° to core axis; in some cases where more than one identical fracture occurs in restricted interval, we prefix with the number of fractures eg 2F40, rather than report in density column

Fractures and veins have been described, in general, in a more descriptive manner than has been done in previous years. The dominant (and commonly also secondary) orientation and mineralogy is also given (see below). Fracture density is probably best given in these logs by referring to the RQD together with the description given in these columns.

FIELD LOGS (cont'd)

<u>COLUMN</u>	<u>DESCRIPTION</u>
<u>TITLE</u>	<u>EXPLANATION OF ABBREVIATIONS</u>
- Nature:	abbreviated description of fractures and veins including description of fracture eg
	RO, R: rough SM : smooth SS : striations, slickenslides V : vuggy H, HE : healed, recemented
	and also including description of minerals associated with fractures or veins, eg
	cb : carbonate cc : calcite ch, chl : chlorite cl : clay cpy : chalcopyrite ep : epidote fs, fspr: feldspar hem : hematite kaol : kaolinite lim : limonite mt : magnetite mu, musc: muscovite ox : oxides eg limonite, or generally rusty surfaces peg : pegmatoid po : pyrrhotite py : pyrite Q, q : quartz ser : sericite Si : very fine silica cement tm : tourmaline
	other common abbreviations used:
	Bl, bl : bleaching bkn : zones of broken core, probably natural but perhaps locally due to drillers bx : brecciation; dense fracturation of no apparent regular orientation ft : minor fault
	finally, we emphasize that fractures appearing on log are interpreted to be fractures; breaks parallel to foliation are generally not recorded (unless they are interpreted to be fractures) and places where the core has been broken by drillers to fit into core box are not recorded
GEOT:	Geotechnical parameters
- F:	friability - a qualitative measure of rock competence F = friable eg core can be broken with bare hands VF = very friable eg core easily broken EF = extremely friable eg clay where this column is not filled out, hammer is needed to break core

FIELD LOGS (cont'd)

<u>COLUMN TITLE</u>	<u>DESCRIPTION</u> <u>EXPLANATION OF ABBREVIATIONS</u>
- R:	rock quality designation (RQD); a measure of fracture density commonly used in rock mechanics studies where the length of core in box in lengths of 10 cm or greater is expressed as % of one 3m run in very fractured rock, RQD value is low. In non-fractured rock, RQD is 100; where this column is not filled out, RQD is >95%
COLOUR:	colour of core when wet lower case letters are tones: l = light m = medium d = dark capital letters are colours: B = black BL= blue BN= brown G = grey GG= greyish green/greenish grey GN= green O = orange P = pink PG= pinkish grey R = red W = white + = two colours which alternate repeatedly - = colour transitional between two colours
MINERALS AND ALTERATIONS:	a representation of occurrence of minerals of specific interest, abbreviations as for fractures and veins
SAMPLE #:	location and number of sample
TS #:	location and number of thin section
DESCRIPTION:	description given by logging geologist, we have also recorded Au analytical results here



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Form SDG-45

DIAHOND DRILL HOLE RECORD
PORPHYRY CREEK PROJECT

DRILL HOLE NO.: POC-01

CLAIM NO(S).: L1025525
TOWNSHIP : Hoblitzell
DATE BEGUN : 6/03/90
COMPLETED : 11/03/90
LOGGED BY : I.Cadieux

CONTRACTOR : Forage Mercier
CORE SIZE : BQ
DRILL FLUIDS: GS550(O/B), H₂O

COLLAR CO-ORDINATES

	GRID	UTM
X:	<u>2800 E</u>	<u>573150E</u>
Y:	<u>675 S</u>	<u>5483275N</u>
Z:	<u>295m</u>	

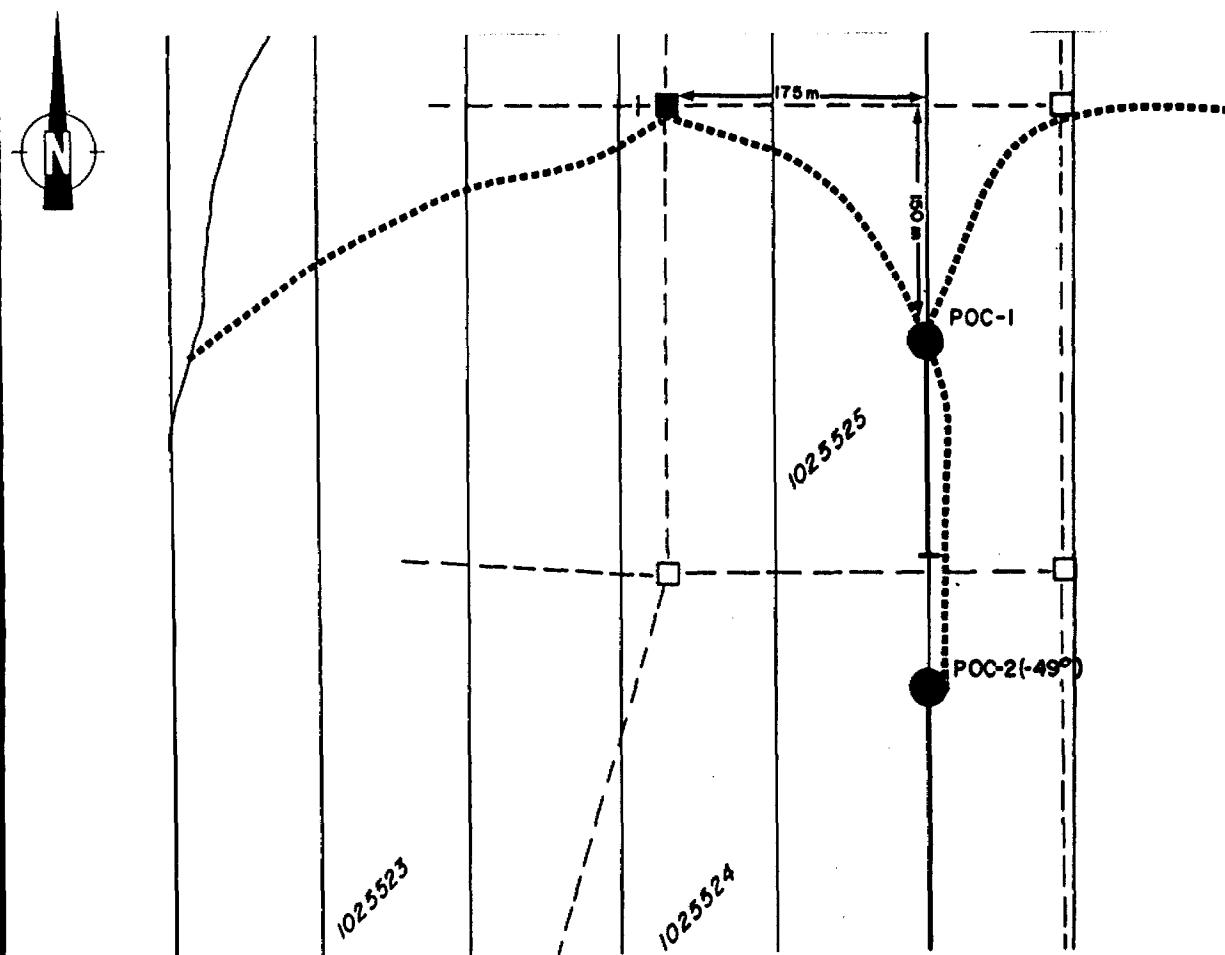
DEPARTURE: AZIMUTH: 180
INCLINATION: -45
CHECKED BY: J.L.

<u>DEVIATION RECORD</u>			
DEPTH	AZIMUTH	DIP	METHOD
60m		-45	MF 4%
120m		-43	" "
180m		-42	" "

HORIZONTAL COMPONENT: 143 m
VERTICAL COMPONENT : 136 m

REMARKS: casing removed, 0.6m from drill floor to ground

LOCATION SKETCH 1:5000:



Box	Depth	% Rec	Log	Grain size mm -0.10 - 0.05	Texture	Structures to core axis	Fractures and Veins Dens. Angle Nature	Géot FR	Colour	Minerals and Alterations S GP I T H TS # #	Description	
											Sample	TS
1	0											
2	10											
3	20											
4	30											
5	40											
6	50											
7	60											
8	70											
9	80											
10	90											
11	100											
12	110											
13	120											
14	130											
15	140											
16	150											
17	160											
18	170											
19	180											
20	190											
21	200											
22	210											
23	220											
24	230											
25	240											
26	250											
27	260											
28	270											
29	280											
30	290											
31	300											
32	310											
33	320											
34	330											
35	340											
36	350											
37	360											
38	370											
39	380											
40	390											
41	400											
42	410											
43	420											
44	430											
45	440											
46	450											
47	460											
48	470											
49	480											
50	490											
51	500											
52	510											
53	520											
54	530											
55	540											
56	550											
57	560											
58	570											
59	580											
60	590											
61	600											
62	610											
63	620											
64	630											
65	640											
66	650											
67	660											
68	670											
69	680											
70	690											
71	700											
72	710											
73	720											
74	730											
75	740											
76	750											
77	760											
78	770											
79	780											
80	790											
81	800											
82	810											
83	820											
84	830											
85	840											
86	850											
87	860											
88	870											
89	880											
90	890											
91	900											
92	910											
93	920											
94	930											
95	940											
96	950											
97	960											
98	970											
99	980											
100	990											
101	1000											

**COGEMA CANADA Ltée/Ltd.
BURNTBUSH RIVER PROJECT**

LOG 1/100

Drill hole no.: POC-1
Geologist(s): T. GARDNER

Date: 10-31-90
Page: 2 of 9

Box	Depth	% Rec.	Log	Grain size mm -0.10 -0.10	Texture	Structures to core axis	Fractures and Veins			Geot. F/R	Colour	Minerals and Alterations			Sample #	TS #	Description	
							Dens.	Angle	Nature			P	R	S	T			
1	72		v			65°			and often angle with core									Recovered core down to 76 m in small sections but not fissile
	69																	
	70		v			70°												
2	70		v			75°	poorly or not well 92(+3) 11			6.5								min. pyrit occurs in veins in graphite sections 70.5 - 71.0 78.3 - 78.4
	70		v			75°	poorly or not well 92(+3) 11			6.5								
	78		v			75°	poorly or not well 92(+3) 11			6.6m								From 79 - 82.2. pyrit occurs in veins & 11.5 and in large clots (patchy bands) in fractures
	80		v			75°	poorly or not well 92(+3) 11			6.6m								
3	82		v			75°	poorly or not well 92(+3) 11			6.6m								(sec 124 - 125)
	82		v			75°	poorly or not well 92(+3) 11			6.6m								
	83		v			75°	poorly or not well 92(+3) 11			6.6m								
	84		v			75°	poorly or not well 92(+3) 11			6.6m								
	85		v			75°	poorly or not well 92(+3) 11			6.6m								
	86		v			75°	poorly or not well 92(+3) 11			6.6m								
	87		v			75°	poorly or not well 92(+3) 11			6.6m								
	88		v			75°	poorly or not well 92(+3) 11			6.6m								
	89		v			75°	poorly or not well 92(+3) 11			6.6m								
	90		v			75°	poorly or not well 92(+3) 11			6.6m								
	91		v			75°	poorly or not well 92(+3) 11			6.6m								
	92		v			75°	poorly or not well 92(+3) 11			6.6m								
	93		v			75°	poorly or not well 92(+3) 11			6.6m								
	94		v			75°	poorly or not well 92(+3) 11			6.6m								
	95		v			75°	poorly or not well 92(+3) 11			6.6m								
	96		v			75°	poorly or not well 92(+3) 11			6.6m								
	97		v			75°	poorly or not well 92(+3) 11			6.6m								
	98		v			75°	poorly or not well 92(+3) 11			6.6m								
	99		v			75°	poorly or not well 92(+3) 11			6.6m								
	100		v			75°	poorly or not well 92(+3) 11			6.6m								
	101		v			75°	poorly or not well 92(+3) 11			6.6m								
	102		v			75°	poorly or not well 92(+3) 11			6.6m								
	103		v			75°	poorly or not well 92(+3) 11			6.6m								
	104		v			75°	poorly or not well 92(+3) 11			6.6m								
	105		v			75°	poorly or not well 92(+3) 11			6.6m								
	106		v			75°	poorly or not well 92(+3) 11			6.6m								
	107		v			75°	poorly or not well 92(+3) 11			6.6m								
	108		v			75°	poorly or not well 92(+3) 11			6.6m								
	109		v			75°	poorly or not well 92(+3) 11			6.6m								
	110		v			75°	poorly or not well 92(+3) 11			6.6m								
	111		v			75°	poorly or not well 92(+3) 11			6.6m								
	112		v			75°	poorly or not well 92(+3) 11			6.6m								
	113		v			75°	poorly or not well 92(+3) 11			6.6m								
	114		v			75°	poorly or not well 92(+3) 11			6.6m								
	115		v			75°	poorly or not well 92(+3) 11			6.6m								
	116		v			75°	poorly or not well 92(+3) 11			6.6m								
	117		v			75°	poorly or not well 92(+3) 11			6.6m								
	118		v			75°	poorly or not well 92(+3) 11			6.6m								
	119		v			75°	poorly or not well 92(+3) 11			6.6m								
	120		v			75°	poorly or not well 92(+3) 11			6.6m								
	121		v			75°	poorly or not well 92(+3) 11			6.6m								
	122		v			75°	poorly or not well 92(+3) 11			6.6m								
	123		v			75°	poorly or not well 92(+3) 11			6.6m								
	124		v			75°	poorly or not well 92(+3) 11			6.6m								
	125		v			75°	poorly or not well 92(+3) 11			6.6m								
	126		v			75°	poorly or not well 92(+3) 11			6.6m								
	127		v			75°	poorly or not well 92(+3) 11			6.6m								
	128		v			75°	poorly or not well 92(+3) 11			6.6m								
	129		v			75°	poorly or not well 92(+3) 11			6.6m								
	130		v			75°	poorly or not well 92(+3) 11			6.6m								
	131		v			75°	poorly or not well 92(+3) 11			6.6m								
	132		v			75°	poorly or not well 92(+3) 11			6.6m								
	133		v			75°	poorly or not well 92(+3) 11			6.6m								
	134		v			75°	poorly or not well 92(+3) 11			6.6m								
	135		v			75°	poorly or not well 92(+3) 11			6.6m								
	136		v			75°	poorly or not well 92(+3) 11			6.6m								
	137		v			75°	poorly or not well 92(+3) 11			6.6m								
	138		v			75°	poorly or not well 92(+3) 11			6.6m								
	139		v			75°	poorly or not well 92(+3) 11			6.6m								
	140		v			75°	poorly or not well 92(+3) 11			6.6m								
	141		v			75°	poorly or not well 92(+3) 11			6.6m								
	142		v			75°	poorly or not well 92(+3) 11			6.6m								
	143		v			75°	poorly or not well 92(+3) 11			6.6m								
	144		v			75°	poorly or not well 92(+3) 11			6.6m								
	145		v			75°	poorly or not well 92(+3) 11			6.6m								
	146		v			75°	poorly or not well 92(+3) 11			6.6m								
	147		v			75°	poorly or not well 92(+3) 11			6.6m								
	148		v			75°	poorly or not well 92(+3) 11			6.6m								
	149		v			75°	poorly or not well 92(+3) 11			6.6m								
	150		v			75°	poorly or not well 92(+3) 11			6.6m								
	151		v			75°	poorly or not well 92(+3) 11			6.6m								
	152		v			75°	poorly or not well 92(+3) 11			6.6m								
	153		v			75°	poorly or not well 92(+3) 11			6.6m								
	154		v			75°	poorly or not well 92(+3) 11			6.6m								
	155		v			75°	poorly or not well 92(+3) 11			6.6m								
	156		v			75°	poorly or not well 92(+3) 11			6.6m								
	157		v			75°	poorly or not well 92(+3) 11			6.6m								
	158		v			75°	poorly or not well 92(+3) 11			6.6m								
	159		v			75°	poorly or not well 92(+3) 11			6.6m								
	160		v			75°	poorly or not well 92(+3) 11			6.6m								
	161		v			75°	poorly or not well 92(+3) 11			6.6m								
	162		v			75°	poorly or not well 92(+3) 11			6.6m								
	16																	

COGEMA CANADA Ltée/Ltd.
BURNTBUSH RIVER PROJECT

LOG 1100

Drill hole no.: POC-1
Geologist(s): J. CADIEU

Date: 10/03/90
Page: 1 of 8

Box	Depth	% Rec	Log	Grain size mm -0.10 -0.05	Texture	Structures to core axis	Fractures and Veins			Géol.	Colour	Minerals and Alterations	U	C	Sample #	TS #	Description
							Dens.	Angle	Nature								
10	100	V				-65°	Poorly	Fracture	Welded								
11	110	V															
12	120	V				30°	Planar	Fracture	Welded								
13	130	V				10-20°											
14	140	V				CC + IIIA											
15	150	V				60°											
16	160	V				60°	Poorly	Fractured	Welded								
17	170	V				DF											
18	180	V				Fracture											
19	190	V				10-20°	Fracture	Welded									
20	200	V				20°											
21	210	V				60°											
22	220	V				60°	Poorly	Fractured	Welded								
23	230	V				DF											
24	240	V				Fracture											
25	250	V				10-20°	Fracture	Welded									
26	260	V				20°											
27	270	V				60°											
28	280	V				60°	Poorly	Fractured	Welded								
29	290	V				DF											
30	300	V				Fracture											
31	310	V				10-20°	Fracture	Welded									
32	320	V				20°											
33	330	V				60°											
34	340	V				60°	Poorly	Fractured	Welded								
35	350	V				DF											
36	360	V				Fracture											
37	370	V				10-20°	Fracture	Welded									
38	380	V				20°											
39	390	V				60°											
40	400	V				60°	Poorly	Fractured	Welded								
41	410	V				DF											
42	420	V				Fracture											
43	430	V				10-20°	Fracture	Welded									
44	440	V				20°											
45	450	V				60°											
46	460	V				60°	Poorly	Fractured	Welded								
47	470	V				DF											
48	480	V				Fracture											
49	490	V				10-20°	Fracture	Welded									
50	500	V				20°											
51	510	V				60°											
52	520	V				60°	Poorly	Fractured	Welded								
53	530	V				DF											
54	540	V				Fracture											
55	550	V				10-20°	Fracture	Welded									
56	560	V				20°											
57	570	V				60°											
58	580	V				60°	Poorly	Fractured	Welded								
59	590	V				DF											
60	600	V				Fracture											
61	610	V				10-20°	Fracture	Welded									
62	620	V				20°											
63	630	V				60°											
64	640	V				60°	Poorly	Fractured	Welded								
65	650	V				DF											
66	660	V				Fracture											
67	670	V				10-20°	Fracture	Welded									
68	680	V				20°											
69	690	V				60°											
70	700	V				60°	Poorly	Fractured	Welded								
71	710	V				DF											
72	720	V				Fracture											
73	730	V				10-20°	Fracture	Welded									
74	740	V				20°											
75	750	V				60°											
76	760	V				60°	Poorly	Fractured	Welded								
77	770	V				DF											
78	780	V				Fracture											
79	790	V				10-20°	Fracture	Welded									
80	800	V				20°											
81	810	V				60°											
82	820	V				60°	Poorly	Fractured	Welded								
83	830	V				DF											
84	840	V				Fracture											
85	850	V				10-20°	Fracture	Welded									
86	860	V				20°											
87	870	V				60°											
88	880	V				60°	Poorly	Fractured	Welded								
89	890	V				DF											
90	900	V				Fracture											
91	910	V				10-20°	Fracture	Welded									
92	920	V				20°											
93	930	V				60°											
94	940	V				60°	Poorly	Fractured	Welded								
95	950	V				DF											
96	960	V				Fracture											
97	970	V				10-20°	Fracture	Welded									
98	980	V				20°											
99	990	V				60°											
100	1000	V				60°	Poorly	Fractured	Welded								

**COGEMA CANADA Ltée/Ltd.
BURNTBUSH RIVER PROJECT**

LOG 1/100

Drill hole no.: POC-1
Geologist(s): T. CADY-EVANS

Date: 11/10 3/90
Page: 1 of 8

COGEMA CANADA Ltée/Ltd.
BURNTBUSH RIVER PROJECT

LOG 1/100

Drill hole no.: POC-1
Geologist(s): I. CANIEUX

Date: 11/10/93
Page: 5 of 8

**COGEMA CANADA Ltée/Ltd.
BURNTBUSH RIVER PROJECT**

LOG 1/100

Drill hole no.: POC-1
Geologist(s): I. CADIEUX

Date: 11/03/90
Page: 8

Box	Depth	Perf	Log	Grain size mm -200 - 2000	Texture	Structures in core and	Fractures and Veins Dens. Angle Nature	Géot F R	Colour	Minerals and Alterations	Sample TS #	TS #	Description
16	16.0												
17	17.0												
18	18.0												
19	19.0												
20	20.0												
21	21.0												
22	22.0												
23	23.0												
24	24.0												
25	25.0												
26	26.0												
27	27.0												
28	28.0												
29	29.0												
30	30.0												
31	31.0												
32	32.0												
33	33.0												
34	34.0												
35	35.0												
36	36.0												
37	37.0												
38	38.0												
39	39.0												
40	40.0												
41	41.0												
42	42.0												
43	43.0												
44	44.0												
45	45.0												
46	46.0												
47	47.0												
48	48.0												
49	49.0												
50	50.0												
51	51.0												
52	52.0												
53	53.0												
54	54.0												
55	55.0												
56	56.0												
57	57.0												
58	58.0												
59	59.0												
60	60.0												
61	61.0												
62	62.0												
63	63.0												
64	64.0												
65	65.0												
66	66.0												
67	67.0												
68	68.0												
69	69.0												
70	70.0												
71	71.0												
72	72.0												
73	73.0												
74	74.0												
75	75.0												
76	76.0												
77	77.0												
78	78.0												
79	79.0												
80	80.0												
81	81.0												
82	82.0												
83	83.0												
84	84.0												
85	85.0												
86	86.0												
87	87.0												
88	88.0												
89	89.0												
90	90.0												
91	91.0												
92	92.0												
93	93.0												
94	94.0												
95	95.0												
96	96.0												
97	97.0												
98	98.0												
99	99.0												
100	100.0												

**COGEMA CANADA Ltée/Ltd.
BURNTBUSH RIVER PROJECT**

LOG 1/100

Drill hole no.: POC-1
Geologist(s): I. COOIGUK

Date: 11/03/97
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COGEMA Canada
Ltée/Ltd.

Form SDG-45

DIAMOND DRILL HOLE RECORD
PORPHYRY CREEK PROJECT

DRILL HOLE NO.: POC-02

CLAIM NO(S).: L1025524
TOWNSHIP : Hoblitzell
DATE BEGUN : 11/03/90
COMPLETED : 18/03/90
LOGGED BY : J.Learn

CONTRACTOR : Forage Mercier
CORE SIZE : BQ
DRILL FLUIDS: GS550(0/B), H₂O

COLLAR CO-ORDINATES

GRID	UTM
X: <u>2800 E</u>	<u>573150E</u>
Y: <u>900 S</u>	<u>548300N</u>
Z: <u>295m</u>	

DEPARTURE: AZIMUTH: 179
INCLINATION: -49
CHECKED BY: I.C.

DEPTHs: OVERBURDEN: 40.8m
 END OF HOLE: 321.6m

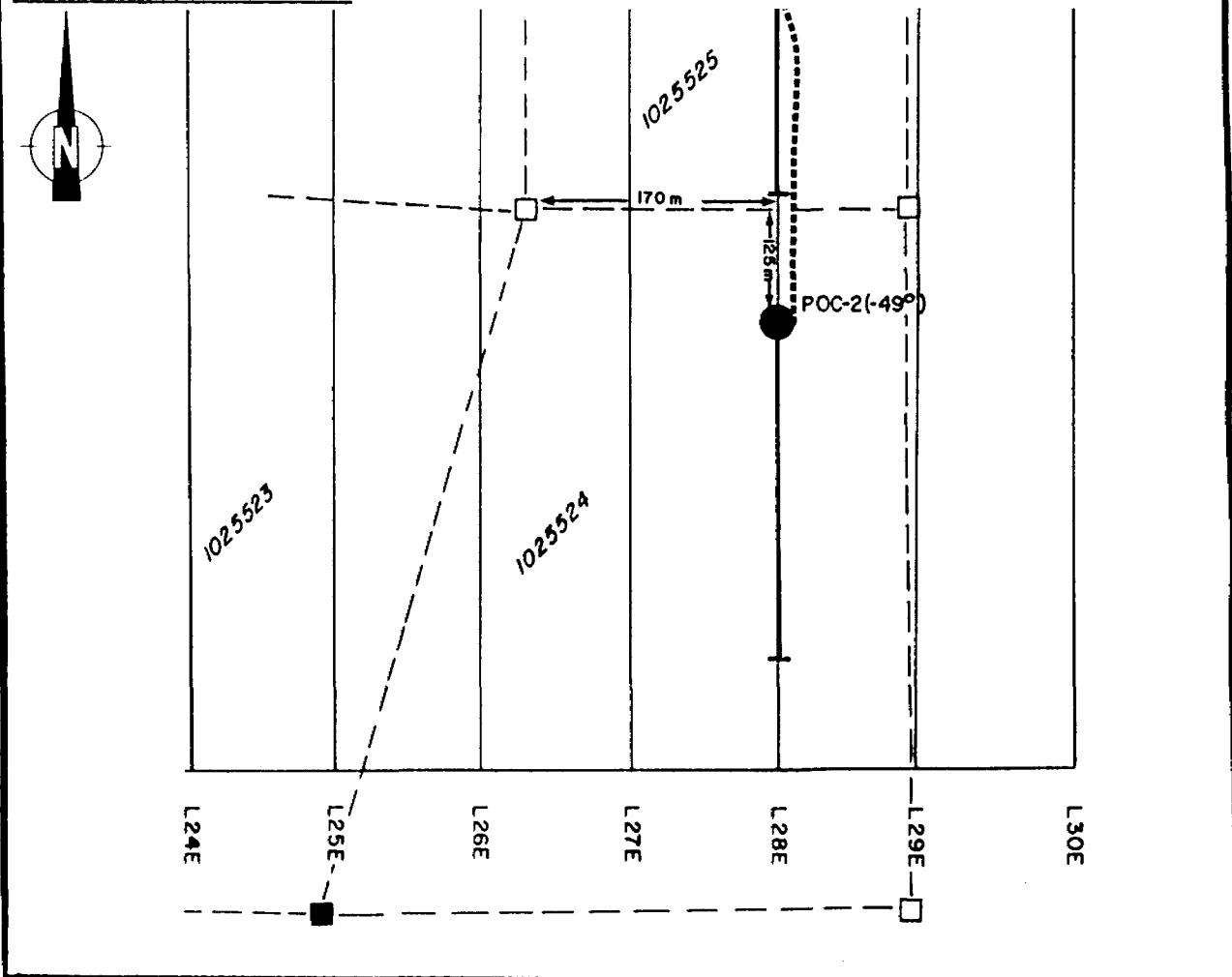
DEVIATION RECORD			
DEPTH	AZIMUTH	DIP	METHOD
60m		-48	HF 4%
120m		-48	" "
180m		-44	" "
240m		-42	" "
321.6m		-36	" "

CHECKED BY: J.L. , I.C.

HORIZONTAL COMPONENT: 229m
 VERTICAL COMPONENT : 225m

REMARKS: BW casing flush with drill floor, Casing left in hole

LOCATION SKETCH 1:5000:



**OGEMA CANADA Ltée/Ltd.
BURNTBUSH RIVER PROJECT**

LOG 1/100

Drill hole no. POC-02
Geologist(s) JL

Date: 16/03/90
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**COGEMA CANADA Ltée/Ltd.
BURNTBUSH RIVER PROJECT**

LOG 1/100

Drill hole no.: POC-02
Geologist(s): JL

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Box	Depth	Per cent	Log	Grain size mm — 25 — 50 — 100 —	Texture to core axis	Structures	Fractures and Veins	Geo- ogr.	Colour	py + po	Minerals and Alterations	Nc	Sample #	S	Description		
72	~72	V	V														
	~90	V	V							X						1415 X C2	
74	~90	V	V	well foliated	165												71.1 - 119.2
	76 - 100	V	V			moderately (to strongly) fractured		d66									amphibole + biotite schist more or less uniform with variations in proportions of amphibole/biotite but with no abrupt contacts (mafic/intermediate flow/taff unit)
	78	V	V	weakly porphyritic	55	mostly //S1 R0/S1 ±ox ±cc (±py)		d6									
	~98	V	V					43									
80	~98	V	V														
8	82 - 95	V	V	well foliated	50	weakly (to moderately) veined q+cc and local cc+g ≤5cm //S1	63	d66									
	84	V	V					d6									
	86	V	V					53									
9	~90	V	V	weakly porphyritic	65											1416 X C2	
	88	V	V					42									
	90	V	V														

**COGEMA CANADA Ltée/Ltd.
BURNTBUSH RIVER PROJECT**

LOG 1/100

Drill hole no. POC-02
Geologist(s) JL

Date: 16/03/90
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Box	Depth	Per cent	Log	Grain size mm -200 -100	Texture to core axis	Structures	Fractures and Veins	Goot FIR	Colour	py/po	Minerals and Alterations	HCl max	Sample #	TS #	Description	
90		V	V													
	~100	V														
92		V	V	well foliated												
				165												
10		V	V													
94		V	V													
95		V	V													
		V	V	weakly foliated												
				165												
				moderately (to strongly) fractured												
				mosaic f/f												
				Ro/SM												
				±ox + ce												
96		V	V													
		V	V													
98		V	V													
		V	V													
11		V	V													
100		V	V													
		V	V	well foliated												
				60												
				weakly (to moderately)												
				weakened												
				qt+ce and												
				local ce=q												
102		V	V													
		V	V	65												
				<5 cm f/f												
				d66												
104		V	V													
		V	V													
		V	V	weakly foliated												
				65												
12		V	V													
		V	V													
		V	V	65												
				(see below)												
106		V	V													
		V	V													
		V	V													
				52												
				trace to 12												
				6-12												
108		V	V													
		V	V													
		V	V													
		V	V	2471										L5		
				2472										L5		

Box	Depth	% Rec	Ldg	Grain size mm -240 - 600	Texture	Structures to core axis	Fractures and Veins			Geot. FIR	Colour	Minerals and Alterations					Sample #	S #	Description
							Dens.	Angle	Nature			HCl	NaOH	KOH	Sample #	S #			
126			V V			-60													
			V V																
126	126		V V		well folded														
			V V																
128	128		V V			-60													
			V V																
130	130		V V			-65													
			V V																
132	132		V V		well folded														
			V V																
132	132		V V			-60													
			V V																
X 134	134		V															134.4 - 151.5	
			<1																
			<1		well folded	-65													
136	136		<1																
			<1																
138	138		<1																
			<1																
140	140		<1																
			<1																
142	142		<1																
			<1																
144	144		<1																

Box	Depth	% Rec	Grain size mm —> 0.40 —> 0.10	Texture to core axis	Structures	Fractures and Veins	GeoL	Colour	Minerals and Alterations						Sample #	TS #	Description
									Dens.	Angle	Nature	F/R	C	M	A		
144	144		< ^ ^ ^		well foliated	—> 65 weakly fractured	IS Ro/SY + cc										
146	146		^ ^ ^ ^			weakly to moderately veined	IS q+cc±f or cc±q	70	ab								
148	148		^ ^ ^ ^ ^			—> 60		70								1421	X 22
150	150		^ ^ ^ ^		well foliated	abundant irregular cals		70									
152	152		+ +					70									151.5 - 211.1
154	154		+ +		porphyritic	—> 65 regular blocky fracturation moderate to strong		70	m b								feldspar-quartz porphyry
156	156		+ +					70	x								154.6 - 157.0 mixed sheared QFP with very fine grained mafic rock
158	158		+ +			—> 55 weakly foliated	F50-60 Hard IS, F75-90 Ro/SY + cc	70	w	(spotted)							overall very uniform texture, although a few places the QFP may be sheared over short intervals (ie. it is a buff and these are simply slightly fine grained) → weakly foliated to massive → with abundant irregular fine grained schlieren
160	160		+ +					70									
162	162		+ +					70									

**COGEMA CANADA Ltée/Ltd.
BURNTBUSH RIVER PROJECT**

LOG 1/100

Drill hole no.: POC-02
Geologist(s): JL

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Box	Depth	Loc	% Rec	Grain size mm - N10 - N100		Texture to core axis	Structures	Fractures and Veins	Geo. F.R.	Colour	Minerals and Alterations						Description
				N10	N100						HCl	Pyrite	Py	Sample #	Sample #		
162	162	II	-	-	-	-	-	-	-	-	-	-	-	2475	CS		
22	164	+	II	-	-	-	-	-	-	-	-	-	-	2476	CS		
	164	130	+	+	-	-	-	-	-	-	-	-	-	2477	CS		
	166	130	+	+	-	-	-	-	-	-	-	-	-	2478 (CS)	control xenoliths of fine grained mafic rock:	160.3	
	168	130	+	+	-	-	-	-	-	-	-	-	-			160.75 - 160.95	
23	170	130	+	+	50° SSW	-	-	-	-	-	-	-	-			161.1 - 161.15	
	170	130	+	+	SW	regular	-	-	-	-	-	-	-			166.1 - 166.25	
	170	130	+	+	SW	blocky	-	-	-	-	-	-	-			170.6 - 170.7	
	170	130	+	+	SW	fracturation	-	-	-	-	-	-	-			172.05 - 172.4	
	170	130	+	+	SW	moderate to	-	-	-	-	-	-	-			177.9 - 178.4	
	170	130	+	+	SW	strong	-	-	-	-	-	-	-			186.25	
	170	130	+	+	SW	F50-60	-	-	-	-	-	-	-			208.8 - 209.1	
	172	130	+	+	SW	and LS,	-	-	-	-	-	-	-				
	172	130	+	+	SW	F75-90	-	-	-	-	-	-	-				
	172	130	+	+	SW	R0/SW + cc	>	-	-	-	-	-	-				
	174	130	+	+	SW	F10-40	-	-	-	-	-	-	-				
	174	130	+	+	SW	SM/R0 + ep + cc	-	-	-	-	-	-	-				
24	176	130	+	+	SW	weakly	-	-	-	-	-	-	-				
	176	130	+	+	SW	foliated	-	-	-	-	-	-	-				
	176	130	+	+	SW	60°	-	-	-	-	-	-	-				
	176	130	+	+	SW	60°	-	-	-	-	-	-	-				
	176	130	+	+	SW	60°	-	-	-	-	-	-	-				
	178	130	+	+	SW	strongly curved	-	-	-	-	-	-	-				
25	178	130	+	+	SW	qz + py + cc	-	-	-	-	-	-	-	2480	CS		
	178	130	+	+	SW	nLS, < 30cm	-	-	-	-	-	-	-				
	180	130	+	+	SW	70°	-	-	-	-	-	-	-	2481	CS		

COGEMA CANADA Ltée/Ltd.
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LOG 1/100

Drill hole no. POC-02

Geologist(s) JL

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Box	Depth	% Rec	Log	Grain size mm -210 -210 Ø	Texture	Structures to core axis	Fractures and Veins Dens. Angle Nature	Goot FIR	Colour	Minerals and Alterations							Sample #	T3 #	Description	
										M	I	I	I	I	I	HA				
180	180	+	π																	
182	182	+	π																	
184	184	+	π																	
186	186	+	π	55 blue green grey																
188	188	+	π																	
190	190	+	π																	
192	192	0	π	+																
194	194	+	π																	
196	196	π	+																	
198	198	π	+																	
199	199	π	+																	

Box	Depth	% Rec	Log	Grain size mm - >10 - <100	Texture	Structures No core axis	Fractures and Veins	Geo. FIR	Colour	Minerals and Sens Alterations				Sample #	TS #	Description
										Dens.	Angle	Nature	HCl			
198																
28			π													
28	200	Q	π +	S NS												
29	202	+	π	blue green yellow pink						rnb	x	w				
29	204	+	π	weakly foliated												
29	206	+	π	no particular dominant orientation												
30	208	+	π											1423	X 12	211.1 - 222.1 QFP becomes well foliated and weakly (to moderately) sericitized it is sheared
30	210	+	π													
31	212	+	π	strong yellow pink												
31	214	+	π	well foliated						rnb						
31	216	+	π	topographic						(rb)						

Box	Depth	% Rec.	Log	Grain size mm —>10 —>100	Texture to core axis	Structures	Fractures and Veins	Géot. FIR	Colour	Minerals and Alterations			Samples #	Description
										Sp	TC			
216									SA					
218									mt					
32	220	130							(SA)					
222									SA					
224									mt					
33	226	130							SA					
228									mt					
230									SA					
34									SA					
232									mt					
234									SA					

222.1-239.75 QFP moderately foliated
not sheared, or only very weakly,
but is much less massive than
above 211.2

after very thin mafic intervals:

227.75-227.9

240.4-240.6

249.2-249.35

Box	Depth	Spec	Log	Grain size mm - 250 - 250	Texture to core axis	Structures	Fractures and Veins	Geo- F.R.	Colour	Minerals and Alterations				Sample #	S #	Description
										Dens.	Angle	Nature	HCl			
234																
235																
236																
237	100															
238																
239																
240																
241																
242																
243																
244																
245																
246																
247																
248																
249																
250																
251																
252																

239.75 - 269.4

again well foliated; shearing probably
a little stronger than 211.1 - 222.1

sample 2484 247.5 - 249.0
has 2.0m of core

248.4 - 251.5 3.55 m core

pyrite is disseminated in S₁ planes;
there appears to be no increase in density
of quartz veining

Box	Depth	% Rec	Log	Grain size mm -250 -200	Texture	Structures to core axis	Fractures and Veins Dens. Angle Nature	Geo F/R	Colour	py	Minerals and Alterations ser, HCl, NaOH	Sample #	TS #	Description		
														1	2	
252										≤12			2487	9		
38	254			very well sorted					m6	≤12			2488	5		
	256								lb				2489	19		
	258								lb				2490	25		
39	260												2491	25		
	262												2492	25		
	264												2493	21		
40	266												2494	19	cont'd (25)	
	268												2495	25		
A	270								m6							

Box	Depth	Rec	Log	Grain size mm -250 -210 0	Texture	Structures to core axis	Fractures and Veins			Geo FIR	Colour	Minerals and Alterations				HCl	Mg	Sample #	TS #	Description	
							Dens.	Angle	Nature			py	se								
	270										m6										
A	272										69										269.4 - 312.9 same crypted tuff unit with texture alternating between sheared and not sheared (or very weakly so)
	274										(-26)										shearing intensity generally decreasing with depth
	276										44										
A2	278										35										
	280										35	m6									
	282										58	m6									
A3	284										59	m6									
	286										70										
A4	288										65										

1427 x 22

Box	Depth	Per cent Rock	Log	Grain size mm -200 -250	Texture to core axis	Structures	Fractures and Veins	Geo- FIR	Colour	Minerals and Alterations			Sample #	TS #	Description	
										Dens.	Angle	Nature	1	2	3	
	288								m6							
Ax	290	100							30							
	292								m6 (-lg)							
AS	294								43							
	296								31							
	298								m6							
Ax	300	100							41							
	302								52							
Ax	304								51	m6						
	306								400 2.7 cc							
									412							
									2497	CS						

**COGEMA CANADA Ltée/Ltd.
BURNTBUSH RIVER PROJECT**

LOG 1/100

Drill hole no.: POC-02
Geologist(s): JL

Date: 20/03/90
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3. ANALYTICAL RESULTS

Three sets of tables follow:

- I) Au, Cu, Zn, K₂O, Na₂O results from XRAL Laboratories (Rouyn). Note that Au, K₂O, Na₂O results from Chimitec (below) are included in this table.
- II) Major element results from Chimitec, Ltee (Ste.Foy).
- III) Minor element results from Chimitec, Ltee (Ste.Foy).

Procedures, detection limits for the various types of analyses are as follows:

= XRAL:

Au:

Fraction: -150 mesh (two stage crushing, grinding)
Extraction: 3 parts HCl: 1 part HNO₃ - aqua regia
Method: Fire assay-atomic absorption
Detection Limit: 5 ppb

Note: 500g is pulverized, 30g is analyzed (one assay-ton)

Cu, Zn:

Fraction: -150 mesh
Extraction: aqua regia
Method: atomic absorption
Detection Limit: 0.01 0/00

K₂O, Na₂O:

Fraction: -150 mesh
Extraction: metaborate fusion
Method: XRF
Detection Limit: 0.01 0/00

* sample batches sent to XRAL include control samples sent at irregular intervals. Control samples are barren quartzite.

= CHIMITEC:

MAJOR ELEMENTS

SiO₂, TiO₂, Al₂O₃, Fe₂O₃ (total iron), MnO, MgO, CaO, Na₂O:

Fraction: -150 mesh (two stage crushing, grinding)
Extraction: metaborate fusion
Method: emission - plasma
Detection limit: 0.01%

K₂O, P₂O₅:

Fraction: -150 mesh
Extraction: metaborate fusion
Method: emission - plasma
Detection limit: 0.03%

LOI:

Fraction: -150 mesh
Method: gravimetry
Detection limit: 0.01%

CO₂:

Fraction: -150 mesh
Extraction: H₃PO₄
Method: gravimetry
Detection limit: 0.05%

MINOR ELEMENTS

Fraction: -150 mesh
Method: neutron activation
Detection limits:
Au : 2 ppb
Sm : 0.05 ppm
Sb : 0.1 ppm
Sc, Th, U, Lu : 0.2 ppm
As, Cs, Ta, Tb, Br: 0.5 ppm
Eu, Hf, Mo, W : 1 ppm
La, Ag, Yb : 2 ppm
Cd, Co, Rb, Se, Ce: 5 ppm
Te : 10 ppm
Cr, Ni : 20 ppm
Ba, Ir : 50 ppm
Zn, Sn : 100 ppm
Zr : 200 ppm
Fe, Na : 0.02%

HOLE	SAMP	FROM (m)	TO (m)	AU (ppb)	CU (%)	ZN (%)	K2O (%)	NA2O (%)
POC-01	2451	68.90	71.90	-5			1.60	1.68
POC-01	2452	71.90	75.00	-5			1.91	2.20
POC-01	2453	78.00	79.50	-5			1.46	1.32
POC-01	2454	79.50	81.00	-5			1.21	3.83
POC-01	2455	81.00	82.50	-5			1.64	2.24
POC-01	2456	82.50	84.00	-5			1.10	1.66
POC-01	2457	84.00	85.50	-5			1.35	0.90
POC-01	2458	85.50	87.00	-5			1.25	3.03
POC-01	2459	87.00	88.50	-5			1.39	4.35
POC-01	1410	101.00	101.50	-2			1.06	2.96
POC-01	2460	122.00	123.50	-5			1.20	2.86
POC-01	2461	123.50	125.00	-5	-0.01	0.07	1.03	1.81
POC-01	2463	125.00	126.50	-5	0.01	-0.01	1.58	2.13
POC-01	2464	126.50	128.00	-5	0.02	-0.01	0.78	1.26
POC-01	1411	142.00	142.50	5			0.03	1.85
POC-01	2465	156.00	157.50	-5	0.02	-0.01	0.99	2.69
POC-01	2466	165.50	167.00	-5	0.01	-0.01	0.79	2.32
POC-01	2467	167.00	168.50	-2			0.81	1.76
POC-01	1412	169.50	170.00	-2			0.48	2.41
POC-01	2468	175.50	177.00	-5	0.01	0.01	1.01	2.69
POC-01	1413	180.50	181.00	-2			0.99	2.14
POC-01	2469	187.00	188.50	-5	0.01	-0.01	0.95	1.85
POC-01	2470	188.50	190.00	14	0.02	-0.01	1.02	1.98

HOLE	SAMP	FROM (m)	TO (m)	AU (ppb)	CU (%)	ZN (%)	K2O (%)	NA2O (%)
POC-02	1414	59.50	60.00	-2			0.50	3.19
POC-02	1415	72.50	73.00	-2			0.46	3.03
POC-02	1416	87.00	87.50	-2			0.72	3.02
POC-02	1417	101.00	101.50	-2			0.96	3.17
POC-02	2471	105.00	106.50	-5			0.93	3.74
POC-02	2472	106.50	108.00	-5			1.01	3.55
POC-02	2473	108.00	109.50	-5			1.00	2.83
POC-02	2474	109.50	111.00	-5			1.14	3.10
POC-02	1418	111.00	111.50	-2			0.77	3.52
POC-02	1419	131.50	132.00	-2			0.11	1.75
POC-02	1420	140.50	141.00	10			0.11	2.13
POC-02	1421	147.00	147.50	-2			0.56	3.31
POC-02	2475	162.00	163.00	-5			2.06	5.51
POC-02	2476	163.00	164.00	-5			2.74	4.85
POC-02	2477	164.00	165.00	-5			2.29	5.06
POC-02	2479	175.50	177.00	-5			1.89	5.41
POC-02	2480	177.00	178.50	-5			1.95	3.84
POC-02	2481	178.50	180.00	-5			2.11	4.57
POC-02	1422	191.00	191.50	-2			2.56	5.20
POC-02	1423	206.50	207.00	-2			2.07	4.68
POC-02	1424	216.50	217.00	-2			3.06	3.13
POC-02	1425	230.50	231.00	4			2.88	4.21
POC-02	1426	243.00	243.50	-2			3.15	3.36
POC-02	2482	246.00	247.50	-5			3.82	3.43
POC-02	2484	247.50	249.00	10			3.87	4.26
POC-02	2485	249.00	250.50	-5			3.76	3.54
POC-02	2486	250.50	252.00	-5			4.23	3.37
POC-02	2487	252.00	253.50	9			3.82	4.27
POC-02	2488	253.50	255.00	5			3.10	3.84
POC-02	2489	255.00	256.50	19			3.73	3.69
POC-02	2490	256.50	258.00	-5			2.91	3.78
POC-02	2491	258.00	259.50	-5			3.13	3.52
POC-02	2492	259.50	261.00	-5			3.00	3.55
POC-02	2493	261.00	262.50	21			3.42	4.26
POC-02	2494	262.50	264.00	19			3.33	3.85
POC-02	2496	264.00	265.50	-5			2.93	3.73
POC-02	1427	284.00	284.50	-2			2.31	4.22
POC-02	1428	300.60	301.10	-2			1.84	5.60
POC-02	2497	304.50	306.00	-5			1.56	4.88
POC-02	1429	318.50	319.00	-2			0.23	2.56

HOLE	SAMP	FROM (m)	TO (m)	SiO2 (%)	TiO2 (%)	Al2O (%)	Fe2O (%)	MnO (%)	MgO (%)	CaO (%)	Na2O (%)	K2O (%)	P2O5 (%)	LOI (%)	TOTL (%)	CO2 (%)
POC-01	1410	101.00	101.50	61.46	0.76	16.60	6.86	0.18	1.66	5.65	2.96	1.06	0.25	1.09	98.54	0.29
POC-01	1411	142.00	142.50	50.48	0.89	14.02	11.45	0.24	6.44	11.21	1.85	0.03	0.05	1.58	98.23	1.08
POC-01	2467	167.00	168.50	51.64	0.97	14.19	12.80	0.35	3.55	8.92	1.76	0.81	0.18	3.15	98.31	1.37
POC-01	1412	169.50	170.00	53.81	1.29	15.79	9.85	0.30	3.86	10.68	2.41	0.48	0.29	2.56	101.32	1.25
POC-01	1413	180.50	181.00	60.48	0.82	15.82	9.13	0.20	3.46	6.38	2.14	0.99	0.13	1.79	101.33	0.05
POC-02	1414	59.50	60.00	55.15	1.58	16.69	7.40	0.19	3.49	9.46	3.19	0.50	0.29	2.39	100.33	1.76
POC-02	1415	72.50	73.00	56.77	1.80	15.15	7.70	0.17	5.14	8.33	3.03	0.46	0.46	1.18	100.21	0.16
POC-02	1416	87.00	87.50	57.18	1.06	14.70	8.78	0.15	5.38	6.79	3.02	0.72	0.32	1.16	99.26	0.14
POC-02	1417	101.00	101.50	58.89	0.95	14.76	9.00	0.15	4.97	7.31	3.17	0.96	0.22	1.10	101.47	0.18
POC-02	1418	111.00	111.50	61.40	0.78	16.35	6.25	0.11	4.22	5.84	3.52	0.77	0.25	1.58	101.07	0.15
POC-02	1419	131.50	132.00	47.08	1.01	15.59	12.94	0.19	9.48	9.24	1.75	0.11	0.09	2.17	99.65	0.11
POC-02	1420	140.50	141.00	50.58	1.91	13.59	14.00	0.38	1.81	10.85	2.13	0.11	0.24	3.03	98.63	3.15
POC-02	1421	147.00	147.50	53.44	1.89	15.75	12.94	0.24	2.24	8.64	3.31	0.56	0.19	1.77	100.99	1.60
POC-02	1422	191.00	191.50	65.40	0.44	14.56	3.13	0.04	1.82	3.53	5.20	2.56	0.22	2.41	99.31	1.92
POC-02	1423	206.50	207.00	65.05	0.42	14.50	2.99	0.04	1.81	4.24	4.68	2.07	0.26	2.75	98.82	2.08
POC-02	1424	216.50	217.00	65.27	0.40	14.28	2.75	0.05	1.26	5.13	3.13	3.06	0.23	3.81	99.39	2.87
POC-02	1425	230.50	231.00	65.76	0.40	14.37	2.92	0.05	1.53	4.37	4.21	2.88	0.23	2.10	98.80	2.40
POC-02	1426	243.00	243.50	66.74	0.41	14.70	3.11	0.05	1.67	4.41	3.36	3.15	0.20	3.50	101.30	2.27
POC-02	1427	284.00	284.50	66.88	0.42	14.69	3.07	0.05	1.80	4.48	4.22	2.31	0.21	2.73	100.86	1.98
POC-02	1428	300.60	301.10	66.83	0.45	15.11	3.40	0.04	2.04	3.52	5.60	1.84	0.24	2.15	101.22	1.52
POC-02	1429	318.50	319.00	53.51	1.05	16.30	10.29	0.20	3.29	10.29	2.56	0.23	0.21	2.90	100.83	1.83

HOLE	SAMP	FROM (m)	TO (m)	AU (ppb)	SB (ppm)	AS (ppm)	BA (ppm)	CD (ppm)	CS (ppm)	CR (ppm)	CO (ppm)	EU (ppm)	HF (ppm)	IR (ppm)	FE (ppm)	LA (ppm)	MO (ppm)	NI (ppm)	RB (ppm)	SC (ppm)
POC-01	1410	101.00	101.50	-2	-0.10	-0.50	180.00	-5.00	1.20	130.00	14.00	1.00	5.00	-50.00	4.30	13.00	-1.00	26.00	39.00	13.00
POC-01	1411	142.00	142.50	5	-0.10	-0.50	120.00	-5.00	-0.50	300.00	60.00	1.00	2.00	-50.00	8.60	4.00	-1.00	71.00	-5.00	44.50
POC-01	2467	167.00	168.50	-2	-0.10	-0.50	230.00	-5.00	1.10	490.00	55.00	-1.00	2.00	-50.00	11.00	13.00	-1.00	230.00	38.00	34.90
POC-01	1412	169.50	170.00	-2	0.20	0.70	150.00	-5.00	1.00	780.00	74.00	1.00	2.00	-50.00	7.00	11.00	-1.00	220.00	17.00	41.40
POC-01	1413	180.50	181.00	-2	-0.10	-0.50	190.00	-5.00	0.80	220.00	35.00	2.00	3.00	-50.00	6.50	11.00	-1.00	64.00	52.00	20.00
POC-02	1414	59.50	60.00	-2	-0.10	-0.50	170.00	-5.00	0.80	470.00	64.00	2.00	2.00	-50.00	5.80	11.00	1.00	150.00	24.00	40.00
POC-02	1415	72.50	73.00	-2	-0.10	-0.50	160.00	-5.00	0.80	110.00	32.00	1.00	4.00	-50.00	6.00	18.00	-1.00	41.00	-5.00	35.90
POC-02	1416	87.00	87.50	-2	-0.10	-0.50	310.00	-5.00	2.80	350.00	46.00	-1.00	4.00	-50.00	6.90	14.00	-1.00	110.00	49.00	26.00
POC-02	1417	101.00	101.50	-2	-0.10	-0.50	250.00	-5.00	1.40	340.00	37.00	2.00	5.00	-50.00	7.10	14.00	-1.00	92.00	47.00	24.50
POC-02	1418	111.00	111.50	-2	-0.10	-0.50	240.00	-5.00	2.60	220.00	34.00	2.00	5.00	-50.00	4.60	19.00	-1.00	82.00	41.00	19.00
POC-02	1419	131.50	132.00	-2	-0.10	-0.50	51.00	-5.00	0.70	400.00	83.00	-1.00	-1.00	-50.00	11.00	4.00	-1.00	240.00	-5.00	33.60
POC-02	1420	140.50	141.00	10	-0.10	-0.50	91.00	-5.00	-0.50	140.00	58.00	2.00	4.00	-50.00	11.00	10.00	-1.00	41.00	-5.00	36.90
POC-02	1421	147.00	147.50	-2	-0.10	-0.50	350.00	-5.00	2.50	140.00	61.00	-1.00	3.00	-50.00	10.00	9.00	-1.00	74.00	32.00	38.80
POC-02	1422	191.00	191.50	-2	0.10	0.80	900.00	-5.00	2.50	180.00	15.00	1.00	4.00	-50.00	2.30	33.00	1.00	-10.00	71.00	6.40
POC-02	1423	206.50	207.00	-2	0.10	-0.50	810.00	-5.00	3.10	150.00	11.00	2.00	3.00	-50.00	2.30	30.00	2.00	47.00	51.00	6.20
POC-02	1424	216.50	217.00	-2	0.20	-0.50	1100.00	-5.00	2.20	140.00	10.00	2.00	3.00	-50.00	2.10	28.00	1.00	30.00	91.00	5.80
POC-02	1425	230.50	231.00	4	-0.10	-0.50	1800.00	-5.00	2.40	160.00	12.00	-1.00	3.00	-50.00	2.30	29.00	2.00	26.00	73.00	5.70
POC-02	1426	243.00	243.50	-2	0.30	-0.50	1000.00	-5.00	1.90	180.00	11.00	1.00	3.00	-50.00	2.30	28.00	-1.00	20.00	91.00	5.60
POC-02	1427	284.00	284.50	-2	0.10	-0.50	970.00	-5.00	3.60	130.00	9.00	2.00	3.00	-50.00	2.30	27.00	-1.00	29.00	75.00	5.70
POC-02	1428	300.60	301.10	-2	0.30	-0.50	760.00	-5.00	5.40	160.00	13.00	-1.00	3.00	-50.00	2.40	29.00	2.00	33.00	72.00	5.40
POC-02	1429	318.50	319.00	-2	0.10	0.60	68.00	-5.00	0.90	340.00	65.00	2.00	3.00	-50.00	8.90	15.00	-1.00	200.00	17.00	38.50

HOLE	SAMP	FROM (m)	TO (m)	SE (ppm)	AG (ppm)	TA (ppm)	TB (ppm)	TH (ppm)	M (ppm)	U (ppm)	YB (ppm)	ZN (ppm)	CE (ppm)	NA (ppm)	SN (ppm)	TE (ppm)	ZR (ppm)	BR (ppm)	LU (ppm)	SM (ppm)
POC-01	1410	101.00	101.50	-5.00	2.00	0.50	1.20	0.90	-1.00	0.30	3.00	-100.00	34.00	1.90	-100.00	-10.00	-200.00	0.80	0.30	5.00
POC-01	1411	142.00	142.50	-5.00	-2.00	-0.50	-0.50	-0.20	-1.00	-0.20	3.00	160.00	10.00	1.50	-100.00	-10.00	-200.00	-0.50	0.40	2.60
POC-01	2467	167.00	168.50	-5.00	-2.00	0.80	0.90	0.60	-1.00	-0.20	2.00	130.00	37.00	1.70	-100.00	-10.00	-200.00	1.70	0.50	4.90
POC-01	1412	169.50	170.00	-5.00	5.00	-0.50	1.10	0.70	-1.00	0.20	3.00	-100.00	38.00	1.80	-100.00	-10.00	-200.00	1.20	0.40	5.30
POC-01	1413	180.50	181.00	-5.00	2.00	-0.50	0.80	1.00	-1.00	0.30	3.00	-100.00	17.00	1.60	-100.00	-10.00	-200.00	1.30	0.20	3.50
POC-02	1414	59.50	60.00	-5.00	-2.00	0.60	0.90	0.50	-1.00	-0.20	3.00	-100.00	38.00	2.56	-100.00	-10.00	-200.00	-0.50	0.50	6.30
POC-02	1415	72.50	73.00	-5.00	-2.00	0.90	1.50	1.00	1.00	0.20	4.00	-100.00	64.00	2.41	-100.00	-10.00	470.00	-0.50	0.50	8.40
POC-02	1416	87.00	87.50	-5.00	-2.00	0.70	1.10	0.70	-1.00	-0.20	3.00	-100.00	37.00	2.45	-100.00	-10.00	360.00	1.20	0.50	5.80
POC-02	1417	101.00	101.50	-5.00	-2.00	-0.50	1.00	0.70	-1.00	0.20	3.00	110.00	33.00	2.60	-100.00	-10.00	-200.00	0.60	0.60	5.70
POC-02	1418	111.00	111.50	-5.00	-2.00	0.70	1.10	1.40	-1.00	0.30	4.00	-100.00	57.00	2.77	-100.00	-10.00	300.00	0.60	0.50	6.00
POC-02	1419	131.50	132.00	-5.00	-2.00	-0.50	0.80	-0.20	-1.00	-0.20	3.00	-100.00	-5.00	1.60	-100.00	-10.00	-200.00	0.50	0.40	3.50
POC-02	1420	140.50	141.00	-5.00	-2.00	0.60	1.10	0.50	-1.00	-0.20	6.00	110.00	18.00	1.80	-100.00	-10.00	320.00	-0.50	0.70	6.90
POC-02	1421	147.00	147.50	-5.00	-2.00	0.60	1.30	0.70	-1.00	-0.20	4.00	-100.00	23.00	2.67	-100.00	-10.00	-200.00	-0.50	0.60	6.40
POC-02	1422	191.00	191.50	-5.00	-2.00	-0.50	-0.50	4.70	-1.00	1.70	-2.00	-100.00	88.00	4.31	-100.00	-10.00	-200.00	-0.50	-0.20	6.70
POC-02	1423	206.50	207.00	-5.00	-2.00	-0.50	0.60	4.80	-1.00	1.30	-2.00	-100.00	79.00	3.84	-100.00	-10.00	320.00	1.00	-0.20	6.60
POC-02	1424	216.50	217.00	-5.00	-2.00	-0.50	-0.50	4.60	-1.00	1.30	-2.00	-100.00	75.00	2.60	-100.00	-10.00	-200.00	-0.50	-0.20	5.90
POC-02	1425	230.50	231.00	-5.00	-2.00	-0.50	-0.50	4.60	-1.00	1.20	-2.00	-100.00	76.00	3.39	-100.00	-10.00	-200.00	-0.50	-0.20	6.00
POC-02	1426	243.00	243.50	-5.00	-2.00	-0.50	-0.50	4.50	-1.00	0.70	-2.00	-100.00	80.00	2.55	-100.00	-10.00	-200.00	-0.50	-0.20	5.90
POC-02	1427	284.00	284.50	-5.00	-2.00	-0.50	-0.50	4.40	-1.00	0.90	-2.00	-100.00	69.00	3.18	-100.00	-10.00	-200.00	0.80	-0.20	5.90
POC-02	1428	300.60	301.10	-5.00	-2.00	-0.50	0.60	4.80	-1.00	1.20	-2.00	-100.00	75.00	3.81	-100.00	-10.00	-200.00	0.70	-0.20	7.10
POC-02	1429	318.50	319.00	-5.00	-2.00	-0.50	0.80	0.20	-1.00	0.20	4.00	-100.00	47.00	2.36	-100.00	-10.00	-200.00	1.40	0.50	5.40

4. THIN SECTION DESCRIPTIONS

Remarks:

The report was written before the thin sections were studied so the following comments are given:

POC-01

First subunit (61.6-126.3m) of intermediate to mafic tuffs:

one thin section from this unit supports the mesoscopic description given in the text.

Second subunit (126.3-153.35m) of amphibole-rich flows:

one thin section from this unit supports the mesoscopic description in the text; the foliation is very well developed, may be a tuff.

Third subunit (153.35-196.9m) of mafic to intermediate tuffs:

the two thin sections studied support the mesoscopic description in the text; section taken at 180.7m is porphyritic and may be a flow rock.

POC.02

First subunit (40.8-71.1m) of intermediate to mafic tuffs:

one thin section from this unit supports the mesoscopic description given in the text.

Second subunit (71.1-134.4m) of mafic to intermediate tuffs:

five thin sections from this unit were studied and these support the mesoscopic description given in the text.

Third subunit (134.4-151.5m) of intermediate to mafic tuffs:

two thin sections were studied and one (at 140.7) shows 40 0/00 amphibole and no biotite, the other (at 147.4) shows 40 0/00 amphibole and 52 biotite.

the fine grained mematoblastic amphibole (locally chloritized) was probably mistaken for biotite during core description; the corroded texture of the amphibole is different than the amphibole in all previous slides and opaques are slightly more abundant (note that the core here is weakly magnetic, and that these two samples plot clearly together in the tholeiitic andesite field - Figure 5 in text - away from all other samples).

The feldspar porphyritic rocks (151.5-312.9):

seven thin sections are all remarkably similar considering the textural variations observed on the core, except for #1424.

I do not see any strong evidence that these rocks are sheared upon examination of the thin sections.

The mafic to intermediate tuffs at the end of hole (312.9-321.6):

one thin section from the unit shows no biotite, but chlorite pseudomorphs of biotite are present.

* * *

PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTIONSample No.: POC-01-101.0
(1410)Field Rock Name: intermediate to mafic tuffs (and/or flows)
(garnetiferous)Major Minerals: (% - habit, grain size):

~60% very fine grained feldspar - quartz, groundmass
~20% amphibole (hornblende) mostly well oriented/occasional porphyroblasts
~20% biotite - well oriented laths define good foliation
~1% garnet - porphyroblasts generally occur along distinct "horizons"
<1% opaque
<1% disseminated calcite grains

Minor Minerals:Veins, Fractures: minor chloritic hairline fractures at ~60° to foliation
with associated weak calcite alterationAlterations: weak chloritic alteration confined to distinct "horizons"
derived from hornblende/biotiteRock Texture: well foliated / well developed mineralogic and granulometric
variations help define foliation

Rock Name: intermediate tuff



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PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-01-142.3

(1411)

Field Rock Name: amphibole rich mafic flow

Major Minerals: (% - habit, grain size):

- ~60% amphibole (hornblende) variable grain size, well aligned (nematoblastic)
- ~10% interstitial feldspar/granite(?)
- ~1% tiny spherules
- <1% opaque
- <1% disseminated calcite grains

Minor Minerals:

Veins, Fractures: one fracture/vein // foliation with coarse amphibole, calcite, minor chlorite, epidote, muscovite, prehnite (?), granite, feldspar

Alterations: very fresh

Rock Texture: very well foliated/nematoblastic

Rock Name: mafic flow (very fine grained/very well developed metamorphic foliation) or stuff.

(Doc. #0005U - 12.06.86)

PORPHYRY CREEK PROJECT
THIN SECTION DESCRIPTION
Sample No.: POC-01-169.7

(1412)

Field Rock Name: mafic to intermediate tuff (and/or flows)

Major Minerals: (% - habit, grain size):

- ~55% very fine grained feldspar - quartz groundmass
- ~40% amphibole (hornblende), nematoblasts, weakly chloritized
- ~5% biotite, tiny elongate grains, commonly completely chloritized
- ~1% garnet; <1 mm porphyroblasts, local weak chloritization
- <1% opaque
- ≤1% disseminated calcite grains / patches

Minor Minerals:
Veins, Fractures: one vein/fracture at ~50° to S, with calcite, chlorite
 This vein shows a few subsidiary splays in several orientations which extend 1 mm or so away from it.

Alterations: very weak, but pervasive chloritic alteration

Rock Texture: well foliated possibly weakly sheared.

Rock Name: mafic flow or tuff (mineralogic/granulometric variations not present as observed in 1410)



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PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-01-180.7
(1413)

Field Rock Name: mafic to intermediate tuffs (and/or flows)

Major Minerals: (% - habit, grain size):

- ~50% very fine grained feldspar/quartz groundmass
- ~5% plagioclase phenocrysts - weakly to strongly sericitized
estimated composition An₄₅ (Michel-Lévy)
- ~30% amphibole (hornblende), fine grained, moderately nematoblastic
- ~15% biotite, very fine needles, grains, moderately well oriented
- ~1% opaque

Minor Minerals:

Veins, Fractures: a few 2-3 mm quartz veinlets (weakly strained)
roughly parallel to foliation

Alterations: similarly chloritized, perhaps a little stronger than 1412
(mainly due to higher biotite content?)

Rock Texture: moderately foliated (nematoblastic), porphyritic

Rock Name: mafic flow

(Doc. #0005U - 12.06.86)



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PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-59.5
(1414)

Field Rock Name: intermediate to mafic tuffa (and/or flows)

Major Minerals: (% - habit, grain size):

- ~55% very fine grained feldspar - granular groundmass
- ~25% amphibole (hornblende), very elongate grains and aggregates
- ~10% biotite, elongate grains and aggregates
- ~5% chlorite, probably derived from, but not pseudomorphing biotite, hornblende
- ~5% opaque

Minor Minerals:

Veins, Fractures: a few 1 mm quartz (very weakly strained) veinlets // foliation
a few hairline cracks at 70-90° to foliation
with or without quartz, chlorite

Alterations: local weak sericitization may suggest a few small
plagioclase phenocrysts

Rock Texture: very well foliated - metatextural / minor mineralogic variation
helps define foliation

Rock Name: intermediate to mafic tuff

(Doc. #0005U - 12.06.86)



PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-72.7
(1415)

Field Rock Name: mafic to intermediate tuffs (and/or flows)

Major Minerals: (% - habit, grain size):

almost identical to 1414 except there is:

~10% plagioclase phenocrysts estimated composition An₃₅
(weakly to moderately sericitized and generally subangular)
There is no chlorite (~30% amphibole)

Minor Minerals:

Veins, Fractures:

Alterations:

Rock Texture: very well foliated / some mineralogic variation across foliation

Rock Name: mafic to intermediate tuff

(Doc. #0005U - 12.06.86)



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PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-87-3
(1416)

Field Rock Name: mafic to intermediate tuffs (and/or flows)

Major Minerals: (% - habit, grain size):

almost identical to 1415 except there is:

increased amphibole (hornblende) content
a little chlorite in the hinge of crenulation (see below)
~1% calcite in patches
one large patch of plagioclase phenocrysts

~~Mineral~~ a prominent crenulation plane/kink band
occurs at ~45° to S_i foliation, biotite and
chlorite are more abundant in hinge than on limb

Veins, Fractures:

Alterations:

Rock Texture: well foliated, generally uniform mineralogy and texture
except for patch of plagioclase phenocrysts

Rock Name: mafic to intermediate tuff or flow

(Doc. #0005U - 12.06.86)



COGEMA Canada
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PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-101.2
(1417)

Field Rock Name: mafic to intermediate tuffs (and/or flows)

Major Minerals: (% - habit, grain size):

identical to 1415, perhaps 35% hornblende.

Minor Minerals:

Veins, Fractures: hairline crack at 90° to foliation

Alterations:

Rock Texture:

Rock Name: mafic to intermediate tuff

(Doc. #0005U - 12.06.86)



COGEMA Canada
Ltée/Ltd.

PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-111.35
(1418)

Field Rock Name: mafic to intermediate tuffs (and/or flows)

Major Minerals: (% - habit, grain size):

~ 60% feldspar - quartz groundmass, fine grained to very fine grained

15-20% amphibole (hornblende), generally elongate, locally tabular,
generally coarser grained than previous slide

15-20% biotite, elongate needles, aggregates, a little coarser than previously
but not as coarse as hornblende

2-3% opaque

Minor Minerals: clinozoisite

Veins, Fractures: hairline cracks at 90° to foliation

Alterations: very local chloritic alteration of biotite

minor sericitization of groundmass may indicate
relict plagioclase phenocrysts (recrystallized)

Rock Texture: very well foliated

Rock Name: intermediate tuff

(Doc. #0005U - 12.06.86)



COGEMA Canada
Ltée/Ltd.

PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-DZ-131.9
(1419)

Field Rock Name: mafic to intermediate tuffs (and/or flows)

Major Minerals: (% - habit, grain size):

~35% feldspar - quartz groundmass, very fine grained, interstitial to amphiboles

~50% amphibole (hornblende), generally elongate to locally tabular

~10% biotite, mostly completely altered to chlorite

~5% opaque

Minor Minerals: epidote, a few totally sericitized plagioclase phenocrysts

Veins, Fractures:

Alterations:

Rock Texture: well foliated / nematoblastic

Rock Name: mafic tuff

(Doc. #0005U - 12.06.86)



COGEMA Canada
Ltée/Ltd.

PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: PDC-02-140.7

(1420)

Field Rock Name: intermediate to mafic tuff (and/or flows)
(garnetiferous)

Major Minerals: (% - habit, grain size):

- ~50% very fine grained feldspar/quartz, groundmass
- ~40% amphibole (hornblende) renenthalitic and corroded
- ~1% garnet porphyroblasts
- ~7% opaque
- ~1% small epidote grains, most commonly in or near garnets
- ~2% calcite in veins

Minor Minerals:

Veins, Fractures: several 0.1 to 1 mm quartz-calcite and calcite veins parallel to foliation, with minor chlorite

Alterations: most amphiboles are unaltered, some are completely chloritized

Rock Texture: well foliated / renenthalitic / weakly porphyroblastic

Rock Name: mafic to intermediate tuff

PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-147.4

(1421)

Field Rock Name: intermediate to mafic tuffs (and/or flows)

Major Minerals: (% - habit, grain size):

almost identical to 1420 except that:

there is about 5% biotite

there is no garnet (but there are still a few epidote grains)

there is no chlorite

Minor Minerals:

Veins, Fractures:

Alterations:

Rock Texture:

Rock Name: mafic to intermediate tuff

(Doc. #0005U - 12.06.86)

PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-191.2
(1422)

Field Rock Name: feldspar-granite porphyry

Major Minerals: (% - habit, grain size):

- ~25% plagioclase phenocrysts up to 2-3 mm, with abundant flecks of sericite, subhedral to anhedral, estimated composition An₁₀
- ~3% quartz phenocrysts up to ~1 mm, weakly recrystallized / strained
- ~55% feldspar/quartz groundmass
- ~7% biotite, needles and aggregates define weak/moderate foliation
- ~5% muscovite, on plagioclase grain boundaries and cutting across biotite aggregates, also dispersed in groundmass
- ~5% calcite, dispersed grains near and in plagioclase

Minor Minerals: opaques <1%

Veins, Fractures:

Alterations:

Rock Texture: porphyritic, weakly foliated

Rock Name: feldspar-granite porphyry



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PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-206.9
(1423)

Field Rock Name: feldspar - quartz porphyry

Major Minerals: (% - habit, grain size):

almost identical to 1422, a little more calcite

Minor Minerals:

Veins, Fractures: 1 mm calcite veinlet at 45° to foliation

Alterations:

Rock Texture:

Rock Name: feldspar - quartz porphyry

(Doc. #0005U - 12.06.86)

PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-216.8

(1424)

Field Rock Name: feldspar-granite crystal tuff

Major Minerals: (% - habit, grain size):

in comparison to 1423:

albite phenocrysts are far less abundant, either they are completely recrystallized to very fine grained aggregates or they never existed

quartz eyes are slightly more abundant and are larger up to 3 mm
there is only ~5% biotite or less
overall, foliation is much better developed

Minor Minerals:

Veins, Fractures:

Alterations:

Rock Texture:

Rock Name: feldspar-granite crystal tuff



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PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-230.6

(1425)

Field Rock Name: feldspar-quartz crystal tuff

Major Minerals: (% - habit, grain size):

almost identical to 1423, with somewhat better developed
foliation

Minor Minerals:

Veins, Fractures:

Alterations:

Rock Texture:

Rock Name: feldspar-quartz crystal tuff

(Doc. #0005U - 12.06.86)



PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-243.5

(1426)

Field Rock Name: feldspar - quartz crystal tuff

Major Minerals: (% - habit, grain size):

idem 1425

Minor Minerals:

Veins, Fractures:

Alterations:

Rock Texture:

Rock Name: feldspar - quartz crystal tuff

(Doc. #0005U - 12.06.86)



COGEMA Canada
Ltée/Ltd.

PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-284.2

(1427)

Field Rock Name: feldspar - grainy crystal tuff

Major Minerals: (% - habit, grain size):

Idem 1425

Minor Minerals:

Veins, Fractures:

Alterations:

Rock Texture:

Rock Name: feldspar - grainy crystal tuff

(Doc. #0005U - 12.06.86)



PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-300-7
(112)

Field Rock Name: feldspar-granite crystal tuff

Major Minerals: (% - habit, grain size):

ident 1422, one granite eye is 4 mm

Minor Minerals:

Veins, Fractures:

Alterations:

Rock Texture:

Rock Name: feldspar-granite porphyry (?) or crystal tuff

(Doc. #0005U - 12.06.86)

PORPHYRY CREEK PROJECT

THIN SECTION DESCRIPTION

Sample No.: POC-02-318.9

(1429)

Field Rock Name: mafic to intermediate tuff (and/or flows)

Major Minerals: (% - habit, grain size):

~50% fine grained feldspar/granular groundmass

~35% amphibole (hornblende), elongate porphyroblasts, locally chloritized

~10% chlorite - very likely pseudomorphing pre-existing biotite

~1% sericite - locally abundant in groundmass where there is abundant chlorite

~3% opaque

~1% calcite dispersed grains

Minor Minerals:

Veins, Fractures: minor quartz - calcite microveins // foliation

Alterations:

Rock Texture: well foliated / nematic / porphyroblastic

Rock Name: mafic to intermediate tuff

(Doc. #0005U - 12.06.86)



32E12SW0034 2.13517 HOBLITZELL

900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
880 Bay Street, 3rd Floor
Toronto, Ontario
M5S 1Z8

October 19, 1990

File: 2.13479 & 2.13517
Report of Work: W9008.241

Mr. Robert W. Owen
Assessment Files Office
Room 812
77 Grenville Street
Toronto, Ontario
M5S 1B3

Dear Mr. Owen:

Re: Drill Core Analysis submitted on Mining Claims:
L. 1025524 et al in Hoblitzell Township.

I am returning File: 2.13517 to your office. File: 2.13479
has been deleted and merged with this file.

For further information, please contact Dale Messenger at
(416) 965-4888.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Ron C. Cashinski".

Ron C. Cashinski
Acting Provincial Manager, Mining Lands
Mines & Minerals Division

DM: zm
Encl:



August 13, 1990

TO WHOM IT MAY CONCERN

I do hereby certify that the following expenditures have been spent in 1990 for the Porphyry Creek project situated in Hoblitzell Township in northeastern Ontario:

Claim #L1025525 (diamond drill hole POC-01)

major/minor element analyses	5 x 58.00	290.00
Au, K ₂ O, Na ₂ O, Cu, Zn analyses	8 x 37.75	302.00
Au, K ₂ O, Na ₂ O analyses	10 x 25.75	257.50

Claim #L1025524 (diamond drill hole POC-02)

major/minor element analyses	16 x 58.00	928.00
Au, K ₂ O, Na ₂ O analyses	24 x 25.75	<u>618.00</u>
Total	<u>2,395.50</u>	

We have not yet been invoiced for thin sections and reserve the right to claim future credits for data submitted in the technical report which accompanies this statement.

As Vice President, Finance of COGEMA CANADA LTD., I am duly authorized to make this certification.

Dated at Saskatoon, in the Province of Saskatchewan, this 13th day of August, 1990.

COGEMA CANADA LIMITED

A handwritten signature in black ink, appearing to read "Rozon".

R. A. Rozon,
Vice President, Finance.

JL:rhb
def

921879	921879+	921879	1025510	1025511	1025512	1025513	1025514	1025515	1025516	1025517	1025518	1025519	1025520	1025521	1025522	1025523	1025524	1025525	1025526	1025527
			1025501	1025502	1025503	1025504	1025505	1025506	1025507	1025508	1025509	1025510	1025511	1025512	1025513	1025514	1025515	1025516	1025517	1025518
1025498	921879	921879+	1025502	1025503	1025504	1025505	1025506	1025507	1025508	1025509	1025510	1025511	1025512	1025513	1025514	1025515	1025516	1025517	1025518	1025519
1025494	921879	921879+	1025503	1025504	1025505	1025506	1025507	1025508	1025509	1025510	1025511	1025512	1025513	1025514	1025515	1025516	1025517	1025518	1025519	1025520
921879-	1025494	921879	1025503	1025504	1025505	1025506	1025507	1025508	1025509	1025510	1025511	1025512	1025513	1025514	1025515	1025516	1025517	1025518	1025519	1025520
871980	968383	968383	-442702	-442702	-442703	-442703	-442704	-442704	-442705	-442705	-442706	-442706	-442707	-442707	-442708	-442708	-442709	-442709	-442710	-442710
	L 968383	L 968383	L 968386	L 968386	L 968388	L 968388	L 968389	L 968389	L 968390	L 968390	L 968391	L 968391	L 968392	L 968392	L 968393	L 968393	L 968394	L 968394	L 968395	L 968395
871986	836606	836606	836607	836607	836608	836608	836609	836609	836610	836610	836611	836611	834600	834600	828649	828649	828647	828647	828648	828648
871987	836617	836617	836618	836618	836619	836619	836620	836620	836621	836621	836622	836622	836623	836623	836624	836624	836625	836625	828651	828652
871988	836618	836618	836619	836619	836620	836620	836621	836621	836622	836622	836623	836623	836624	836624	836625	836625	836626	836626	836627	836627
871989	836620	836620	836621	836621	836622	836622	836623	836623	836624	836624	836625	836625	836626	836626	836627	836627	836628	836628	836629	836629
	836620	836620	836621	836621	836622	836622	836623	836623	836624	836624	836625	836625	836626	836626	836627	836627	836628	836628	836629	836629
	836630	836630	836631	836631	836632	836632	836633	836633	836634	836634	836635	836635	836636	836636	836637	836637	836638	836638	836639	836639

mining lands.



Ministry of
Northern Development
and Mines

Type of Survey(s)

DIAMOND DRILL CORE ANALYTICAL RESULTS

Claim Holder(s)

COGEMA CANADA LTD. LIMITED

Address

817-825 - 45th Street West, Saskatoon, SK, S7K 3X5

Survey Company

COGEMA CANADA LTD.

Name and Address of Author (of Geo-Technical report)

John Learn, CP 877, Rouyn-Noranda, QC J9X 5C7

Report of Work

(Geophysical, Geological,
Geochemical and Expenditures)

DOCUMENT NO. W9008-241

Instructions

Note:

Please type or print.

If number of mining claims traversed exceeds space on this form, attach a list.

Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

Do not use shaded areas below.

Mining Act

Township or Area

Hoblitzell

Prospector's Licence No.

T4677

2.13517

Date of Survey (from & to)

06 02 90 18 03 90 0

Total Miles of line Cut

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Completed (check here and enter total(s) here)	Electromagnetic	
	Magnetometer	
	Radiometric	
	Geological	
	Geochemical	
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed

Core analysis

Performed on Claim(s)

L1025524, L1025525

Calculation of Expenditure Days Credits

Total Expenditures		Total Days Credits
\$ 2,395.50	÷ 15 =	159

Instructions

Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date

Aug. 13, 1990

Received (Initials or Signature)

V.P. Administration

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

John Learn, CP 877, Rouyn-Noranda, QC, J9X 5C7

For Office Use Only		
Total Days Cr. Recorded	Date Recorded	159
159	Date Approved as Recorded	October 4/90

Total number of mining claims covered by this report of work.

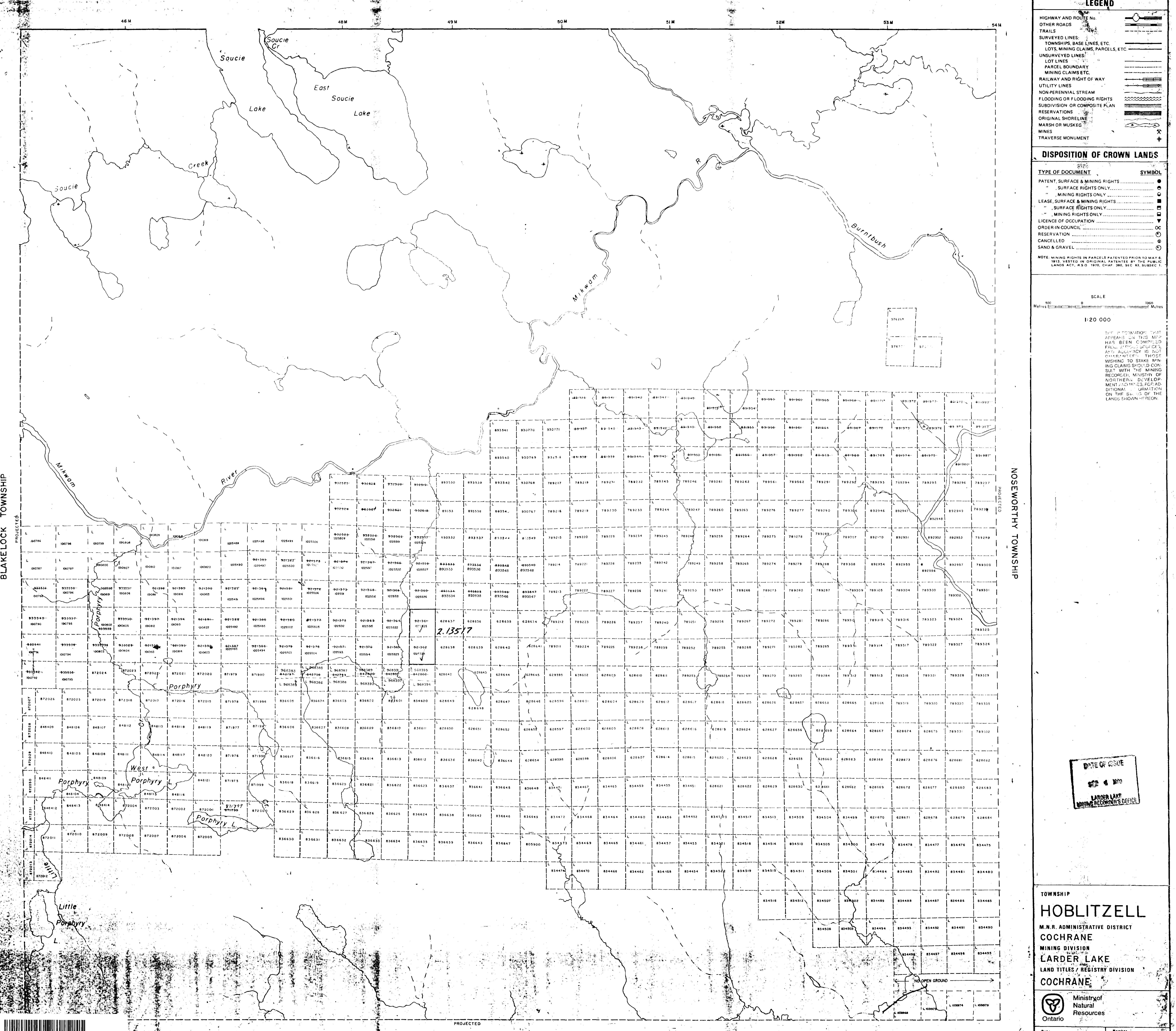
159

Mining Recorder

Brian Gosselin

Br. Director

John Learn



END

HIGHWAY AND ROUTE No.	
ER ROADS	
ILS	
VEYED LINES:	
OWNSHIPS, BASE LINES, ETC.	
OTS, MINING CLAIMS, PARCELS, ETC.	
URVEYED LINES:	
OT LINES	
ARCEL BOUNDARY	
NING CLAIMS ETC.	
LWAY AND RIGHT OF WAY	
ITY LINES	
-PERENNIAL STREAM	
DODGING OR FLOODING RIGHTS	
DIVISION OR COMPOSITE PLAN	
ERVATIONS	
GINAL SHORELINE	
SH OR MUSKEG	
S	
VERSE MONUMENT	

POSITION OF CROWN LANDS

<u>TYPE OF DOCUMENT</u>	<u>SYMBOL</u>
ENT, SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	○
SE, SURFACE & MINING RIGHTS	■
SURFACE RIGHTS ONLY	□
MINING RIGHTS ONLY	□
NCE OF OCCUPATION	▼
ER-IN-COUNCIL	OC
RVATION	●
CELLED	⊗
D & GRAVEL	◎

MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

A scale bar diagram with a horizontal line. At the left end is a small vertical tick mark with the number '0' above it. Along the line are two larger vertical tick marks, each with a horizontal line extending to its right. The first tick mark has the number '0' above it. The second tick mark has the number '1000' above it. To the right of the second tick mark, there is a label 'Metres'.

20 000

FORMATION THAT
ON THIS MAP
EN COMPILED
VIOUS SOURCES,
UFLACY IS NOT
TEEN THOSE
TO STAKE MIN-
IS SHOULD CON-
H THE MINING
H, MINISTRY OF
RN DEVELOP-
MMINES, FOR AD-
FORMATION
STATUS OF THE
TOWN HEREON.

NOSEWORTHY TOWNSHIP

DATE OF ISSUE
SEP 4 1970
**LAKER LAKE
PARK RANGER'S OFFICE**

WNSHIP
IOBLITZELL
I.R. ADMINISTRATIVE DISTRICT
OCHRANE
NING DIVISION
ARDER LAKE
D TITLES / REGISTRY DIVISION
OCHRANE



