



42A06SW0023 17 ADAMS

010

DIAMOND DRILLING

TOWNSHIP: ADAMS

REPORT NO:17

WORK PERFORMED FOR: Porcupine Balmoral Resources Inc.

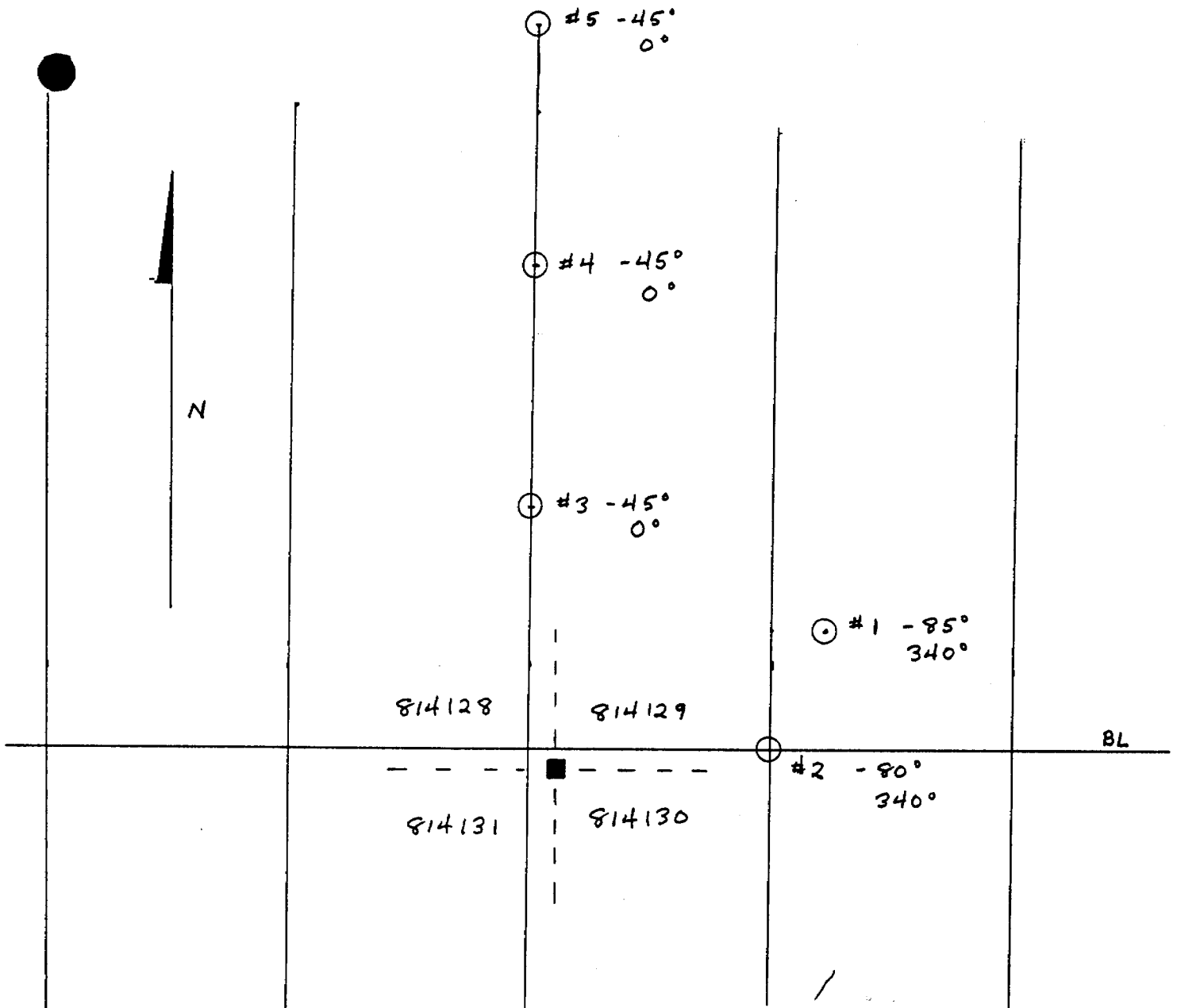
RECORDED HOLDER: Same as Above [xx]
: Other []

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
P814129	1	1268'	Aug/87	(1) (2)
	2	1232'	Aug/87	(1) (2)
P814128	3	405'	Sept/87	(1) (2)
	4	505'	Sept/87	(1) (2)
	5	505'	Sept/87	(1) (2)

3915'

NOTES: (1) #319-87, filed in June/88

(2) Similar diamond drilling logs & assay added to this file
Oct/89 from OMEP # OMB7-5-C-125



PORCUPINE BALMORAL RESOURCES LTD.

Diamond Drill Location Plan

Scale: 1:2500

L2W

LIW

L00

L1E

L2E

H. Fisher

PORCUPINE BALMORAL RESOURCES LTD.

Drill Summary Sheet

Hole Number: 1	Coordinates: 1+21E 0+47N
Property Name/No: BALMORAL PORCUPINE	Claim Number: 814129
Azimuth: 340	Dip: -85
Length: 1268 FEET	Elevation: -
Date Started: AUG 4, 1987	Date Completed: AUG 10, 1987
Logged By: HANS FOHSE	Date: OCT 8, 1987
Casing (in or out),(water) IN	Core Location: CORE LIBRARY
Drill Company: GROLEAU	Date Samples Shipped:

NTS

	Depth (m)	Acid Dip Tests	Corrected Reading (deg)
1)			
2)			
3)			
4)			

Purpose:

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Conclusions:

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Recommendations

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H Fohse

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION		MINERALIZATION					SAMPLE			
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL CA OTH	From	To	PY	APY	PRH	CPY	OTH	No	From
		Casing Overburden															
125	133				unassembled boulders and bedrock pieces (heavy conc loss)												
133	135	Porphyry	Pu GY	F-C	sheared foliated with porphyritic trails, fine flakes white mica omnipresent												
135	155	Mafic Tuffs	BL GN BL GY	F	laminated-banded with streaky-lensy-undulating layering common, plus convolute banding	common stringers veining blebs	300 banding	S	Dis								TR - M
155	160	Sheet-type Lamprophyric	DK BR GY	M	foliated "lamprophyric" (biotite alignment)	M bands and veins		M S									
160	215	Mixed Mafic Tuffs & flows	BL GN BL GY	F-M	alternating layered- banded (F) and unbanded amphibolitic-textured units, streaky compositional banding plus felsic-calcic stringers boudinage-like or flow- type structures with angular fragments convolute banding and Schlieren some fracturing with brecciation zone 199-201	S veining stringers fracturing brecciation	30-350 banding	M S	Dis								TR To M

H. Folse

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION	MINERALIZATION					SAMPLE						
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE-AXIS	SIL	CA	OTII	From	To	PY	APY	PRH	CPY	OTII	No	From
215	223	Sheet-type Lamprophyric	BR GY	M	foliated - "lamprophyric" 1 ft wide contact zone with shearing-brecciation plus chilling evidence														
223	290	Mafic Tuffs and Flows	DK GY DK GN GY	F-M	alternating layered and massive unbanded units with amphibolitic to lamprophyric affinities, banded units with streaks Schlieren structures and convolute lamination 0.5 ft siliceous intercalation at 256 ft (? porphyry)	streaky banding and veins	40-45° banding foliation	S		Dis			TR						
290	297	Chertstone	Pu BR	aphanitic	sheared siliceous ground= mass (no phenocrysts)	S veining fracturing	45° contacts banding	M											
297	309	Mafic Tuffs	BL GN	F	laminated-banded	S streaky veining	40-45° banding	S		Dis			TR						
309	358	Amphibolite Mafic Flows	DK GY BL GY	M	massive amphibolitic, foliated, minor banding quartz vein band at 336 ft (unmineralized)	S banding streaky veins S fracturing	40° foliation	M S		Dis			TR						

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION			MINERALIZATION					SAMPLE I				
From	To		COLOR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From
663	742	Amphibolite	MD GY	M-F	massive amphibolitic textured with few banded intervals increasing from 713ft	S fracturing streaky veining	50° foliation	M	M	S	Dis	TR							
742	751	Greenstone	GN GY	F-M	dense layered banded with disrupted schlieren structures and distortions	S streaky veining		S	S		742	TR							
751	758	Porphyry	PV GY	F-C	several intercalations of porphyritic material (0.2 - 3ft thick at 752-755ft) in layered-banded unit as above		50° contacts w/ banding												
758	891	Amphibolitic Lamprophyric Flows and Sheets mainly Metaandesitic	MD GY GN GY BR GY	M	massive amphibolitic to lamprophyric textured units with some diffuse banding plus few strongly banded intervals, fine sulfide mineralization commonly associated with quartz-calcite veinlets and in cracks, quartz-calcite vein 769-771ft (unmineralized) calcitic fracture zone 815-817	common fine fractures M streaky banding and veining	50° foliation	S	S		775-778 784-786 794-795 804-805 834-836 848-849 from 850	S M M S S M TR						1 2	775-778 834-836
891	895	Porphyry	PV GY	F-C	siliceous-porphyritic with subhedral phenocrysts (upto 2-3mm), sharp v. contact undulating l. contact		60° v. contact 45° l. contact												

brown
gangue
min.

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION	MINERALIZATION					SAMPLE						
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From
1049	1081	Greenstone tuffaceous	GN GY	F-M	dense layered-banded, variously spaced compositional banding and zones, few intercalated siliceous zones (? sediments or porphyries)	S streaky veining and fracturing		M	M	S									
1081	1082	Porphyry	Pu GY	F-C	siliceous, sheared		55° contact												
1082	1101	Greenstone tuffaceous	GN GY	F-M	dense layered banded unit continuing with grading intervals to amphibolite, some schlieren banding	M-S streaky veining		M	M	S	Dis		TR						
1101	1103	? Lamprophyric sheet-type	BR GR	F-M	massive sheet of mafic composition, flecking structure, sheared brecciated contacts, ? chilled margins														
1103	1125	Greenstone	GN GY	F	dense layered banded, streaky and schlieren banding common, amphibolitic zone 1120-1124	M veining		M											
1125	1126	Porphyry	Pu GY	F-C	siliceous porphyritic sharp ? sheared contact		60° contact				1120		M						

PORCUPINE BALMORAL RESOURCES LTD.

Drill Summary Sheet

Hole Number: 2	Coordinates: BL 1+00E
Property Name/No: BALMORAL PORCUPINE	Claim Number: 814129
Azimuth: 340°	Dip: -80°
Length: 1232 FEET	Elevation: -
Date Started: AUG 11, 1987	Date Completed: AUG 19, 1987
Logged By: HANS FOHSE	Date: OCT 9, 1987
Casing (in or out),(water) IN	Core Location: CORE LIBRARY
Drill Company: GRDLEAU	Date Samples Shipped:

NTS

	Acid Dip Tests	
	Depth (m)	Corrected Reading (deg)
1)		
2)		
3)		
4)		

Purpose:

Conclusions:

Recommendations

H Fohse

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION			MINERALIZATION					SAMPLE				
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From
		Casing Overburden																	
126	169	Mafic Tuffs	GN BL	F	layered, compositional banding and zoning. streaks distorted sub-parallel with micro-brecciation. quartz vein (1-2cm)	S stringers S veining	35° banding		S		DIS	TR							
169	171	Siliceous Sheet	PN GY	F			40-35° conic axis												
171	184	Mafic Flows	DK GY	F-M	interbanded to foliated more or less amphibolitic textured	M streaks			M		Dis	TR							
184	254	Mafic Tuffs	GN BL To DK GN GY	F-M	layered-banded units w. abundant calcified conchoidal or schlieren structures, angular fragments in pinch and swell structures, calcite streaks and banding parallel to compositional banding; ? flow-type micro-brecciation also diffused calcitization zones	S stringers and veins M fracturing	20-45° banding distortions		S AB		Dis	TR							
254	267	Amphibolite Lava Flows	GN GY OL GY BR GY	M	partly amphibolitic textured lava-type units, weakly foliated with sharp undulating contact to above unit	S veining	35-40° banding		S										
							450 contact // banding-foliation				257 fracture	S							

H. Johse

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION	MINERALIZATION					SAMPLE								
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From	To	
364	418	Amphibolite	GN GY	M-F	amphibolitic textured, massive with few interbanded zones partly with schlieren structures (400-408 ft). BR-GR M-F grained sheet (Clamprophyrid?) w. banded grading contacts	S streaks and veining qu-calcite vein (4cm) 411 ft	> 60°														
418	443	Amphibolite Flows and Tuffs	DK GY GN GY	F	amphibolitic, frequent interbanded zones with schlieren and convolute banding (420, 432, 435-443 ft)	S streaks qu-calcite zone (5cm) 419 ft															
443	490	Amphibolite	HD GY GN GY	M-F	predominantly massive amphibolitic w. few interbanded zones. Partly granitic flow beside abundant biotite, hbl. streaky distorted banding 466-473 ft	M streaks and veining throughout	40-50° banding														
490	555	Amphibolite Flows and Tuffs intermixed	HD GY GN GY	F-M	amphibolitic with increasing banded intervals (compositional banding plus veining) dominating from 508-532 ft with schlieren and streaky distorted banding, becoming less interbanded from 532 ft	veining banding Brecciation and fractures	40° banding														

411 (outside vein)

Dis in few veins → S

Dis few quartz-calcite bands and veinlets → S

M

TR

TR

M M

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION			MINERALIZATION					SAMPLE					
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE-AXIS	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From	To
1015	1038	2 Metaandestite Flow-type	MD GY	M-F	massive, weakly foliated "semi-amphibolitic" textured (viz. intermediate metavolcanic)	M banding				M M										
1038	1052	Greenstone tuffaceous	GN GY	F	dense layered-banded shear, siliceous-calcic banding (veins), quartz vein (white to semi-transluc. quartz at 1039), plus fractures	S banding veins - fractures		S	S		Dis fractures		TR							
1052	1053	Porphyry	Pu GY	F-C	siliceous sheet, vein and porphyritic															
1053	1063	Greenstone tuffaceous	GN GY	F	dense layered-banded, compositional banding with subparallel vein banding (siliceous- calcic), siliceous sheet 1061-1062 (?? relic porphyry or sediment)	Common banding brecciation fractures		S	S		Dis		TR							
1063	1064	Porphyry?	Pu GY	F	siliceous sheet, sheared															
1064	1102	Greenstone tuffaceous with flows	GN GY	F-M	dense layered-banded as above with "semi- amphibolitic" metavolcanic sheet 1079-1085	Common vein bands fracturing	50° banding		S	S		Dis		TR						
												1084.5 thin vein		AB					G	1083-1085

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION	MINERALIZATION					SAMPLE								
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From	To	
1102	1103	? Porphyry	Pu GY	F-C	siliceous, relic porphyritic sheared contact parallel banding																
1103	1126	Greenstone tuffaceous	GN GY	F	dense layered-banded, boudinage structures and slickensides,	common vein bands S fractures	55-65° banding	S	S		Dis		TR								
1126	1127	? Porphyry	Pu GY	F-C	siliceous sheet, sheared																
1127	1137	Greenstone with ? Lamprophyre	GN GY OL BR	F F-M	dense layered-banded with "lamprophyric" sheet intercalation 1129-1131 ft, sheared/brecciated contact, ? chilled margins, spherulitic alteration texture	common banding (veins)	50-55° banding	S	M		1135 fine quartz streak no mineralization with "lamprophyric" sheet		S								
1137	1138	? Porphyry	Pu GY	F-C	siliceous, relic porphyritic		50° contacts														
1138	1139	Greenstone	GN GY	F	dense layered-banded																
1139	1140	? Porphyry	Pu GY	F-C	siliceous																
1140	1145	Greenstone	GN GY	F	dense layered-banded, siliceous schlieren-breccia structure 1144 ft	common banding (veins)		S	S		1144		S						7	1143-1145	
1145	1149	? Lamprophyre	BR GY	M	massive sheet of mafic composition, sheared/brecc- iated contacts subparallel to banding, rounded ? partly dissolved epigneissose xenoliths 1149 ft.						Dis		S						8	1145-1149	

PORCUPINE BALMORAL RESOURCES LTD.

Drill Summary Sheet

Hole Number: 3	Coordinates: L 00, 1+00N
Property Name/No: BALMORAL PORCUPINE	Claim Number: 814128
Azimuth: 0°	Dip: -45°
Length: 405 FEET	Elevation: -
Date Started: SEPT 10, 1987	Date Completed: SEPT 13, 1987
Logged By: HANS FOHSE	Date: OCT 10, 1987
Casing (in or out),(water) IN	Core Location: CORE LIBRARY
Drill Company: GROLEAU	Date Samples Shipped:

NTS

	Depth (m)	Acid Dip Tests	Corrected Reading (deg)
1)			
2)			
3)			
4)			

Purpose:

Conclusions:

Recommendations

H Fohse

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION	MINERALIZATION					SAMPLE 3-					
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	TO CORE AXIS	SIL CA OTH	From	To	PY	APY	PRH	CPY	OTH	No	From	To	
156	203	Overburden Amphibolite (mafic flows)	DK GY	M-C	massive, amphibolitic textured foliated, w. banded interval 174-175 (sharp upper contact, grading lower contact), main dk minerals: biot, hbl. minor sulfides on calcitic fractures - veinlets brecciated contact 203 ft	R. streaks R. banding R. fracturing w. veinlets	55-60° foliation sub to banding											
203	265	Greenstone tuffaceous with minor Flows	MD GN GY	F	layered-banded with massive intervals (amphi- bolitic), layered siliceous sheet 210-212 ft (L. VIOL. GY) calcitic veining and streaky zones more abundant from 230 ft small breccia zone 245 ft dk. coarser amphibolitic intervals in transitional zone 257-265 ft	M. streaks R veinlets M veining S streaks	40-50° banding	M M M										
265	300	Amphibolite (mafic flows)	DK GY	M	massive, amphibolitic- foliated, few banding intervals	R streaks R veinlets w. fracturing	50° banding w. foliation	M TR M M										

203-205 AB AB 1 202,5-205

223-226 M

235 - red specks & carb.

256 S S

260 TR

Occ TR

H. Fobee

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION		MINERALIZATION					SAMPLE 3				
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL CA OTH	From	To	PY	APY	PRH	CPY	OTH	No	From	
300	314	Breccia zone			2 main zones: 301-303 ft coarse fragments, silica and calcic cemented, calcic halo, 313-314 vein breccia and associated fractures-veinlets broken core in between	breccia vein breccia veinlets		S S S S										
314	387	Amphibolite	DK-HD GN GY	M-F	massive amphibolitic textured, slight change DK-HD colors, weakly foliated, brecciation 364'-368 ft (broken core) layered interval 381-382 ft	R streaks R fracturing w. veinlets	50° foliation	M TR TR		306 (veinlet)								
387	405	Greenstone tuffaceous minow flows	GN GY	F	layered-banded with some massive (amphibolitic) intervals breccia zone 387-389 ft	M banding R streaks R fracturing w. veinlets	55° banding	M TR I M		0c 380 (veinlet)								
	405	end of hole																

no visible mineraliz.

PORCUPINE BALMORAL RESOURCES LTD.

Drill Summary Sheet

Hole Number: 4	Coordinates: 200, 2 + 00N
Property Name/No: BALMORAL PORCUPINE	Claim Number: 814128
Azimuth: 0°	Dip: -45°
Length: 505 FEET	Elevation: -
Date Started: SEPT 14, 1987	Date Completed: SEPT 17, 1987
Logged By: HANS FOHSE	Date: OCT 13, 1987
Casing (in or out), (water) IN	Core Location: CORE LIBRARY
Drill Company: GROLEAU	Date Samples Shipped:

NTS

Acid Dip Tests

	Depth (m)	Corrected Reading (deg)
1)		
2)		
3)		
4)		

Purpose:

Conclusions:

Recommendations

H Fohse

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION			MINERALIZATION					SAMPLE 4-						
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From	To	
	151	Casing																			
151	207	Mixed Tuffs and Flows	DK GY To GN GY BR GY	F-M	amphibolitic w. common intervals of banding, DK massive dense zones of mafic fels 164-165 ft, 176 ft (rich in biot.)	streaks Schlieren S. veining S. fracturing	50-50° banding // foliation	S S S	M M S		Dis 165 170 189		TR M S S								
207	211	Porphyry	PU GY	F-C	porphyritic textured (phenocrysts), sheared contacts																
211	265	Amphibolitic Mafic Flows	GN GY	M	amphibolitic foliated DK zones mafic fels 213 ft, 214 ft, 253 ft ? lamprophyric intrusion w. spherulitic alteration texture 236.5-238 ft	banding streaks M.veining	60-65° banding // foliation	S S	M M		213		S					1	236-239		
265	274	Mafic Fels?	DK GY	F	hard, dense, rich in biotite, no visible foliation, grading contacts with adjacent units																
274	299	Flows with Tuffs inter-mixed	GN GY	F-M	predominantly amphibolitic textured, weakly foliated w. banded intervals 1 cm quartz vein	line streaks Schlieren M. fracturing	60° banding	S S	M M												
299	303	Felsic Sheets	PU GY	F	felsic intercalations of ? porphyry type (? volcanic phenocrysts), several thin sheets up to 1 ft thick very sharp contacts	1 cm qu. vein	55-60° contacts				293		S						2	292-294.5	

2/ False

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION	MINERALIZATION					SAMPLE								
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL	CA	OTH	From	To	Py	APY	PRH	CPY	OTH	No	From	To	
303	325	Flows microw Tuffs	GN GY	F-M	massive to amphibolitic textured (minor coarser intervals) with some banded zones felsic sheet with velic phenocrysts 317-318 ft	S. banding M. streaks M. schlieren M. fracturing	60° banding // foliation	S		M M M	305		TR								
325	340	Greenstone tuffaceous microw flows	GN GY	F	layered banded with amphibolitic textured intervals strong fracturing and brecciation 325-332 ft BL ultramafic zones 333 ft, 338 ft	S. banding fractures brecciation				S S	Occ		TR								
340	441	Amphibolites Mafic Flows microw Tuffs	DK GY TO GN GY	M-C	generally amphibolitic textured massive, foliated grading from fine grained intervals to medium grained units with some banded zones, porphyroblastic flocking 402-415 ft (? feldspar) lamprophyric vein 422-423 ft w. siliceous halo	S. banding sheaky zones veining fractures 370-371 ft, 401-402 plus brecc. veinlets	45-50° banding // foliation	S	M	S M S S	352 355 Dis 370 412 Dis 431		S M TR TR TR						3	352-357	
441	460	Greenstone tuffaceous	GN GY		layered-banded, common sheaky banding and schlieren structures	compositional banding/ bedding streaks veinlets fractures	60° banding			S S	Dis		TR								

Zankerite

PORCUPINE BALMORAL RESOURCES LTD.

Drill Summary Sheet

Hole Number: 5	Coordinates: 400 3+00N
Property Name/No: BALMORAL PORCUPINE	Claim Number: 814128
Azimuth: 0°	Dip: -45°
Length: 505 FEET	Elevation: -
Date Started: SEPT 18, 1987	Date Completed: SEPT 21, 1987
Logged By: HANS FOHSE	Date: OCT 14, 1987
Casing (in or out),(water) IN	Core Location: CORE LIBRARY
Drill Company: GROLEAU	Date Samples Shipped:

NTS

Acid Dip Tests

	Depth (m)	Corrected Reading (deg)
1)		
2)		
3)		
4)		

Purpose:

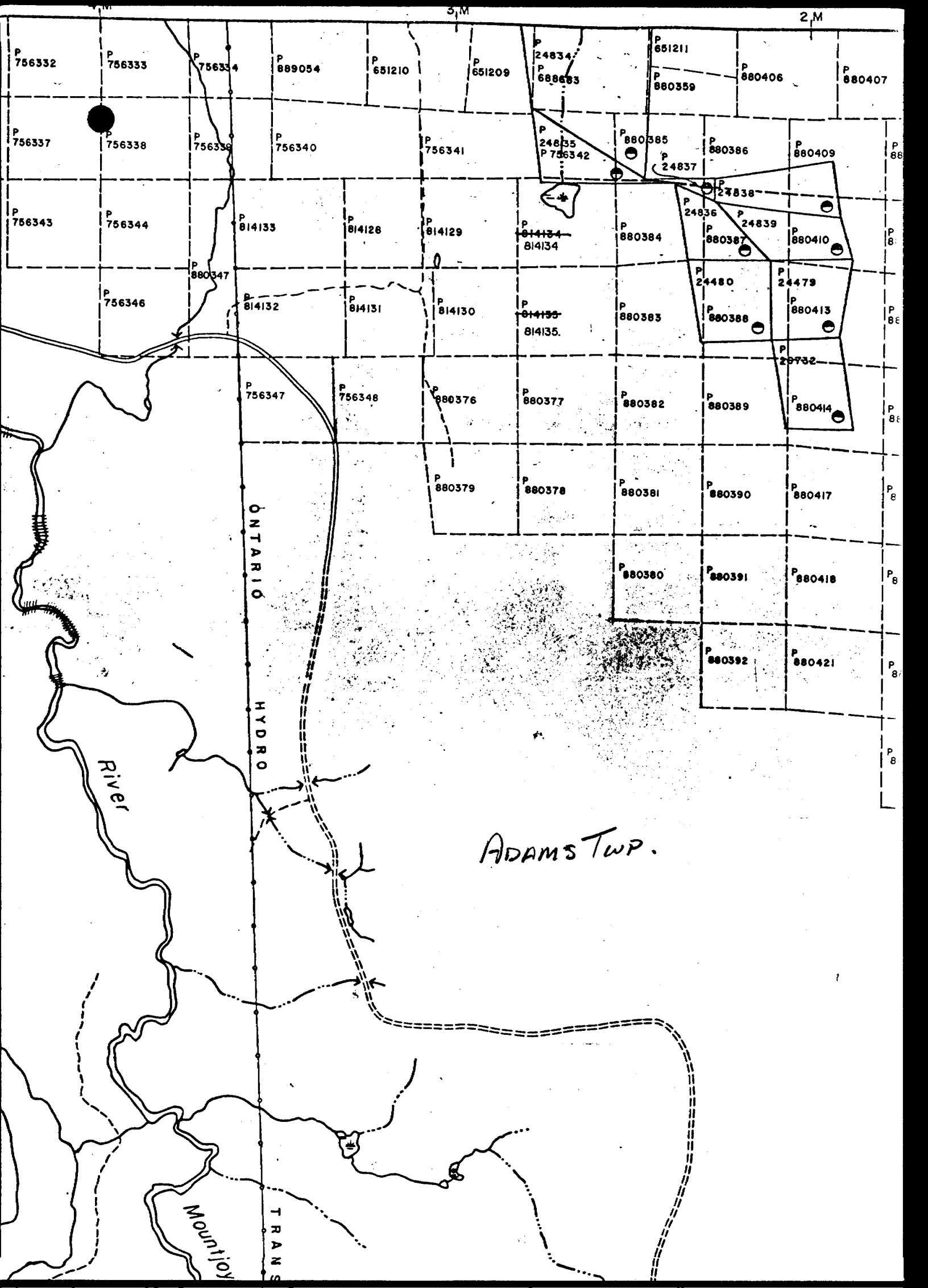
Conclusions:

Recommendations

H. Fohse

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION	MINERALIZATION					SAMPLE 5							
From	To		COLOR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From	
0	126	Overburden																		
26	129	Garnet Tels?	DK GY	F	massive, very hard, structureless (no visible foliation), rich in biot and fine garnet.							Dis	M							
129	195	Amphibolite	GN GY	M	massive amphibolitic textured, weakly foliated only (masked by random growth of porphyroblasts)	M streaks M banding R fracturing w. veinlets	50-60° banding ~ foliation	M	TR	↑ M	139 140 (thin vein)	M S			M S					
195	207	Greenstone tuffaceous	GN GY	F	layered-banded w. some fine grained amphibolitic intervals, weakly foliated	S banding M line streaks R fracturing	60° banding 55° foliation	M	TR	↑ M	202 206	S M								
207	212	Felsic Sheet ? Porphyry	BR GY TU GY		siliceous rock type porphyritic (rel. phenocrysts) at bottom, sharp contacts															
212	325	Greenstone tuffaceous w. minor flows	GN GY minor BR GY	F-H	layered-banded with some alternating fine-grained amphibolitic intervals, 229 - 232 ft also BR GR sheet-type medium grained intercalation (? thin porphyritic), fine grained BR sheet with Sphulitic alteration 271-272 ft siliceous (? porphyritic) interval 295 ft. more amphibolitic textured units 295-309 ft.	M banding and streaks from 235 ft S streaky veining and banding M fracturing increasing 290-291 ft R streaks and banding	60° banding 65° banding	M	TR	↓ M	227.5-228.5 CDK banded contact zone to volcanic sheet 246 Occ	S M TR							1 227.5-229	

H. Fohse



ONTARIO

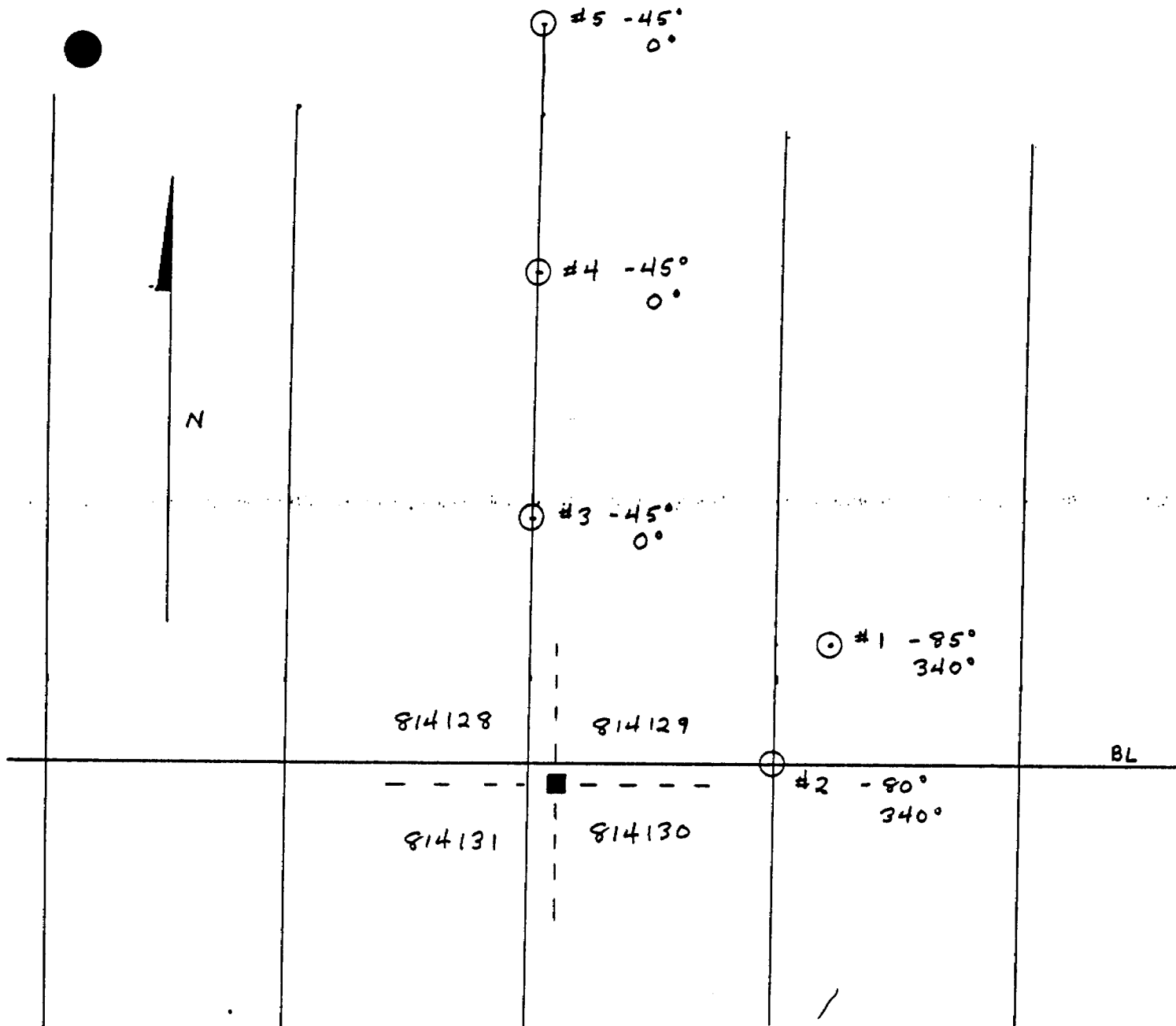
HYDRO

River

Mountain

TRANS

ADAMS TWP.



PORCUPINE BALMORAL RESOURCES LTD.

Diamond Drill Location Plan

Scale: 1:2500

L2W

LIW

L00

L1E

L2E

OM 87-5-C-125

PORCUPINE BALMORAL RESOURCES LTD.

Drill Summary Sheet

Hole Number: 1	Coordinates: 1+21E 0+47N
Property Name/No: BALMORAL PORCUPINE	Claim Number: 814129
Azimuth: 340	Dip: -85
Length: 1268 FEET	Elevation: -
Date Started: AUG 4, 1987	Date Completed: AUG 10, 1987
Logged By: HANS FOHSE	Date: OCT 8, 1987 ✓
Casing (in or out), (water) IN	Core Location: CORE LIBRARY
Drill Company: GROLEAU	Date Samples Shipped:

NTS

	Depth (m)	Acid Dip Tests Corrected Reading (deg)
1)		
2)		
3)		
4)		

Purpose:

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Conclusions:

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Recommendations

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FOOTAGE		ROCK TYPE	DESCRIPTION				STRUCTURE	ALTERATION	MINERALIZATION					SAMPLE					
From	To		COLOR	GRAINS	TEXTURE, MINERALS	TO CORE AXIS			SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No
	125	Casing Overburden																	
125	133																		
133	135	Porphyry	Pu GY	F-C	unassembled boulders and bedrock pieces (heavy conc loss) sheared foliated with porphyritic trails, fine flakes white mica omnipresent														
135	155	Mafic Tuffs	BL GR BL GY	F	laminated-banded with streaky-lensy-undulating layering common, plus convolute banding	common stringers veining blebs		S		30° banding			Dis					TR M	
155	160	Sheet-type Lamprophyric	DK BR S	M	foliated "lamprophyric" (biotite alignment)	M bands and veins		M S											
160	215	Mixed Mafic Tuffs & Flows	BL GR BL GY	F-M	alternating layered- banded (F) and unbanding amphibolitic-textured units, streaky compositional banding plus felsic-calcic stringers boudinage-like or flow- type structures with angular fragments, convolute banding and schlieren some fracturing with brecciation zone 199-201	S veining stringers fracturing brecciation		M S		30-35° banding			Dis					TR To M	

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION			MINERALIZATION					SAMPLE				
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL	CA	OTII	From	To	PY	APY	PRH	CPY	OTII	No	From
215	223	Sheet-type Lamprophyric	BR GY	M	foliated - "lamprophyric" 1 ft wide contact zone with shearing-brecciation plus chilling evidence														
223	290	Mafic Tuffs and Flows	DK GY DK GN GY	F-M	alternating layered and massive unbanded units with amphibolitic to lamprophyric affinities, banded units with streaks Schlieren structures and convoluted lamination 0.5 ft siliceous intercalation at 256 ft (? porphyry)	streaky banding and veins	40-45° banding foliation		S		Dis		TR						
290	297	Chertstone	Pu BR	aphanitic	sheared siliceous ground- mass (no phenocrysts)	S veining fracturing	45° contacts banding		M										
297	309	Mafic Tuffs	BL GN	F	laminated-banded	S streaky veining	40-45° banding		S		Dis		TR M						
309	358	Amphibolitic Mafic Flows	DK GY BL GY	M	massive amphibolitic, foliated, minor banding quartz vein band at 336 ft (unmineralized)	S banding streaky veins S fracturing	40° foliation		M S		Dis		TR M						

FOOTICE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION		MINERALIZATION					SAMPLE			
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL CA OTH	From	To	PY	APY	PRH	CPY	OTH	No	From
663	742	Amphibolite	MD GY	M-F	massive amphibolitic textured with few banded intervals increasing from 713ft	S fracturing streaky veining	50° foliation	M M S	Dis								
742	751	Greenstone	GN GY	F-M	dense layered banded with disrupted schlieren structures and distortions	S streaky veining		S S	742								
751	758	Porphyry	PU GY	F-C	several intercalations of porphyritic material (0.2-3ft thick at 752-755ft) in layered-banded unit as above		50° contacts & banding										
758	891	Amphibolitic Lamprophyric Flows and Sheets mainly Metaandesitic	MD GY GN GY BR GY	M	massive amphibolitic to lamprophyric textured units with some diffuse banding plus few strongly banded intervals, fine sulfide mineralization commonly associated with quartz-calcite veinlets and in cracks, quartz-calcite vein 769-771ft (unmineralized) calcitic fracture zone 815-817	common fine fractures M streaky banding and veining	50° foliation	S S	775-778 784-786 794-795 804-805 834-836 848-849 from 850	S M M S S M TR					1 2	775-77 834-836	
891	895	Porphyry	PU GY	F-C	siliceous-porphyritic with subhedral phenocrysts (up to 2-3mm), sharp U. contact undulating l. contact		60° U. contact 45° l. contact										

brown
capsule
min.

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION		MINERALIZATION					SAMPLE			
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	To CORE AXIS	SIL CA OTH	From	To	PY	APY	PRH	CPY	OTH	No	From
1049	1081	Greenstone tuffaceous	GN GY	F-M	dense layered-banded, variably spaced composition at banding and zones, few intercalated siliceous zones (? sediments or porphyries)	S. streaky veining and fracturing		M	M								
1081	1082	Porphyry	Pu GY	F-C	siliceous, sheared		55° contacts										
1082	1101	Greenstone tuffaceous	GN GY	F-M	dense layered banded Unit continuing with grading intervals to amphibio- litic, some schlieren banding	M-S streaky veining		M	M				Dis	TR			
1101	1103	? Lamaporphytic Sheet - typical	BR GR	F-M	massive sheet of mafic composition, flecking structure, sheared brecci- ated contacts, ? chilled margins												
1103	1125	Greenstone	GN GY	F	dense layered banded, streaky and schlieren banding common, amphibolitic zone 1120-1124	M veining			M								
1125	1126	Porphyry	Pu GY	F-C	siliceous porphyritic sharp ? sheared contact		60° contacts						1120	M			

DEPTH		ROCK TYPE	DESCRIPTION			STRUCTURE		ALTERATION			MINERALIZATION					SAMPLE				
From	To		COLOR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE/AXIS	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From	To
26	1174	Greenstone tuffaceous	GN GY	F	dense layered banded, streaky compositional banding and some schlieren structures, mafic porphyroblasts (hbl.?), soft. brittle brecciation zone at 1160. some amphibolitic intervals	S streaky, veining S brecciation	60° banding	M	S		Dis		TR							
74	1176	Porphyry	TU GY	F-C	siliceous porphyritic sheared fractured contact parallel to banding		50-55° contact						TR							
76	1226	Greenstone tuffaceous	GN GY	F	dense layered-banded as above, streaky compositional banding and schlieren structures. Siliceous interval 1200-1201 ft (? sheared porphyry or sediment)	S streaky banding, veining	60-65 banding	M	S											
6	1229	Lampophyre Sheal-type	BR GY	F-M	massive sheet of mafic composition, sheared with brecciation features (lower contact)		65° v. contact				Dis		S					4	1126-1129	
9	1268	Greenstone tuffaceous	GN GY	F-M	dense layered-banded unit with amphibolitic textured interval 1261-1264 ft	S fracturing brecciation, streaky veining	65-70° banding	S	S		Occ		TR							
	1268	end of hole									1245 1255		TR			red carb.				

PORCUPINE BALMORAL RESOURCES LTD.

Drill Summary Sheet

Hole Number: 2	Coordinates: BL 1+00E
Property Name/No: BALMORAL PORCUPINE	Claim Number: 814129
Azimuth: 340°	Dip: -80°
Length: 1232 FEET	Elevation: -
Date Started: AUG 11, 1987	Date Completed: AUG 19, 1987
Logged By: HANS FOHSE	Date: OCT 9, 1987
Casing (in or out), (water) IN	Core Location: CORE LIBRARY
Drill Company: GROLEAU	Date Samples Shipped:

NTS

	Depth (m)	Acid Dip Tests Corrected Reading (deg)
1)		
2)		
3)		
4)		

Purpose:

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Conclusions:

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Recommendations

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FACE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION	MINERALIZATION					SAMPLE				
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL CA OTH	From	To	PY	APY	PRH	CPY	OTH	No	From
126	126	Casings															
126	169	Overburden Mafic Tufts	GN BL	F	layered, compositional banding and zoning, streaky distorted str. with microbrecciation quartz vein (1-2 cm)	S stringers S veining	35° banding	S S	DIS		TR						
169	171	Siliceous Sheet	PN GY	F													
171	184	Mafic Flows	DK GY	F-M	interbanded to foliated more or less amphibolitic textured	M streaks	40-35° Contacts	M	Dis		TR						
184	254	Mafic Tufts	GN BL To DK GN GY	F-M	layered-banded units w. abundant calcified convoids or schlieren structures, angular fragments in pinch and swell structures, calcite streaks and banding parallel to compositional banding; ? flow-type microbrecciation also diffused calcitization zones	S stringers and veins M fracturing	20-45° banding distortions	S AB	Dis		TR						
254	267	Amphibolitic Lava Flows	GN GY OL GY BR GY	M	partly amphibolitic textured lava-type units, weakly foliated with sharp undulating contact to above unit	S veining	35-40° banding	S									
							45° contact // banding- foliation		257 fracture		S						

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION		MINERALIZATION					SAMPLE						
From	To	Continuing	COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From	
	267				banded intervals increasing towards bottom															
267	308	Mafic Tuffs minor flows	DK-MD GN GY	F-H	layered banded, streaky to distorted compositional banding and zoning, from 276-300ft amphibolitic lava-type intervals, from 302 strong compos. banding, some calcitic vein stringers	stringers banding // vein int. Fracture from 270ft w. increasing brecciation breccia bands 300-302ft	40° banding	S	S	AB earthly talc. ? Sprinkled carb.			Dis							
308	332	Amphibolitic Mafic Flows	BL GY	M-C	amphibolitic - foliated with few interbandings (fractured core)	R veinlets S fracturing		S					Dis veinlets							
332	344	Greenstone tuffaceous	Color Change MD GY GN GY	F	2 compositional change mafic → intermodal (more siliceous and/or silification) layered-banded, streaky to distorted compositional contrast banding	AB veins and streaks R fracturing	50° banding	S	AB				Dis							
344	346	Felsic Sheal	BR GY	F	siliceous intercalation sheared															
346	364	Greenstone tuffaceous intermixed with flows	GU GY	F	mixed amphibolitic with layered-banded units prominent schlieren zones and convolute interbanding (360-362 ft)	S veinlets	40° banding		S				Dis							

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION	MINERALIZATION					SAMPLE				
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	TO CORE AXIS	SIL CA OTH	From	To	PY	APY	PRH	CPY	OTH	No	From	
364	418	Amphibolite	GN GY	M-F	amphibolitic textured, massive with few interbanded zones partly with schlieren structures (400-408 ft), BR-GR M-F gneiss sheet (amphiphyrid?) w. banded grading contacts	S streaks and veining qu-calcite vein (4cm) 411 ft → 60°	M S										
418	443	Amphibolite Flows and Tuffs	DK GY GN GY	F	amphibolitic, frequent interbanded zones with Schlieren and convolute banding (420, 432, 433-443 ft)	S streaks qu-calcite zone (5cm) 419 ft	S S					418 (outside vein)		M			
443	490	Amphibolite	HD GY GN GY	M-F	predominantly massive; amphibolitic w. few interbanded zones partly amphibolite, beside abundant biotite, hb. streaky distorted banding 466-473 ft	M streaks and veining throughout	40-500 banding	M M				Dis in low veinlets → S		TR			
490	555	Amphibolite Flows and Tuffs intermixed	HD GY GN GY	F-M	amphibolitic with increasing banded intervals (compositional banding plus veining) dominant from 508-532 ft with schlieren and streaky distorted banding, becoming less interbanded from 532 ft	veining banding S brecciation and fractures	400 banding	S S				Dis few quartz-calcite bands and veinlets → S		TR		TR	

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE		ALTERATION		MINERALIZATION					SAMPLE		
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE/AXIS	SIL CA OTH	From	To	PY	APY	PRH	CPY	OTH	No	From
555	568	Greenstone tuffaceous	GN GY	F	layered-banded, compositional banding with many silification zones, quartz-calcite bands, streaks and veins, few compositional schlieren structures	stringers veining banding	40° banding	S S AB	Dis		TR						
568	628	Amphibolite Greenstone intermixed	MD GY GN GY	F-H	mixed amphibolitic layered	M veining S brecciation	40° banding	S M S	Dis		TR						
628	738	Amphibolite Flows with tuffaceous intervals	MD GY GN GY BR SI	M-F	massive amphibolitic, foliated with few layered intervals and schlieren banding, brittle brecciation structures 660-664 ft (poorly breccia zone at 663 ft), brownish sheet 636-639 ft, calcified zones 714-721 ft plus intervals with some calcite veining and fine brecciation, also some flecking (calcite blebs and porphyroblastic growth)	M veining and banding S brecciation and streaks		M M	Dis fine calcitic fractures		TR	S					
738	764	Greenstone	GN GR	F	layered-banded with fine-grained amphibolitic intervals, some Schlieren banding	S streaks M veining	50° banding	S M	Dis		TR						

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION		MINERALIZATION					SAMPLE				
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE/AXIS	SIL CA OTH	From	To	PY	APY	PRH	CPY	OTH	No	From	
	764				fracture zone 740-743 // with quartz and/or calcite cemented breccia bands and streaks.	brecciation streaks		S S										
764	812	Amphibolite Flows with tuffaceous intervals	DK-MD GY To GN GY	M-F	amphibolitic with banded zones of fine grain size.	S brecciation M veining and streaky banding	50° banding	S M	Dis	TR								
812	831	Torphyry	PU GY TO L GY	F-C	massive porphyritic, white subhedral phenocrysts upto 2.5 mm, majorita ≤ 1 mm siliceous flow structures or shearing, silicification (zones and veins)	veining fracturing	60° banding 75° u. contact	AB		TR AB						3	778.5-	
831	868	Greenstone tuffaceous with intervals of Amphibolite	GN GY	F-M	layered with intervals of stronger interbanding, fine to broad compositional banding increasingly alternating with amphibol- itic textured zones	banding S veining and fracturing	60° banding	S S		S						4	829-5-	
868	891	? Metaandesite Flows with tuffaceous intervals	GN GY MD GY	M-F	massive, weakly foliated "semi-amphibolitic" (inter- mediate metavolcanic) with some dense banded intervals	fracturing M veining	50-55°	S S	Dis	TR						5	831.5-	

red
TR specks
? carb.in qz-calc
fractures829-831
(fractures)

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE		ALTERATION			MINERALIZATION					SAMPLE			
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From
1102	1103	? Porphyry	Pu G'	F-C	siliceous, relic porphyritic sheared contact parallel banding														
1103	1126	Greenstone tuffaceous	GN G'	F	dense layered-banded, bounding structures, and slickensides,	common vein bands S fractures	55-65° banding	S	S		Dis		TR						
1126	1127	? Porphyry	Pu G'	F-C	siliceous sheet, sheared														
1127	1137	Greenstone with ? Lamprophyre	GN G' OL BR	F F-M	dense layered-banded with "lamprophyric" sheet intercalation 1129-1131 ft, sheared/brecciated contacts, ? chilled masses, spherulitic alteration texture	common banding (veins)	50-55° banding	S	M		1135 fine quartz sheet no mineralization with lamprophyric sheet		S						
1137	1138	? Porphyry	Pu G'	F-C	siliceous, relic porphyritic		50° contacts												
1138	1139	Greenstone	GN G'	F	dense layered-banded														
1139	1140	? Porphyry	Pu G'	F-C	siliceous														
1140	1145	Greenstone	GN G'	F	dense layered-banded, siliceous schlieren-breccia structure 1144 ft	common banding (veins)		S	S		1144		S					7	1143-11
1145	1149	? Lamprophyre	BR G'	M	massive sheet of mafic composition, sheared/brec- ciated contacts subparallel to banding, rounded ? poorly deformed epigneissose xenoliths 1149 ft.						Dis		S					8	1145-11

PORCUPINE BALMORAL RESOURCES LTD.

Drill Summary Sheet

Hole Number: 3	Coordinates: 200, 1+00N
Property Name/No: BALMORAL PORCUPINE	Claim Number: 814128
Azimuth: 0°	Dip: -45°
Length: 405 FEET	Elevation: -
Date Started: SEPT 10, 1987	Date Completed: SEPT 13, 1987
Logged By: HANS FOHSE	Date: OCT 10, 1987
Casing (in or out), (water) IN	Core Location: CORE LIBRARY
Drill Company: GROLEAU	Date Samples Shipped:

NTS

Acid Dip Tests

	Depth (m)	Corrected Reading (deg)
1)		
2)		
3)		
4)		

Purpose:

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Conclusions:

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Recommendations

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FOUNCE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION	MINERALIZATION					SAMPLE							
From	To		COLOR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXES	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From	
156	203	Over. bwdn Amphibolite (mafic flows)	DK GY	M-C	massive, amphibolitic textured foliated, w. banded intervals 174-175 (sharp upper contact, grading lower contact), main dk minerals: biot, hbl. minor sulfides on calcitic fractures - veinlets brecciated contact 203 ft	R. streaks R. banding R. fracturing w. veinlets	55-60° foliation sub to banding	H	M				Dis	TR						
203	265	Greenstone tuffaceous with minor Flows	MD GN GY	F	layered-banded with massive intervals (amphibolitic), layered siliceous sheet 210-212 ft (L. VIOL. GY) calcitic veining and streaky zones more abundant from 230 ft small breccia zone 245 ft dk. coarser amphibolitic intervals in transitional zone 257-265 ft	M. streaks R veinlets M veining S streaks	40-50° banding	M	M		203-205		AB		AB				1	202, 5-2
265	300	Amphibolite (mafic flows)	DK GY	M	massive, amphibolitic-foliated, few banding intervals	R streaks R veinlets w. fracturing	50° banding foliation	H	TR		223-226		M							
								S	M		235									- red sparks carb.
											256		S		S					
											260		TR							
											Occ		TR							

FOUNCE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION		MINERALIZATION					SAMPLE						
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	To	Core Axis	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From
300	314	Breccia zone			2 main zones: 301-303ft coarse fragments, silica and calcite cemented, calcite halo, 313-314 vein breccia and associated fractures-veinlets broken core in between	breccia vein breccia veinlets			S	S										
314	387	Amphibolite	DK-HD GN GY	M-F	massive amphibolitic textured, slight change DK- HD colors; weakly foliated, brecciation 364'-368ft (broken core) layered interval 381-382ft	R streaks R fracturing w. veinlets	50° foliation	M	TR	TR	306 (veinlets)		M							
387	405	Greenstone tuffaceous minw flows	GN GY	F	layered-banded with some massive (amphibolitic) intervals breccia zone 387-389ft	M banding R streaks R fracturing w. veinlets	55° banding	M	TR	M	380 (veinlets)									
	405	end of hole																		

no visible mineraliz.

PORCUPINE BALMORAL RESOURCES LTD.

Drill Summary Sheet

Hole Number: 4	Coordinates: 200, 2 + 00N
Property Name/No: BALMORAL PORCUPINE	Claim Number: 814128
Azimuth: 0°	Dip: -45°
Length: 505 FEET	Elevation: -
Date Started: SEPT 14, 1987	Date Completed: SEPT 17, 1987
Logged By: HANS FOHSE	Date: OCT 13, 1987
Casing (In or out),(water) IN	Core Location: CORE LIBRARY
Drill Company: GROLEAU	Date Samples Shipped:

NTS

	Depth (m)	Acid Dip Tests Corrected Reading (deg)
1)		
2)		
3)		
4)		

Purpose:

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Conclusions:

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Recommendations

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FOOTAGE		ROCK TYPE	DESCRIPTION		STRUCTURE	ALTERATION	MINERALIZATION					SAMPLE #							
From	To		COLOUR	GRAIN S	TEXTURE, MINERALS	STRUCTURE	TO CORE AXES	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From
	151	Casing																	
151	207	Mixed Tuffs and Flows	DKGY To GNGY BRGY	F-M	amphibolitic w. common intervals of banding, DK massive dense zones of mafic fels 164-165 ft, 176 ft (rich in biot.)	streaks Schlieren S. veining S. fracturing	50-50° banding // foliation	S S S	M M S			Dis 165 170 189	TR H S S						
207	211	Porphyry	PUGY	F-C	porphyritic textured (pheno- crysts), sheared contacts														
211	265	Amphibolitic Mafic Flows	GNGY	M	amphibolitic foliated DK zones mafic fels 213 ft, 214 ft, 253 ft ? lamprophyric intrusion w. spherulitic alteration texture 236.5-238 ft	banding streaks M. veining	60-65° banding // foliation	S S	M M			213	S					1	236-238
265	274	Mafic fels?	DKGY	F	hard, dense, rich in biotite, no visible foliation, grading contact with adjacent units														
274	299	Flows with Tuffs inter- mixed	GNGY	F-M	predominantly amphibolitic textured, weakly foliated w. banded intervals 1 cm quartz vein	fine streaks Schlieren M. fracturing	60° banding	S S	M M										
299	302	Felsic Sheets	PUGY	F	felsic intercalations of ? porphyry type (? veitic phenocrysts) several thin sheets up to 1 ft thick very sharp contacts	1 cm qu. vein	55-60° contacts					293			S			2	292-293

FOOTAGE		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION			MINERALIZATION					SAMPLE				
From	To		COLOR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No	From
303	325	Flows minor Tuffs	GN GY	F-M	massive to amphibolitic textured (minor coarser intervals) with some banded zones felsic sheet with vetic phenocrysts 317-318 ft	S. banding M. streaks M. schlieren M. fracturing	60° banding // foliation	S	M	M	305		TR						
325	340	Greenstone tuffaceous minor flows	GN GY	F	layered banded with amphibolitic textured intervals strong fracturing and brecciation 325-332 ft BL ultramafic zones 333 ft, 338 ft	S. banding fractures brecciation		S	S		Occ		TR						
340	441	Amphibolites Mafic Flows minor Tuffs	DK GY TO GN GY	M-C	generally amphibolitic textured, massive, foliated grading from fine grained intervals to medium grained units with some banded zones, porphyroblastic flecking 402-415 ft (? feldspar) lamprophyric vein 422-423 ft w. siliceous halo	S. banding streaky zones veining fractures 370-371 ft, 401-402 plus brecc. veinlets	45-50° banding // foliation	S	M	Carb	352 355 Dis 370 412 Dis 431		S M TR TR TR					3	352-355
441	460	Greenstone tuffaceous	GN GY		layered-banded, common streaky banding and schlieren structures	compositional banding/ bedding streaky veinlets fractures	50-55° banding // foliation 60° banding	S	S		Dis		TR						

2 antifer

PORCUPINE BALMORAL RESOURCES LTD.

Drill Summary Sheet

Hole Number: 5 Coordinates: 400 3+00 N
 Property Name/No: BALMORAL PORCUPINE Claim Number: 814128
 Azimuth: 0° Dip: -45°
 Length: 505 FEET Elevation: -
 Date Started: SEPT 18, 1987 Date Completed: SEPT 21, 1987
 Logged By: ITANS. FOHSE Date: OCT 14, 1987
 Casing (in or out), (water) IN Core Location: CORE LIBRARY
 Drill Company: GROLEAU Date Samples Shipped:

NTS

	Depth (m)	Acid Dip Tests	Corrected Reading (deg)
1)			
2)			
3)			
4)			

Purpose:

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Conclusions:

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Recommendations

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FOOTWALL		ROCK TYPE	DESCRIPTION			STRUCTURE	ALTERATION	MINERALIZATION					SAMPLE						
From	To		COLOUR	GRAINS	TEXTURE, MINERALS			To Core Axis	SIL	CA	OTH	From	To	PY	APY	PRH	CPY	OTH	No
0	126	Overburden																	
26	129	Garnet Tels?	DK GY	F	massive, very hard, structureless (no visible foliation), rich in biot and fine garnet.								Dis	M					
129	195	Amphibolite	GN GY	M	massive amphibolitic textured, weakly foliated only (masked by random growth of porphyroblasts)	M streaks M banding R fracturing w. veinlets	50-60° banding ~ foliation	M	TR ↑ M		139 140 (thin vein)	M S		M S					
195	207	Greenstone tuffaceous	GN GY	F	layered-banded, w. some fine grained amphibolitic intervals, weakly foliated	S banding M fine streaks R fracturing	60° banding 55° foliation	M	TR ^ M		202 206	S M							
207	212	Felsic Sheet ? Porphyry	BR GY TU GY		siliceous rock type porphyritic (rel. phenocrysts) at bottom, sharp contacts														
212	325	Greenstone tuffaceous w. minor flux	GN GY minor BR GY	F-M	layered-banded with some alternating fine-grained amphibolitic intervals, 229 - 232 ft also BR GR sheet-type medium grained intercalation (f. lam. porphyritic), fine grained BR sheet with spheralitic alteration 271-272 ft siliceous (? porphyritic) interval 295 ft. more amphibolitic textured units 295-309 ft.	M banding and streaks from 235 ft S streaky veining and banding M fracturing increasing 290-291 ft R streaks and banding	60° banding 65° banding	M	TR ↓ M ↓ S R		227.5-228.5 CDK banded contact zone to volcanic sheet 246 Occ	S M TR					1	227.5-2	

FOURICE		ROCK TYPE	DESCRIPTION			STRUCTURE		ALTERATION		MINERALIZATION					SAMPLE		
From	To		COLOUR	GRAINS	TEXTURE, MINERALS	STRUCTURE	TO CORE AXIS	SIL CA OTH	From	To	PY	APY	PRH	CPY	OTH	No	From
	325	(continued)				fracture zone w. brecc. 298-300ft				Oc	TR						
	325				layered-banded zone 309-325 ft with streaky zoning and banding, hard mafic zone intervening 315-321 ft with fracturing and brecciation	S to AB stringer banding veining fracturing	60-65° banding	S	S	316-317	M						
325	329	Felsic Shal & Porphyry	Pu GY	F	siliceous, porphyritic interval (relic phenocrysts) sharp banded contacts (? sheared & chilled)		65° contact										2 324-325
329	341	Greenstone			layered-banded, compositional banding w. schlieren zones streaky veining and vein banding	S veining M fracturing	65° banding	M	M	329-332	S						3 329-335
341	343	Porphyry	Pu GY	F-C	siliceous porphyritic textured sharp contacts more (lower) or less (upper) parallel to banding		70° contact										
343	345		BR GY	F-M	intercalated sheet with M grained core and F grained banded margins grading into unit below												
345	430	Greenstone	GU GY	F	layered with compositional streaky zoning and banding, distortions, schlieren structures	S stringers and veining S fracturing	65-75° banding	S	S	Dis	TR						
										376,5-378	S	2S (varnished py)					4 376-378

SLL

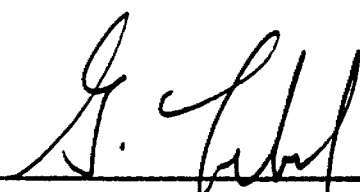
SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX: (705) 642-3300
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 68865Date: Nov. 12, 1987Received Nov. 2, 1987 22 Samples of Split CoreSubmitted by Porcupine-Balmoral, Kirkland, Quebec.c/o W. Holmstead

SAMPLE NO.	GOLD . PPB
1-1	Nil
1-2	Nil
1-3	30/20
1-4	Nil
2-1	10
2-2	Nil
2-3	20
2-4	Nil
2-5	Nil
2-6	20
2-7	10
2-8	Nil
3-1	Nil
4-1	10
4-2	Nil
4-3	10
4-4	10
5-1	30/20
5-2	10
5-4A	Nil
5-4B	Nil
5-5	Nil

Per 
G. Lebel - Manager /ns

ESTABLISHED 1928





Name and Postal Address of Recorded Holder
PORCUPINE BALMORAL RESOURCES INC T-4791
SUITE 402 - 27 QUEEN ST EAST, TORONTO, ONTARIO MSC 2M6

Summary of Work Performance and Distribution of Credits

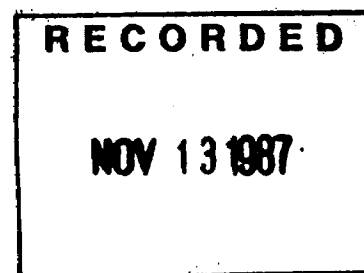
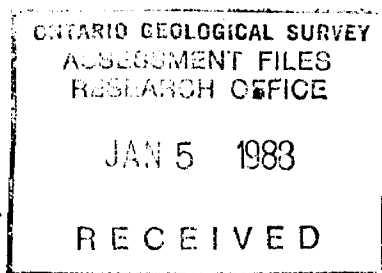
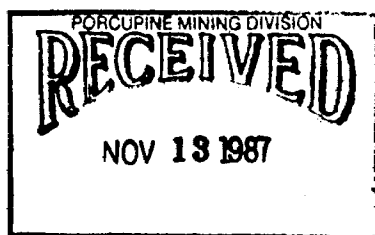
Total Work Days Cr. claimed 3915	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.
	Prefix	Number		Prefix	Number		Prefix	Number	
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey		814128	489						
		814129	492						
		814130	489						
		814131	489						
		814132	489						
		814133	489						
	814134	489							
	814135	489							

All the work was performed on Mining Claim(s): **814129, 814128**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

AUG 10 - SEPT 21, 1987

**DON GROLEAU DIAMOND DRILLING
 KAPUSKASING, ONTARIO**



Date of Report: **NOV 5, 1987**
 Recorded Holder or Agent (Signature): *[Signature]*

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
W. HOLMSTEAD - 116 NIAGARA ST, KIRKLAND QUEBEC.
(514) 696-2321
 Date Certified: **NOV 5, 1987**
 Certified by (Signature): *[Signature]*

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work /operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.			
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		
Land Survey	Name and address of Ontario land surveyer.	Nil	Nil