### MAR 19680005: NORTHEAST ALBERTA

Received date: Dec 31, 1968

Public release date: Jan 01, 1970

### **DISCLAIMER**

By accessing and using the Alberta Energy website to download or otherwise obtain a scanned mineral assessment report, you ("User") agree to be bound by the following terms and conditions:

- a) Each scanned mineral assessment report that is downloaded or otherwise obtained from Alberta Energy is provided "AS IS", with no warranties or representations of any kind whatsoever from Her Majesty the Queen in Right of Alberta, as represented by the Minister of Energy ("Minister"), expressed or implied, including, but not limited to, no warranties or other representations from the Minister, regarding the content, accuracy, reliability, use or results from the use of or the integrity, completeness, quality or legibility of each such scanned mineral assessment report;
- b) To the fullest extent permitted by applicable laws, the Minister hereby expressly disclaims, and is released from, liability and responsibility for all warranties and conditions, expressed or implied, in relation to each scanned mineral assessment report shown or displayed on the Alberta Energy website including but not limited to warranties as to the satisfactory quality of or the fitness of the scanned mineral assessment report for a particular purpose and warranties as to the non-infringement or other non-violation of the proprietary rights held by any third party in respect of the scanned mineral assessment report:
- c) To the fullest extent permitted by applicable law, the Minister, and the Minister's employees and agents, exclude and disclaim liability to the User for losses and damages of whatsoever nature and howsoever arising including, without limitation, any direct, indirect, special, consequential, punitive or incidental damages, loss of use, loss of data, loss caused by a virus, loss of income or profit, claims of third parties, even if Alberta Energy have been advised of the possibility of such damages or losses, arising out of or in connection with the use of the Alberta Energy website, including the accessing or downloading of the scanned mineral assessment report and the use for any purpose of the scanned mineral assessment report so downloaded or retrieved.
- d) User agrees to indemnify and hold harmless the Minister, and the Minister's employees and agents against and from any and all third party claims, losses, liabilities, demands, actions or proceedings related to the downloading, distribution, transmissions, storage, redistribution, reproduction or exploitation of each scanned mineral assessment report obtained by the User from Alberta Energy.



ECONOMIC MINERALS

FLE REPORT No.

U-AF-001(4)

U-AF-002(4)

### McINTYRE PORCUPINE MINES LIMITED

REPORT

<u>ON</u>

NEW SENATOR-ROUYN OPTION

NORTHEAST ALBERTA CONCESSION

September 28, 1968

W. H. Thorpe

MFN#'s: 078240,078244

## McINTYRE PORCUPINE MINES LIMITED NEW SENATOR-ROUYN OPTION

### Summary

A program of prospecting, trenching, line cutting, geological mapping, airborne scintillation surveying and diamond drilling was carried out on this block of ground during 1968.

Work is continuing.

### Property and Location

The 80 square mile concession is located in Northeastern Alberta, 60 miles northwest of Uranium City, Saskatchewan.

Access is by chartered plane. No roads lead to the property.

### Introduction

The property was optioned from New Senator-Rouyn Limited,
Suite 2014, 44 King Street West, Toronto, on April 27th, 1967.

New Senator-Rouyn had previously optioned the property from Astrabrun Mines Limited, Suite 906, 357 Bay Street, Toronto.

### Work Done (1967)

The reader is referred to the report on "Alberta Concessions for 1967," New Senator-Rouyn Limited, by E. A. Hart, M. Sc., P. Eng., dated November 3, 1967, for work carried out in that year.

### Work Done (1968)

Following favourable initial results obtained during the prospecting season of 1967, a major exploration program was undertaken by McIntyre in 1968.

Diamond drilling was started in February at the north end of Cherry Lake, on targets indicated by the 1967 prospecting.

Work was suspended after the completion of six holes totalling

1,886 feet.

Drilling was started again in late August and is still in progress. To date, in this new program, 1,830 feet have been

completed which, together with the previously mentioned work, brings the 1968 total to 3,716 feet.

No ore grade intersections have been located to date.

Drilling is continuing.

In early June, an airborne helicopter scintillation survey was completed over the entire concession. A total of 503 line miles was flown at a line spacing of 1,320 feet and an altitude of 100 feet.

Where greater detail was required, spacings were reduced to 660 feet. This work established 44 radioactive anomalies that required ground checking.

Approximately 20 miles of picket lines were cut, mostly in the Cherry Lake region. These grids served as a control for geological mapping, trenching, sampling, scintillometer surveying and diamond drilling.

Three prospecting crews were active throughout the summer season, working in areas of interest located in 1967 and ground checking the anomalies found during the airborne scintillation survey.

A total of 615 feet of rock trenching, with an average width of 5.0 feet and depth of 3.0 feet, has been completed to date.

Two hundred and twenty-nine samples from surface outcrops and trenches have been assayed.

### Future Work

Further prospecting, trenching, geological mapping and diamond drilling are planned.

for

W. H. Thorne

WHT:sl

TORONTO 1, ONTARIO

SUITE 1200 55 YONGE STREET TELEPHONE 362-4751-TELEX 02-29079

> October, Seventh, 1968.

### McIntyre Porcupine Mines Limited

### New Senator Option

Prospecting Permits, April 1st., 1967 to Sept. 30, 1968.

This is to certify that McIntyre Porcuping Mines Limited expended \$108,690.21 on the above mentioned option, between the dates specified.

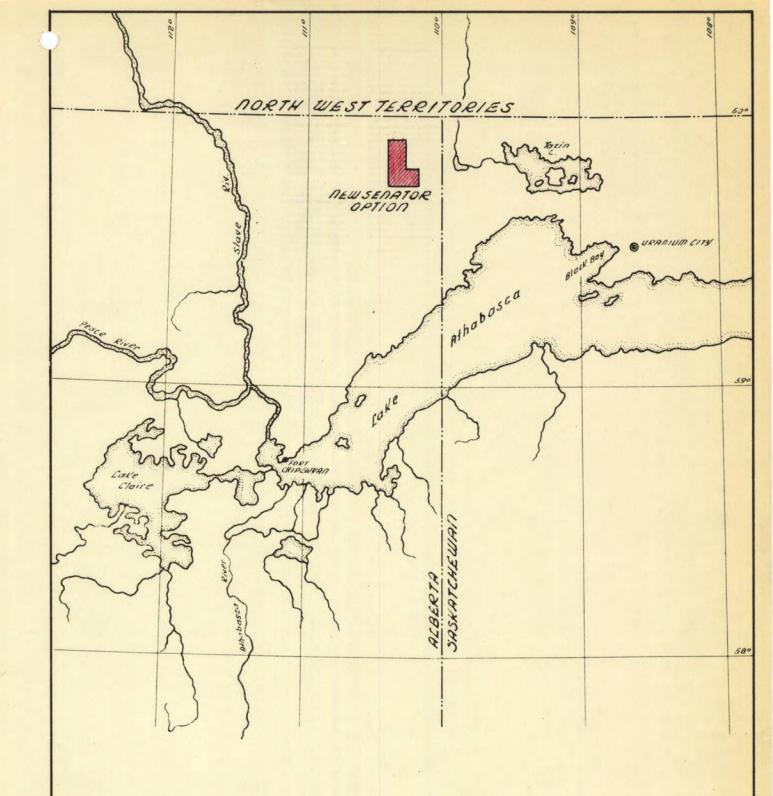
Certified Correct

McINTYRE PORCUPINE MINES LIMITED



O. J. Shore - Treasurer.

OJS/po



M'INTURE PORCUPINE MINES LIMITED

NEW SENATOR OPTION

ANDREW LAKE AREA

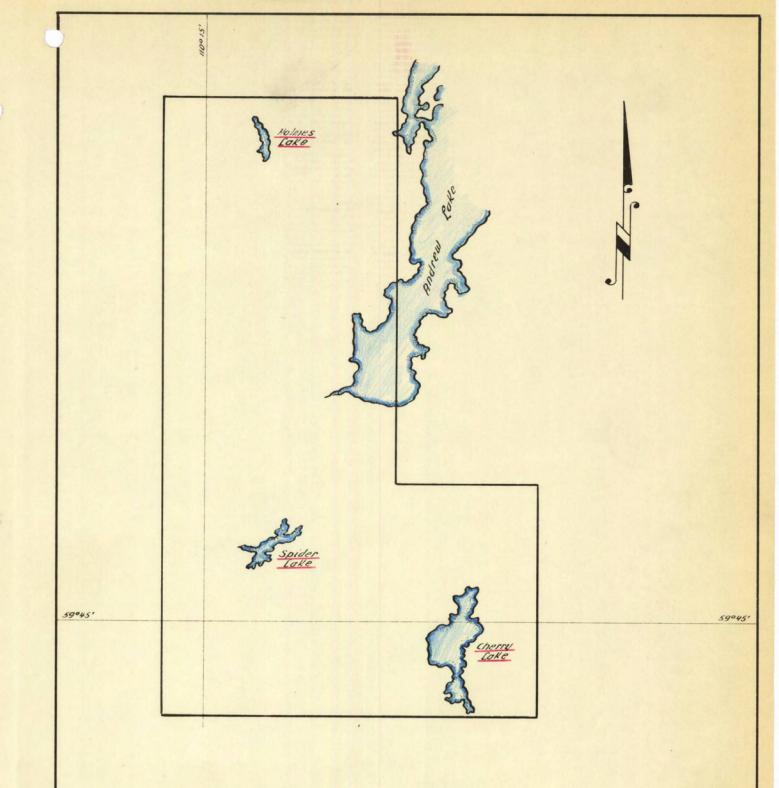
ALBERTA

### LOCATION MAP

SCALE: linch = 25 miles

DATE: October, 1968.

19680005 Mgp #1



### MINTURE PORCUPINE MINES LIMITED NEW SENATOR OPTION ANDREW LAKE AREA ALBERTA

SCALE: linch = 2 miles DATE: October, 1968.

19680005 Mgp #2

r =			
<b>EXPLO</b>	R ANDO	N DEPA	RTMEN

MCINTYRE
PORCUPINE MINES LIMITED

"Ax" Core

Property	New Sea	ator Op	tion	
Location	Cherry.	lake Al	berta	
Claim No.				
Location of	of Core C	erry La	ke	
		Surveys	<b>i</b>	
	Át	Dip	Bearing	g
Suria	SØ	-47°	Exst	
750 %		_46*	Inchesated	Con confilmations

Hole No	NSO-68-1	Sheet	No1	
Length of H	lole 447 feet			
Date Started	February 23rd,	1968 Comp	eleted Feb. 27/6	8
Core Logged	by Gordon His	i <b>d</b>	·	
	February 24th -			
Elevation	Surface	Datus	m	
	Co-ordinat 1 + 0053211	tes of Collar	<u> </u>	
-East	$\Box$			

	From	To	Description of Core	Sample	FOOTAGE		Width	% U3 @		CORE ASSAYS			
		10		No.	From	To		93.4					
	0	7	Casing										
	7.0	12.0	Grey biotite granite gasies, medium grained foliated at about 45° to the line										
			of hole. At 16.0 feet some feldepars become Fe - stained. Numberons frac-										
			tures at any angle to line of hole are present. Some have epidote or pyrophy-										
			littic altertions on the fracture faces.					•					
	12.0	17.0	Granite gueist as above with strongly Fe-stained feldspars.	9501	13.5	14.5	1.0	0.005					
	17.0	38. 0	Augen gaelse, medium grained, grey to pink color.	9502	16.0	17.0	1.0	Tr.		,			
			Most color due to Fe-stain on foldspars. Rock has been brecciated in places	9503	36.2	43.0	1.0	Tr.		·			
	-		and there are numberous fractures filled with epidote (?).					,					
			26.0 - 27.0 Breccia some.										
	38. 0	54.6	Pink granite greiss, foliated about 45° to the line of bale. Some feldspar										
		1-2	augen. Rock is brecciated in places. Some some strongly hematite stained.										
			45. 0 - 47. 0 - Strong bematite staining.										
			48. 0 - 50. 0 Strong bematite staining.										
-	54.6	56.6	Ground core.	- 1									
	54. 6	96.0	Brecciated granite gueles. Some pegmatite material, also brecciated. Most				٠,						
			of feldspar is hematite stained giving rock a dark red celor.										
			67.9 - Pegmatite stringer.										

FYDI	OP A	ION	DEDA	RTA	A FIG
EAPL			NEPA		<b>TERES</b>

Location of Core Surveys Dip

At

## LIMITED

New Service Outlan		MCIN'I'Y
operty. Hew Senator Option		PORCUPINE MINES
ocation	÷	

Bearing

Hole No	NSO-68-1	Sheet No2
Length of I	Hole	
Date Starte	d	Completed
Core Logge	d by	
Date		
Elevation		Datum
	,	es of Collar
North		
E		•

					<del>                                      </del>								
	From To	To	Description of Core	Sample	FOOTAGE		Width	%		CORE ASSAYS			
				No.	From	То		4308	-				
			75. 0 Basic inclusion.										
			80.0 - 96.0 Strongly brecciated in places.										
	96.0	117	Grey to pink granite gaeies with foliation about 45° to the line of hele. Num-	·									
			berous feldspar augen in finer grained ground mass. Some feldspare are								,	,	
			hematite stained. There is a prominent set of fractures at 20° to the line of					,					
			bole.										
	117	119	Granite garies, strongly bematite stained and brecciated - Radio activity	•									
			slightly above background.	9505	117	119.0	2.6	0.053	i i				
-	119	168	Grey to pink granite gueics as before.										
			126.6 - 128.6 Ground core	9506	128.8	129.	8 1.6	0.02					
			135.0 - 135.5 - Pegmatite stringer	·									
			138.6 - 145.4 Fish granite gneits, comewhat brecciated and bematite stained	9507	157. 3	154. 5	1.2	0.01					
	160.0	427	Brecciated granite gasise. Strongly bematite stained. Some pagmatitic	9508	168. 2	169. Z	1.0	Tr.					
			material also brecciated. Brecciation is about 45° to the line of hole, and										
			probably parallel to the line of hole. Some bematite filled fractures occur at										
			20° to parallel to the line of hele. Some somes are stained green - probably										
			by reduction of Fe +3 to Fe +2. Some epidote and chlorite occurs in some	9509	224.4	1							
			strongly breeclated somes. Some small, aclcular tramstitic or	9510	236.8	238.5	2.0	Tr.					<del></del>

*	-	_	_		
	/BI			DEDAD	
E٨	(PL	.UKA	BIUN	DEPAR	MEE
		4			

Location of Core Surveys Dip

At

		MCINTY
	New Senator Option	
roperty		PORCUPINE MINES
ocation		

Bearing

Hole No.	R, 5, U-05-1	Sheet No. 3
Length of Hole		
Date Started		Completed
Core Logged by		
Date		
		Datum
•	Co-ordinates of	_ ·
North		
Fast		

	North East				·····				
•	F00	ГАGE	Width	4		CORE ASSAYS			
	From	То	With	Ŭ3	48	CORE	ASSAIS		
	247. 3	248. 3	2.0	0.01					

	From	To	Description of Core	Sample	FOO'	FOOTAGE		*			CORE ASSAYS					
		20	actinolitic	No.	From	To	Width	U3 Q3								
			aclinalitic amphibole is present.	9511	247. 3	248. 3	2.0	0. 01								
				9512	306. 0	307.5	1.5	MI	1				,			
			345 - 347 Rock is 25-30% epidote, strongly brecciated and annealed with loss	9513	346.0	347.0	1.0	Tr								
	1		of gneissdae texture.									:				
			400 - 412 - More elliceous facies of the breccia, up to 50% quarts. Strongly	9514	382.2	383. 2	1.0	Tr.								
			hematite stained.									-				
	427	447	Augen gaeiss, somewhat sheared but not brecciated good Collation at 45°													
			to the line of hole. Fractures at 15 - 45° to the line of holeone prominent					٠								
			set is about 30° to the line of hole. Some of the lower angler fractures are									•				
			filled with hematite.													
			440 - 445 Strongly hematite stained zone. Epidote common in veinlets and									,				
			fractures. Some green amphiboles are present. Biotite is common in less	·												
			sheared sections. Feldspar porphroblasts occur up to 2 1/2 inches in			·										
			diameter. There are fractured and stained with hematite along fracture plane	<b>3.</b>												
			Minute amounts of vein quartz .													
***												-				
÷.	447.0		End of hole.													
											,					

•			
<b>EXPLOR</b>	ATION	DEPARTMEN	,
			_

M		$\mathbf{T}$	$\mathbf{Y}$	$\mathbf{RE}$
DODCI	TOTALE	MINE	e Ti	MITTED

L /	erry Lake	Rouya Option	PORCUPINE MINES LIMITED	** ·	11010 110	R- <b>68-</b> 2 163 feet	Sheet No.
					Length of Hole.		
Claim No.					Date Started	March lat, 1968	Completed March 2nd
Location of Core					Core Logged by	Gordon Bird	
	Surveys		•		Date	March 2nd, 19	60
At	Dip	Bearing			Elevation	Surface	Datum
Surface	-45*	115*				Co-ordinates of	Collar
	,				North .	00 Horth 65 ft. so	ntheast along line
			"AY" Core		East has	ring 135*	·

Date		
Elevation	Sarisco	Datum
	Co-ordinates	of Collar
North	+ 60 North 65 ft. 1	outheast along line
East	earing 195°	<del></del>
		•

From	To	Description of Core	Sample	FOO'	ГАGE	Width	% #3	A-	CORE A	SSAYS		
 		No.	From	To		63	75					
 9	3	Casing				•						
3	163	Granitic gasies composed of quarte, K-Feldspar, plagioclose, and biotite,										
		with accessory epidote. Some chierite and calcite are present on fracture										
· 		faces. Some small velulets of quartz. There is a good foliation at about \$0°										
		to the line of hale. Three fracture systems are present; one at 45° to the	9517	36. 0	37. 5	1.5	Tr	-\$4	0-0006			
		line of hole, and two conjugate fracture each about 30° to the line of hole	7516	46. 0	47. 5	1.5	Tr.	To.	9-005	,		
		ese extention fractures with little or no alteration on fracture face, other is	hear fra	cture								
		system with calcite, chlorite and clickensides present on or in the fracture.	9515	50.4	52. 6	2.0	Tr.	Tr.	0.009	,		
		There are a few fractures subparallel to hihe line of hole. Chlorite is also	9518	89.0	90.5	1.0	Tr.	Ter	0-009			
 *		common on the fracture faces at 45° to the line of hole. Very weak radio	9519	120.6	121.5	1.5	Tr.	To-	0.006			
 		activity is associated with some of the 30° shear fractures. Rock color	9520	100.0	101.0	1.0	Tr.	To.	0.609			
		varies from grey to pisk with most of the pisk color being associated with	1521	102.0	103.0	1.0	0.005	0.005	0.001	:		-
		hematite staining of the feldspars.	9522	135. 5	136.5	1.0	Tr.	Tr.	0.007			
		·	9523	143.2	144. 2	1.0	0.006	0.00	60-01			·
 ,		15.5 - 20.0 Dark grey biotito rich section .										
		31.6 - 76.0 Pink granite gasies with higher proportion of red stained felds-										
		yar.	1.									
		100.0 - 110.0 Dark grey hiotite rich augen gaeies, possibly semewhat shear	S.								×	

FŶD	IOR	TION	DFDA	RTME
LAP	FOL			

### MCINTYRE PORCUEINE MINES LIMITED

Location		
Claim No.		
Location of Core		
	Surveys	
At:	Dip	Bearing

Hole No. NSR-68-2	Sheet No. 2
Length of Hole	
	Completed
Core Logged by	
•	
Elevation	Datum
	ites of Collar
North	
East	•

				East					·			.,
From	To	Description of Core	Sample No.	FOOTAGE		Width	%		CORE	CORE ASSAYS		
riom.	10	Description of Core	No.	From	То	With	Uз	υg				
		ed.										
		END OF HOLE										
											·	
, , ,						·						
					٠				t	;		
				ŧ		•	•					
r s												
			,		,	•	***	•	*			
	2						۲		•			
							T.	,				
							*		4			
			,	١.		,						,
	,			. "	<b>●</b> 1		Ä	п				
				,	,	,	٠,	n			. ,	
					4							
	,				,							
		,										

<b>EXPLO</b>	ATION DEPARTMEN	J
Property	New Seaster Reuya Option	

Location Cherry Lake Alberta

Surveys

Dip

-45\*

-40\*

Bearing

(uncorrected)

120°

Location of Core

At

Surface

250 ft.

MCINTYRE	
PORCUPINE MINES LIMITED	

Hole No.	NSR-68-3	Sheet No.
Length of Ho	le 457 feet	
Date Started	March 5, 1968	Completed Mar. 8/68
Core Logged 1	y Gerdon Bird	
Date	March 6, 1968	
Elevation	Surface	Datum
North	Co-ordinates of	Collar
North	4 + 18 E	

From	To	Description of Core	Sample	FOOT	<b>FAGE</b>	Width	CORE ASSAYS				
		Description of Colo	No.	From	To	***************************************	U 30		COME ASSAIS		
0	15 Casing							-			
15	29.5	Brecciated granitic gaeiss, dark grey with considerable red hematite stain.									
	_	Are some narrow bands of brecciated pegmatitic material. Brecciation and							,		
		gaelesosity trend about 39° to the line of hole. There are three major frac-									
		ture angles - one set of conjugate fractures at 30° to the line of hole. Third			·						
		type of fractures trend 15° to parallel to the line of hole. Grain size of rock									
		varies from f.g. to c. g.									
29.8	44.0	Biotite granite gueise, medium grained, dark grey with some hematite stain						·			
		on feldspars. Some cearse grained pegmatitic material in brecciated stringers					···				
		39.0 - 44.0 - Br- more intense skon sleewhere.					-				
44.0	104.0	Brecciated biotite granite gazies, fracturing and foliation as above. Amount		,		`	<b></b>				
		of hematite stain and color is variable from dark grey to dark red.	9524	97.5	100.	2.5	0. 02				
		There is some epidote on fracture faces. Some chlorite is present. There are	9525	103. 0	104.	1.0	Tr				
		lenses of coarse grained pegmetitic material.									
		60.0 - 65.0 Brecciated pogmatitic material, hematite stained.								`	
104	127	Sheared pegmatitic material with some remaant gueissic material-most of									
		rock is coarse grained and hematite stained. Some large dark red feldspar									
		porphyroblasts in a finer grained groundmass. Epidote and chlorite are	, "								

EXPLOSATION DEPARTMENT ROPES CONTROL OF THE PROPERTY OF THE PR
--

Surveys

Dip

Bearing

Location of Core

At

MCIN	TY	RE
OODCHIDING	MINIER	TIMITED

Hole No.	NSR-68-3	Sheet No. 2
Length of Hole.	,	
Date Started		Completed
Core Logged by.		······································
Date		·
Elevation	·	Datum
	Co-ordinates	of Collar
North	, 	·
East	·····	

From To Description of Core	To	Description of Core	Sample			Width	%		CORE ASSAYS			
		No.	From	То		U3(	8					
		common and give rock a motted grey-green color. Some of the hematite										
		stained feldspars has altered to a yellow-brown mineral.				~						
127	144	Sheared biotite granite-gneiss, dark grey color, medium grained with some								, ,		
		coarse grained feldspar porphreblasts. Foliation is about 30° to the line of										
		hole. Fractures occur at 30° and parallel to the line of hole. Rock has a										
•		slight reddish color from hematite stain.										
144	155	Sheared biotite granite gueiss as above but with less biotite and lighter color.						-				
		Epidote is present on some fracture faces and in matrix giving rock a green-					<del></del>					+
		ish calor in places.										
153	195.5	Sheared biotite granite gneise as above but with more intense hematite stain	9526	163.0	165. 0	2.0	Tr.					1
		giving rock a reddish color.	-			, ,						
		169.0 - 170.0 Vein quartz (or sheared quartzite) with some red coloration										
***************************************		from hematite.				<del>  ,                                   </del>						
		179.0 - 180.0 As above 169.0 - 170.0										
		182.0-184.0 " " " "			4.1					1		
		184. 0 - 186. 5 Breceiated quartz and pegmatitic material with some chlorite										
		and epidote - coarse grained, light green color.							-			
195.5	197.0	Brecciated Pegmatite.				.,						†

<b>EXPLOR</b> TIO	N DEPARTMENT
Property New Senate	or Rosya Option

Location

Surveys

Dip

Bearing

Claim No.

Location of Core

At

MCINTYRE	
PORCUPINE MINES LIMITED	

		_
DIAMOND		
	DDIII	
DIAMOIL	URILL	
		_

Hole No.	NS 12-68-3	Sheet No. 3
Length of Hole		
Date Started		Completed
Core Logged by	<b>7</b> `	
Date		
Elevation		Datum
	Co-ordinates of	of Collar
North		· 

From	To	Description of Core S	Sample	FOO	<b>FAGE</b>	Width	U <sub>3</sub> 0 <sub>8</sub> CORE		ASSAYS	
			No.	From	To		~ 3	<b>&amp;</b>		
197.0	200.5	troughy altered gaeiss with considerable epidote, vein quarts and tale. Feld-								
		spars are completely altered to light green mineral. Tale like mineral occurs								
	-	in small veinlets - Rock is light green color, fine grained.								
200.5	219.0	Brecciated pogmatite material strongly hematite stained. There is a remnant								
		foliation at 30" to the line of hele in some places.								
219.0	235.0	Biotite granite gaeiss, sheared but not strengly brecciated. Hematite stain in-								
	-	creases toward 235.0 as does the intensity of shearing. 227 - 235 - As above								
		but with numberous epidote or talc filled fractures at angles from 30° to para-								
		liel to line of hole.								
235.0	261.0	Brecciated pagmatitic orial mixed with remnants of gaeiss. Foliation or	9527	257. 0	259.0	2.	) Tr			,
		shearing at about 50								
		ed from presence of large amoun to epidote, chlorite and tale.								
		252 - 253 - Jasper vein - te hematite stained quarts.								
		253 - 255 - Same as 249 - 251.								
261	281	Sheared brecciated granite gneiss - medium grained. Reddish grey colored								
		from hematite stain. Foliation about 30° to the line of bole. Fractures at 30°								
		and parallel to the line of hole. One quarts filled fracture can be traced con-								
		tinuously for 10 - 12 feet. Large feldepar porphroblasts are common and								
<u> </u>	•		l	.1	I .		I	·	L	

# EXPLOR STION DEPARTMENT Property New Senator Rouge Option

Location Claim No.

Surveys

Bearing

Dip

Location of Core

At

MCINTYRE	
PORCUPINE MINES LIMITED	

DIAMOND	DRILL	LEC
---------	-------	-----

Hole No.	N. S. R68-3	Sheet No. 4
Length of Hole	<u>:</u>	·
		Completed
Core Logged by		·
Date	·	
		Datum
	Co-ordinates of	Collar
North	·	<u></u>

	From	To	Description of Core	Sample	FOOTAGE		Width	%	CORE	ASSAYS	
				No.	From	То		U <sub>3</sub> 0	8		·
			several small patches of pegmatite material are present.					,	·		
	:01	268	Brecciated pegmatite material as described previously.		,						
4	88	298. 5	Brecciated granite gaeiss with some pegmatite material - Some hematite								
			stain.	·							
2	98. 5	311.0	Basic dyke - extremely hematite stained making it impossible to identify or-					:			
		<u> </u>	iginal rock type. Dyke is somewhat brecciated in places and strongly fractur-	9528	303. 0	305. 0	2.0	Mi			
			ed. Hematite stain is post fracturing as it follows fractures and is most in-	9528	306. 8	308. 3	1.5	Tr			
	,	,	tense closest to fracture.	-							
3	11	320.0	Brecciated granitic gueiss with some pegmatitic material and large feldspar		7						
			porphreblasts.								
3	20.0	324.6	Brecciated highly altered gaeiss, light green in color from presence of con-	:							
			siderable epidote, tale and chlorite. Some quartz veining.					::			
3	24.6	337. 0	Brecciated pagmatite with some remnant gnelss . Very coarse graded), pink								
			in color from presence of weak hematite stain on some feldspare.								
3	37	371	Augen gasiss, cheared but not brecciated - some large feldspar perphroblasts								
			patches of pegmatite. Foliation about 30° to the line of hole. Compositional								
			banding becomes more distinct with depth. From 250 feet onword there is goo	<b>*</b>							
			segregation of motic and felsic material. Matic material was largely biotite							:	

McIN	<b>ITYRE</b>
DODGLIDING	MINIES TIMES

Property New	Senator	Rouyn	Option	`	·					
Location										
Claim No										
Location of C	ore	<b></b>								
Surveys										

Bearing

Dip

At

PORCUPINE MINES LIMITED									
			-						

Hole No.	N. S. R68-3	Sheet No.
Length of Hole.	·	
Date Started	**************************************	Completed
Core Logged by.	*** <b>**-*</b>	
Date	·	
Elevation		Datum
	Co-ordinates of	Collar
North		
East		

From	To	Description of Core	Sample	FOOTAGE		Width	Width CORE ASSAYS					
From	10	Description of Core	No	From	То	Width	CURE ASSAYS					
		but is now largely chlorite. Hematite staining on the feldspare is common but				,						
•		is not intense. There are some narrow patches of pegmatite material .	•		•							
 71	105	Brecciated pegmatite with marrow bands of gaeles coarse grained, composed										· 
		predominantly of quartzo, enicrocline-perthite and biotite now altered to	•							,		
		chlorite. Weak hematite staining.										
 105	457	Biotite granite gaeles, sheared but not brecciated-medium to coarse grained,					-					
 · 	ļ	dark grey in color. Foliation about 20° to the line of hole.										
		421. 5 - 424 Pegmatite.										
		428 - 433 - Chieronitic gaeiss, light grey to pink, medium grained poorly										
 •		foliated. This rock is similar to some of the pegmatite but is finer grained.						, ]				
	457	End of hole.									<u> </u>	
							•		·			
<del> </del>	· ,											
· · · · · · · · · · · · · · · · · · ·												
						,						
												<del></del>

	<b>EXPLOR</b>	<b>A</b> ION	<b>DEPAR</b>	<b>IMEN</b>
--	---------------	--------------	--------------	-------------

Property	enstor Rougi	o Option
Location Cherr		V
Claim No.	T	
Location of Core	Cherry Lak	<b>*</b>
	Surveys	·
At	Dip	Bearing
Surface	-45*	285*
250 feet	-38*	uncorrected

DIAMOND DRILL LO

Hole No.	Sheet No.
Lengt of Hole	
Date Started March 18th	Completed March 22ad
Core Logged by Gordon Bird	
Date March 19th, 20th, 21st,	22 <b>nd</b>
Elevation Seriace	Datum
Co-ordinates of	Collar
North 20 + 78 North	
East 1 + 75 East	

"Ax" Core

			/TX COVE		•									
1	From	То	Description of Core	Sample No.	FOOTAGE		Width	CORE ASSAYS						
		_	'	140.	From	To		-	HOS 2					
	0	3 Casing												
	3.0	21.5	Pegmatite, light grey to pink color, coarse grained weakly foliated at about		,		ļ							
			45° to the line of hele. Rock is composed of microcline perthite, biotite di	9530	3.0	5.0	2.0	MI	,					
		٠	muscovite or phiogopite but altered to chlorite, and quarts. Weak hematite	9531	9.0	11.0	2.0	NH						
			Stain present in places. Rock may have been weakly sheared.	9532	16. 0	17.0	1.0	NII						
	21.5	75.0	Granitic gaeiss, light to dark grey color, medium grained with some coarse	9533	24.0	25.0	1.0	Tr.						
			grained feldspar porphroblasts.	9534	29.0	30. 0	1.0	Tr.						
			Good segregation of mofic and felsis material, occasional patches of hematite	9535	37.0	38.0	1.0	Tr.						
			stain. Mafic minerals are biotite, phlogopite and chlorite. Some phlogopite	9536	39.6	40.6	1.0	Tr.						
	•		is bematite stained and has metallic luster.	9537	70.5	71.5	1.0	Tr.						
	75. 0	96.0	Quartz, foldspar + biotite + phiogopite pegmatite, coarse grained, light grey											
			to pink color. Some sections of remaint greiss are present. Weakly foliated											
			at 45" - 59" to the line of bole. Fracture systems are at 45" and suleparali-	9538	75.0	76.0	1.0	MI						
			el to the line of hole.	9539	84. 0	86.0	2.0	.016	Tr.					
		- 101	77.0 - 79.0 Strongly altered rock composed of quarts, epidote (?), Talc or		,	,								
			perpentine and altered feldspars, probably sheared.	9540	87. 0	48.9	1.0	Mil						
9	6.0	152.5	Granitic gaeiss - same as 21.5 - 75.0. Some pegmatite bands, some graphic	9541	89.0	91.0	2.0	Tr.	,					
			granite. Are traces of chalcopyrite along foliation planes.	9542	97.6	98.0	1.0	Tr.						

Surveys Dip\_\_\_\_

At

MCINTYRE
PORCUPINE MINES LIMITED

Property New Senator Rouya Option	POF
Location	
Claim No.	
Location of Core	

Bearing

DIAMOND	DRILL		
MSR-48-4	Ch	4 NIa	2

Hole No.	Sheet No.
Length of Hole	
Date Started	Completed
Core Logged by	
Date	
Elevation	Datum
Co-ordinate	es of Collar
North	
East	

	From	To	Description of Core	Sample	FOO	TAGE	Width	\$	%	CORF	ASSAYS		
		10	Description of Core		From	То	Width	<b>U3</b> *	H052	1			·
				9543	104.5	105. 5	1.0	**	Tr.				
			116.0 - 112.8 Brecciated pagesatite	9544	167.0	108. 0	1.0	<b>;**</b> ↑	Tr.	MII			
			129 - 123 Medium grained graphic granite with some vein quarts.	9545		112.8	<u> </u>	*	Tr.				
				9546	9.45	125.0	1.0	•	NII				
			148. 0 - 150. 0 Pegmatite										
Brite	52.5	205.0	Brecciated pagmatite, course grained, pink, composed of quartz, feldspar	9549	158.0	160.0	2.0	MI					
			and biotite completely or partially altered to phlogopute and chlorite. Rock is	weakly									
			foliated about 45° to the line of hole.	9550	160.0	161.5	1.5	F11					
				9551	191.0	192.5	1.5	Tr.				•	
				9552	204.0	205.0	1.0	Tr.					
			170 - 173 Granitic gaeies			,		• .					
			181 - 185 Granitic gaeiss										
			185 - 186. 5 Fault Gouge - selt light green color-composed of quarts, tale or										-
	,		serpentine and muscovite. Direction of shearing 45° to the line of hole.										
	205.0	229.0	Augen Gacies - light grey, almost white in color with some bematite stained						,				
			patches. Ihs been sheared and quarts is strong out along foliation planes										-
			about 45° to the line of hole. There is no district segregation of molic and										
			felsic material. There are traces of pyrrhotite, pyrite and graphite on come										

# EXPLORASON DEPARTMENT New Senator Rouyn Option

Claim No. Location of Core Surveys Dip

At

Bearing

MCIN	1TY	$\mathbf{RE}$
PORCUPINE	MINES I	IMITED

Hole No.	Sheet No. 3
Length of Hole	
Date Started	Completed
Core Logged by	***************************************
Date	
Elevation	Datum
Co-ordina	tes of Collar
North	
East	

From To	To	To Description of Core	Sample			Width	th U302 CORE ASSAYS					
	No.		No.	From	То			Au or.	As			
		foliation planes.				-						
:29	245.5	Biotite rich gaeiss - almost massive - some hematite stained patches and										
		fractures 6 30° to the line of hole.					Tr	N:/	Nil			
45	300	Brecciated Permatite, coarse grained, light grey to pink color, weakly fel-	9553	294.5	296.5	2.0	Tre	sen of	pyrite	, pyrr	botite	
		lated - Some hematite state. Traces of pyrite or pyrrhotite on foliation				,		·				
		planes. Some of feldspars are altered to tale or perpentine. Marrow bands										
		of gasiasic material are present.										
300	356. 5	Brecclated granite guelse with numberous pogmatite sections. Medium to		1.								
		coarse grained, pink color weakly foliated with poorly segregated molic and		1								
		felsic material .										
356. 5	485.0	Grey granite gueles - similar to above except for color-Some feldepare are									÷	
		altered to greenish mineral completely devoid of hematite stain.										
135.0	455.0	Biotice sich gaeiss - similar to 229 - 245, 5 with slightly better foliation and		1.					,	, ,		
		possibly slightlysheared.										
<b>65</b> 5	460	Grey granite gheiss as 356 - 435						1				
	460	End of hole										
												,
4							·				-	

# EXPLORATION DEPARTMENT New Senator Option

Property Cherry Lake, Alberta. Claim No..... Location of Core

> Surveys Dip -45\*

Surface

Bearing 285\*

Hole No. NSR: 68-5	Sheet No.
Length of Hole 163 ft.	·
Date Started March 23 Core Logged by Gordon Bird.	Completed March 24
Date March 24, 1968	
Elevation Surface Co-ordinates	
North 19 + 80	O. COMB.

٠	From		Description of Core	Sample No.			Width	h % CORE ASSAYS					
From To						From To		43 08					
	0	6	Casing										
	0	8	Biotite gueles dark grey, medium grained, poorly foliated, occassional veinle	ts									
		,	of quartz and pegmatite.										
	8	21	Pegmatite with remnants of gaeissic material-all sheared & partially brecciat	ed.				·					
			Foliation about 45° to core axis. Joints about 30° & subparrallel to core axis.			•							
i			1890-19.0 Fault sone, strongly brecciated and altered green color, soft, all				-						
	·		mafic minerals altered to chlorite or talc.	•									
	21	105	Granite gneiss, pink, medium grained to coarse grained with some pegnithte	9554	22.0	27.0	5.0	N'I Sever	al small	radio	active		
	,		stringers-principle mafic mineral is biotite now altered to chlorite & phlogopii	e.				anom	alies in l	precci	ated o	maias	224
: ·			Most of chiour comes from hematite stain. Rock is brecciated in places.						etite-only				
•	:		42-43 Ground Core	9555	72.0	73.5	1.5		ly above				und :
			49. 5-88. 0 Bascciated pegmatite composed of feldspar and chloritized biotite,			100			ctivity is	-			٠
	<i>y</i> *		with very little quartz.	<u> </u>	<u>.</u>				e gneiss		40116	PERIOE	<del>*</del>
	-		58. 0-59. 0 - Fault zone same as 18. 0-19. 0				•		3 8110110				
•													· · · · · · · · · · · · · · · · · · ·
	· · · · · · · · · · · · · · · · · · ·			,									
	,	1											
		. ,		• •		1,				-	,	-: ,	

Property New Seni	-	
Location Cherry	- · · · · · · · · · · · · · · · · · · ·	<u>a</u>
Claim No.		
Location of Core	Surveys	
At	Dip	Bearing
Surface	-45°	285*
,		

Hole No. NSR 68-5	Sheet No. 2
Length of Hole 163 ft.	
Date Started March 23	Completed March 24
Core Logged by Gordon Bird	
Date March 24, 1968	
Elevation Surface	Datum
Co-ordinate	s of Collar
North 19 + 80	
East 1 + 50	***

	From	To	Description of Core	Sample	FOOTAGE		Width			CORE	ASSAYS	•	*
				No.	From	To		,	5 . 5				
	105	111	Brecciated Pegmatite, pink, coarse grained, comprised of quarts, feldspar							·			
· .	-		and biotite.										
	111	114	Biotite gneiss			·							
	114	124	Pegmatite-light grey to pink color, comprised of quartz feldspar & biotite-are									,	
			some narrow sections of graphic granite									٠.	
· ·	124	138	Biotite gneiss-light grey to dark grey color, medium grained, weakly foliated			•							· · · · <del>-</del>
			with very little segregation of maile & felsic material-foliation about 20° to							-			÷
			core axis fractures 30° and subparrallel			, ;					12 A		
	138	150.6	Granite gaeiss, pink - as 21-105										
	150.6	158.0	Biotite gneiss-sheared and well foliated, fine grained dark grey - does not	•									•
/			resemble other biotite gneiss.		,					i.			
	158	163	Granite gasies, pink as 21-105			-				•		t	
		163	End of Hole			·				;	٠.		· ·
						•,							
		,				•						t	
					,	•	•						
		,						1					
	,												

Property S	enator Opti	
Location Cherr	y Lako, All	acrta
Claim No.	Cherry	Lake
	Surveys	•
At	Dip	Bearing
owner.	-45	105

### **MCINTYRE**

PORCUPINE MINES LIMITED

## DIAMOND DRILL LO

Hole No.	N5K-05-6	Sheet No.
Length of Ho		
Date Started	March 28th, 1968	Completed March 29th
Core Logged b	y Cordon Bird	
Date	March 30th, 1968	,
Elevation	Surface	Datum
	Co-ordinates of C	Collar
NOTA .	2 + 63 South	
Fact	11 + 41 2ast	

"AX" Core"

F	rom	To	To Description of Core	Sample	FOOTAGE		Width	<b>%</b>		CORE ASSAYS		
			25551-25501	No. From To			u 13 0 8					
	0	11	Casing								-	
	6	125	Brocciated gaeles, extremely brecciated and hemetite stained, dark red	9556	12.0	13.5	1.5	Tr.				
			color with some green section where spidote and/or chlorite are abundant.	9557	66. 7	68. 7	2.0	Tr.				
			Most of rock is timele medium grained but some coarse grained foldspar por-									
			phroblasts are present. Foliation is about 45° to the end of hole. There is						·			
			some compositioned banding.					,				
			51.0 - 52.5 Green rock composed of quarts, chlorite-probably after amphibol	<b>3</b> ,							-	
			and feldspar altered to epidote - nearly massive.									
			72.0 - 74.5 - Sheared Basic rock - may have been a basic dyke. Now extrem	<b>a</b> .								
	`		ely altered and foliated - geneele uncertain.	,					·			
			95 - 105 Brecciated pegmatite - composed of feldspar, muscovite or phiogopit	e,	-		-				-	
			quarts. Course grained and homatite stained.									
12	5	142.5	Brecciated gasies as before but with less hematite stain.									
			124. 5 - 126. 5 - Possibly a sheared basic dyke as 72. 0 - 74. 5.							-		
			142.5 - 145.9 - Same as 124.5 - 126.5.									
14	5. 5	159.0	Brecciated pegmatite - pink, coarse grained. Some dark red patches of hem-	,								
			atite stain.		·							
1:	9.0	164. 5	Brecciated gaises - dark grey to black with strongly hematite stained felds-		-			,				

v _			
<b>EXPLOR</b>	STION	<b>DEPARTM</b>	

MCIN	1T2	RE
PORCUPINE	MINES	LIMITED

<b>T</b>	-	) <b>(3</b>
Claim No.		
	Surveys	
At	Dip	Bearing

Hole No.	NSR-68-6	Sheet No. Z
Length of Hole		
Date Started		Completed
Core Logged by		
Date		
Elevation		Datum
	Co-ordinates of	Collar
North		···
East		

Fre	m To	Description of Core	Sample	FOOTAGE		Width	CORE ASSAYS					
		Description of core	No.	From	To	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			COLLE .	.100.110		
		pars - fine to medium grained with some coarse grained feldopar porphrobla:	**				٠.					
		Some vein quarte.										
164	. 5 167. 5											
		Epidote or soisite fills open fractures.										
167	. 5 171.0	Bietite gaeiss - fine grained, poorly foliated, dark grey.										
17	. 0 184. 0											
		porphoblasts in foliation. Poliation about 45° to the line of hele - one major							-		,	
		set of fractures is present at about 15° to the line of hole.									·	
184	195	Biotite gasies - dark grey, medium to fine grained, well foliated, some bre-	6									
		cciated spots. Ptygmatic banded pegmatite veinlet, present between 188-189-										
		Sub parallel to the line of hole.										· .
		189. 0 - 199. 5 Brecciated pegmatite with zeneliths of gneissic material. Some							, '			
		small pyrite cubes are present in polistion.										
195	196	Pink pogmatite.										
	196	End of Hole.					·		·			
				-			-					
		·										
												<del></del>

<b>EXPLO</b>		MOIT	DEP	AR	TM	NT.
Property	New	Senator	Option			

MCINTYRE	
PORCUPINE MINES LIMITED	

DIAMOND D	RILL	
-----------	------	--

1 No		
ion of Core		·
	Surveys	
At	Dip	Bearing
Collar	- 44°	045° (N45° E
250'	- 46°	
5-00'	- 50°	

Hole No.			
Length of Hole	5-26 +	lect	
Date Started 3	30 Hug/j	968 Completed 3 Sep 1968	
Core Logged by	G. W.	Woollett	
Date 3	Sep 196	68	
Elevation Sc	irface	Datum	
	/ Co-ord	dinates of Collar	
North	0 + 80	<b>\(\)</b>	
<del>Dast -</del>	8 + 20	<u> </u>	

"Ax" Core

From	To	Description of Core	Sample	FOOTAGE		Width	CORE ASSAYS					
			No.	From	То							
0	6	Casing	•				. •					
6	39	Granite-Pink to brick red, dk green, med grained. Locally cataclastic. 20% q	.s.									
		60-70% feldspars, 10-15% hornblende &/or chlorite. Local patches of coarse										
		pink potash felds which has been broken and crushed. Local foliation 50° @ 8',										
		60° @ 21', centact with following is gradational.		· .				,				
 39	50. 5	Cataclastic/Crush Zone-Black, pink, coarse grained broken K-feldspar up to	2#			· ·					·	
		Ø in groundmass of chlorite. Contact zone of preceding granite.			-							
 50. 5	154	Migmatite-med to dk gray-gry, piak mimor wht & brk red. Foliated, many ba	ads			,						
		of med to coarse grained granitic material, often cataclastic in textures inter	banded									
		with a fine grained qtzfelds-chlorite schist, and local bands milk wht qtz					÷.			·		
		(79. 75-80. 5). Brecciated, healed by chlorite & a dk brown qtz. VerY minor p	yrite.	3.								
		Angle of foliation to core - 50° @ 65', 45° @ 86', 60° @ 104', 25° @ 133', 55°	@144',		i					, ,	•	
154	181. 5	Cataclastic Gneiss-lt gry, wht, dk grn. Much as (50. 5-154) but no echiet										
		sections and much imilky wht to it gry, qtz. Locally broken & crushed (164.5	-4 <sup>m</sup> )									
												<del>,</del>
			1.						,			-

`.			
PYDI OP	<b>S</b> TION	DEPARTA	MENED.
		PERMIT	VIEL T

Property	New	Senator	Rougn	Option
Location			/	
		Surveys		
	At	Dip	Bearing	

## PORCUPINE MINES LIMITED

Hole No.	68-7 Sheet No.
Length of Hole	
Date Started	Completed
Core Logged by	
	·
Elevation	
	Co-ordinates of Collar
North	
Fast	

From	m-	To Description of Core	Sample	FOOT	ГАGE	Width	CORE ASSAYS					
From 10	10		No.	From	To	Wiath						
		It gry, qtz, minor chlorite slightly rad. act. contacts S					·					
		(179. 5-181. 5) Brecciated and healed with chlorite.										
181.5		Fault - 1" plastic chloritic gouge @ 45° to core.										
181.5	184	Chiorite Alt Zone-Dk grn, minor wht. strong chlorite zone with local brecciat	ed.									
		fragments of white qtz. V. minor blebs of molyb. on slip planes. Not rad. act	•			,			•			
184	239	Cataclastic & Avgen Gneise with Miner Chlorite Schist-Med to dk gry, -grn,				,						
		Locally schistose. Bands of it gry to wht cataclastic (tankedsida) (pegmatite)										
		with local augens. qtz & felds.										
		(190. 5 - 191. 5) Ground core										
	,	Angles of foliation to core										
		40° @ 88', 15° @ 190', 20° @ 195', 35° @ 209', 40° @ 202',										
		(220-225) (254-255) (275-276) wht cataclastic pegmatite qtz felds. Not rad act.										
		45° @ 217', 45° @ 260', 0-10° @ 266', 25° @ 277', 45° @ 321', 60° @ 348',										
239	526	Biotite Schist-Bik, dk green, local wht, schistose. 50-60% biotite &/or chlor	ite,					,				
		40-50% qtz felds as local coarse grained and cataclastic, bands. Local pyrite		•								_
		on fractures									•	
		. a										
			<u> </u>				1					_

ZVDIAD		EPARTME
EAPLUR	ariun di	EPARIME

MCINTYRE PORCUEINE MINES LIMITED

Property Alen Location	) — Ox Raior	120492	
Claim No.			
		-	
	Surveys		
At	Dip Bearing		

Hole No. 68-7	Sheet No.
•	
Date Started	Completed
Core Logged by	
	Datum
	rdinates of Collar
North	
Fast	`

From To		To Description of Core		FOOTAGE		Width				
rrom	10	Description of Core	Sample No.	From	From To		CORE ASSAYS			
		(297-303) Much sericite & local It. green patches & knots of feldspar?								
		(303-311) Fine to med grained it. gry granite. Slightly foliation @ 65°. Local								
		pyrite on fractures. Latter contact sharp § 40°.								
	_	(349-352) As (303-311) foliated € 60°.								
		(381-457) Local lt grn, feldspar? In Knots & patches.								
		(487-495) As (381-457) Angle of foliation to core - 45° @ 394', 50° @ 443', 50	· @ 521'							
	526	End of Hole.								
		·			,					
·										
						:				
	<del> </del>	W-7. 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
ı		$\cdot$		f						

	EXPLORATION DEPARTMENT								
* * · <u>·</u>	Property New Location Twi	Senator	Roug	n Opti	m				
	Location Twi	n Lakes	Ared	NIE.	Alberta				
	Claim No.		, 	' 					
	Location of Com	Δ							

## MCINTYRE PORCUPINE MINES LIMITED

DIAMOND	DRILL	L
---------	-------	---

Hole No. 68-8	Sheet No/
Length of Hole 525 fee	t Sheet 140.
Date Started 5 Sep /196	S Completed 9 Sep 1968
Core Logged by C. N.	S Completed 9 Sep 1968 Woollett
Date 9 Sep 1968	Datum
Elevation Surface	Datum
Co-ordina	ates of Collar
North 1+ 80 S	
East C+ 20 W	

	Surveys		
At	Dip	Bearing	
rollar	-450	2250	(545°W)
250'	-5-1°30'		
5m'	-110° 30'		

"Ax" Core

	From	To	To Description of Core	Sample	FOOTAGE		Width	CORE ASSAYS					
	From 10 Bestription of cole		No.	From	To	*******							
	0	2	Casing					,					
-	2	392	Crushed grainte gneiss - white, lt. gry, & minor biotite schist.										
	-		Blk. med to coarse grained, gneissic. Numerous large broken but rounded		*								
			fragments up to l'' dia of qtz & felds set in gound mass of a med grained grani	te									
			gneiss. Local short lenghts (interbands) of a fine grained biotite, qtz schist. C										
			composition - Feldspar 60-70%, qtz, 15-20%, biotite 10-20%, Angle of foliation	n									
			to core - 40° @ 3', 35° @ 46', 35° @ 112', 20° @ 148', 40° @ 181', 30° @ 21	61.									
			(33-49) Minor lt. grn. altered feldspars.										
			(33-34) Ground core										
			(55-109) Flesh pink, coarse grained, crushed, qtz, felds pegmatite, local sho	rt									
			sections of biotite schist.										
			(75) Fracture @ 45° flanked by 1/2" chlorite alteration										
			(82.5-90) 10% lt. apple green clay material. (Alteration of feldspar), Up to 60	%@83. 5'.					'				
			(100-106. 5) As (82. 5-90)										
			(133. 5-143) flesh pink, crmy, qtz felds pegmatite minor local coarse biotite.	· ·									
			First contact sharp @ 30°, latter @ 45°										

EXPLOSE TION	
Property New Senator	Rough Option
Location	
Claim No.	······································

Surveys

Dip

Bearing

Location of Core

At

MCINTYRE
PORCUPINE MINES LIMITED

MCINTYRE

### DIAMOND DRILL

Hole No. 68-8	Sheet No. 2
Length of Hole	
Date Started	Completed
Core Logged by	
Date	·
Elevation	Datum
Co-or	dinates of Collar
North	

	From To Description of Core	Sample	FOO'	FOOTAGE		CORE ASSAYS						
		Description of Core		No.	From	To	Width	OOME ABBAIS				
		-	(143-154) Predominantly biotite schist.									
			(184. 5-185. 5) Molybdenite smered on slip planes.									
			(191-200) Mottled appearance, large rounded fragments of qtz. & felds genera	11 <b>3</b> y								
			altered to a lt. olive grn color.									
		.,	(200-208) Med grained, pink, gneissic granite.	<del> </del>								'
	-		(208-213) Coarse rounded frags of pegmatite heald by 20% biotite. Crush zone.									
			(220-229) Slightly crushed flesh pink & wht pegmatite. Local green altered									
			feldspar. Contacts @ 35°.									
	·		(229-240) Crmy, minor dk. grn, finely foliated grainite. Foliation is caused b	y							*	
			fine laminated (mylonitic) qtz & minor chlorite.									
-			(231) 4" sheared lt. grn, altered @ 30°.									
			(240) minor molybdenite on slip.									
			(240-242) Lt. grn, altered feldspar.	:.							•	
			(240-274.5) Coarsely crushed throughout									
											-	
					,							

<b>EXPLOR</b>	MOIZ	DEPAI	RTMENT

Claim No.

Location of Core

Surveys

Dip

At

MCINTYRE PORCUPINE MINES LIMITED

EXPLORATION DE		MCIN
Property New Senator	Konya Option	PORCUPINE MI
Location	/	

Bearing

Hole No.	Sheet No. 3
Length of Hole	
Date Started	Completed
Core Logged by	
_	
Elevation	Datum
Co-or	rdinates of Collar
North	

From	To	Description of Core	Sample		ГАGE	Width	CORE ASSAYS						
			No.	From	To								
		(274. 5-276. 5) (277-284) As (229-240)						·		•.			
		(310. 5-311. 5) Ground core											
		(284-343. 5) Predominantly biotite schist.											
		(334-335) Ground core								٠			
		(343. 5-376) Coarsely crushed white pegmatite granits gneiss.	,										
		(376-386) Pink, med grained gneissic granite. Contacts sharp @ 30°											
		Angle of foliation, tocore - 30° @ 230', 040° @ 240', 40° @252', 40° @290', 4	0° @ 353	•									
		35° @ 383'.			-								
392	453	Pegmatite-crmy pink, flesh pink, crushed coarse grained, qtz, felds pegmatit	te						,				
		with 10-15% biotite/chlorite.					,				·		
		(412-416) As (376-386).											
		(439-448) 10-15% Red feldspar											
		(448-453) 20-30% biotite. Gradational with following.											
453	525	Gneissic Granite - flesh pink, wht, dk. green. Med grained, slightly crushed											
		70% feldspar, 15% qtz, 15% chlorite.											

Property	New Sen	ctor Rougn Op	1) ch
Location			
Claim No.	<u></u>		
Location of Core			•
	Surveys	•	
At	Dip	Bearing	

<b>MCINTYRE</b>
PORCUPINE MINES LIMITED

Hole No.	Sheet No. 4
Length of Hole	
	Completed
Core Logged by	······
	Datum
Co-o	rdinates of Collar
North	
East	·

			· .	East					·			
From	То	Possintian of Core Sample FOOTAGE		Description of Core Sample FOOTAGE		Width	CODE ACCAVA		g .			
Tioni		Description of Core	No.	From To		Witti	CORE ASSAYS					
		(484-485) Ground core					•					
· 		(504. 5-505) Ground core										
		(520 - 522) Pegmatite, 1-2% mafics.										
		Angle of foliation to core - 35° @461', 50° @ 494'. 45° @ 516'.										
525		End of Hole										
						'						
		No Radicactivity in Hole.										
							-					
-												
,												
	<u> </u>		``		·		•					
				<u> </u>					<del> </del>			
	•											
				-	-							

Property New Se	nator Option		MOINT Y R.E. PORCUPINE MINES LIMITED
Location Twin I	akes Area		
Claim No.	1, (1		
Location of Core	A+ Ch4 Surveys	evry Lake	
At	Dip	Bearing	
0	- 440	090° (Due Ea	s+)
			•
b			" Ay" Cove

Hole No. 68-9	Sheet No. 1
Length of Hole 325'	
Date Started September 14/66	B Completed Sept. 17/68
Core Logged by G. N. Woolet	<del></del>
Date 17 Sep 1968  Elevation Surface  Co-ordinates	
Elevation Surface	
/ Co-ordinates	s of Collar
North 18 + 47 5	
1+00 W	•

<b>T</b>	To	Description of Core	Sample	FOOTAGE		Width	4308	_	CORE ASSAYS			
From	i Description of Core		No.	From	То	Witti	0/0	7602		ABBAIB		
0	3	Casing										
3	61	Cataclastic Gneiss - Wht, pink, blk, It gry, coarse grained, crushed. Quartz	20% 964	85.5	86.5	1.0	0,05	Tr				
		feldspar 60%, biotite/chlorite 20%. Minor interbands or fine grained biotite										
 		schist, locally tightly folded. Contact with following is gradational.								ļ		
·		Angle of foliation to core - 65° @ 6', 45° @ 25', 60° @ 51'.			,					ļ		
61	129	Migmatite - Blk, It gry, locally graish. Fine grained, foliated, Biotite up to	80%,									
 		qta & felds 20 - 30%. Local Sections graish altered felds or possibly diopside	?							<u> </u>		
		Angle of Foliation to core - 45° @ 71', 50° @ 82', 0 - 20° from 97' - 101',										
		75° @ 129', (66-67) - lt grn altered Diopside?										-
<u>:</u>		(81. 5 - 88) As (3 - 61)						ļ,				
		(110 - 122) Minor It Grn alt diopside or felds?										
129	151.5	Qtz Felds Bickite Gneiss-Much As (3-61) but less crushed and no pink colour	<b>P.</b>									
,		Local Minor pyrite. Angle or foliation to core is 65° throughout.										
151. 3	153	Fault - Apple grn, minor pink and blk, soft serpentined with minor qtz. veinin										
****												٠.
												·
		-										
						•						

Claim No. Location of Core Surveys Dip

At



MI AUITAINE AIRIMEIN	MCINT
Property	PORCUPINE MINES
ocation	

Bearing

Hole No.	68-9	Sheet No	2
Length of Hole			
Date Started		Completed	
Core Logged by			
Date			
Elevation		Datum	
	Co-ordinates	of Collar	
North			
East			***************************************

	From	To	Description of Core	Sample	FOOTAGE		Width	11204	10-	CORE ASSAYS				
	riom		Description of Core	No.	From	То		%	0/6					
			and local pink felds fragments. Contact sharp @ 45°.					,						
	153	181	Qtz-Felds-Biotite Gneiss - As (129-151.5) crushed and healed with chlorite					,						
<u>.                                    </u>			Angle of foliation to core - 60°.											
	181	325	Biotite Gneiss - Much as (61-129). However becomes more gneissic than											
			schistose. Bietite 40 - 50%, qtz and felds 50 - 60%. Angle of foliation to core	-9619	151.5	154.0	2,5	0.03	TL					
			65 <sup>1</sup> @ 199', 70° @ 237' .	9620	155.0	15-9.0	4.0	0.05	0.02	•				
		·	(105-186) Pegmatite with minor diopside?	9615	162.5	167.0	4.5	0.08	Tr					
			(210-217. 5) Pegmatite minor coarse biotite	9616	214.0	2/6.0	2.0	0.07	Ni!					
			(241-247) " " " "	9617	219.5	122,5	3.0	0.02	Nil					
			(252-257) " " " "	9618						Ì				
			(258) 3" CG Biotite, minor pyrite, slightly rad act.											
			(260) 6" Guarsely brecciated, it grn, alt feds?											
			(272-273. 5) Pegmatite, minor it grn diopside? Minor pyrite.	9621	272.0	273.0	1,0	0.01	Tr					
			(274. 5-279) Pegmatite, minor CG biotite, slightly rad act.											

MCINTYRE

Property		
Location		
Claim No.		
	Surveys	
At	Dip	Bearing
		**
		· .
		•

Hole No.	68-9	Sheet No. 3
Length of Hole	· 	
Date Started	·	Completed
Core Logged by	·	
Date		
		Datum
	Co-ordinates	
North		
East		

From To	Description of Core	Sample No.	FOOTAGE		Width	CORE ASSAYS						
	10	Description of Core		From	To	***************************************						
		(285-289) (289. 5-293) coarsely crushed, fragments up to 1" dia.					•		,			
		(298-302) Pegmatite, slightly rad act.			,		,					
		(302-383. 5) Fine grained, It gry granite foliation @ 70°.										
		(303. 5-305) Pegmatite.										
		(308-309) 17										
		(317.5-319) Coarsely crushed pegmatite, not rad atx act)					·		,			
		(323-325) н и и и и и										
		(325) 1" of biotite gneiss following (323-325)										
		Angle of foliation to core - 60° @ 182, 60° @ 199, 50° @ 216, 75° @ 307',										
		70* @ 269' /				-						
	325	all End of Hole.										
							hourt day 1 day					
						,		,				

Property New Senator Rouya Option, N. E. Alberta.

Location Twin Lakes Area (West of Cherry Lake)

Claim No. Location of Core N. W. Bay, Cherry Lake.

Surveys Bearing Dip At -45° N 45° W (True) 01 125' -42\*

#### **MCINTYRE** PORCUPINE MINES LIMITED

Hole No. 68-10		Sheet No	1	
Length of Hole 15	. 0'			
Date Started Septemi	er 18, 1968	Completed	Sept.	19/68
Core Logged by	H. Thorpe			
Date September 2				
Elevation Surface				
	Co-ordinates of C	ollar		
North South	9 + 20'			
East				

	From To		Description of Core	Sample		ole		Width	0/0		CORE ASSAYS			
	riom	10	"Ax " Core	No.	From To			J I						
	0	8	Casing											
	8	9.5	Pegmatite dyke - no radioactivity. Out contact ground up			·								
	9. 5	21.0	Biotite gaeiss. Gaeissosity at 70° to CA, some small blebs pegmatite along ga	neiscosit	<b>y</b>									
	21.0	22.7	Pegmatite dyke, irregular contacts.											
	22. 7	75. 5	Quartz-feldspar-biotite gneiss with local small injections of pegmatite. Gneis	sosity										
			at 70° - 45° to CA. From 50.0' gneissesity parallel to CA in places											
			35.8 - 36.2 pegmatite dyke											
			42. 0 - 43. 5 mainly milky quartz - barren											
-	75. 5	117.0	Pegmatite, sometimes with local concentrations of biotite. Minor epidote in fi	actures.										
			108.6 - 110.0 minor radioactivity	9638	108. 6	110.6	1.4	0.12						
	117.0	136.0	Quartz-feldspar-biotite gneiss. Variable, folded gneissosity											
	136.0	<b>≥40.</b> 5	Pegmatite with large broken feldspar phenocrysts up to 1/2"											
	140. 5	151.0	Quartz-feldspar-biotite gneiss											
			148.0 - 149.0 mainly barren, milky, quartz, -feldspar											
			151.0 - End of Hole											
	_													

**MCINTYRE** 

Property	New !	Senator	- Rot	iyn Opt	ion	
Location	Pen	ineula,	north	end of	Spider	Lake
Claim No	·					

Location of Core Left at drill site

D:-		
Dip	Bearing	3
-45*	S 22°	E (True
-40°		
	-45*	-45° \$ 22°

# PORCUPINE MINES LIMITED

Hole No	68 - 11	Sheet No.
Length of H	Hole 303. 0'	·
Data Starta	27 September, 1968	Completed 28 Sept, 1968
Core Logge	w. H. Thorpe 28, September 1968	
Date 27	28, September 1968	
Elevation	Surface	Datum
****	Co-ordinates of C	Collar
XXX	1 + 00 N. W.	

From	m To	Description of Core	Sample	FOOTAGE		Width	CORE ASSAYS						
Prom 10 Bescription of ou		Description of Cole	No.										
0.0	3. 0	Casing			-								
3. 0	62.5	Granite gneiss-pink, banded, prominent biotite			-				,*				
		3. 0-20. Ogneiësesity at 75° - 45° to CA, minor folding in places.											
·		At 24.5', 2" crushed zone					,						
		20.0-42.0 more folded than preceding, gneissosity at 80° to parallel to CA.											
 		Prominent biotite banding											
		42.0-62.5 less folded than preceding, gneissosity at 75° - 80° to CA.											
62.5	74. 0	Quartz-feldspar-biotite gueiss								·			
		62.5-74.0 20% banded granite gneiss, gneissosity at 80° - 60° to CA.											
74. 0	83. 5	Impure quartzite with prominent bitite banding											
		74. 0-83. 5 gneissose banding at 80° - 55° to CA											
 83. 5	108.0	shegs Augen gaeiss											
		83. 5-96. 5 rounded feldspars up to 1/2", more massive than preceding core, u	P		/	<i>,</i>				-			
		to 30% grey quartz.											
		96. 5-108. 0 50% quartz, occasional trace molybdenite, pyrite, and chalcopyrite	е,										
		no radioactivity, 20% biotite, 30% feldspar with occasional hematite stain.											
		Crushed zone from 102.0 - 103.0					,						

Surveys Dip

Bearing

Property New Senator-Rouyn Option

Location of Core

At

McIN	T	YI	RE
DODOUDING	MINIE	~ T TE	(IMED

MCIN	1T	ZR
PORCUPINE	MINES	LIM

Hole No	68 - 11	Sheet No2
Length of Hole		
Date Started		Completed
Core Logged by	ų •	-
Date		
Elevation	·	Datum
	Co-ordinates	of Collar
North	· ·	
East		

	From To		Description of Core	Sample	FOO'	TAGE	Width	core assays				
				No.	From	То		U <sub>3</sub> O8				
	108.0	148. 0	Biotite gueiss-occasional garnet									
	./		108. 0-136. 5 considerably folded with occasional rounded feldspar up to 1/8".									
<u> </u>			Occasional trace pyrite		•							
			136. 5-139. 0 some augen feldspars and crushed zone from 137. 0-139. 0									
			139. 0-148. 0 prominent augen feldspars in places, 60% biotite.									
	148.0	159.0	Augen gneiss - rounded feldspars	9640	149.0	154.0	5.0	0.01				
			148. 0-149. 0 60% grey quartz							,	·	
			149.0-154.0 very slightly radioactive, 65% grey quartz, 20% feldspar, 15% bio	tite								
			rough banding at 70° to CA, occasional trace pyrite					,				
	٦	,	154. 0-159. 0 60% grey quartz.			- ,				·		
	159. 0	179.0	Biotite gaeiss-60% biotite, 20% feldspar, 20% quartz	,								
			159. 0-179. 0 gaeissosity at 65° to CA.									
	179.0	213.0	Quartzite, impure, prominent biotite, occasional fine pyrite			/	/					
			179. 0-188. 0 gneiesosity at 65° to CA, prominent biotite banding									
			188. 0-195. 5 sewhat brecciated parallel to gneissosity at 45° to CA.									
			/			*						
		·					<u> </u>	\				

Location of Core Surveys Dip

At

McIN	<b>1T</b> 3	RE
PORCUPINE	MINES	LIMITED

	MCINTY
Property New Senator-Rouyn Option, Alberta	TAT TT 4 T 3
Property 1.50 Date of the property 1.50 Date	PORCUPINE MINES
Location	

Bearing

Hole No.	68-11	Sheet No. 3
Length of Hole		
Date Started		Completed
Core Logged by		·
Date		
Elevation		Datum
	Co-ordinate	s of Collar
North		· · · · · · · · · · · · · · · · · · ·
East		

					FOOT	<b>FAGE</b>						
	From	То	Description of Core	Sample No.	From	То	Width		CORE	ASSAYS		
			208. 0-213. 0 some hematization of feldspars									
	213.0	218.0	Biotite gaeiss, semewhat contorted						,			
	218.0	303.0	Quartzite, impure, prominent biotite banding									
			218. 0-232. 0 gneissic banding at 45° - 65° to CA.									
			232. 0-235. 5 very minor biotite and more massive than preceding, somewhat c	rushed								
			235. 5-244. 0 brecciated zone with fractured feldspars up to 1/4" across, some									, , , , ,
			hematization, minor biotite. No radioactivity.									
			244. 0-257. 0 gneissosity at 65° to CA, occasional brecciation of feldspors alon	ag								
			257. 0-273. 0 occasional minor augen feldspar along gneissosity at 65 -45° to	CA.				,				
			273. 0-293. 0 occasional trace pyrite, chalcopyrite and molybdenite or graphite	•		,						
			293. Q-294. 3 breccia zone, mostley feldspan and quartz									
	,		294. 3-303. 9 gaeissosity at 55° to CA, some brecciated fragments along gaeis	sosity								
	·	,	303. 0 End of Hole			,						
											, .	
											,	
<del></del> ;				,								
		A Control of the Cont										
لنستب	· · · · · · · · · · · · · · · · · · ·			<del></del>		·						

(6)

McIN	1TY	RE
DODGEDINE	B / TB ITS CI	T T3 (TM12T)

Property New Senator Rouyn Option, N. E. Alberta

Location Spider Lake - north peninsula Claim No.

Location of Core Left at drill site

Surveys

At

450'

Collar

Bearing Dip -45\* S 47° E (true) -37\*

Hole No.	68 - 12	Sheet No. 1
Length of	Hole 466.0'	
Date Star	ted September 29, 1	968 Completed Oct. 2, 1968
Core Log	ged by W. H. Thorpe	<u> </u>
Elevation	Surface	Datum
	Co-ordinate	
Month	5 + 10 N. E.	
Beaste	3 + 20 N. W.	

	From	To	Description of Core	Sample	FOO	TAGE	Width	0/	CORE	ASSAYS	
			" Ax" Core	No.	From	To		U3O8		-55:-25	
	0.0	2.0	Casing								
	2.0	50.0	Granite gneiss-pink, prominent biotite, gneissosity at 65° -75° to CA, trace pyr	ite							
			46.0 - 50.0 crushed zone, slightly radioactive		46. 0	50. 0	4.0	Tx.			
	50.0	188. 0	Quartz-feldspar-biotite gneiss, occasional hematized feldspars								
			50. 0-55. 6 slightly radioactive, some inclusions of granite gneiss. 4" quartz	9642	50. 0	55. 0	5. 0	0.01			
			vein at 53. 3								
		-	58.0 - 63.0 considerable crushing along gneissosity	9644	58. 0	63. 0	5.0	0. 01			
			at 65° to C. A., slight radioactivity	9645	63.0	65. 5	2.5	9.04			
	,		55.0 - 58.0 slight radioactivity, gneissosity at 65°-85° to C.A.	9643	55. 0	58. 0	3. 0	0.04			
			63. 0 - 84. 5 decreasing radioactivity, gneissosity at 75° -65° to C. A.								
			84. 5 - 85. 7 mainly quartz-feldspar with hematized feldspar patches up to 1"ac	ross.							
,			No radioactivity.								
	·		83.7 - 102.0 occasional minor hematization of feldspars. No radioactivity.								
	···		Gaeissosity at 85° -45° to C. A.		·	·					
			102.0 - 103.5 50% lost core. No radioactivity in sludge or core	,							
									1		

#### **EXPLORATION DEPARTMENT** Property New Senator Rouyn Option, Alberta

Location Claim No. Location of Core Surveys Dip

At

Bearing

MCINTYRE
PORCUPINE MINES LIMITED

$\mathbf{M}^{\mathbf{C}}$	IN	T3	ZR	E
PORCU	PINE N	MINES	LIMI	TED

Hole No.	68 - 12	Sheet No. 2
Length of Hole	***************************************	
Date Started	·	Completed
Core Logged by	·	
Date		<del></del>
		Datum
	Co-ordinat	es of Collar
North		
_		·

-	From	To	Description of Core	Sample	FOOT	ΓAGE	Width	CORE ASSAYS							
			Description of Co.c	No.	From	То	William		CONE	ABBAIB					
			106. 5 - 107. 5 hematized feldspar-quartz section, no radioactivity some fine												
			with mauve colour	····											
			117.0 - 124.0 some hematized feldspar in quarts-rich sections. No radioactivit	y											
			Brecciation along gneissosity at 55° to C. A. Garnets in biotite rich sections.												
			124. 0-128. 0 augen gneiss texture, considerable movement along gneissosity at	;	,										
			65° - 50° to C.A. Some fine garnets.												
			128.0 - 131.0 predominantly quartz-feldspar, minor biotite, could be pegmatic	te											
			but conforms to gneissosity at 78° to C.A. and appears to be result of							,					
			metamorphism.												
			131.0 - 149.0 40% quartz-feldspar sections with some hematized feldspars					-							
			conforming to gaeissosity at 70° - 80° to C. A.			. •									
			149.0 - 170.0 biotite rich, occasional augen feldspar, gneissosity at 85° to CA	١.											
			170.0 - 188.0 40% quartz-feldspar rich sections with very minor biotite.												
			Good banding at 85° - 65° to C. A.												
	188. 0	225.0	Pegmatite-with 20% alternating quartz-feldspar-biotite gneiss band, slight												
			, ,							,					
	· •														
							,								

Location of Core Surveys

Dip

At

S LIMITED

	MCINT
roperty New Senator Rouya Option, Alberta.	TAT TIME
roperty area cended: manya operous made tea.	PORCUPINE MINES
ocation	•

Bearing

Hole No. 68 - 12	Sheet No. 3
Length of Hole	
	Completed
Core Logged by	
	Datum
	nates of Collar
North	
East	

From To 225. 0 369.	То	Description of Core	Sample	FOO'	ГАGE	Width	%	43	CORF	A S S MAV S	
11011		pescription of core	No.	From	То	1714611	1 '	-	Cu	ASSAYS MoS2	
	<u> </u>	hematization of feldspar but no radioactivity.								,	
225. 0	369.0	Quartzite, impure, prominent biotite, occasional actinolite, gneissic banding								·	
		at 65° to C. A., trace pyrite in places. No radioactivity.					-		·		
		235. 5 - 236. 5 90% quartz-feldspar section - may be pegmatite dyke along							- '	•	
		gneissosity at 55° to C.A.									
		237. 5- 239. 0 75% quartz-feldspar section								-	
		256.0 - 256.5 and 261.5 - 262.3 quartz-feldspar sections									
		289.0 - 339.0 considerable folding.									
		At 341. 5, 1/8" fracture with pyrrhotite containing trace chalcopyrite									-
150 T		360.0 - 365.0 25% irregular milky quartz veins,	9646	360. 0	365. 0	5. 0	Nil	Ni/	Tr	Tr	,
		2% pyrrhotite									
		365.0 - 369.0 considerably folded.									
369. 0	466. 0	Quartz-feldspar-biotite gneiss									
		369.0 - 402.0 considerably folded, occasional trace pyrite									
											,
						•					
						,					· · · · · · · · · · · · · · · · · · ·

MCIN	T	YRE
DODOUBLE	BATRITEC	* ** *********

MCIN	ITYRE
POPCLIDINE	MINES LIMITED

Property	New	Senator	Rouyn	Option,	Alberta.
Location					
		Sur	rveys		
	At	-	ip	Bearin	

Hole No.	68 - 12	Sheet No
Length of Hole		
Date Started		Completed
Core Logged by		
Elevation		Datum
	Co-ordinate	s of Collar
North		
East		

		-	FOOT	FACE	<u> </u>							
From	То	Description of Core	Sample No.	From	To	Width	CORE ASSAYS					
		402. 0 - 407. 0 15% irregular milky quartz, trace pyrrhotite in places			× • • • • • • • • • • • • • • • • • • •							
 		407. 0 - 425. 5 considerably folded										
		425.0 - 429.0 and 429.8 - 430.7 coarse-grained quartz-feldspar, probably dyk	表露									
 <del> </del>		429.0 - 440.0 prominent drag folding in places, 1-2% pyrrhotite, trace chalco	pyrite			ļ						
 		440.0 - 466.0 10% irregular quartz blebs, considerable folding, traces										
 `		pyrrhotite, pyrite							,			
 		466.0 - End of Hole.										<del></del>
 	-	· · · · · · · · · · · · · · · · · · ·										
 •												
 					-						-	<del> </del>
 												<u> </u>
					***************************************							
 	!		L	L				<u> </u>			ļ	

2

Sludge not recovered - 95% core recovery

MCINTYRE
PORCUPINE MINES LIMITED

Property N	ew Senator Rom	n Option, N. E. A	lberta
Location Sa	outhwest end of	Holmes Lake	
Claim No.	*****		
Location of (	Core Left at dri	li site	·
	Surveys	•	
At	$\mathbf{Dip}$	Bearing	
Collar	-45*	S 45° E	
400 Feet	-40*	(corrected for	capillarity)

Hole No.	68-13	·	Sheet No	1
Length of Hole	406.0			
Date Started Oct.	8th/68		Completed	Opt. 13th/68
Core Logged by	-	De		
Date Gctobe		•		
Elevation Surfac			Datum	•
•	Co-ordin	ates of C	Collar	•
North	****	· ' .		
East	: 5.张帝忠永恭帝 <u>···</u>		·	

From	To	To Description of Core		FOOTAGE		Width		CORE ASSAYS
	10	"AX" Core «lost -> water at 21.0 Feet )	No.	From	To	;	U30 8	COME ASSAIS
0.0	4.0	Casing						
4.0	179.0	Pegmatite - feldspars frequently hematized and crushed,	9647	4.0	6.0	2.0	Tr	
		prominent biotite and occasional trace pyrite	9648	6.0	11.0	5.0	Tr	
	ļ	4.0 - 6.0 slight radioactivity - up to 700 counts per second - trace pyrite	9649	11.0	14.6	3.0	0.01	
		6.0 - 14.0 pronounced fracturing and crushing	9650	14.6	15.0	1.0	0.01	
	,	At 14.3, 3 inch quartz vein with 700 counts per second and continues	9696	15.0	<del>20.0</del>	5.0	Tr	
		crushed and hematized to 21.0 feet	9697	26.0	21.5	1.5	7.	
		20.0 - 21.5 prominent hematite stain	9698	21.5	25.0	3.5	72	
		23.0 - 38.5 occasional hematite - stained feldspars	9699	25.0	30.0	5. 0	T	
		38.5 - 42.5 slightly radioactive - up to 700 counts per second, 15% biotite.	9700	30.0	35.0	5.0	0.01	
		occasional trace pyrite	9301	35.0	38.5	3, 5	0.01	
		42.5 - 47.0 up to 1200 counts per second, prominent hematized feldspars,	9302	38. 5	42.5	4.0	Te	
		considerable fracturing	9303	42.5	47.0	4. 5	0.01	
		47.0 - 52.0 hematized feldspars, @ few cubes pyrite,	9304	47.0	52.0	5. 0	6.02	
		up to 1100 counts per second	9305	52.0	520	5.0	0.03	
		52.0 - 57.0 slight gneiseosity in places at 80° to Core Angle, considerable						
		fracturing - up to 1200 counts per second.						

Surveys Dip

Location

MCINTYRE
DODOLDINE MINEC TANGER

MCIN	<b>ITYRE</b>
PORCHBINE	MINES LIMITED

Property New Senator Rou	MCINTY PORCUPINE MINES	
Location		
Claim No.	<u></u>	
Location of Core		

Bearing

Hole No.	68-13	Sheet No. 2
		Completed
Core Logged by	·	
	, ,	Datum
	Co-ordinate	
North		
The state of the s		· .

From		Description of Core	Sample			Width	U308	· An	CORE	E ASSAYS	
 		Description of cont	No.	From	То		%	02.	Ag.	ASSAIS	
 		57.0 - 62.0 less hematized than preceding, more biotite (10%), traces pyrite	9306	57. 0	62.0	5. 0	Tr	NIL	Nil		
		gneissosity at 80° - 45° to Core Angle- up to 1200 counts per second									
		62. 0 - 67. 0 slight guelssosity in places at 55° to Core Angle. Hematization	9307	62.0	67.0	5. 0	0. 01	-	•		•
		less than in preceding sections, traces pyrite up to 900 counts per second		<u>.</u>							
		67.0 - 72.0 more biotite than preceding-up to 900 counts per second. Slight	9308	67.0	72.0	5. 0	Fr	NII	MII.		
	·	gneissosity in part at 45° to Core Angle, traces pyrite throughout.	•								
 		72.0 - 77.0 biotite-rich banding at 45° to Core Angle from 72.0-74.0 - up	9309	72.0	77.0	5. 0	Fr	œ.	*		
		to 900 counts per second									
 		77.0 - 82.0 less hematized than preceding, prominent fracturing at various	9310	77.6	82.0	5.0	0.03	•	•	,	
 		angles to Core Angle. Up to 1300 counts per second in biotite-rich section at									
		75. 5 feet. Traces pyrite throughout.									
		82.0 - 87.0 no hematication, less quartz than preceding, greenish yellow	9311	82.0	87.0	5.0	0. 01	*	•		•
	*****	stain in places - up to 800 counts per second .							; e		
		87.0 - 91.0 some prominent biotite with gneissic banding in part at 80° to	9312	87.0	91.0	4.0	Tr				•
		Core Angle. Up to 900 counts per second. No hematization.				•					
 		91.0 - 96.0 no hematization, trace pyrite throughout - up to 980 counts per	9313	91.0	96.0	5. 0	D 01			,	
		second.									
		96.0 - 101.0 no hematization, up to 1100 counts per second	9314	96.0	101.0	5.0	0. 02				

Property New Senator Rouyn Option, Alberta Location Claim No. Location of Core Surveys Dip

At

Bearing

MCIN	T	RE
DODGEDINE	MINIEC	T INCIDENT

McIN	1TZ	$(\mathbf{R})$
PORCUPINE	MINES	LIMIT

Hole No.	68-13	Sheet No3
Length of Hol	e	
Date Started		Completed
Date		
Elevation		Datum
	Co-ordinate	s of Collar
North	·	
East		

From	То	To Description of Core Sa				Width	i ~	3 <sup>0</sup> 8	CORE ASSAYS		
	-	101. 0-106. 0 fractured feldspars, no hematization, up to 900 counts per second	9315	From	To 106. 0		% 8. <b>02</b> :				
		106. 0-111. 0 as preceding to 109. 5 feet then minor hematization	9316	1	111.0						
	<b></b>	111.0-116.0 minor hematization-up to 1000 counts per second	9317		116.0		i	_			
		116.0-121.0 slight to moderate hematization-up to 1000 counts per second	9318	116.0	121.0	5. 0	0. 02				
		121. 0-126. 0 moderate hematization-up to 950 counts per second	7319	121.0	126.0	5. 0	Tr				
		126.0-131.0 slight hematization-up to 1200 counts per second in biotitic sec-	9320		131.0		9.02				
		tions. Biotite 5% overall.				,					
		131. 0-136. 0 slightly hematized, prominent milky quartz-up to 1100 counts per	9321	131.0	136.0	5.0	0. 02				
	· · · · · · · · · · · · · · · · · · ·	second.									
 		136. 0-142. 0 moderate hematization-up to 800 counts per second	9322	136.0	142.0	6.0	0. 02				
		142. 0-147. 0 moderate hematization, biotite up to 10%. Up to 700 counts per	9323	142.0	147.0	5. 0	o. 02				
		second. At end of section, 16 inch greenish yellow oxide stain.			,						
		147. 0-151. 0 slightly bematized-up to 900 counts per second	9324	147. 0	151.0	4. 0	Tr				
		151. 0-156. 0 slightly hematized-up to 1000 counts per second	9325	151.0	156.0	5. 0	6. 02				
		156. 0-161. 0 slight to moderate hematization-up to 900 counts per second	9326	156.0	161.0	5. 0	0. 02				
		161. 0-166. 0 1% pyrite throughout, no Radio Activity.	9327		166.0		0.02				
		166. 0-179. 0 slightly hematized, no Radio Activity.									

McI	NT	YRE
PORCLIDIN	IE MINES	CHTIMITED

operty New Se	mator Rouyn	Option, Alberta	PORCUPINE MINES LIMITED	Hole No.	6343	Sheet No. 4	
cation				Length of Hole			
im No				Date Started		Completed	
cation of Core.		·		Core Logged by	· <del></del>		
	Surveys			Data		·	2 +
At	Dip	Bearing		Elevation		Datum	
•		·	•		Co-ordinates	of Collar	
		· <del></del>		North			
				East			

From	To	Description of Core	Sample	FOOT	rage	Width	U 304		CORE ASSAYS				
		Description of Core	No.	From	To	7714411	%						
179.0	249.9	Biotite gneiss - no Radio Activity. 179.0-186.0 40% pegmatite injections.	<del></del>									,	
-		186. 0-186. 4 milky quartz vein at 55° to Core Angle. 186. 4-195. 0 gneisso-				,							
		sity at 45° to Core Angle. 195. 0-196. 2 barren, irregular, milky quartz vein.	-										
		196. 2-220. 0 5-10% pegmatite injections, gaelssosity at 35° -50° to Core Angle.	•										
		220.0-239.0 gneissosity at 60° to Core Angle. Two - 2 inch, 6 inch irregu-											
		lar milky quarts veins with traces pyrite, minor pegmatite injections.											
		239.0-249.0 10% pegmatite injections.										 	
249.0	257.0	Pegmatite-pink, hematized feldspars, no Radio Activity. In contact at 80° to						_		_			
		Core Angle.											
257.0	270.5	Biotite gneiss-10% pegmatite injections.											
270.5	319.8	Pegmatite-minor biotite gasiss in places - no Radio Activity. 270, 5-273. 5											
		brecciated, hematized feldspar phenocrysts, contacts at 65° to Core Angle.											
		No Radio Activity. 273. 5-281. 0 mixed biotite gneiss and pegmatite.			·								
		281.0-319.8 pegmatite, no Radio Activity.										 	
319.8		Biotite gneiss. 319.8-327.5 gneissority at 60° -45° to Core Angle. 6 inches										 	
		pegmatite around 323. 3 feet. 327. 5-328. 0 fault zone-broken, Vuggy Core-											
		No Radio Activity. 328.0-338.0 gaeissosity at 60° to Core Angle, but con-											
		torted in places.											

MCINTYRE
PORCUPINE MINES LIMITED

Property New Se	nator Rosy	Option, Alberta
Location	-	
		***************************************
	Surveys	
At .	Dip	Bearing
	,	

Hole No.	68-13	Sheet No5
Length of Hole	<b>2</b>	-
		Completed
Core Logged by	/	
		Datum
		es of Collar
North	····	

	From	To	Description of Core	Sample	FOOTAGE		Width	UsOg		CORE ASSAYS			
				No.	From	To	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	%					· .
			338, 0-359, 0 probable faulting at 339, 0 and 355, 0-356, 0										
			359.0-369.0 gneissosity at 65° to Core Angle, in some places contorted.										*
<u>,</u>			369. 0-375. 0 minor serpentinization in places			•							
			375.0-396.5 traces pyrite throughout, gneissosity generally at 35° to Core									·	
			Angle, but some crumpling in places.										
	404.2	405. 7	Pegmatite - Ne Radio Activity.	· ·									
- 7	405.7	406.0	Biotite gneiss.										,
			406. 0 - End of Hole.						,				

# INE MINES LIMITED

roperty	New Senator	Rouyn Option, N. E. Alberta	TATO
		1 1/4 mile N. W. of Cherry Lake	PORCUP

Location of Core Left at drill site

Surveys At Dip Bearing 0 90° (due East) Collar -45° (corrected for capillarity) 425' -42°

"Ax "Core

Hole No.	68 -	14	Sheet No	1
Length of	Hole 4	25'		
Date Star	ted 21 Octo	ber 1968		24 Oct. 1968
Core Logs	ged by	W. H. Thorpe r 1968		
		Co-ordinates of Co		
North	2 + 63	Small Lake	e Grid	
East	0+05	•	•	

:	From	To	Description of Core	Sample	FOO'	TAGE	Width	%	CORE ASSAYS			
			20001-2001-01-001-0	No.		То	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	U3O8				
	0.0	6. 0	Casing									
	6. 0	132.0	Quartz-feldspar-biotite gneiss with minor pegmatite intrusions, traces pyrite									
	, 		throughout, occasional trace chalcopyrite, molybdenite, pyrrhotite.									
			6.0 - 9.0 Two - 6, 10 irregular pegmatite dykes, general gneissosity at 65° to	9328	6. 0	9.0	3. 0	Tr				
			C. A., slight radioactivity.									
			9.0 - 14.0 Two - 18", 10" brecciated pegmatite dykes at 60° to CA, slight	9329	9.0	14. 0	5. 0	0.02			·	
			radioactivity						,			
			14.0 - 19.5 Two - 18", 6" pegmatite dykes at 65° to C.A.	9330	14.0	19. 5	5. 5	Tr				
			Includes 18" lost core, slight radioactivity.									
			19. 5 - 21. 0 - 12" brecciated pegmatite dyke, contacts lost, slight radioacitvity	9331	19. 5	21.0	1.5	0.0/				
			21.0 - 25.0 - 40% pegmatite intrusions, no radioactivity, gneissosity at 55°									
			- 45° to C. A.									
			25.0 - 30.0 augen texture, slight to moderate radioactivity	9332	25.0	30. 0	5. 0	Tr				
			30.0 - 35.0 as preceding, gneissosity at 45° to C.A.	9333	30. 0	35. 0	5. 0	0.03				
			35. 0 - 40. 0 25% pegmatite injections	9334	35. 0	40. 0	Γ	0.03				
	•		40. 0 - 44. 0 last 12" is brecciated pegmatite	9335	40. 0	44. 0		0.02				
											,	

McIN	1TZ	RE
DODCTIDINE	MINES	LIMITED

ocation				
laim No.	·		· '	
Location of Core	•			
•	Surveys		•	
At	Dip	Bearing	•	•

#### DIAMOND DRILL LOG

68-14 Hole No. Length of Hole..... Date Started Completed Core Logged by Date Co-ordinates of Collar

	From	To	Description of Core	Sample	FOO	TAGE	Width	0/	CORE	ASSAYS	
				No.	From	To		U3O8	00112		
			44.0 - 49.0 gneissosity at 55° to C.A., brecciated	9336	44. 0	49. 0	5. 0	0.02			
			49.0 - 52.0 slight radioactivity	9337	49.0	52.0	3. 0	7-			
10.00			52.0 - 57.0 slight radioactivity	9338	52.0	57. 0	5. 0	72			
			57.0 - 58.0 Pegmatite dyke, moderate radioactivity. Contact at 70° to C.A.	9339	57. 0	58. 0	1.0	0.07		,	
			58.0 - 62.0 low radioactivity, greenish yellow alteration on feldspars	9340	58. 0	62.0	4.0	0.02			
			62.0 - 67.0 low radioactivity, green ish yellow alteration on feldspars, 10 %	9341	62. 0	67. 0	5. 0	ブレ			
			pegmatite inclusions								·
			67.0 - 71.0 10" pegmatite dyke at 55° to CA, some hematization traces pyrite	9342	67.0	71, 0	4.0	Tr			
			at contacts								
			71.0 - 75.0 18" pegmatite, irregular contacts, crushed and broken feldspar	9343	71.0	75. 0	4.0	0.04			
			phenocrysts up to 1"								
	·		75.0 - 80.0 gneissosity at 45° to C.A., slight, spotty radioactivity contact at	9844	75, 0	80. 0	5. 0	0,01			
			79. 0 with following rock type							-	
			79.0 - 86.0 porphyritic gneiss, some hematization. In at 30°, out at 45° to								•
			C. A., no radioactivity.								
					,						

Property New

McIN	1T	$\mathbf{Y}$	$\mathbf{RE}$
	3 / 7 3 7 7 7		

Property New Senator Rouyn Option, N. E. Alberta	PORCUPINE MINES LIMITED	Hole No. 68 - 14 Sheet No. 3
Location		Length of Hole
Claim No.		Date Started
Location of Core		Core Logged by
Surveys		Date
At Dip Bearing		Elevation Datum
		Co-ordinates of Collar
		North
		East

From	To	Description of Core	Sample	FOOT	ГАGE	Width	%		CORF	ASSAYS		
			No.	From To			U <sub>3</sub> O <sub>8</sub>		COME AUGUAN ,			
,		86.0 - 103.0 porphyritic in places, no radioactivity, slight hematization in places.	:es									
	·	103.0 - 116.0 very minor pegmatite injections, less than 10%, local hematiz -										
		ation, no radioactivity.										
		116.0 - 124.0 pegmatite, no radioactivity, end contact at 55° to C.A.				7	,					
	,	124.0 - 132.0 gneissosity at 55° to C.A.										
132.0	161.5	Pegmatite	•									
		132.0 - 154.0 some hematization, no radioactivity, minor quartz-feldspar -										
•		biotite gneiss in places (less than 10%) at 45° - 20° to C.A.										
		154.0 - 158.0 slight radioactivity	9345	154. 0	158. 0	4.0	Tr					
		158.0 - 161.5 brecciated, slight to moderate radioactivity, gneissosity at 60°	9346	158: 0	161.5	3. 5	0.06	$\mathcal{I}$				
		to C. A.										
161.5	270.5	Quartz-feldspar-biotite gneiss, traces pyrite throughout							/			
		161.5 - 163.3 moderate radioactivity, traces pyrite, molybdenite	9347	161.5	163.	1.8	0.04	0.0	47/1.	5.0'		
	•	163. 3 - 168. 3 slight to moderate radioactivity, brecciated, gneissosity at 45°	9348	163. 3	168. 3	5. 0	0.03					
		to C.A., 20% pegmatite										
		168. 3 - 173. 0 brecciated, 25% pegmatite, slight radioactivity	9349	168. 3	173. 0	4.7	0.06					
 							_				• • •	

$\mathbf{McIN}$	1TZ	RE
POPCHIDINE	MINES	LIMITED

Property New Se	enator Ronyn	Option, N. E. Alberta
Location		
Claim No.		
	Surveys	·
At	Dip	Bearing
	,	

Hole No.	68 - 14	Sheet No. 4
Length of Hole		
Date Started		Completed
Core Logged by		·
Date		
		Datum
	Co-ordinates	of Collar
North		

<del></del>		<del> </del>				·	T				
	From	To	Description of Core		FOOTAGE		Width	0/0	CORE ASSAYS		
				No.	From	То		U3O8			
			173.0 - 178.0 slight radioactivity, gneissosity at 45° - 55° to C.A.	9350	173.0	178. (	5.0	Tr			
			178.0 - 185.5 gneissosity pronounced at 50° to C.A., 5% pegmatite. Includes	9838	178. 0	185. 5	7. 5	Tr			
			30" lost core, slight radioactivity			7.50					
			185. 5 - 190. 5 much folding and brecciation, gneissosity at 45° - 65° to C.A.,	9839	185. 5	190. 5	5.0	Tr			
			slight radioactivity					,			
	,	,	190.5 - 195.5 20% pegmatite, considerable hematization, slight radioactivity	9840	190. 5	195. 5	5. 0	エ			
			195.5 - 199.5 mainly pegmatite, pronounced brecciation, hematization, large								
	· ·		broken feldspar patches up to 1", no radioactivity	÷,							
			199.5 - 201.5 hematized, less brecciated, gneissosity at 60° to C. A. no			,			, and the second		
			radioactivity			4					
			201.5 - 203.0 pronounced hematization, slight radioactivity	9841	201.5	203. 0	1.5	0.03			
			203.0 - 218.5 variable gneissosity with cross-fracturing at right angles, no								
			radioactivity, 5 - 10% pegmatite. At 218.5, 5" barren, irregular milky quartz			•					
			218. 5 - 227. 0 gneissosity at 45° - 55° to C. A.			,		·			
			227.0 - 235.0 mainly pegmatite, brecciated, no radioactivity	-							
						,					
	·										
			· ·			-					
					اـــــــــــــــــــــــــــــــــــــ		l	ı İ	1 1	1	

Location Claim No. Location of Core Surveys Dip

At

Property New Senator Rouyn Option. N. E. Alberta

Bearing

MCIN	ITYR	${f E}$
DODGLIDING	ACCRETED THE	

Hole No.	68 - 14	Sheet No5	•
Length of Hole	·	·	
Date Started		Completed	
Core Logged by		<del>-</del>	
_		·	
Elevation		Datum	
•	Co-ordinat	es of Collar	
North			
East		,	

				-								
om	To	Description of Core	Sample	FOOT	TAGE	Width	<u></u>	411	CORE A	ASSAYS	// •	
			No.	From	To		%	0/0	Au 02.	02	U308	
		235.0 - 244.5 10% pegmatite, both greenish-yellow and white angular to										
		rounded feldspar phenocrysts up to 1/2", scarcely detectable radioactivity										
		244. 5 - 249. 5 gneissosity at 45° - 60° to C.A., brecciation along gneissosity.	-									
		slight hematization, considerable granitization, very slight radioactivity										
		249. 5 - 253. 0 white and greenish-yellow feldspar phenocrysts up to 1/2",										
		broken and elongated along gneissosity at 65° to C. A., very slight radioactivity	y									
		253.0 - 260.0 50% pegmatite injections, perphyritic in places, gneissosity at										
		· ·										
					,							
		places at 65° to C.A.										
0. 5	425.0	Quartz-feldspar-biotite porphyry. Feldspar phenocrysts up to 1 1/2", in places										
		resembling chichen feed lava, occasional hornblende crystals, 1% dissemin -	9846	276. 0	281. 0	5. 0	0.01	Tr	N:/	N:1	Ti	
•		ated pyrite throughtout										
		328.0 - 345.0 slightly gneissose in places at 65° to C.A., some brecciation of										
4									,			
			235. 0 - 244. 5 10% pegmatite, both greenish-yellow and white angular to rounded feldspar phenocrysts up to 1/2", scarcely detectable radioactivity 244. 5 - 249. 5 gneissosity at 45° - 60° to C.A., brecciation along gneissosity, slight hematization, considerable granitization, very slight radioactivity 249. 5 - 253. 0 white and greenish-yellow feldspar phenocrysts up to 1/2", broken and elongated along gneissosity at 65° to C.A., very slight radioactivity 253. 0 - 260. 0 50% pegmatite injections, porphyritic in places, gneissosity at 65° to C.A., some brecciation of feldspar phenocrysts, some greenish-yellow staining of feldspars, slight hematization, very slight radioactivity in places 260. 0 - 270. 5 porphyritic, feldspars up to 1", broken in places, gneissosity in places at 65° to C.A.  9. 5 425. 0 Quartz-feldspar-biotite porphyry. Feldspar phenocrysts up to 1 1/2", in places resembling chicken feed lava, occasional hornblende crystals, 1% dissemin -	No.  235. 0 - 244. 5 10% pegmatite, both greenish-yellow and white angular to rounded feldspar phenocrysts up to 1/2", scarcely detectable radioactivity  244. 5 - 249. 5 gneissosity at 45° - 60° to C. A., brecciation along gneissosity, slight hematization, considerable granitization, very slight radioactivity  249. 5 - 253. 0 white and greenish-yellow feldspar phenocrysts up to 1/2", broken and elongated along gneissosity at 65° to C. A., very slight radioactivity  253. 0 - 260. 0 50% pegmatite injections, porphyritic in places, gneissosity at  65° to C. A., some brecciation of feldspar phenocrysts, some greenish-yellow staining of feldspars, slight hematization, very slight radioactivity in places  260. 0 - 270. 5 porphyritic, feldspars up to 1", broken in places, gneissosity in places at 65° to C. A.  0. 5 425. 0 Quartz-feldspar-biotite porphyry. Feldspar phenocrysts up to 1 1/2", in places resembling chicken feed lava, occasional hornblende crystals, 1% dissemin - ated pyrite throughtout	Description of Core    To   Description of Core   Prom   Prom   Prom	235. 0 - 244. 5 10% pegmatite, both greenish-yellow and white angular to rounded feldspar phenocrysts up to 1/2", scarcely detectable radioactivity  244. 5 - 249. 5 gneissosity at 45° - 60° to C. A., brecciation along gneissosity, slight hematization, considerable granitization, very slight radioactivity  249. 5 - 253. 0 white and greenish-yellow feldspar phenocrysts up to 1/2", broken and elongated along gneissosity at 65° to C. A., very slight radioactivity  253. 0 - 260. 0 50% pegmatite injections, porphyritic in places, gneissosity at 65° to C. A., some brecciation of feldspar phenocrysts, some greenish-yellow staining of feldspars, slight hematization, very slight radioactivity in places 260. 0 - 270. 5 porphyritic, feldspars up to 1", broken in places, gneissosity in places at 65° to C. A.  9. 5 425. 0 Quartz-feldspar-biotite porphyry. Feldspar phenocrysts up to 1 1/2", in places resembling chicken feed lava, occasional hornblende crystals, 1% dissemin - 9846 276. 0 281. 0	Description of Core    Sample No.   From   To	Description of Core    Sample No.   From   To   Width   Core	Description of Core    Sample No.   From   To   Width   Co   N/2	Description of Core    Sample No.   From To   Width   Ca   Mi   Ca	Description of Core    Sample No.   From   To   Width   Co. N.   CORE ASSAYS   CORE AS	Description of Core    Sample   From   To   Width   Cu   N;   CORE ASSAYS   Up to 1/2   Up



MCINTYRI	
ORCUPINE MINES LIMIT	ED.

Property	New S	ienator Rou	ıyn Option, 1	4. E. Alberta	PORCUPINE MINES LIM
Location				<b>-</b>	
Claim No					
		Surveys			
Α	\t	Dip	Bearing		
				·	

Hole No.	68 - 14	Sheet No
		·
Date Started		Completed
Core Logged by		
Date		
Elevation	·	Datum
	Co-ordinate	s of Collar
North		·
Fast		•

				FOO'	TAGE		, <u></u>			,		-
From	To	Description of Core	Sample No.	From	To	Width	CORE ASSAYS					
		feldspars which appear to be of two different ages, 1% pyrite throughout					·	and the second s				
		345. 0 - 403. 0 much as preceding but quartz-feldspar section from 364. 0 -										
		366. 0 no radioactivity but trace molybdenite, chalcopyrite			,							
		403.0 - 404.5 scarcely detectable radioactivity			1.							
		404.5 - 425.0 fairly massive, no radioactivity										
425.0		End of Hole								,		
					· · · · · · · · · · · · · · · · · · ·							
						. ,				•		
										-		
				<u> </u>					•			
	*											
**************************************								1				
					-							

MCINTYRE
PORCUPINE MINES LIMITED

Property	N	W	Se.	nate	1	Oį	1	O	A,	H.	E.	All	er	ta	_
				. •											

Location Small Lake, 1 1/4 miles N. W. of Cherry Lake

Claim No.

Location of Core Left at drill site

Surveys

At Dip Bearing

Cellar -46° 090° (due East)

280° -45° (corrected for capillarity)

480° -41° ( E " " " " )

Hole No	69-1	Sheet No
Length of Ho	ole 482.0	
	January 11, 19	
	by W. H. T	
Date J	muary 17, 1969	
Elevation	Surface	Datum
		nates of Collar
North	2 + 63	Little Lake Grid
Bears	1 + 00 W	THERE THE FALLS

CORE ASSAYS					

Property	New	Senator	Option,	N.E.	Alberta
Location					· · · · · · · · · · · · · · · · · · ·
Claim No.	:				
		Sur			
	At	Di	D	Bear	inσ

McIN	1TZ	RE
PORCUPINE	MINES	LIMITED

Hole No.	69-1	Sheet No. 2
Length of Hole	·	·
Date Started	·	Completed
Core Logged by		
Date		
Elevation		Datum
	Co-ordinate:	s of Collar
North	·	

	From	To	Description of Core	Sample	FOOTAGE		Width		COR	CORE ASSAYS		
			Description of core	No.	From	То	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	U308		D MOONING		
			137. 0-156. 5 feldspar phenocrysts up to 1" in diameter, occasional trace									
	'	,	melybdenite, pyrite				,					
			156. 5-177. 6 up to 20% quarts-feldspar-biolite gasies with gasiesosity at 45° to									
		r	line of hole, traces molybdenits, pyrite									
			177. 0-190. 0 partly pegmatitic, slight spotty radioactivity	-					,			
	190.0	238.0	Quarts - Feldspar - Bietite Gaeise									
			190. 0-194. 0 gueissosity at 60° to the line of hole, slight radioactivity in local,									
_,			very limited, spots									
			194. 6-200. 6 increase in radioactivity	9730	196.0	200.0	4.6	0. 03			,	
			200. 0-219. 0 slight gasissosity at 50°-65° to line of hole, traces pyrite, local									
		, <u>.</u> .	pegmatite inclusions									
	•		219. 0-252. 0 5% pegmatite intrusions, very faint radioactivity, up to 2% pyrite									
			292.0-234.0 slight radioactivity, mainly pagmatite with hematite stain on									
	•		<del>Zeldpara</del>	9731	232.0	2 3 <b>4.</b> 0	2.0	0. <b>0</b> Z				
			234. 0-236. 0 50% pegmatite									
	238.0	298.5	Degmatite									
					<u> </u>							

Property New Senator Option, N. E. Alberta

Location of Core Surveys

Dip

At

Bearing

MCIN	TY	RE
DODCLIDING	MINIES I	TRATIFICATION

McIN	ITYRE
PORCLIPINE	MINES LIMITED

Hole No	69-1	Sheet No
Length of Hole		
Date Started		Completed
Core Logged by		
Date		
Elevation		Datum
		tes of Collar
North		

From To		To Description of Core	Sample	FOO'	TAGE	Width	-		CORE ASSAYS					
		20301194011 01 0010	No.	From	То	***************************************	U308	M <sub>0</sub> S <sub>2</sub>						
		238.0-243.0 slightly radioactive, hematite stained feldspars	9732	238.6	243.0	5.0	0.01							
,		263. 0-251. 8 still hematite stain but no radioactivity												
		251. 0-256. 5 some undigested quartz-feldepar-biotite gnaiss, no radioactivity												
 		256. 5-276. 0 varies from coarse grained to fine grained, some sections												
		porphyritic, hemstite stain on feldspure but no radioactivity												
 		276. 0-298. 5 feldspars with slight hematite stain but generally noradioactivity												
		4" of slight radionetivity around 288. 5. Caelsnosity at 60° to line of hole								·		•		
 298. 5	315.5	Quarts-Feldspar-Blotite Cosiss												
 		298. 5-300. O no radioactivity												
, ,		306. 6-362. 5 pagmatite dyke, slight radioactivity in places, possibly traces												
		melybdenite	9733	300. 0	302.5	2.5	0.04	0.06	·					
		302. 5-307. 5 slight to moderate radioactivity, 50% pagmatite, possibly traces						-	,					
		molybdenite, brecciated	9734	302.5	307. 5	5.0	0.06	0.06						
		307. 5-315. 5 mainly pogmatite. Quartz-rich section from 309. 5 to 313. 0 which					,							
		could be metamorphosed quartaite												
 315.5	337.0	Pegmatite		,							•	-		
٠, ٠														
 	• .			· · · · · · · ·	·	L	<u></u>	-l	<b></b>		L	L		

New	Senator	Option,	N. E. All	erta
·				
Core				
	Surv	eys		
At			Bearing	
	Core	Core Surv	Core Surveys	Core Surveys

M	IN	TY	RE
PORCI	PINE N	AINES	LIMITED

Hole No.	69-1	Sheet No
Length of Hole	<u> </u>	·
Date Started		Completed
Core Logged by	'	·
		Datum
		tes of Collar
North		

E.	om	То	To Description of Core		FOOTAGE		Width	***		CORE ASSAYS				
		10	Description of core	Sample No.		То	Width	U <sub>3</sub> O <sub>0</sub>		CORE				
		· -	315. 5-337. 0 20% quartz-feldspar-biotite gneiss, no radioactivity. Slight			•								
			gaciscosity at 55° to the line of bole		,									
33	7.0 3	58. 0	Fault zone-mainly bracciated quartz-feldspar-biotite gaeins, 5% regmatite											
			337. 0-341. 5 greanish tinged bracciated feldepars, no radioactivity					***						
			341. 5-342. 5 red mud, no radioactivity				,			,		-		
,			342. 5-358. 0 occasional minor bematite stain on feldspars which are often											
-			fractured. Fracture with elight radioactivity around 357.5'			•								
35	8.0	0.582	Quarte-feldspar-biotite gaeics			***************************************								
		<u>,</u>	358. 0-384. 5 gnoiseosity at/6' to the line of hole, 35% pegmatite injections, ap											
			radioactivity											
			399. 0-405. O occasional large feldspar phenocrysts up to 3/4", 20% pegmatite				<u></u>							
			no radioactivity				,							
			405.0-424.0 bistits rich, quartz poer, traces pyrite, no radioactivity.											
			gueissosity at 55° to the line of hole											
		·-	424.0 - 465.0 occasionally porphyritic, sometimes gaelesone at 60° to the line	į.										
									•					

#### **EXPLORATION DEPARTMENT** Property New Senator Option, R. S. Alberta

Claim No.

Surveys

Dip

Bearing

Location

Location of Core

At

McIN	1TY	RE
ORCUPINE	MINES	LIMITED

MCIN	1T2	$\mathbf{R}$	$\mathbf{E}$
DODOTIDINE	MINIEC	T T3/1	men

Hole No	69-1	Sheet No.
Length of He	ole	
Date Started.		Completed
Core Logged	by	***************************************
Date	·	
Elevation		Datum
	Co-ordina	tes of Collar
North		
East		

 	<del> </del>	<u> </u>							<del></del>			<del>j</del>				···	
From	То			Description of	Core			Sample	FOOTAGE		Width	th U308 CORE ASSAYS					
		·			<del></del>			No.	From	То		*		·			
 		of hole, very s	light radioactivity	r on local f	ractores												
		445.0-455.0 a	i balore			·											
		455.0-460.0 s)	light radioactivity		١.			9735	455. 0	460.0	5.0	0. 03					
		460.0-465.0 st	light hematite ctal	o on feldey	ars, very d	light radioactic	ilty.										
		j	55° to the line of														
		465. 0-492. 0 m	o radicactivilty				,					,					
	482.0	End of Hole								•							
•	*			icians.				,						,			
						-											
		Sample No.	Footage	Width	U+On %												<i>j</i> .
		9736	280. 0-290. 0	10.0	0.01		,										
		9737	300.0-310.0	10.0"	0.04												
		9733	320.0-330.0	10.0	0.04												
											, , , , , , , , , , , , , , , , , , , ,						
							<del></del>										
				•													· · · · ·
							:				,						
				, ;													,
 	<del></del>									h		•			<u> </u>		

Property New Senator Rouyn Option, NE Alberta
Location Approximately 1 1/4 miles NW of Cherry Lake

Claim	No

Location of Core North shore of Small Lake

-45\*

At

Collar

450

Surveys Dip I

Bearing

090° (due East)

-39° (corrected for capillarity)

MCINTYRE
PORCUPINE MINES LIMITED

" AX" Core

#### DIAMOND DRILL LOG

Hole No.	69 - 2	Sheet No.
and the second s		·
Date Started	January 19, 1969	Completed Fan 22 1969
Core Logged b	y W.H. Thorpe	
Elevation	Surface	Datum
	Co-ordinates of Co	ollar
North £	Surface 3 + 33 )Sm	all Lake Grid
Fra.	1 + 50 W 1	_

FOOTAGE

	From	To	Description of Core	Sample	-00	10011102		L	•	CORE ASSAYS				
			Description of Core	No.	From	То	Witti	U308	MoSz	CORE	ASSAIS			
	0.0	4.0	CASING					. ,						
	4.0	59. 5	Pink biotite granite, traces pyrite throughout									,	,	
•	ļ		4.0 - 24.0 massive, no radicactivity								<u> </u>			
<b> </b>	-	<u> </u>	24.0 - 46.0 occasional minor fracture at 55° to the line of hole no radioactivit	<u> </u>				-		<u></u>	<u> </u>			
	ļ		46. 0 47. 0 lost core			-								
<u> </u>	\$9.5	320.5	Quartz-feldspar-biotite gneiss, traces pyrite throughout	,						<u> </u>			· ·	
			59.5 - 66.2 mainly quarts-biotite, considerably folded and contorted, no radio	acvity			ļ				<u> </u>			
			66.2 - 82.0 50% pegmatite, no radicactivity											
			82.0 - 84.5 biotite rich, slightly radioactive	9739	82.0	84. 5	2.5	0.04				<u> </u>		
-			84. 5 - 89. 0 biotite rich sections but only very slight radioactivity in places	•									. '	
			89.0 - 93.0 biotite rich, elight radioactivity	9740	89.0	93.0	4.0	0. 03						
			93. 0 - 106. 8 30% pegmatite				ļ							
	<u> </u>	-	106. 0 - 125. 0 some quartz-rich sections very alight radioactivity onlocal				ļ							
			fractures local hematite stain								<u> </u>			
<del></del>			125.0 - 149.0 20% pegmatite, very slight radioactivity in places, very minor					,						
1					1					1 .	, ,			

Property	New	Senator	Rouyn	Option,	N. E.	Alberta	
Location			·				
Location	of Cor	re			•	*	

Property New De	Bator Rouyi	t Option,	N. S.	Alberta
Location	•			
Claim No.				
Location of Core				
	Surveys			
At	Dip	Bearin	g	
				·

Hole No. 69-2	Sheet No. 2
	<del></del>
Date Started	Completed
Core Logged by	**
Date	······································
Elevation	Datum
Co-ordi	nates of Collar
North	······································
East	

	From	To	Description of Core	Sample FOOTAGE W		GE Width		34-0	CORE ASSAYS				
				No.	From	To	***************************************	<b>U3U8</b>	MoS <sub>2</sub>		,		
			local hematite stain, some quartz rich sections, no radioactivity										
-	,		149/0 - 161.0 gneissosity at 50° to the line of hole										
			161.0 - 164.0 slight radioactivity, traces pyrite, molybdenite	9741	161.0	164.0	3. 0	0.03					
			164.0 - 181.0 porphyritic in places, fairly massive										
		***	181.0 - 186.0 traces pyrite throughout										
			186.0 - 187.0 slight radioactivity	9742	186. 0	187. 0	1.0	0.03	-		·		
			187.0 - 195.0 biotite rich in places, gneissosity at 55° - 60° to core axis						·				
	,		195.0 - 196.0 slight radioactivity	9743	195. 0	196. 0	1.0	0.02				,	
			196.0 - 198.0 biotite rich, very slight radioactivity		, .								, ,
			198.0 - 206.5 biotite rich, gneissesity at 50° to core axis							-			
			206. 5 - 207. 5 slight radioactivity	9744	206. 5	207. 5	1.0	0. 02			,		
			207. 5 - 214. 0 gneisoobity at 45° to core axis										
			214.0 - 219.0 slightly brecciated, slight to moderate radioactivity	9745	214.0	219.0	5. 0	0. 02					
			219.0 - 221.0 gneissosity at 50° to core axis, ao radioactivity										
			221.0 - 223.5 slight to moderate radioactivity	9746	221.0	223.5	2.5	0.04					
			223.5 - 237.5 gneissosity at 60° to core axis, very slight radioactivity in										
			places										
			237.5 - 240.0 slight radioactivity in places	9747	237.5	240.0	2.5	0.01					

MCIN	ITYRE	ì
POPCLIDING	MINER LIMITE	_

New Senator	r Option,	N. E.	Alber
			· 
<b>:</b>			
Surveys			
Dip	Bearin	g	
	Surveys Dip	Surveys Dip Bearin	Surveys

Hole No.	69-2	Sheet No. 3
Length of Hol	e	
Date Started		Completed
Core Logged b	y	
		Datum
	Co-ordin	ates of Collar
North		,
East		

	From	To	Description of Core	Sample	FOOTAGE		Width	U <sub>3</sub> 0 8	CODE ASSAUS	CORE ASSAYS		
				No.	From	То	Width	%	CORE ASSATS			
	•		240.0 - 252.0 Motile rich, gneissosity at 60° to core axis, no radioactivity									
,			252. 0 - 255. 0 slight radioactivity	9748	252.0	255. 0	3. 0	0.02				
			255.0 - 257.5 slight to moderate radioactivity	9749	255.0	257. 5	2.5	0. 9 1				
			257.5 - 270.5 40% pegmatite, gneissosity at 60° to core axis, no radioactivity									
			270. 5 - 272. 5 pegmatite section, slight radioactivity	9750	270.5	272.5	2.0	0. 02				
			272. 5 - 287. 5 mainly pegmatite				•					
	4		287. 5 - 290. 0 slight radioactivity, mainly pegmatite	11801	287. 5	290.0	2.5	0.03				
			299.0 - 295.0 elight to moderate radioactivity, mainly permatite with biotite		,							
			rich sections									
			295.0 - 298.5 slight radioactivity, gaelesosity at 65° to core axis	11803	295.	298. 5	3.5	0.03				
			298.5 - 302.0 ao radioactivity	11804	298. 5	302.0	3. 5	0.01				
			302.0 - 305.0 slight to moderate radioactivity	11605	302.0	305.0	3.0	0.01				
			305.0 - 314.0 very alight radioactivity in places									
			314.0 - 317.5 biotite rich, gneissosity at 65° to core axis, no radioactivity									
	·	,	317.5 - 320.5 5% pegmatite, slightly radioactive	11808	317. 5	320. 5	3. 0	0.02				
3	20.5	369.0	Pegmatite		·							
	,		320.5 - 331.5 10% quartz-feldspar-biotite gneiss, no radioactivity									
			331.5 - 332.5 slightly radioactive	11809	331. 5	332.5	1.0	0.04				

Surveys Dip

Bearing

Location of Core

At

MCINTYR	${f E}$
PORCUPINE MINES LIMIT	CED

	MCINTY				
Property	New Senator Rouyn Option, N. E. Alberta	PORCUPINE MINES I			
Location					
Claim No.					

Hole No.	69-2	Sheet No.	4	
Length of Hole		·		
Date Started		Completed		
Core Logged by			· .	•. •
Elevation		Datum		
• *	Co-ordina	tes of Collar		
North				

							I					
From To	То	Description of Core	Sample No.			Width	CORE ASSAYS					
 				From	To							
, .		332-5 - 351. 0 20% quarts - feldspar-biotite gueiss, some brecciation along							Í			
		gneissosity at 60° to core axis, very slight radioactivity in local spots					• .					
		351.0 - 369.0 50% quartz-feldspar-biotite gneiss, very slight radioactivity in										
		places, much brecciation along gneissosity at 65° to core.										
 369.0	461.0	Quartz-feldspar-biotite gneiss										,
		369.0 - 389.0 10% pegmatite, less brecciated than preceding, very slight										
 ,		radioactivity in places										
,		389.0 - 469.0 15% pegmatite, slight brecciation along gneissosity at 55% - 65%	6									
	:	to core axis, very slight radioactivity in places										
		309. 0 - 429. 0 gaeissosity at 65° to core axis, considerable brecciation in						,				
		places, very slight occasional radioactivity.										
		429.0 - 434.0 gaeissosity at 60° to core axis, no radioactivity.										
 · ·		434. 0 - 435. 5 slight radioactivity	118. 10	434. (	435.	1.5	Tr			·		
 , '		435. 5 - 448. 0 slightly brecciated in places, very slight local radioactivity.						-				r
	_	448.0 - 461.0 becoming porphyritic, no radioactivity										
461.0		End of hole.	, .									
 									. ,			

MCINTYR	E
DODOLIDINE MINES TIME	

nator Option,	N. E.	Alberta
Surveys		
Dip	Beari	ng
	Surveys	•

M	PIN	$\mathbf{T}$	$\mathbf{Y}$	$\mathbf{R}$	E
PORCI	IDINE	MINE	- P	TMT	TET

Hole No.	69-2	Sheet No. 5
		Completed
Core Logged by	·	
Date		•
Elevation		Datum
	Co-ordin	ates of Collar
North		
Fast	· ·	

		1						·				·		 		• •	
	From	To	Description of Core		Sample	FOOTAGE		Width		 CORE	ASSAYS	<del></del>					
					Description	01 0010			Sample No.	From	То			CORE	ADSAIS		
	·				SLUDGES	AMPLES	•										
									. "								
		~	Sample No.	Footage	Width		U308%			,							
	·																
	.1		11806	210. 0-220. 0	10.0		0. 03						· -				
			11807	220. 0-230. 0	10.0		0. 02							,			
			11811	310.0-320.0	10.0		0. 03	*								,	
					, <del>1</del>												
								·									
,											,						
					,		,										
					*.		4										
		<del> </del>				•											

New Senator Option, R. E. Alberta

K. W. of Cherry Lake

McIN	<b>1T</b> 3	RE
PORCUPINE	MINES	LIMITED

Р	roperty.		·		Man or with		
•		Same 1	Lake.	11	/4 m	Han !	X

Claim No.

Location of Core morth shore of Small Lake Surveys

Bearing
090 (due East) Dip Collar

No dip tests taken-machine broke down at 142. Giest

#### DIAMOND DRILL LOG

Hole No.	69-3	Sheet No.
Length of	Hole 342. O feet	
Data Stanta	, January 25, 1969	Completed Jan 27, 1969
Core Logge Date	d by W. H. Thorp January 26-27 3969	• 
<b>F</b> 1 •	,-	Datum
North	Co-ordinates of C	
Fast	0 + 00 (on Base Line)	) Small Lake Grid

"AX" Core

From	To	Description of Core	Sample	FOOTAGE		Width	CORE ASSAYS					
0.0			No.	From	To							
0.0	8.0	CASING										
8.0	39. S	Pink biotite gracite										
		8. 0-24. 0 pagmatitic in places, no radioactivity			4							
		24. 6-38. 5 includes minor amount of undigeoted quarts-feldspar-bictite gasiss										
		no radioactivity										
38. 5	51.5	Quarta-feldspar-biotite gneins. In contact at 48° to the line of hole										<del> </del>
		38. 5-44. 0 5% pagmatite, gaclesocity at 40° to the line of bale, as radicactivit	<b>3</b>									
		44.0 - 51.5 fairly massive, no radioactivity							<b></b>			
515	63.0	Pegmatite, so radioactivity										
63. 0	342.0	Quarts-Feldspar-Biotite Gastes										
		63. 0-89. 5 slight gasissosity at 55" to the line of hole, no radioactivity										
		80. 5-97. 5 considerable granitisation, no radioactivity										
		97. 5-98. 5 very slight radicactivity, perphyritic texture and semewhat breeclas	ed									
		98. 5-180. 8 feldsyst phenocrysts up to 1/2", no radioactivity										
		100.6-124.6 guels socity at 60° to the line of hole, very slight radioactivity in			,					-		
		places, come brecciation along gardesosity										
										, ,		,

Property New Senator Option, N. E. Alberta

Claim No. Location of Core Surveys

Dip

At

Bearing

7/	[CINTYR]	
TAT	LATIA T T LO	ينا
<b>DOD</b>	CHIDANIE PATRICIC A 1741M	

MCINTYRE
ODCIDINE MINES LIMITED

Hole No.	69-3	Sheet No2
Length of Hole	<b>*</b> ·	
		Completed
Core Logged by		
Date		
Elevation		Datum
	Co-ordinates	of Collar
North		·
East		······································

	<b>-</b>										
Fro	m To	Description of Core	Sample No.	ple FOOTAGE		Width	** *	4.0	CORE ASSAYS		
		Description of core		From	To		0308	M052			
		124. 0-129. 0 slight to moderate radioactivity, 10% pegmatite, trace molybdenite	11812	124.0	129.0	5.0	0.02	tr			
		or graphite									
,		129. 6-134. C slight to moderate radioactivity, gnelssesity at 50° to the line of									
		bble biotite rich, traces molyadonite or graphite	11813	129.6	134.6	5.0	0.03	0, 02			
		134. 0-139. 0 as before	11814	134.0	139.0	5.0	9. 02	0.01			
		139. 0-142. 5 slight radioactivity-in places only									
		142. 5-162. 5 gaels soulty at 50° to the line of hole slight radioactivity from									
		151. 5 to 152. 5								1.	
		162. 0-162. 0 5-10% pegmatite, slight radioactivity in places									
		182.0-266.0 elight gneissosity at 40° to the line of hole, 20% pegmatite, very									
		slight radicactivity in places 206, 0-213, 0 slight guels costly at 65° to the line									
		of hole, nor radioactivity, 20% pegmatite									
		213.0-213.0 slight radioactivity, some brecciation, slight hematization of	11815	213.0	218.0	5. 0	0.04	0.03		•	
		feldspars, trace molybdenits or graphite									
		218. 0-242. 5 biotite rich, no radioactivity, guelsecolty at 55° to the line of bel-	).								
		242. 5-243. 5 pegmatite, brecciated, moderate radioactivity	11816	242.5	243.5	1.′0	0.05				
				•	d	<del></del>			<u> </u>		

MCINTYRE

Property	New	Senator	Option, N	l. E. Alberta
= :				···
		Surve	eys	*
*	At	Dip	F	Bearing
<u> </u>				

Hole No.	69-3	Sheet No3
Length of Hole	·	·
		Completed
Core Logged by		·
Date	· · ·	<u></u>
		Datum'
•	Co-ordinates	of Collar
North		****
_		

	From	To	To		Sample	FOOTAGE		Width	CORE A			ASSAVS						
			Description of Core	No.	From	To				TOTAL INDURED								
,	·	259.0	278. 5 gaeissos	ity at 50° -70° to co.	e axis, bre	clated from	274.5 to	275.2 bu	1 20									
				and hometication														
			278. 5-303. 0 61	ist bematization in	dacas, brec	ciated from	301. 0 to	02.0										
			1	radioactivity. Gourt														
			1															
			303. 0-312. 0 pronounced hematite stain, some brecciation along gasissosity at 60° to the line of hole, no radioactivity															
			312. 0-325. 0 br	erviated feldspan pla	mocrysts in	piaces alon	gedeisso:	ity at										
			312.0-325.9 brecciated feldspar phenocrypts in places along gneisnostry at 60° to the line of hole, very slight radioactivity over a few inches															
			325. 0-342. 0 5-10% pegmatite, more massive and less braclated than preceding															
				daces at 60° to core									,					
			porphyritic tax			` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `												
3	342.0		Ind of Hole															-
				<u> Alego</u>	Sample	***************************************				-								
			Sample No.	Footage	Width	U102 %				,			,					
			11817	320. 0-330. 0	10.0	**		i i										
				,			/											
						, 17		, , , , , , , , , , , , , , , , , , , ,										,
		,										,						

FINA	ATION	DEPARTMENT	4
MEST COM	MULHIA	DEPAR MEN	

McIN	1T	Y	R]	-
DODGLIDINE	MINIT	- T	INSTR	e r

	<del></del>
	<b>4</b>
Preperty New Senator Option	
Cherry Lake Alberta	. ,

Location of Core Cherry Lake

Surveys Dip Bearing Surface East (corrected for capillarity) 250 feet

# DIAMOND DRILL LOG

Hole No.	ISO-68-1	Sheet No.	<b>1</b>
Length of Hole	447 feet		
Date Started F	ebruary 23rd,	1968 Completed	Feb. 27/68
Core Logged by	Gordon Bir	<b>d</b> //	
Date F	ebruary 24th -	February 27th,	1968
Elevation		Datum	
	Co-ordinate	s of Collar	
XHKPK	1 + 005outh		
Fast	on Rase	Line	

"AX" Core

	F	w-	Description of Core	Sample	FOOT	rage	Width	% U3 (	 ∩o	CORE ASSAYS			
	From	To	Description of Core	No.	From	To		03 (	ч <del>о</del>	· 10 %			
	0	7	Casing		·								
	7. 0	12.0	Grey biotite granite gneiss, medium grained foliated at about 45° to the line										
	·		of hole. At 10.0 feet some feldspars become Fe - stained. Numberous frac-										
			tures at any angle to line of hole are present. Some have epidote or pyrophy-						, ,				
			littic altertions on the fracture faces.					·					
	12.0	17.0	Granite gneiss as above with strongly Fe-stained feldspars.	9501	13.5	14.5	1.0	0.005		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			2
	17.0	38.0	Augen gneiss, medium grained, grey to pink color.	9502	16.0	17.0	1.0	Tr.	\$/4. P				
			Most color due to Fe-stain on feldspars. Rock has been brecciated in places	9503	36.2	43.0	1.0	Tr.		1.4 N			
			and there are numberous fractures filled with epidote (?).			٠.							
		-	26.0 - 27.0 Breccia zone.					·					•
	38.0	54.6	Pink granite gneiss, foliated about 45° to the line of hole. Some feldspar										•
			augen. Rock is brecciated in places. Some zones strongly hematite stained.								· · · · · ·		
	,		45.0 - 47.0 - Strong hematite staining.	·			-						3
,			48.0 - 50.0 Strong hematite staining.										
	54.6	55 <b>.</b> 6	Ground core.								-		
,	56. <b>6</b>	96.0	Brecciated granite gneiss. Some pegmatite material, also brecciated. Most						·				3.40
			of feldspar is hematite stained giving rock a dark red color.										
	·		67.0 - Pegmatite stringer.		<u> </u>								

Property New Senator Option

Bearing

Location of Core Surveys

At

Dip

MCIN	1	T3	7	$\mathbf{R}$	Æ
	_		÷		

McIN	ITYR.
PORCUPINE	MINES LIMIT

Hole No. NSC	-68-1	Sheet No	2
Length of Hole			
Date Started		Completed	
Core Logged by	•••••		
Date			·
Elevation		Datum	
	Co-ordinates of Co	ollar	
North			
East			

<del></del>	· · · · · · · · · · · · · · · · · · ·				FOOTAGE					CORE ASSAYS		West N	
	From	To	Description of Core	Sample No.			Width						
					From	То		4308	. · · · · · · · · · · · · · · · · · · ·		· · ·	· · · · · · · · · · · · · · · · · · ·	<u> </u>
			75.0 Basic inclusion.										
			80.0 - 96.0 Strongly brecciated in places.										
	96.0	117	Grey to pink granite gneiss with foliation about 45° to the line of hole. Num-					ļ					
			berous feldspar augen in finer grained ground mass. Some feldspars are					ļ					
			hematite stained. There is a prominent set of fractures at 20° to the line of	· ·							. :		
			hole.										
	117	119	Granite gneiss, strongly hematite stained and brecciated - Radio activity										
			slightly above background.	9505	117	119.0	2.0	0.053	1		1.0		
	119	168	Grey to pink granite gneiss as before.										7 390
		·	126.6 - 128.6 Ground core	9506	128.8	129.	3 1.0	0.02		1 : 1, .			
			135, 0 - 135, 5 - Pegmatite stringer										
	-		138.6 - 145.4 Pink granite gneiss, somewhat brecciated and hematite stained	9507	<b>157.</b> 3	158.5	1.2	0.01					
•	168.0	427	Brecciated granite gneiss. Strongly hematite stained. Some pegmatitic	9508	168.2	169.2	1.0	Tr.					
•			material also brecciated. Brecciation is about 45° to the line of hole, and						<u> </u>				¥.
			probably parallel to the line of hole. Some hematite filled fractures occur at										1
			20° to parallel to the line of hole. Some zones are stained green - probably										
			by reduction of Fe +3 to Fe +2. Some epidote and chlorite occurs in some	9509	224.4	225.4	1.0	Nil.				1	
			strongly brecciated zones. Some small, acicular tramatitic or	9510	236.8	238.8	2.0	Tr.					

Property	Ne	w Senator	Option	
Location			<del>-</del>	
Claim No				
Location of	Core			
	4	Surveys		
A	Lt 🔻 🔌	Dip	Bearing	

MCIN	1T2	RE
PORCUPINE	MINES	LIMITED

Hole No.	N. S. C	-68 <b>-1</b>	Shee	t No	3	<u></u>
Length of Hole						
Date Started			Com	pleted		
Core Logged by						
Date						
Elevation			Datu	m		
	Co-c	ordinates of	Collar			
North				· · · · · ·		
Fast				1.22		

		m-	Description of Core	Sample	FOOTAGE		Width	₩		CORE ASSAYS		
FI	rom	To		No.	From	To		U3 08				,
			actinolitic amphibole is present.	9511	247.3	248.3	2.0	0.01				
				9512	306.0	307.5	1.5	Nil				
			345 - 347 Rock is 25-30% epidote, strongly brecciated and annealed with loss	9513	346.0	347.0	1.0	Tr				3.7
			of gneissdse texture.									
-			400 - 412 - More siliceous facies of the breccia, up to 50% quartz. Strongly	9514	382.2	383.2	1.0	Tr.				,
			hematite stained.					•				
42	7 .	447	Augen gneiss, somewhat sheared but not brecciated good foliation at 45°					487.3				
			to the line of hole. Fractures at 15 - 45° to the line of holeone prominent		3.3	2	11,1,1 +1,1,7					1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			set is about 30° to the line of hole. Some of the lower angler fractures are									
	·		filled with hematite.									
			440 - 445 Strongly hematite stained zone. Epidote common in veinlets and				,					
			fractures. Some green amphiboles are present. Biotite is common in less					1 1				
	•		sheared sections. Feldspar porphroblasts occur up to 2 1/2 inches in						:			
•			diameter. There are fractured and stained with hematite along fracture plane	s.			•					
-			Minute amounts of yein quartz.									
			•									
44	7. 0		End of hole.									
												1,500 pg

£27.2									
The same was two metrics and	ATTO MINIS		2000 M - 200 M 12000	KINDS SEED HORSE	A 15				Я
1 7 1 1 1	# B 500	Æ	MOIT	R A R H B	69A 18	CH TH T	$\mathbf{A} \mathbf{A}$	E-o RAR	á
	A STATE OF THE	N.X	N 13 (N A) 18 (N	以为给 经多点	C)A E	rex PI B	dM		ı
~	W-0' 10 12	A-4500	L D 12 VC-1/C/ M	Charles the St					

MCINTYR	E
DODCHDINE MINES LIMIT	ED

Property	New Senator Rouyn Option
	Cherry Lake Alberta
CI : N	

Location of Core

Surveys Dip Bearing At Surface -45° ...135°.....

McIV	1T2	RE
PORCUPINE	MINES	LIMITE

Core

Hole No	NSR-68-2	Sheet No. 1
Length of	Hole 163 feet	
	d March 1st, 1968	Completed March 2nd
Core Logge	ed by Gordon Bird	
	March 2nd, 196	
Elevation	Surface	Datum
	Co-ordinates of (	Collar
North	0 + 00 North 68 ft. sou	theast along line
Fast	hearing 135°	

	From	The state of the s	Description of Core	Sample	FOOT	<b>FAGE</b>	Width	%		CORE A	SSAYS		
	rrom	То	Description of Core	No.	From	To		<b>U</b> 3	0 8				
	0	3	Casing										
1	3	163	Granitic gneiss composed of quartz, K-Feldspar, plagioclose, and biotite,									· .	
			with accessory epidote. Some chlorite and calcite are present on fracture							7.1			
			faces. Some small veinlets of quartz. There is a good foliation at about 80°		1,1 17			\$14.7 					
			to the line of hole. Three fracture systems are present; one at 45° to the	9517	36.0	37.5	1.5	Tr		-2006	•		
:			line of hole, and two conjugate fracture each about 30° to the line of hole	9516	46.0	47.5	1.5	Tr.					
			one extention fractures with little or no alteration on fracture face, other is	hear fra	cture								
			system with calcite, chlorite and slickensides present on or in the fracture.	9515	50.6	52.6	2.0	Tr.	<b>.</b>				
			There are a few fractures subparallel to the line of hole. Chlorite is also	9518	89.0	90.0	1.0	Tr.	<b>9.</b>	<b>(332)25</b>			
			common on the fracture faces at 45° to the line of hole. Very weak radio	9519	120.0	121.5	1.5	Tr.	77.	O. M. Park			
			activity is associated with some of the 30° shear fractures. Rock color	9520	100.0	101.0	1.0	Tr.	70.	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · ·		
	·		varies from grey to pink with most of the pink color being associated with	9521	102.0	103.0	1.0	0.005		02000			
			hematite staining of the feldspars.	9522	135.5	136.5	1.0	Tr.	4	-			
				9523	143.2	144.2	1.0	0.006	المالية في				
			15,5 - 20,0 Dark grey biotite rich section.								1		
			31.0 - 76.0 Pink granite gneiss with higher proportion of red stained felds-									1. ,.	
			par.										
			100.0 - 110.0 Dark grey biotite rich augen gneiss, possibly somewhat shear										
												* .	1 1

MCIN	ITYRE
	MAINING TIME

Location		
Claim No.		
Location of Core		
	Surveys	
At	Dip	Bearing

Hole No. NSR-68-2	Sheet No. 2
Length of Hole	
Date Started	Completed
Core Logged by	
Date	
Elevation	Datum
Co-ordinates	of Collar
North	

			Sample	FOO	TAGE	Width	%	0 8	CORE A	LCCAVC		
From	To	Description of Core	Sample No.	From	To	Wiath	U3	0 8	CURE	199W I 9		
		ed.										
		END OF HOLE							***			
						:						
						\						
									Average .			
-							•				twier.	
_				٠.								
											ž.	
												1, 1, 1
						. 24						6.
	,											

MCINTYRE
PORCUPINE MINES LIMITED

Freeerty	New Senator Rouyn Option
	Cherry Lake Alberta
Claim No.	

Location of Core

		Surveys	•
	At	Dip	Bearing
Surf	ace	-45°	120°
250	ft.	-40°	(uncorrected)

Hole No.	NSR-68-3	Sheet No1
Length of Ho	le 457 feet	
Date Started	March 5, 1968	Completed Mar. 8/68
Core Logged b	y Gordon Bird	
	March 8, 1968	
Elevation	Surface	Datum
	Co-ordinates of	f Collar
North	9 + 00 N	
East	4 + 18 E	

From	To	Description of Core	Sample	FOOT	<b>FAGE</b>	Width	%		CORE A	SSAYS		
110111	10		No.	From	То		U <sub>3</sub> 08	3				164 164 164
0	15	Casing			1							
15	29.5	Brecciated granitic gneiss, dark grey with considerable red hematite stain.								,		
		Are some narrow bands of brecciated pegmatitic material. Brecciation and										
		gneissosity trend about 30° to the line of hole. There are three major frac-										
		ture angles - one set of conjugate fractures at 30° to the line of hole. Third			:	٠٠.						
		type of fractures trend 15° to parallel to the line of hole. Grain size of rock										
		varies from f.g. to c. g.						•				
29.5	44.0	Biotite granite gneiss, medium grained, dark grey with some hematite stain										
		on feldspars. Some coarse grained pegmatitic material in brecciated stringers	<b>5.</b>							3 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		39.0 - 44.0 - Hematitic stain more intense ekon elsewhere.										
44.0	104.0	Brecciated biotite granite gneiss, fracturing and foliation as above. Amount										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		of hematite stain and color is variable from dark grey to dark red.	9524	97.5	100.0	2.5	0.02					
		There is some epidote on fracture faces. Some chlorite is present. There are	9525	103.0	104.0	1.0	Tr				+	
i		lenses of coarse grained pegmetitic material.										
		60.0 - 65.0 Brecciated pegmatitic material, hematite stained.					···					
 104	127	Sheared pegmatitic material with some remnant gneissic material-most of										
		rock is coarse grained and hematite stained. Some large dark red feldspar										
		porphyroblasts. in a finer grained groundmass. Epidote and chlorite are							, ,			

Location Claim No.

> Surveys Dip

Bearing

Property New Senator Rouyn Option.

Location of Core

At

MCIN	TT	P	Æ
PORCLIDINE	MINES	IMLT	TED

MCIN	1T	$\mathbf{Y}$	R	$\Xi$
PORCUPINE	MINE	8 LI	MIT	ΕI

	A' 4					79.1 m	
DIA	M	O	ND	DR	11 I		OG
	44 V I						. •

NSR-68-3	Sheet No	2
· · · · · · · · · · · · · · · · · · ·		
	Completed	
	Datum	
Co-ordinates of	Collar	
		Completed

					·			<del></del>							
·	From	To	Description of Core	Sample	F007	FOOTAGE		FOOTAGE		%		CORE	ASSAYS		
				No.	From	To		U 3	<sup>0</sup> 8	<u> </u>					
	•		common and give rock a motted grey-green color. Some of the hematite			* .			A.						
			stained feldspars has altered to a yellow-brown mineral.												
	127	144	Sheared biotite granite-gneiss, dark grey color, medium grained with some					•							
			coarse grained feldspar porphroblasts. Foliation is about 30° to the line of				, ·								
	,		hole. Fractures occur at 30° and parallel to the line of hole. Rock has a										2.3		
			slight reddish color from hematite stain.					•			,				
	144	155	Sheared biotite granite gneiss as above but with less biotite and lighter color.												
			Epidote is present on some fracture faces and in matrix giving rock a green-								*				
	·		ish color in places.		14										
	153	195.5	Sheared biotite granite gneiss as above but with more intense hematite stain	9526	163.0	165.0	2.0	Tr.							
			giving rock a reddish color.												
			169.0 - 170.0 Vein quartz (or sheared quartzite) with some red coloration		ļ										
			from hematite.							. :					
			179.0 - 180.0 As above 169.0 - 170.0				,						ja (1)		
			182.0 - 184.0 " " " "							,			ar ta lea		
			184.0 - 186.5 Brecciated quartz and pegmatitic material with some chlorite												
	<u> </u>		and epidote - coarse grained, light green color.												
·	195.5	197.0	Brecciated Pegmatite.	· .											

Property New Senator Rouyn Option

Surveys Dip

Bearing

Claim No.

Location of Core

At

MCINTYRE
DODOUDEND ACTION TO COME

McII	1T	RE
DODCTIDINE	MINER	LIMITET

Hole No.	NSR-68-3	Sheet No	3
Length of Hole			
Date Started		Completed	
		·	
Date		•	· · · · · · · · · · · · · · · · · · ·
Elevation		Datum	
	Co-ordinates o	of Collar	
North			
Fast			

**********				Cast									
From To		To Description of Core	Sample	Sample FOOTAGE		Width II C CORE ASSAYS							
riom	10	Description of core	No.	From	To		υ <sub>3</sub> 08	3					
197.0	200.5	Strongly altered gneiss with considerable epidote, vein quartz and talc. Feld-				·			*				
		spars are completely altered to light green mineral. Talc like mineral occurs								:			
		in small veinlets - Rock is light green color, fine grained.								-			
200.5	219.0	Brecciated pegmatite material strongly hematite stained. There is a remnant											
		foliation at 30° to the line of hole in some places.			·								
219.0	235.0	Biotite granite gneiss, sheared but not strongly brecciated. Hematite stain in-							11.20				
		creases toward 235.0 as does the intensity of shearing. 227 - 235 - As above						•					
		but with numberous epidote or talc filled fractures at angles from 30° to para-			<i>.</i>	,		-					
		llel to line of hole.											
235.0	261.0	Brecciated pegmatitic material mixed with remnants of gneiss. Foliation or	9527	257.0	259.0	2.0	Tr				37.3		
		shearing at about 30° to the line of hole. 249.0 - 251.0 - Rock is green color-											
-		ed from presence of large amoun ts epidote, chlorite and talc.	·				·			·.			
		252 - 253 - Jasper vein - ie hematite stained quartz.											
	· .	253 - 255 - Same as 249 - 251.			·. 								
261	281	Sheared brecciated granite gneiss - medium grained. Reddish grey colored	,	,							14 14		
		from hematite stain. Foliation about 30° to the line of hole. Fractures at 30°					-				. 1 1 1		
		and parallel to the line of hole. One quartz filled fracture can be traced con-											
		tinuously for 10 - 12 feet. Large feldspar porphroblasts are common and								Korjeva Lista			

Property New Senator Rouyn Option

Claim No.

Surveys

Dip

Bearing

Location of Core

At

MCIN	ITY	RE
POPCLIDINE	MINES	CHTIMITED

MCINTYRE	
ORCUPINE MINES LIMITED	

•	DI	AA	ON	ND .	DR	ILL	LOG
		<b>~</b> 1'					

Hole No.	N. S. R.	-68-3	Sheet N	o4	
Length of Hole				14 2 14	
Date Started			Complet	ed	
Core Logged by					
Date					
Elevation			Datum		
	Co-or	dinates of Co	llar		
North	<u> </u>				
East					

		m To	Description of Core	Sample	FOOT	rage	Width	%	%		CORE ASSAYS		
	From	10	Description of Core	No.	From To		With	U <sub>3</sub> 0 <sub>8</sub>		CORE	100110		
			several small patches of pegmatite material are present.										
-	281	288	Brecciated pegmatite material as described previously.		ļ								
	288	298.5	Brecciated granite gneiss with some pegmatite material - Some hematite	-	<u> </u>	,							
			stain.										
	298.5	311.0	Basic dyke - extremely hematite stained making it impossible to identify or-	·									
<u> </u>			iginal rock type. Dyke is somewhat brecciated in places and strongly fractur-	9528	303.0	305.0	2.0	Nil					
	·		ed. Hematite stain is post fracturing as it follows fractures and is most in-	9528	306.8	308.3	1.5	Tr	• • • •				
		,	tense closest to fracture.										2.00
	311	320.0	Brecciated granitic gneiss with some pegmatitic material and large feldspar	-									
			porphroblasts.					:					
	320.0	324.6	Brecciated highly altered gneiss, light green in color from presence of con-		·								
			siderable epidote, talc and chlorite. Some quartz veining.					: _=:		·			
	324.6	337.0	Brecciated pegmatite with some remnant gneiss. Very coarse grained, pink								·.		
			in color from presence of weak hematite stain on some feldspars.										
	337	371	Augen gneiss, sheared but not brecciated - some large feldspar porphroblasts					· . ·					***
•			patches of pegmatite. Foliation about 30° to the line of hole. Compositional					•					2 W
			banding becomes more distinct with depth. From 250 feet onword there is goo	d.									. A.
			segregation of mofic and felsic material. Mafic material was largely biotite							**************************************			

Surveys Dip

Bearing

Location of Core

At

MCIN	1 <b>T</b> 3	RE
PORCUPINE	MINES	LIMITED

EAPLORATION DEPARTMENT	MCINTY
.Property New Senator Rouyn Option	PORCUPINE MINES LII
1 robotty	PORCUPINE MINES III

	Hole No	N.S.R.	-68-3	Sheet	No	5
	Length of Hole					
	Date Started			Comp	leted	
	Core Logged by	·				
	Date	· · · · · · · · · · · · · · · · · · ·		···	<del></del>	
	Elevation			Datun	n	
 		Co-o	rdinates of	Collar 🧢		
•	North					
	East					

	1			FOO'	TAGE							
From	То	Description of Core	Sample No.	From	То	Width			CORE	ASSAYS		
		but is now largely chlorite. Hematite staining on the feldspars is common but										
		is not intense. There are some narrow patches of pegmatite material.								.1		
371	405	Brecciated pegmatite with narrow bands of gneiss coarse grained, composed									***	1
		predominantly of quartz. onicrocline-perthite and biotite now altered to			!							
		chlorite. Weak hematite staining.				<u> </u>						
405	457	Biotite granite gneiss, sheared but not brecciated-madium to coarse grained,										, ,
		dark grey in color. Foliation about 20° to the line of hole.					1 60 A					
		421.5 - 424 Pegmatite.	· ,							5 1,55		
		428 - 433 - Chloronitic gneiss, light grey to pink, medium grained poorly					3.1					
		foliated. This rock is similar to some of the pegmatite but is finer grained.							eggi N			
	457	End of hole.										
									, ,			
			-									
									1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M			
											17.0 1.53	
								1 80		200		

## 

Froperty New Senator Rouyn Option
Location Cherry Lake, Alberta
Claim No.

Location of Core Cherry Lake

Surveys

At	Dip	Bearing
Surface	-45°	285 <b>°</b>
250 feet	-38°	uncorrected

## PORCUPINE MINES LIMITED

"Ax" Core

Hole No. NSR-68-4	Sheet No. 1
Lengtikof Hole 460	
Date Started March 18th	Completed March 22nd
Core Logged by Gordon Bird	
Date March 19th, 20th, 21st,	22nd
Elevation Surface	Datum
Co-ordinates of	Collar
North 20 + 78 North	anta de la composición br><del></del>
East 1 + 75 East	

		To	Description of Core	Sample	FOOT	rage	Width	%		CORE ASSAYS		• :	
	From	10	Description of Gore	No.	From	То	WIGH	Ug	0 8% HoSz				
	0	3	Casing							.: , : ; ; ; .			
	3. 0	21.5	Pegmatite, light grey to pink color, coarse grained weakly foliated at about										
			45° to the line of hole. Rock is composed of microcline perthite, biotite &	9530	3.0	5.0	2.0	Nil					
	·		muscovite or phlogopite but altered to chlorite, and quartz. Weak hematite	9531	9.0	11.0	2.0	Nil					<u> </u>
			ftain present in places. Rock may have been weakly sheared.	9532	16.0	17.0	1.0	Nil					
•	21.5	75.0	Granitic gneiss, light to dark grey color, medium grained with some coarse	9533	24.0	25.0	1.0	Tr.					
			grained feldspar porphroblasts.	9534	29.0	30.0	1.0	Tr.		4 14.			
			Good segregation of mofic and felsis material, occasional patches of hematite	9535	37.0	38.0	1.0	Tr.					
			stain. Mafic minerals are biotite, phlogopite and chlorite. Some phlogopite	9536	39.6	40.6	1.0	Tr.					
			is hematite stained and has metallic luster.	9537	70.5	71.5	1.0	Tr.					
	75.0	96.0	Quartz, feldspar + biotite + phlogopite pegmatite, coarse grained, light grey										
			to pink color. Some sections of remnant gneiss are present. Weakly foliated										
		·	at 45° - 50° to the line of hole. Fracture systems are at 45° and suleparall-	9538	75.0	76. 0	1.0	Ni1					
			el to the line of hole.	9539	84.0		2.C	.016	Tr.				
			77.0 - 79.0 Strongly altered rock composed of quartz, epidote (?), Talc or										
		-	perpentine and altered feldspars, probably sheared.	9540	87.0	88.0	1.0;	Nil					
	96.0	152.5	Granitic gneiss - same as 21.5 - 75.0. Some pegmatite bands, some graphic	9541	89.0			Tr.					
			granite. Are traces of chalcopyrite along foliation planes.	9542	97.0			Tr.			1954		
	*						, '				1	.4 * 72	-

<b>MCINTYRE</b>
DODOUDING MINES LIMITED

Property	New Se	nator Rouy	n Option
Location			
Location o	of Core		
		Surveys	
	At	Dip	Bearing

	Hole No	NSR	-68-4			SI	eet No	. 2		
•	Length of	Hole								
	Date Starte	.'					mplete	d		
٠.	Core Logge						, .			
	Date			•••••						
	Elevation					<b>D</b>	: atum		<u> </u>	
			C	o-ordi	nates of	Collar				
	North							-		
	East		<del></del>		· · · · ·	3.5	<u> </u>			

From	To	To Description of Core	Sample	FOO	TAGE	Width	% CORE ASSAYS			ASSAYS			
	10	Description of Core		From	To		U <sub>3</sub> 0 8 M <sub>6</sub> S <sub>2</sub>		Au			in the second of the second o	
			9543	104.5	105.5	1		Tr.					
		110.0 - 112.8 Brecciated pegmatite	9544	107.0	108.0	1.0	-	Tr.	Nil				
		120 - 123 Medium grained graphic granite with some vein quartz.	9545	110.0	112.8	2,8	-	Tr.					
			9546	124.0	125.0	1.0	-	Nil					
		148.0 - 150.0 Pegmatite	·								<u>.</u>	,	
152.5	205.0	Brecciated pegmatite, coarse grained, pink, composed of quartz, feldspar	9549	158.0	160.0	2.0	·Nil	\$ 11	A STATE OF THE STA	- 1444			
		and biotite completely or partially altered to phlogopute and chlorite. Rock is	weakly										
		foliated about 45° to the line of hole.	9550	160-0	161.5	1.5	Nil						
			9551		192.5		Tr.					5	
			9552		205.0		Tr.						
		170 - 173 Granitic gneiss											
		181 - 185 Granitic gneiss											
·	·	185 - 186.5 Fault Gouge - soft light green color-composed of quartz, talc or											
1		serpentine and muscovite. Direction of shearing 45° to the line of hole.				,							
205.0	229.0	Augen Gneiss - light grey, almost white in color with some hematite stained					\						
		patches. Has been sheared and quartz is strong out along foliation planes											
		about 45° to the line of hole. There is no district segregation of mofic and							11.	*			
		felsic material. There are traces of pyrrhotite, pyrite and graphite on some											

Property New Senator Rouyn Option

At

Claim No. Location of Core

> Surveys Dip

Bearing

McIN	<b>ITYR</b>	E
DODCTIDINE	MINES TIME	ren

$M_{CIN}$	1TZ	RE
PORCUPINE	MINES	LIMITED

Hole No. NSR-68	-4	Sheet No.	3	
Length of Hole				
Date Started		Completed		
Core Logged by			·	
Date				
Elevation		Datum	·	
	Co-ordinates of Co	llar		
North				3. 37
Fast				

	From To Description of Core		Sample	F00'	TAGE	Width	% !!a 0 a		CORE ASSAYS				
	FIUM	10	Description of Core	No.	From	То	***************************************	03	08 Au	Ag.			
			foliation planes.	· 									3 7
	229	245.5	Biotite rich gneiss - almost massive - some hematite stained patches and		į								
			fractures @ 30° to the line of hole.					Tr	Ni/	Nil		:	
	245	30 <b>0</b>	Brecciated Pegmatite, coarse grained, light grey to pink color, weakly fol-	9553	294.5	296.5	2.0	1 Tra	ces of	pyrite	, pyrı	hotite	
			iated - Some hematite stain. Traces of pyrite or pyrrhotite on foliation				•						<u> </u>
		·	planes. Some of feldspars are altered to talc or perpentine. Narrow bands	-						4			713
			of gneissic material are present.										
	300	356.5	Brecciated granite gneiss with numberous pegmatite sections. Medium to	•						149			
			coarse grained, pink color weakly foliated with poorly segregated mofic and										
			felsic material.					V					
	356.5	485.0	Grey granite gneiss - similar to above except for color-Some feldspars are										
			altered to greenish mineral completely devoid of hematite stain.										
	435.0	455.0	Biotite rich gneiss - similar to 229 - 245.5 with slightly better foliation and										
			possibly slightlysheared.										
	455	460	Grey granite gkeiss as 356 - 435			: .	.:		<i>.</i>				
<u>.                                    </u>		460	End of hole	<u> </u>									

$M^{c}$	IN	TY	RE
PORCU	PINE I	MINES	LIMITED

Property	New Senator Option
	Cherry Lake, Alberta.
Claim No.	•

Location of Core Cherry Lake.

Surveys					
At	Dip	Bearing			
Surface	-45°	285°			

Hole No. NSR 68-5	Sheet No. 1
Length of Hole 163 ft.	
Date Started March 23	Completed March 24
Core Logged by Gordon Bird.	
Date March 24, 1968	
Elevation Surface	Datum
Co-ordinates of Col	lar (
North 19 + 80	
Fast 1 + 50	

									<u>*,</u>		<del></del>		` '
	From To		Description of Core San	Sample	F001	FOOTAGE Width		CORE ASSAYS					
				No.	From	To		4308					
	0	6	Casing										
	0	8	Biotite gneiss dark grey, medium grained, poorly foliated, occassional veinlet	ts					190, 275				
			of quartz and pegmatite.						7.				
	8	21	Pegmatite with remnants of gneissic material-all sheared & partially brecciate	ed.									
		,	Foliation about 45° to core axis. Joints about 30° & subparrallel to core axis.										
			1820-19.0 Fault zone, strongly brecciated and altered green color, soft, all				· · · · · · · · · · · · · · · · · · ·						
			mafic minerals altered to chlorite or talc.										
	21	105	Granite gneiss, pink, medium grained to coarse grained with some pegnitite	9554	22.0	27.0	5.0	Sever	al sma	ll rad	oactiv	9	
			stringers-principle mafic mineral is biotite now altered to chlorite & phlogopit	e.		i		anoma	ılies i	ı brec	ciated	gneiss	and
			Most of colour comes from hematite stain. Rock is brecciated in places.					pegma	itite-o	nly sli	ghtly a	bove b	ack-
			42-43 Ground Core	9555	72.0	73.5	1.5	ファ Slight!	y abov	e back	ground		
			49.5-88.0 Brecciated pegmatite composed of feldspar and chloritized biotite,					radioa	ctivity	in her	natite	staine	1
			with very little quartz.					granit	e gnei	38			
			58.0-59.0 - Fault zone same as 18.0-19.0							4.			
							1	. 9					
,———	·———		<u> </u>	<del></del>		•••••		<del></del>				• •	

-EYDI	OPA	MOIT	DEDA	RTA	AFNT
				RIN	A E PU

McIN	1TZ	/RI
PORCUPINE	MINES	LIMITE

	i
Property New Senator Option	
Cocation Cherry Lake, Alberta	•
·	

Location of Core cherry Lake

Surveys						
At	$\mathbf{Dip}$	Bearing				
Surface	-45°	285°				
		,				

Sheet No. 2
Completed March 24
Datum
of Collar

	m-	Description of Core	Sample	F001	TAGE	Width			CORE A	SSAYS		
From	То	Description of Core	No.	From	To							
105	111	Brecciated Pegmatite, pink, coarse grained, comprised of quartz, feldspar										
		and biotite.					1,-					
111	114	Biotite gneiss						•				
114	124	Pegmatite-light grey to pink color, comprised of quartz, feldspar & biotite-are			•							
		some narrow sections of graphic granite									* * .	
 124	138	Biotite gneiss-light grey to dark grey color, medium grained, weakly foliated					•					
		with very little segregation of mafic & felsic material-foliation about 20° to										
		core axis; fractures 30° and subparrallel								e ge		
138	150.6	Granite gneiss, pink - as 21-105	·.									
150.6	158.0	Biotite gneiss-sheared and well foliated, fine grained dark grey - does not										
		resemble other biotite gneiss.										
158	163	Granite gneiss, pink as 21-105					:		į			
: .	163	End of Hole										
			·									
											: .	

b.							
EXIDL	A 1500	A COUNTY AND	A N: 10 1285A	REGISTER AND A		A 100 h	
5 Y		FA 22 8 8 8 7	A 18 18 18 18 18 18	Ban Ball FA	12.0	8a.63 km kn	
A			9 H VI 12-0		7 10 40 7 10 10		<b>4</b> .

MCINTYRE

	MOINT
rejerty New Senator Option	PORCUPINE MIN

Projectly 110W Dollator Option									
Location Cherry Lake, Alberta									
Claim No.									
Location of Core Cherry Lake									

Surveys
At Dip Bearing
arface -45° 105°

Surface -45° 105°

Hole No.	NSR-68-6		Sheet No		
Length of He	ole 196 feet				
	March 28th,			d March	29th
Core Logged	by Gordon Bir	dd			· <del></del>
Date	March 30th,	1968			
Elevation	Surface		Datum		
	Co-ordin	ates of Co	ollar		
Nishh	2 + 63 Sou	ıth			
Fact	11 + 41 Fa	st			

From			Description of Core	Sample	FOO	FAGE	Width	%		CORE ASSAYS			
•	From	То	Description of Core	No.	From	То		U <sub>3</sub>	3 0 8				
	0	11	Casing	•									
	6	125	Brecciated gneiss, extremely brecciated and hemetite stained, dark red	9556	12.0	13.5	1.5	Tr.					
			color with some green section where epidote and/or chlorite are abundant.	9557	66.7	68.7	2.0	Tr.					
			Most of rock is finale medium grained but some coarse grained feldspar por-				-						
1			phroblasts are present. Foliation is about 45° to the end of hole. There is										
		·	some compositioned banding.	,				•					
			51.0 - 52.5 Green rock composed of quartz, chlorite-probably after amphibol	e								į.	
			and feldspar altered to epidote - nearly massive.						· · · · · · · · · · · · · · · · · · ·	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
			72.0 - 74.5 - Sheared Basic rock - may have been a basic dyke. Now extrem	-									
			ely altered and foliated - genesis uncertain.										
	,		95 - 105 Brecciated pegmatite - composed of feldspar, muscovite or phlogopi	e					·				
			quartz. Coarse grained and hematite stained.	· ·	ξ.				ļ				
	125	142.5				-							
. 1			124.5 - 126.5 - Possibly a sheared basic dyke as 72.0 - 74.5.										
			142.5 - 145.9 - Same as 124.5 - 126.5.										
	145.5	159.0	Brecciated pegmatite - pink, coarse grained. Some dark red patches of hem-									,	
			atite stain.										
	159.0	164.5	Brecciated gniess - dark grey to black with strongly hematite stained felds-		1.		:						

		ENTER I MARENA I
Property New Se	enator Optio	n
Location		
		·
Location of Core		
	Surveys	•
At	$\mathbf{Dip}$	Bearing

## MCINTYRE PORCUPINE MINES LIMITED

Hole No.	NSR-68-6	Sheet No	2
Length of Hole			
Date Started		Completed	
Core Logged by			
Date	· · · · · · · · · · · · · · · · · · ·		<u> </u>
Elevation	·	Datum	<u></u>
1	Co-ordinates of C	ollar	
North			
East			

From	To	Description of Core	Sample	FOOT	rage	Width		•	CORE ASSAYS			
From	10	Description of Core	No.	From	To					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
		pars - fine to medium grained with some coarse grained feldspar porphroblas	±c					,	i			
			13									
1	3/7 5	Some vein quartz.										
164.5	167.5	Brecciated pegmatite - 165.5 - Some coarse grained pyrite dubes in foliated.		<u> </u>								
		Epidote or zoisite fills open fractures.	· · · · · · · · · · · · · · · · · · ·					<u> </u>	٠.			
	171.0	Biotite gneiss - fine grained, poorly foliated, dark grey.										
171.0	184.0	Granite gneiss, pink, medium grained, poorly foliated. Some large feldspar		.: ,:					*			
		porphoblasts in foliation. Foliation about 45° to the line of hole - one major										
		set of fractures is present at about 15° to the line of hole.	· · · · · · · · · · · · · · · · · · ·						1 15 2	2.2		
184	195	Biotite gneiss - dark grey, medium to fine grained, well foliated, some bre-					· · · · · · · · · · · · · · · · · · ·				·	,
		cciated spots. Ptygmatic banded pegmatite veinlet, present between 188-189-	•									
:		Sub parallel to the line of hole.	· ·									
		189.0 - 190.5 Brecciated pegmatite with xenoliths of gneissic material. Some									77.2	
		small pyrite cubes are present in poliation.										
195	196	Pink pegmatite.										
. 175												
	196	End of Hole.				ļ						
					<u> </u>	· <u> </u>	<del> </del>	<del> </del>				
	<u> </u>			1	The second secon	<del>                                     </del>	L	<u> </u>	L	<u></u>		

	EYDI	OD	ATION	DEDA	RTMENT
•		N 27 17 15	ACA D 10 E A/E C)		

Property New Senator Option

Location Twin Lakes Area, N. E. Alberta

McIN	ITYRE
DODCITOINE	MINES LIMITED

N	10	II	1	r:	Y	$\mathbf{R}$	Œ

Hole No.	68-7	Sheet No	
Length of Hole.	526 feet	<i>L</i>	·····
Date Started	30 Aug 11968	Completed .	3 Sep 1968
Core Logged by	GIN WOO	ollett	
Date3	Sep 1968		
Elevation	ulface	Datum	
÷.	/ Co-ordinates	of Collar	
,	0 + 80 N	·	
. East	8 + 20 W		ing Basiya. Sanakan

	Surveys	of Cher	<b>/</b> ,			
At	Dip	Bearing			•	
collar	-440	Corrected	(N450	E) 11	′ ~/ )	
250'	- 46°	(corrected	for	capille	austy)	
Em'	- 50°		/ "	/ 4	~	

_		To Description of Core S	Sample	FOOT	TAGE	Width	•		CORE ASSAYS			
From	То	Description of Core	No.	From	То	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						
0	6	Casing				·					. A	
6	39	Granite-Pink to brick red, dk green, med grained. Locally cataclastic. 20% qt	s.		*							
			٠.									
							· · · · · · · · · · · · · · · · · · ·	5				
		60° @ 21', contact with following is gradational.										
39	50.5	Cataclastic/Crush Zone-Black, pink, coarse grained broken K-feldspar up to 2	11				•					,
<u> </u>		Ø in groundmass of chlorite. Contact zone of preceding granite.	***					4.				
50.5	154	Migmatite-med to dk grny-gry, pink minor wht & brk red. Foliated, many bar	ds									- ,1
		of med to coarse grained granitic material, often cataclastic in textures inter	panded	-								
		with a fine grained qtzfelds-chlorite schist, and local bands milk wht qtz							19		·	***
-		(79.75-80.5). Brecciated, healed by chlorite & a dk brown qtz. VerY minor py	rite.									
		Angle of foliation to core - 50° @ 65', 45° @ 86', 60° @ 104', 25° @ 133', 55°	@144' <b>.</b>									
154	181.5	Cataclastic Gneiss-lt gry, wht, dk grn. Much as (50.5-154) but no schist										
		sections and much milky wht to lt gry, qtz. Locally broken & crushed (164.5-	4'')									
												17.4
										:		
	6 39 50. 5	0 6 6 39 39 50.5 50.5 154	0 6 Casing 6 39 Granite-Pink to brick red, dk green, med grained. Locally cataclastic. 20% qt 60-70% feldspars, 10-15% hornblende &/or chlorite. Local patches of coarse grained pink potash felds which has been broken and crushed. Local foliation50° @ 8', 60° @ 21', contact with following is gradational. 39 50.5 Cataclastic/Crush Zone-Black, pink, coarse grained broken K-feldspar up to 20 pin groundmass of chlorite. Contact zone of preceding granite. 50.5 154 Migmatite-med to dk grny-gry, pink minor wht & brk red. Foliated, many bare of med to coarse grained granitic material, often cataclastic in textures interfered with a fine grained qtzfelds-chlorite schist, and local bands milk wht qtz (79.75-80.5). Brecciated, healed by chlorite & a dk brown qtz. VerY minor produced foliation to core - 50° @ 65', 45° @ 86', 60° @ 104', 25° @ 133', 55° (154) 181.5 Cataclastic Gneiss-1t gry, wht, dk grn. Much as (50.5-154) but no schist	0 6 Casing 6 39 Granite-Pink to brick red, dk green, med grained. Locally cataclastic. 20% qts. 60-70% feldspars, 10-15% hornblende &/or chlorite. Local patches of coarse grained pink potash felds which has been broken and crushed. Local foliation50° @ 8', 60° @ 21', contact with following is gradational. 39 50.5 Cataclastic/Crush Zone-Black, pink, coarse grained broken K-feldspar up to 2'' Ø in groundmass of chlorite. Contact zone of preceding granite. 50.5 154 Migmatite-med to dk grny-gry, pink minor wht & brk red. Foliated, many bands of med to coarse grained granitic material, often cataclastic in textures interbanded with a fine grained qtzfelds-chlorite schist, and local bands milk wht qtz (79.75-80.5). Brecciated, healed by chlorite & a dk brown qtz. VerY minor pyrite. Angle of foliation to core - 50° @ 65', 45° @ 86', 60° @ 104', 25° @ 133', 55° @144',	From To Description of Core    Sample No.   From	To  O 6 Casing  Granite-Pink to brick red, dk green, med grained. Locally cataclastic. 20% qts.  60-70% feldspars, 10-15% hornblende &/or chlorite. Local patches of coarse grained pink potash felds which has been broken and crushed. Local foliation50° @ 8',  60° @ 21', contact with following is gradational.  39 50.5 Cataclastic/Crush Zone-Black, pink, coarse grained broken K-feldspar up to 2''  Ø in groundmass of chlorite. Contact zone of preceding granite.  50.5 154 Migmatite-med to dk grny-gry, pink minor wht & brk red. Foliated, many bards of med to coarse grained granitic material, often cataclastic in textures interpanded with a fine grained qtzfelds-chlorite schist, and local bands milk wht qtz  (79.75-80.5). Brecciated, healed by chlorite & a dk brown qtz. VerY minor pyrite.  Angle of foliation to core - 50° @ 65', 45° @ 86', 60° @ 104', 25° @ 133', 55° @ 144',  154 181.5 Cataclastic Gneiss-lt gry, wht, dk grn. Much as (50.5-154) but no schist	From To Description of Core    Sample No.   From To   To   To   To	From To Description of Core    Sample No.   From To   Width	To Description of Core    No.   From   To   Width	To Description of Core    Sample No.   From   To   Width   From   To	From To Pescription of Core  10 6 Casing 10 6 Casing 10 6 Casing 11 6 Core To	From To  Description of Core  To  Description of Core  To  From To  From To  From To  To  CORE ASSAYS  Core Assays  From To  From To  To  To  To  To  CORE ASSAYS  Core Assays  From To

At	Surveys Dip	Bearing	
Location of Core			
Claim No.			
Location		/	
Property New	Senator	Rougn	Option

## MCINTYRE PORCUPINE MINES LIMITED

Hole No.	68-7		Sheet N	o	· ·	
Length of Hole			·	·	·	;
Date Started			Complet	ed		<u></u>
Core Logged by						
Date						
Elevation	·		Datum			. :
	Co-ord	inates of Co	llar			
North		······································	. 1 12 1			
Fast			organização,			

1	From	To	Description of Core	Sample	FOOT	ΓAGE	Width			CORE A	SSAYS		
•	110111			No.	From	То		<u>.</u>	•	<del>,                                      </del>	·		
			lt gry, qtz, minor chlorite slightly rad. act. contacts S										
			(179.5-181.5) Brecciated and healed with chlorite.	÷									
	181.5		Fault - l'' plastic chloritic gouge @ 45° to core.										
	181.5	184	Chlorite Alt Zone-Dk grn, minor wht. strong chlorite zone with local brecciat	ed									
			fragments of white qtz, V. minor blebs of molyb. on slip planes. Not rad. act										
	184	239	Cataclastic & Avben Gneiss with Minor Chlorite Schist-Med to dk gry, -grn,					•					
			Locally schistose. Bands of lt gry to wht cataclastic (ptxx&xfekix) (pegmatite)										
			with local abens. qtz & felds.										
			(190.5 - 191.5) Ground core				: .						
			Angles of foliation to core										14.8 2.000
			40° @ 88', 15° @ 190', 20° @ 195', 35° @ 200', 40° @ 202',	 . :			·						
			(220-225) (254-255) (275-276) wht cataclastic pegmatite qtz felds. Not rad act.			:						1.1	
	······································		45° @ 217', 45° @ 260', 0-10° @ 266', 25° @ 277', 45° @ 321', 60° @ 348',										
	239	526	Biotite Schist-Blk, dk green, local wht, schistose. 50-60% biotite &/or chlor	ite,									
			40-50% qtz felds as local coarse grained and cataclastic, bands. Local pyrite										
	` ,		on fractures										
	······································			1 1 1				: .					
		<b>I</b>	<u> </u>	<del></del>		L	<u> </u>	L		<del></del>			

Property New	Parietar	D	Optio,
PropertyZZZZZZ			
Location			
Claim No.		<del>-</del> <del></del>	
Location of Core			
	Surveys	•	•
At	Dip	Bearing	

## MCINTYRE PORCUPINE MINES LIMITED

Hole No.	68	-7			Sheet	No	3	•		
Length of Hole				·						
Date Started			<u></u>		Comp	leted			·	-
Core Logged by					2,600					
Date										<u></u>
Elevation					. Datun	n				
		Co-orc	linates o	of Col	lar					
North			·							
East	٠.,				, , , , , , , , , , , , , , , , , , ,					

From To		Description of Core		FOOT	AGE	Width		•	CORE ASS	RAYS	
		Description of Core	Sample No.	From	To				CONE AG		<u> </u>
		(297-303) Much sericite & local lt. green patches & knots of feldspar?									
		(303-311) Fine to med grained lt. gry granite. Slightly foliation @ 65°. Local			******						
		pyrite on fractures. Latter contact sharp @ 40°.	<u>.</u>	`							
		(349-352) As (303-311) foliated @ 60°.	· .								
		(381-457) Local lt grn, feldspar? In Knots & patches.			* *.						
		(487-495) As (381-457) Angle of foliation to core - 45° @ 394', 50° @ 443', 50	° @ 521'.				•				
	526	End of Hole.			. •			4, 14			
					,			, .			
			:								
									1 4		
			:								
	· ···		÷				,				
	· · · · ·										
	,										

-	EWDI	AD	ATION	ned A	DTA	AENT
, see		. O. J. P. P. K.				98 EE 14

$\mathbf{M}_{\mathbf{C}}$	IN	T	Y]	$\mathbf{RE}$

Property New	Senato	r Rous	, Op	tim
Location Twin	Lakes	Area,	N.E.	Alberta

Claim No.

Location of Core

Surveys At Dip Bearing -57°30'

"Ax" Core

Hole No. 68	-8	Sheet No/	
Length of Hole	525 feet		
Date Started 5	Sep 1968	Completed 9 Se	01968
Core Logged by	G.N. Wooll	et+	
Date 9 Sep	0 1968		
Elevation Sun	face	Datum	
./	Co-ordinates of C	Collar	
North /	780 S	<u> </u>	
East 5	+ 20 W		

From	To	Description of Core	Sample	FOO	ГАGE	Width	*		CORE AS	SSAYS	
210111		Description of con-	No.	From	То			·			
0	2	Casing									
2	392	granite Crushed grainte gneiss - white, lt. gry, & minor biotite schist.									
		Blk. med to coarse grained, gneissic. Numerous large broken but rounded	·								
		fragments up to l'' dia of qtz & felds set in gound mass of a med grained grani	te		·						
		gneiss. Local short lenghts (interbands) of a fine grained biotite, qtz schist. C	verall								
		composition - Feldspar 60-70%, qtz, 15-20%, biotite 10-20%, Angle of foliation	n								
		to core - 40° @ 3', 35° @ 46', 35° @ 112', 20° @ 148', 40° @ 181', 30° @ 21	61.	.,			,		G.		
		(33-49) Minor lt. grn. altered feldspars.									
		(33-34) Ground core									
		(55-109) Flesh pink, coarse grained, crushed, qtz, felds pegmatite, local sho	rt								
		sections of biotite schist.									
		(75) Fracture @ 45° flanked by 1/2" chlorite alteration									
		(82.5-90) 10% lt. apple green clay material. (Alteration of feldspar), Up to 60	‰83. 5'.	·							**
		(100-106.5) As (82.5-90)									
		(133.5-143) flesh pink, crmy, qtz felds pegmatite minor local coarse biotite.									
		First contact sharp @ 30°, latter @ 45°.									
										· .	
				-							

MCINTY	R
PORCUPINE MINES LI	M

	MCIN
a Alas Sand Dating	
Property New Senator Rough Option	PORCUPINE
Location	

Location of Core

Surveys Dip Bearing At

Hole No.	68-8		Sheet	No	2	 
Length of Hole	- , , , , , , , , , , , , , , , , , , ,			••••		 
Date Started				leted		 
Core Logged by						 
Date						
Elevation			Datus	n		 
	Co-01	rdinates of	Collar			
North						 
East						 ه پیدر مورد خصصها

From	То	Description of Core	Sample	FOO	ГАGE	Width			CORE A	SSAYS		
	10		No.	From	To				,			
		(143-154) Predominantly biotite schist.										
		(184. 5-185. 5) Molybdenite smered on slip planes.				·						
		(191-200) Mottled appearance, large rounded fragments of qtz. & felds genera	11 <b>j</b>					•				
		altered to a lt. olive grn color.								· ·	Turkey.	
	•	(200-208) Med grained, pink, gneissic granite.										2. 2.
		(208-213) Coarse rounded frags of pegmatite heald by 20% biotite. Crush zone.					•					
		(220-229) Slightly crushed flesh pink & wht pegmatite. Local green altered										
		feldspar. Contacts @ 35°						2				
		(229-240) Crmy, minor dk. grn, finely foliated grainite. Foliation is caused b	y					14 (1) 11 (1) 14		Amila Mila Andreas		
		fine laminated (mylonitic) qtz & minor chlorite.										
		(231) 4" sheared lt. grn, altered @ 30°.										
		(240) minor molybdenite on slip.										
		(240-242) Lt. grn, altered feldspar.										
		(240-274.5) Coarsely crushed throughout						,				

		PARTMEN
Property New	Senator Ro	uya Option
Location		
Claim No		
	Surveys	
· At	Dip	Bearing

## MCINTYRE PORCUPINE MINES LIMITED

Hole No. 68	-8		Sheet N	٧٥	3	
Length of Hole						
Date Started	·		Comple	ted		
Core Logged by						
Date						
Elevation			Datum	اران درون		
	Co-ordi	nates of Col	lar 🦠			
North						
г.	*					

	<u> </u>							<u>, ee y</u>			<u> </u>	
From	To	Description of Core	Sample	FOO'	ГАGE	Width		\$ 1 kg	CORE A	SSAYS		
			No.	From	То							
		(274. 5-276. 5) (277-284) As (229-240)										
	1	(310.5-311.5) Ground core							. ,	A		
		(284-343.5) Predominantly biotite schist.										30 A
:			The state of the s			Annual Property Co.		e e e e e e e e e e e e e e e e e e e				
	: — : : : : : : : : : : : : : : : : : :	la de la companya de La companya de la co La companya de la co						: :				
* * * * * * * * * * * * * * * * * * * *				·	į.			· · · · · · · · · · · · · · · · · · ·		e deservação do como do deservação do como de	( <b>**</b> *********************************	en ver transcomité à
392	453	Logmailie-crmy pink, flesh pink, crushed coarse grained, qtz, felds pegmati-	(3				- Liker					
		with 10-15% biotite/chlorite.										
		(412-416) As (376-386).	:						,			
		(439-448) 10-15% Red feldspar										
,		(448-453) 20-30% biotite. Gradational with following.										
453	525	Gneissic Granite - flesh pink, wht, dk. green. Med grained, slightly crushed									·. ·.	
		70% feldspar, 15 % qtz, 15% chlorite.										
					·							

At	Dip	Bearin	g
	Surveys		
Location of Core			
Claim No.		····	·
Location		/	U
Property New			מסדדקט

## MCINTYRE PORCUPINE MINES LIMITEI

Hole No. 68	- 8	Sheet No. 4	
Length of Hole			
Date Started		Completed	
Core Logged by			
Date	·		<u> </u>
Elevation		Datum	
	Co-ordinates of Col	lar	
North			
East			

From   To   Description of Core   Sample   No.   From   To   Width   CORE As	CORE ASSAYS
(504.5-505) Ground core (520-522) Pegmatite, 1-2% mafics. Angle of foliation to core - 35° @461', 50° @ 494'. 45° @ 516'.  End of Hole No Radioactivity in Hole. No Radioactivity in Hole.  I Substituting the state of the state	
(520 - 522) Pegmatite, 1-2% mafics.	
Angle of foliation to core - 35° @461', 50° @ 494'. 45° @ 516'.  525 End of Hole  No Radioactivity in Hole.  No Radioactivity in Hole.	
Angle of foliation to core - 35° @461', 50° @ 494'. 45° @ 516'.  End of Hole  No Radioactivity in Hole.  No Radioactivity in Hole.	
525 End of Hole	
No Radioactivity in Hole.  No Radioactivity in Hole.	
No Radioactivity in Hole.	

PORCUPINE MINES LIMITED

Droperty	ator Option	
Location Twin La		

Location of Core

Surveys

Dip \_ 440 At collar

Core

Hole No. 68-9		Sheet No	ì	
Length of Hole 325!				
Date Started September	14/68	Completed .	Sept. 1	7/68
Core Logged by G. N. W.				
Date 17 Sep 19	68			i W.
Elevation Surface		Datum		: '` »: ';
	ordinates of Co			
North 18 + 4	7 South			<u>in ni</u> s
East / + 00	West			

From	To	Description of Core	Sample	F007	rage	Width		CORE A	SSAYS		
riom	10	Description of Cole	No.	From	То						
0	3	Casing					ì				
3	61	Cataclastic Gneiss - Wht, pink, blk, lt gry, coarse grained, crushed. Quartz	20%					<i>\$</i>			
		feldspar 60%, biotite/chlorite 20%. Minor interbands or fine grained biotite									
		schist, locally tightly folded. Contact with following is gradational.									
		Angle of foliation to core - 65° @ 6', 45° @ 25', 60° @ 51'.									
61	129	Migmatite - Blk, lt gry, locally grnish. Fine grained, foliated, Biotite up to	0%,								
		qtz & felds 20 - 30%. Local Sections grnish altered felds or possibly diopside	•			4					
		Angle of Foliation to core - 45° @ 71', 50° @ 82', 0 - 20° from 97' - 101',									
		75° @ 129', (66-67) - 1t grn altered Diopside?								1	100
		(81.5 - 88) As (3 - 61)									
•		(110 - 122) Minor lt Grn alt diopside or felds?									
129	151.5	QtzFelds Biotite Gneiss-Much As (3-61) but less crushed and no pink colour				: .					
		Local Minor pyrite. Angle or foliation to core is 65° throughout.									
151.3	153	Fault - Apple grn, minor pink and blk, soft serpentined with minor qtz. veining	g								7.7
						2.0					

MCINTYRE

Property	Malan	Senoth-	0	0 2
Location	· · · · · · · · · · · · · · · · · · ·	Jensyn	ary-	U YZ V
Claim No.				
Location of	Core			
•	Sur	veys		
A	t Di	p Be	aring	

Hole No.	68 -	9		Sheet No	. 2	
Length of Hole						
Date Started				Complete	d	
Core Logged by						
Date						
Elevation		<u> </u>		Datum .		
North		Co-ordii	nates of Coll	lar		
East					Çê	v Brand.

	From	To	Description of Core	Sample	F00	rage	Width		1. 1.	CORF	ASSAYS		
	From	10	Description of Core	No.	From	To	********						
			and local pink felds fragments. Contact sharp @ 45°.										
	153	181	Qtz-Felds-Biotite Gneiss - As (129-151.5) crushed and healed with chlorite										-
			Angle of foliation to core - 60°.										
-	181	32 5	Biotite Gneiss - Much as (61-129). However becomes more gneissic than										
			schistose. Biotite 40 - 50%, qtz and felds 50 - 60%. Angle of foliation to core										
			65 <sup>1</sup> @ 199', 70° @ 237'.										*
			(105-186) Pegmatite with minor diopside?										
			(210-217. 5) Pegmatite minor coarse biotite					71					
			(241-247)										
			(252-257) " " " "					1.3					
			(258) 3" CG Biotite, minor pyrite, slightly rad act.										
	;		(260) 6" Coarsely brecciated, lt grn, alt feds?										
			(272-273.5) Pegmatite, minor lt grn diopside? Minor pyrite.				with the second						
			(274.5-279) Pegmatite, minor CG biotite, slightly rad act.				1						
										•			
	· · · · · ·							·					
					, .				\		4		
									1			3.0	

# Property New Senter Pouga Option

MCINTYRE

Property Location	Wen dhe	to Rouge Of	<u></u>
Claim No.			
Location of Core			
	Surveys		
At	Dip	Bearing	

Hole No.	68-9	Sheet No	3
Length of Hole			
Date Started		Completed	
Core Logged by			<u></u>
Date			
Elevation		Datum	
	Co-ordinates of Col	llar	
North			
East			

From	To	Description of Core	Sample No.	I .		Width			CORE ASSAYS		
				From	To						
		(285-289) (289.5-293) coarsely crushed, fragments up to 1" dia.									
		(298-302) Pegmatite, slightly rad act.									
!		(302-303.5) Fine grained, lt gry granite foliation @ 70°.									
		(303. 5-305) Pegmatite.									) - j - j - j - s
		(308-309) "									
		(317.5-319) Coarsely crushed pegmatite, not rad xxx act)								.74.5	
		(323-325) " " " " " " "									1846
		(325) 1" of biotite gneiss following (323-325)									
		Angle of foliation to core - 60° @ 182, 60° @ 199, 50° @ 216, 75° @ 307',						å s	ng gang		
		70° @ 269¹ /	:					1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	325	%25 End of Hole.									
				1							
	,										
								\			

Property New Senator Rouyn Option, N. E. Alberta.
Location Twin Lakes Area (West of Cherry Lake)

Location of Core N. W. Bay, Cherry Lake.

Surveys Bearing Dip At -45° N 45° W (True) 01 1251 -42°

## PORCUPINE MINES LIMITED

Hole No. 68-10		Sheet No	1	
Length of Hole 151. (	)'		*!	
Date Started September	18, 1968	Completed	Sept.	19/68
Core Logged by W. H. Date September 21,	Thorpe			
Elevation Surface	1 (4) (4)	Datum		
<b>Co</b>	-ordinates of Co + 201	the state of the s		
Fast 0	+ 50¹			

	From	To	Description of Core	Sample	FOO	ГАGE	Width	%	CORE A	SSAYS		
		10	"Ax " Core	No.	From	To		U3O8			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	0	8	Casing									
	8	9.5	Pegmatite dyke - no radioactivity. Out contact ground up									
	9, 5	21.0	Biotite gneiss. Gneissosity at 70° to CA, some small blebs pegmatite along gr	reissosit	7					. v:		
	21.0	22.7	Pegmatite dyke, irregular contacts.									
	22.7	75. 5	Quartz-feldspar-biotite gneiss with local small injections of pegmatite. Gneiss	sosity								
			at 70° - 45° to CA. From 50.0' gneissosity parallel to CA in places					5				
			35.8 - 36.2 pegmatite dyke									
			42.0 - 43.5 mainly milky quartz - barren	,								
	75. 5	117.0	Pegmatite, sometimes with local concentrations of biotite. Minor epidote in fr	actures.								
	-		108.6 - 110.0 minor radioactivity	9638	108.6	110.0	1.4	0.12				
	117.0	136.0	Quartz-feldspar-biotite gneiss. Variable, folded gneissosity					-				
	136.0	1 <del>4</del> 0.5	Pegmatite with large broken feldspar phenocrysts up to 1/2"						<i>.</i> .			
	140.5	151.0	Quartz-feldspar-biotite gneiss									
•			148.0 - 149.0 mainly barren, milky, quartz, -feldspar									
			151.0 - End of Hole									

Property	New Senator - Rouyn Option	•
Location	Peninsula, north end of Spider Lak	сe
Clair Nia		

Location of Core Left at drill site

	Surveys		
At	Dip	Bearing	
Collar	-45°	S 22° E	(True)
300 '	-40°		
		14	

Hole No. 68 - 11	Sheet No. 1	<u></u>
Length of Hole 303.0'		
Date Started 27 September, 1968	Completed 28 Se	pt, 1968
Core Logged by W. H. Thorpe		******
Date 27, 28, September 1968		
~ .	Datum	
Co-ordinates of Co	ollar	
Nords 4 + 90 S. W.		
Exst 1 + 00 N. W.		

				Sample			Width			CORE A	SSAYS	AYS	
	From	To	Description of Core	No.	From	То		· 	· · · · · · · · · · · · · · · · · · ·	1			
	0.0	3. 0	Casing	·									
	3. 0	62.5	Granite gneiss-pink, banded, prominent biotite										
			3. 0-20. Ogneissosity at 75° - 45° to CA, minor folding in places.	·									
			At 24.5, 2" crushed zone										
			20.0-42.0 more folded than preceding, gneissosity at 80° to parallel to CA.	<del></del>				•					* 1
			Prominent biotite banding							v 24 m			***
			42.0-62.5 less folded than preceding, gneissosity at 75° - 80° to CA.				1.4 1.	,					
•	62.5	74.0	Quartz-feldspar-biotite gneiss	·		. :	· · · · · · · · · · · · · · · · · · ·						
			62.5-74.0 20% banded granite gneiss, gneissosity at 80° - 60° to CA.				,						
•	74.0	83.5	Impure quartzite with prominent bitite banding										
			74.0-83.5 gneissose banding at 80° - 55° to CA							-			
	83.5	108.0	Axx Augen gneiss							ļ:			
,			83. 5-96. 5 rounded feldspars up to 1/2", more massive than preceding core, u	р				٠.		<u> </u>		` `	
			to 30% grey quartz.						ļ				
			96.5-108.0 50% quartz, occasional trace molybdenite, pyrite, and chalcopyrit	е,					<u> </u>				
			no radioactivity, 20% biotite, 30% feldspar with occasional hematite stain.						ļ				1 m
:.			Crushed zone from 102.0 - 103.0		-  -					<u> </u>			
									17.5		19.5	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	

Surveys

Dip

Bearing

Property New Senator-Rouyn Option

Location of Core

McIN	1T2	RE
DODCLIDINE	MINES	LIMITED

McIN	1TZ	RE
PORCUPINE	MINES	LIMITED

Hole No. 6	8 - 11		Sheet No	2	
Length of Hole			<u> </u>		
Date Started			Completed		· · · · · · · · · · · · · · · · · · ·
Core Logged by					
Date					
Elevation			Datum		
	Co-or	dinates of Col	lar		
North		·			
East					

•	From	To	Description of Core	Sample		rage	Width	0/0		CORE ASSAYS			
-	rioni	10	Description of Core	No.	From	То		U3O8					T.
	108.0	148.0	Biotite gneiss-occasional garnet										ja .
			108.0-136.5 considerably folded with occasional rounded feldspar up to 1/8".										
			Occasional trace pyrite						1 1				
		·	136.5-139.0 some augen feldspars and crushed zone from 137.0-139.0							1.44			· · · · · · · · · · · · · · · · · · ·
			139.0-148.0 prominent augen feldspars in places, 60% biotite.										
	148.0	159.0	Augen gneiss - rounded feldspars	9640	149.0	154.0	5.0	0.01					
			148.0-149.0 60% grey quartz							3,3			
			149.0-154.0 very slightly radioactive, 65% grey quartz, 20% feldspar, 15% bio	tite	<u> </u>								
			rough banding at 70° to CA, occasional trace pyrite				' • 						
			154.0-159.0 60% grey quartz.									* * * * * * * * * * * * * * * * * * * *	
	159.0	179.0	Biotite gneiss-60% biotite, 20% feldspar, 20% quartz										
			159.0-179.0 gneissosity at 65° to CA.										, , ,
	179.0	213.0	Quartzite, impure, prominent biotite, occasional fine pyrite		· .								
٠.		,	179.0-188.0 gneissosity at 65° to CA, prominent biotite banding										
			188.0-195.5 sommhat brecciated parallel to gneissosity at 45° to CA.									1 -	
		·									,		
					1								

Property New Senator-Rouyn Option, Alberta

Surveys

Dip

Bearing

Location of Core

At

MCIN	TTTT	7101	1
TAT TT.	4 T 7		4
PORCUPINE	MINES	LIMITEI	_

	McIN	1TZ	R
•	PORCUPINE	MINES	LIMIT

ŀ	Iole No	68	-11			Sheet	No	3	 	
L	ength of H	ole						<u> </u>	 <u> </u>	
I	Date Started:			· · · · · ·		Comp	leted			
C	Core Logged	by	· · · ·						 	
. I	)ate								 	
E	levation					Datun	G			
			Co-	ordinates	of Co	llar				
1	North								 ·	
. 1	act			$u\in [0,\infty)\cap [0,T]$					 - , -, 1	

	, 188								4				
	From	To	To Description of Core	Sample	FOO	TAGE	Width			CORE	ASSAYS		1 22 a
	21011	10		No.	From	То							
			208. 0-213. 0 some hematization of feldspars										
	213.0	218.0	Biotite gneiss, somewhat contorted										
	218.0	303.0	Quartzite, impure, prominent biotite banding										
			218.0-232.0 gneissic banding at 45° - 65° to CA.										
		\*	232.0-235.5 very minor biotite and more massive than preceding, somewhat c	rushed									· , * . ,
		_	235. 5-244. 0 brecciated zone with fractured feldspars up to 1/4" across, some					•					
			hematization, minor biotite. No radioactivity.	1									. 15.
			244.0-257.0 gneissosity at 65° to CA, occasional brecciation of feldspars along	ng									
			gneissosity. 257. 0-273. 0 occaisional minor augen feldspar along gneissosity at 65°-45° to	CA.									
			273. 0-293. 0 occasional trace pyrite, chalcopyrite and molybdenite or graphite	3									
	·		293.0-294.3 breccia zone, mostley feldspan and quartz				/	, b					
			294. 3-303. 0 gneissosity at 55° to CA, some brecciated fragments along gneis	sosity									1 7 2 2 22 2 22
•			303.0 End of Hole										
												•	
				*									
										y' (\$1)			

	1 To 20 10 To 10	- FERNA		MOIT	PORTON DEVE 1987 A		
. 17	49 B 4 B		Æ.			A 80	
- 9		W. AT HICK	A = A			A PG	714 8 4 1 1 1 1 1 1

MCINTYRE PORCUPINE MINES LIMITED

- 25	New	Senator	Rouyn	Option,	N. E. Alberta
ODCI LY					

Location Spider Lake - north peninsula

Claim No.

Location of Core Left at drill site

•	Survéys	
At	Dip	Bearing
Collar	-45°	S 47° E (true)
4501	-37°	

Hole No. 68	- 12		Sheet N	0	1	
Length of Hole						
Date Started Se			Complete	d Oct	2,1	968
Core Logged by	W. H. Tho	rpe				
Date Octol	oer 2, 196	8				
Elevation Suri	ace		Datum			
		inates of C	ollar			
Nank 5 + 1	0 N. E.					
<b>East</b> 3 + 2	0 N. W.					

From	To	Description of Core	Sample	FOOT	FOOTAGE		core assays				
riom	10	" Ax" Core	No. From To			U3O8					
0.0	2.0	Casing									
2.0	50.0	Granite gneiss-pink, prominent biotite, gneissosity at 65°-75° to CA, trace pyr	ite								
		46.0 - 50.0 crushed zone, slightly radioactive	9641	46.0	50.0	4.0	Tr.				
50.0	188.0	Quartz-feldspar-biotite gneiss, occasional hematized feldspars									
		50.0-55.0 slightly radioactive, some inclusions of granite gneiss. 4" quartz	9642	50.0	55.0	5.0	0.01				
		vein at 53. 3		-						 1: 2:	
		58.0 - 63.0 considerable crushing along gneissosity	9644	58.0	63.0	5.0	0.01				
		at 65° to C.A., slight radioactivity	9645	63.0	<b>65.</b> 5	2.5	0.04				
		55.0 - 58.0 slight radioactivity, gneissosity at 65°-85° to C.A.	9643	55.0	58.0	3.0	0.04	0.12.		·	
	·	63.0 - 84.5 decreasing radioactivity, gneissosity at 75°-65° to C.A.				) K. S					
		84.5 - 85.7 mainly quartz-feldspar with hematized feldspar patches up to l''ac	ross.								
		No radioactivity.			,		:				
		85.7 - 102.0 occasional minor hematization of feldspars. No radioactivity.									
		Gneissosity at 85°-45° to C.A.			,						
		102.0 - 103.5 50% lost core. No radioactivity in sludge or core	·			·				 •	
											1.00
						*	1.0				

McIN	1T	$\mathbf{Y}\mathbf{R}$	E
POPCLIPINE	MINE	RIJM	TED

operty New	•		

Property	 <b>_</b>	
7		
Location		

Location of Core

Dip Bearing At

Hole No.	68 - 12			Shee	t No	2	<u></u>	
Length of Hole				·. · .			••••	
Date Started	· · · · · ·		······································	Com	pleted			
Core Logged by.	· · · · · · · · · · · · · · · · · · ·				-			
Date					191. <del>11</del> 2111	· · · · · · · · · · · · · · · · · · ·		
Elevation				Datu	m			
	C	o-ordin	ates of	Collar			*	
North		· .		<u> </u>				
East		٠						100

From	To	Description of Core	Sample	FOO	rage	Width	CORE ASSAYS					
			No.	From	To							
		106.5 - 107.5 hematized feldspar-quartz section, no radioactivity some fine				* .		-				
		with mauve colour										
		117.0 - 124.0 some hematized feldspar in quartz-rich sections. No radioactivit	y									
		Brecciation along gneissosity at 55° to C.A. Garnets in biotite rich sections.					. •					
·		124. 0-128. 0 augen gneiss texture, considerable movement along gneissosity at				·						
		65° - 50° to C.A. Some fine garnets.										
		128.0 - 131.0 predominantly quartz-feldspar, minor biotite, could be pegmati-	te		1			•				
		but conforms to gneissosity at 70° to C.A. and appears to be result of										
		metamorphism.					,		,			
		131.0 - 149.0 40% quartz-feldspar sections with some hematized feldspars							•			
		conforming to gneissosity at 70° - 80° to C.A.										
		149.0 - 170.0 biotite rich, occasional augen feldspar, gneissosity at 85° to CA	<b>A.</b>									
		170.0 - 188.0 40% quartz-feldspar rich sections with very minor biotite.										
		Good banding at 85° - 65° to C.A.	·								.3	
188.	0 225.0	Pegmatite-with 20% alternating quartz-feldspar-biotite gneiss bands slight										
							,					
					* * * * * * * * * * * * * * * * * * * *							

MCIN	1.LZ	RE
ORCUPINE	MINES	LIMITED

roperty New Ser			MCIN'				
ocation			-	PORC	JUPINE MI		
aim No		····	<u>.</u>				
ocation of Core	***************************************		•		•		
	Surveys		•				
At _	Dip	Bearing					

Hole No. 68 - 12			Sheet N	o	3	
Length of Hole						
Date Started			Complet	ed		
Core Logged by			•••••			
Date						
Elevation			Datum			
	Co-ordina	ites of Co	llar			
North		· .				
East						<u> </u>

	From	То	Description of Core San	Sample	FOOTAGE		Width			CORE	ORE ASSAYS		
٠,	110111	1		No.	From	То		U <sub>3</sub> O <sub>8</sub>	Au		$M_0S_2$		
			hematization of feldspar but no radioactivity.										
	225.0	369.0	Quartzite, impure, prominent biotite, occasional actinolite, gneissic banding										
	. :		at 65° to C.A., trace pyrite in places. No radioactivity.				`	. •					
			235. 5 - 236. 5 90% quartz-feldspar section - may be pegmatite dyke along										
			gneissosity at 55° to C.A.										
			237.5-239.075%quartz-feldspar section										
			256.0 - 256.5 and 261.5 - 262.3 quartz-feldspar sections										
			289.0 - 339.0 considerable folding.										
			At 341.5, 1/8" fracture with pyrrhotite containing trace chalcopyrite										2
	a*		360.0 - 365.0 25% irregular milky quartz veins,	9646	360, 0	365.0	5.0	Nil	Nil	Tu	T4		
*			2% pyrrhotite					1.					
			365.0 - 369.0 considerably folded.										
	369.0	466.0	Quartz-feldspar-biotite gneiss						٠.				
,			369.0 - 402.0 considerably folded, occasional trace pyrite				,					1111	
										7.			
						,							

EXPLORA	ATION	DEPAR	TMENT
Property New	Senator R	ouyn Option	n, Alberta.

McIN	T	/R	Æ
POPCIPINE	MINES	TIMI	TED

LAST IN INSTITUTE A B	
Option, Alberta.	

Claim No.

Location of Core

Surveys Dip

Bearing At

Hole No	68 - 12		Sheet No	. 4	
Length of Hole					
Date Started			Complete	d	
Core Logged by					<u> </u>
Date	· · · · · · · · · · · · · · · · · · ·				
Elevation			Datum		
	Co-orc	dinates of Co	llar		
North					
East					

	<b></b>	Description of Core	Sample	FOOTAGE		Width			CORE ASSAYS			
rom	To	Description of Core	Sample No.	From	То			CORE ASSAIS				
		402.0 - 407.0 15% irregular milky quartz, trace pyrrhotite in places										:
		407.0 - 425.5 considerably folded										
		425.0 - 429.0 and 429.8 - 430.7 coarse-grained quartz-feldspar, probably dyk	es					•	15			
		429.0 - 440.0 prominent drag folding in places, 1-2% pyrrhotite, trace chalco										
		440.0 - 466.0 10% irregular quartz blebs, considerable folding, traces										
		pyrrhotite, pyrite	:							1		
		466.0 - End of Hole.					* 1					
			-				1.7		18			1,43
		•										
											:	
							, _					
											-	
	<del></del>		,									
	•									n partie		

MCIN	1 T Z	RE
PORCUPINE	MINES	LIMITEI

Pr sperty	New	Senator	Rouyn	Option,	N. E.	Alberta
Location	Sout	hwest en	d of Ho	olmes La	ike	

Location of Core Left at drill site

Claim No.

Surveys

At	Dip	Bearing
Collar	-45°	S 45° E
400 Feet	-40°	(corrected for capillarity)

Sludge not recovered - 95% core recovery

Hole No.	68-13		Sheet No	. 1	
Length of Hole	406.0		******************		
Date Started Oct.	8th/68		Complete	d Oct. 1	3th/68
Core Logged by W		rpe	· .		
DateOctobe	r13th	1968			
Elevation Surfac			Datum		
	Co-ord	inates of (	Collar		
North					
East				· · · · · · · · · · · · · · · · · · ·	

From	To	Description of Core	Sample	FOOTAGE		Width	U <sub>3</sub> 0 8 CORE ASSAYS					
11000	,	"AX" Core (lost > water at 21.0 Feet )	No.	From	From To		%	<b>о</b> 8				
0.0	4.0	Casing										
4.0	179.0	Pegmatite - feldspars frequently hematized and crushed,	9647	4.0	6.0	2.0	Tr					
		prominent biotite and occasional trace pyrite	9648	6.0	11.0	5.0	Tr					
		4.0 - 6.0 slight radioactivity - up to 700 counts per second - trace pyrite	9649	11.0	14.0	3.0	0.01					
		6.0 - 14.0 pronounced fracturing and crushing	9650	14.0	15.0	1.0	0.01					
		At 14.3, 3 inch quartz vein with 700 counts per second and continues	9696	15.0	20.0	5.0	Tr					
		crushed and hematized to 21.0 feet	9697	20.0	21.5	1.5	Tr					
		20.0 - 21.5 prominent hematite stain	9698	21.5	25.0	3.5	Tr					
 		23.0 - 38.5 occasional hematite - stained feldspars	9699	25.0	30.0	5.0	Tr					
		38.5 - 42.5 slightly radioactive - up to 700 counts per second, 15% biotite,	9700	30.0	35.0	5. 0	0.01				•	
		occasional trace pyrite	9301	35.0	38.5	3. 5	0.01					
		42.5 - 47.0 up to 1200 counts per second, prominent hematized feldspars,	9302	38.5	42.5	4.0	Tr					
		considerable fracturing	9303	42.5	47.0	4.5	0.01					
		47.0 - 52.0 hematized feldspars, & few cubes pyrite,	9304	47.0	52.0	5.0	C: 02					
	<u> </u>	up to 1100 counts per second 9305 52.0 57.0 5.0		5.0	0:03					4 1 2 24		
		52.0 - 57.0 slight gneissosity in places at 80° to Core Angle, considerable					<u> </u>					
		fracturing - up to 1200 counts per second.			9 9							LZ

Property New Senator Rouyn Option, Alberta

Claim No. Location of Core Surveys Dip

At

Bearing

MCINTYRE
DODCHDINE MINES LIMITED

68	-13		··-	Sheet No	2	
	::					
			•	Completed	······································	
····						
						-
				Datum		
	Co-orc	linates o	of Co	ollar		
		·	: 		·····	v.
	68	68-13 Co-ord			Completed	Completed Datum

From	То	Description of Core	Sample No.	FOO7	TAGE	Width	U308	A 4	CORE /	ASSAYS		
		57.0 - 62.0 less hematized than preceding, more biotite (10%), traces pyrite	9306	57. 0	62.0	5.0	Tr	Nil	Nil_			
		gneissosity at 80° - 45° to Core Angle- up to 1200 counts per second										
		62.0 - 67.0 slight gneissosity in places at 55° to Core Angle. Hematization	9307	62.0	67.0	5.0	0.01	<u> </u>	•		, .	
		less than in preceding sections, traces pyrite up to 900 counts per second										
		67.0 - 72.0 more biotite than preceding-up to 900 counts per second. Slight	9308	67.0	72. 0	5.0	Tr	Ni1	Ni1			
		gneissosity in part at 45° to Core Angle, traces pyrite throughout.	····									
		72.0 - 77.0 biotite-rich banding at 45° to Core Angle from 72.0-74.0 - up	9309	72.0	77.0	5.0	Tr	•				
		to 900 counts per second	: -	•					19 m	a .		111
		77.0 - 82.0 less hematized than preceding, prominent fracturing at various	9310	77.0	82.0	5.0	0.03		- \(\frac{1}{2}\)		1	
		angles to Core Angle. Up to 1300 counts per second in biotite-rich section at								*:		16.
		75.5 feet. Traces pyrite throughout.						- <del></del>				
		82.0 - 87.0 no hematization, less quartz than preceding, greenish yellow	9311	82.0	87.0	5.0	0.01	-				
		stain in places - up to 800 counts per second.										
		87.0 - 91.0 some prominent biotite with gneissic banding in part at 80° to	9312	87. 0	91.0	4.0	Tr					
		Core Angle. Up to 900 counts per second. No hematization.										
		91.0 - 96.0 no hematization, trace pyrite throughout - up to 900 counts per	9313	91.0	96.0	5.0	0 01		4.			
		second.										1.74
		96.0 - 101.0 no hematization, up to 1100 counts per second	9314	96.0	101.0	5.0	0. 02			.′		

MCINTYRE	
OPCUDING MINES LIMITED	

•			n Option, Albert
ocation of	Core	·	
		Surveys	
			Bearing

Hole No.	68-13	·	Sheet No	3	
Length of Hole			<u> </u>		
Date Started			Completed		
Core Logged by	• .				
_			5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
Elevation			. Datum		
	Co-ordin	ates of Col	lar		
North				• •	
East	·		<u> </u>		

	_	Description of Core	Sample	FOO'	rage	Width	<b>U</b> .	0 <sub>8</sub>	CORE	ASSAYS		
From	То	Description of Core		From	То		%	3 8				
		101.0-106.0 fractured feldspars, no hematization, up to 900 counts per second	9315	101.0	106.0	5.0	0.02					
		106.0-111.0 as preceding to 109.5 feet then minor hematization	9316	106.0	111.0	5.0	0.01					
		111.0-116.0 minor hematization-up to 1000 counts per second	9317	111.0	116.0	5.0	0.01			,		
		116.0-121.0 slight to moderate hematization-up to 1000 counts per second	9318	116.0	121.0	5.0	0.02					
		121.0-126.0 moderate hematization-up to 950 counts per second	9319	121.0	126.0	5.0	Tr					
		126.0-131.0 slight hematization-up to 1200 counts per second in biotitic sec-	9320	126.0	131.0	5, 0	0.02					
		tions. Biotite 5% overall.						ļ		£.		
		131. 0-136. 0 slightly hematized, prominent milky quartz-up to 1100 counts per	9321	131.0	136.0	5.0	0.02			1.4.31	3	
		second.					1 = 1					
		136.0-142.0 moderate hematization-up to 800 counts per second	9322	136.0	142.0	6.0	0.02					
		142.0-147.0 moderate hematization, biotite up to 10%. Up to 700 counts per	9323	142.0	147.0	5.17	0.02					
		second. At end of section, 10 inch greenish yellow oxide stain.		<u> </u>		·						
		147.0-151.0 slightly hematized-up to 900 counts per second	9324	147.0	151.0	4.0	Tr	,				-
		151.0-156.0 slightly hematized-up to 1000 counts per second	9325	151.0	156.0	5.0	0.02				<b></b>	1
		156. 0-161. 0 slight to moderate hematization-up to 900 counts per second	9326	156.0	161.0	5.0	( 02	<u> </u>		-		
		161.0-166.0 1% pyrite throughout, no Radio Activity.	9327	161.0	166.0	5.0	0.02		ļ			
		166. 0-179. 0 slightly hematized, no Radio Activity.						<u> </u>				22.00
	1											

Property New Senator Rouyn Option, Alberta

Location of Core Surveys

Dip

At

Bearing

MCINTYRE	
PORCHDINE MINES LIMITED	

Hole No.	6313		Sheet I	No4	·	
Length of Hole					·	
Date Started			Comple	ted		
Core Logged by	··					
Date						
Elevation			Datum	. * * * · · · · · · · · · · · · · · · ·		
•	Co-ore	dinates of	Collar			
North				·		
East			· · · · · · · · · · · · · · · · · · ·	. , ,		

			<u> </u>		,			· · · · · · · · · · · · · · · · · · ·				
From	To	Description of Core	Sample	FOOT	TAGE	Width	Uα	0 <sub>8</sub>	CORE A	ASSAYS	-	
·			No.	From	То		0/0					
179.0	249.0	Biotite gneiss - no Radio Activity. 179.0-186.0 40% pegmatite injections.								. :		
		186.0-186.4 milky quartz vein at 55° to Core Angle. 186.4-195.0 gneisso-										
		·										
		196.2-220.0 5-10% pegmatite injections, gneissosity at 35°-50° to Core Angle	•					·				
		220.0-239.0 gneissosity at 60° to Core Angle. Two - 2 inch, 6 inch irregu-										
		lar milky quartz veins with traces pyrite, minor pegmatite injections.	·									
		239.0-249.0 10% pegmatite injections.							7			
249.0	257.0	Pegmatite-pink, hematized feldspars, no Radio Activity. In contact at 80° to									4.	
		Core Angle.										
257.0	270.5	Biotite gneiss-10% pegmatite injections.	. ·									
270.5	319.8	Pegmatite-minor biotite gneiss in places - no Radio Activity. 270.5-273.5		,								
		brecciated, hematized feldspar phenocrysts, contacts at 65° to Core Angle.										
		No Radio Activity. 273.5-281.0 mixed biotite gneiss and pegmatite.										
		281.0-319.8 pegmatite, no Radio Activity.										
319.8	404.2	Biotite gneiss. 319.8-327.5 gneissosity at 60°-45° to Core Angle. 6 inches										
	•	pegmatite around 323.3 feet. 327.5-328.0 fault zone-broken, Vuggy Core-		·								
		No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-	· · · · · · · · · · · · · · · · · · ·									
		torted in places.										
	179.0 249.0 257.0 270.5	From To  179.0 249.0  249.0 257.0  257.0 270.5  270.5 319.8  319.8 404.2	Biotite gneiss - no Radio Activity. 179.0-186.0 40% pegmatite injections.  186.0-186.4 milky quartz vein at 55° to Core Angle. 186.4-195.0 gneissosity at 45° to Core Angle. 195.0-196.2 barren, irregular, milky quartz vein.  196.2-220.0 5-10% pegmatite injections, gneissosity at 35°-50° to Core Angle.  220.0-239.0 gneissosity at 60° to Core Angle. Two - 2 inch, 6 inch irregular milky quartz veins with traces pyrite, minor pegmatite injections.  239.0-249.0 10% pegmatite injections.  249.0 257.0 Pegmatite-pink, hematized feldspars, no Radio Activity. In contact at 80° to Core Angle.  257.0 270.5 Biotite gneiss-10% pegmatite injections.  270.5 319.8 Pegmatite-minor biotite gneiss in places - no Radio Activity. 270.5-273.5 brecciated, hematized feldspar phenocrysts, contacts at 65° to Core Angle.  No Radio Activity. 273.5-281.0 mixed biotite gneiss and pegmatite.  281.0-319.8 pegmatite, no Radio Activity.  Biotite gneiss. 319.8-327.5 gneissosity at 60°-45° to Core Angle. 6 inches pegmatite around 323.3 feet. 327.5-328.0 fault zone-broken, Vuggy Core-No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-	No.  179. 0 249. 0 Biotite gneiss - no Radio Activity. 179. 0-186. 0 40% pegmatite injections.  186. 0-186. 4 milky quartz vein at 55° to Core Angle. 186. 4-195. 0 gneissosity at 45° to Core Angle. 195. 0-196. 2 barren, irregular, milky quartz vein.  196. 2-220. 0 5-10% pegmatite injections, gneissosity at 35°-50° to Core Angle.  220. 0-239. 0 gneissosity at 60° to Core Angle. Two - 2 inch, 6 inch irregular milky quartz veins with traces pyrite, minor pegmatite injections.  239. 0-249. 0 10% pegmatite injections.  249. 0 257. 0 Pegmatite-pink, hematized feldspars, no Radio Activity. In contact at 80° to Core Angle.  Biotite gneiss-10% pegmatite injections.  270. 5 319. 8 Pegmatite-minor biotite gneiss in places - no Radio Activity. 270. 5-273. 5  brecciated, hematized feldspar phenocrysts, contacts at 65° to Core Angle.  No Radio Activity. 273. 5-281. 0 mixed biotite gneiss and pegmatite.  281. 0-319. 8 pegmatite, no Radio Activity.  319. 8 404. 2 Biotite gneiss. 319. 8-327. 5 gneissosity at 60°-45° to Core Angle. 6 inches pegmatite around 323. 3 feet. 327. 5-328. 0 fault zone-broken, Vuggy Core-No Radio Activity. 328. 0-338. 0 gneissosity at 60° to Core Angle, but con-	To Bestiption of Core    Sample No.   Prom   179,0   249,0   Biotite gneiss - no Radio Activity. 179,0-186,0 40% pegmatite injections.   186,0-186,4 milky quartz vein at 55° to Core Angle. 186,4-195,0 gneissosity at 45° to Core Angle. 195,0-196,2 barren, irregular, milky quartz vein.   196,2-220,0 5-10% pegmatite injections, gneissosity at 35°-50° to Core Angle.   220,0-239,0 gneissosity at 60° to Core Angle. Two - 2 inch, 6 inch irregular milky quartz veins with traces pyrite, minor pegmatite injections.   239,0-249,0 10% pegmatite injections.   239,0-249,0 10% pegmatite injections.   Pegmatite-pink, hematized feldspars, no Radio Activity. In contact at 80° to Core Angle.   Biotite gneiss-10% pegmatite injections.   270,5   319,8   Pegmatite-minor biotite gneiss in places - no Radio Activity. 270,5-273,5   brecciated, hematized feldspar phenocrysts, contacts at 65° to Core Angle.   No Radio Activity. 273,5-281,0 mixed biotite gneiss and pegmatite.   281,0-319,8 pegmatite, no Radio Activity.   Biotite gneiss. 319,8-327,5 gneissosity at 60°-45° to Core Angle.   6 inches   pegmatite around 323,3 feet. 327,5-328.0 fault zone-broken, Vuggy Core-No Radio Activity, 328,0-338,0 gneissosity at 60° to Core Angle, but con-	No. From To  179.0 249.0 Biotite gneiss - no Radio Activity. 179.0-186.0 40% pegmatite injections.  186.0-186.4 milky quartz vein at 55° to Core Angle. 186.4-195.0 gneissosity at 45° to Core Angle.195.0-196.2 barren, irregular, milky quartz vein.  196.2-220.0 5-10% pegmatite injections, gneissosity at 35°-50° to Core Angle.  220.0-239.0 gneissosity at 60° to Core Angle. Two - 2 inch, 6 inch irregular milky quartz veins with traces pyrite, minor pegmatite injections.  239.0-249.0 10% pegmatite injections.  249.0 257.0 Pegmatite-pink, hematized feldspars, no Radio Activity. In contact at 80° to Core Angle.  257.0 270.5 Biotite gneiss-10% pegmatite injections.  270.5 319.8 Pegmatite-minor biotite gneiss in places - no Radio Activity. 270,5-273.5 brecciated, hematized feldspar phenocrysts, contacts at 65° to Core Angle.  No Radio Activity. 273.5-281.0 mixed biotite gneiss and pegmatite.  281.0-319.8 pegmatite, no Radio Activity.  319.8 404.2 Biotite gneiss. 319.8-327.5 gneissosity at 60°-45° to Core Angle. 6 inches pegmatite around 323.3 feet. 327.5-328.0 fault zone-broken, Vuggy Core-No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-	Prom To Description of Core Sample From To Width  179.0 249.0 Biotite gneiss - no Radio Activity. 179.0-186.0 40% pegmatite injections.  186.0-186.4 milky quartz vein at 55° to Core Angle. 186.4-195.0 gneisso-sity at 45° to Core Angle. 195.0-196.2 barren, irregular, milky quartz vein.  196.2-220.0 5-10% pegmatite injections, gneissosity at 35°-50° to Core Angle.  220.0-239.0 gneissosity at 60° to Core Angle. Two - 2 inch, 6 inch irregular milky quartz veins with traces pyrite, minor pegmatite injections.  239.0-249.0 10% pegmatite injections.  249.0 257.0 Pegmatite-pink, hematized feldspars, no Radio Activity. In contact at 80° to Core Angle.  Biotite gneiss-10% pegmatite injections.  270.5 Biotite gneiss-10% pegmatite injections.  270.5 319.8 Pegmatite-minor biotite gneiss in places - no Radio Activity. 270.5-273.5 bereciated, hematized feldspar phenocrysts, contacts at 65° to Core Angle.  No Radio Activity. 273.5-281.0 mixed biotite gneiss and pegmatite.  281.0-319.8 pegmatite, no Radio Activity.  319.8 407.2 Biotite gneiss. 319.8-327.5 gneissosity at 60°-45° to Core Angle. 6 inches pegmatite around 323.3 feet. 327.5-328.0 fault zone-broken, Vuggy Core-No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-	To Description of Core    Sample No.   From   To   Width   U3   From   To   Width   U3   179.0   249.0   Biotite gneiss - no Radio Activity. 179.0-186.0 40% pegmatite injections.   186.0-186.4 milky quartz vein at 55° to Core Angle. 186.4-195.0 gneissos-sity at 45° to Core Angle. 195.0-196.2 barren, irregular, milky quartz vein.   196.2-220.0 5-10% pegmatite injections, gneissosity at 35°-50° to Core Angle.   220.0-239.0 gneissosity at 60° to Core Angle. Two - 2 inch, 6 inch irregular milky quartz veins with traces pyrite, minor pegmatite injections.   239.0-249.0 10% pegmatite injections.   249.0   257.0   Pegmatite-pink, hematized feldspars, no Radio Activity. In contact at 80° to Core Angle.   257.0   270.5   Biotite gneiss-10% pegmatite injections.   270.5   319.8   Pegmatite-minor biotite gneiss in places - no Radio Activity. 270.5-273.5   brecciated, hematized feldspar phenocrysts, contacts at 65° to Core Angle.   No Radio Activity. 273.5-281.0 mixed biotite gneiss and pegmatite.   281.0-319.8 pegmatite, no Radio Activity.   319.8   40½.2   Biotite gneiss. 319.8-327.5 gneissosity at 60°-45° to Core Angle. 6 inches   pegmatite around 323.3 feet. 327.5-328.0 fault zone-broken, Vuggy Core-No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-	To Description of Core    179.0   249.0   Biotite gneiss - no Radio Activity. 179.0-186.0 40% pegmatite injections.   186.0-186.4 milky quartz vein at 55° to Core Angle. 186.4-195.0 gneisso-   sity at 45° to Core Angle. 195.0-196.2 barren, irregular, milky quartz vein   196.2-220.0 5-10% pegmatite injections, gneissosity at 35°-50° to Core Angle.   220.0-239.0 gneissosity at 60° to Core Angle. Two - 2 inch, 6 inch irregular milky quartz veins with traces pyrite, minor pegmatite injections.   239.0-249.0 10% pegmatite injections.   239.0-249.0 10% pegmatite injections.   249.0   257.0   Pegmatite-pink, hematized feldspars, no Radio Activity. In contact at 80° to   Core Angle.   257.0   270.5   Biotite gneiss-10% pegmatite injections.   270.5   319.8   Pegmatite-minor biotite gneiss in places - no Radio Activity. 270.5-273.5   brecciated, hematized feldspar phenocrysts, contacts at 65° to Core Angle.   No Radio Activity. 273.5-281.0 mixed biotite gneiss and pegmatite.   281.0-319.8 pegmatite, no Radio Activity.   270.5-45° to Core Angle.   No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-   No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-   No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-   No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-   No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-   No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-   No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-   No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-   No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-   No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-   No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-   No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-   No Radio Activity. 328.0-338.0 gneissosity at 60° to Core Angle, but con-   No R	From To Description of Core    179, 0 249, 0   Biotite gneiss - no Radio Activity, 179, 0-186, 0 40% pegmatite injections.   186, 0-186, 4 milky quartz vein at 55° to Core Angle. 186, 4-195, 0 gneissosity at 45° to Core Angle. 195, 0-196, 2 barren, irregular, milky quartz vein   196, 2-220, 0 5-10% pegmatite injections, gneissosity at 35°-50° to Core Angle.   220, 0-239, 0 gneissosity at 60° to Core Angle. Two - 2 inch, 6 inch irregular milky quartz veins with traces pyrite, minor pegmatite injections.   239, 0-249, 0 10% pegmatite injections.   239, 0-249, 0 10% pegmatite injections.   257, 0   Pegmatite-pink, hematized feldspars, no Radio Activity. In contact at 80° to   Core Angle.   257, 0   270, 5   Biotite gneiss-10% pegmatite injections.   270, 5   319, 8   Pegmatite-minor biotite gneiss in places - no Radio Activity. 270, 5-273, 5   brecciated, hematized feldspar phenocrysts, contacts at 65° to Core Angle.   No Radio Activity, 273, 5-281, 0 mixed biotite gneiss and pegmatite.   281, 0-319, 8 pegmatite, no Radio Activity.   270, 45° to Core Angle.   6 inches   pegmatite around 323, 3 feet, 327, 5-328, 0 fault zone-broken, Vuggy Core-   No Radio Activity, 328, 0-338, 0 gneissosity at 60° to Core Angle, but con-	To   Description of Core   Sample   No.   From   To   Width   U_30g   CORE ASSAYS	To   Description of Core   Sample   From   To   Width   UgOg   CORE ASSAYS

Property New Se	enator Rouyn	Option, Alberta
Location	*	
Claim No.		,
Location of Core		
	Surveys	
At	Dip	Bearing

## MCINTYRE PORCUPINE MINES LIMITED

Hole No.	68-13		Sheet	No. 5	
Length of Hole			<u> </u>		 _
Date Started			Comple	eted	 
Core Logged by					 t.
Date					 
Elevation			Datum		
•	Co-	ordinates of	Collar		
North					 <u>-</u> . :
East		· · · · · · · · · · · · · · · · · · ·			 

	From	To	Description of Core	Sample No.	FOOT	rage	Width	U3 08		CORE	ASSAYS		
				No.	From	То		0,00					
			338.0-359.0 probable faulting at 339.0 and 355.0-356.0										
			359.0-369.0 gneissosity at 65° to Core Angle, in some places contorted.										
			369. 0-375. 0 minor serpentinization in places										
			375.0-396.5 traces pyrite throughout, gneissosity generally at 35° to Core			•							in the second
			Angle, but some crumpling in places.									1	
								. •	r				All San
	404.2	405.7	Pegmatite - No Radio Activity.						A S				
,													
	405.7	406.0	. Biotite gneiss.				11 11 11					•	
			406.0 - End of Hole.	-									Carl Va
1								<i>:</i>					e de la companya de l
		٠.											
1		·									٠,		: 1 - (V
1			· · · · · · · · · · · · · · · · · · ·										12.2
1	•			~ <del>~~~~</del>									
				1 4.1	<del>!</del> !								4

Property New Senator Rouyn Option, N. E. Alberta Location Small Lake, 1 1/4 mile N. W. of Cherry Lake

Location of Core Left at drill site

Surveys Bearing Dip At 0 90° (due East) -45° Collar (corrected for capillarity) 425' -42°

"Ax "Core

PORCUPINE MINES LIMITED

Hole No	68 - 14	11 × 12 × 11 × 11	Sheet No	1	
Length of	Hole 4251	. 4. *			
Date Starte	d 21 October	1968	Completed	24 Oct	. 1968
	ed byW.				······································
Date	24 October 1	968	4 4 A	•	
and the second second			Datum		
		ordinates of C			
North	2 + 63	Small Lake	e Grid		. 1
Fast	0 + 05				

From	To	Description of Core	Sample	F001	TAGE	Width	%		CORE AS	SAVS		
·				From	То		U3O8		N N			
0.0	6.0	Casing									. 1,	
6.0		Quartz-feldspar-biotite gneiss with minor pegmatite intrusions, traces pyrite										
		throughout, occasional trace chalcopyrite, molybdenite, pyrrhotite.									•	
		6.0 - 9.0 Two - 6, 10 irregular pegmatite dykes, general gneissosity at 65° to	9328	6.0	9.0	3.0	TF					
		C. A., slight radioactivity.									-	
		9.0 - 14.0 Two - 18", 10" brecciated pegmatite dykes at 60° to CA, slight	9329	9.0	14.0	5.0	0,02	ا سرا	. <del></del> e.			
		radioactivity						ŧ	;`**			
		14.0 - 19.5 Two - 18", 6" pegmatite dykes at 65° to C.A.	9330	14.0	19.5	5. 5	Tr					
		Includes 18" lost core, slight radioactivity.										
		19.5 - 21.0 - 12" brecciated pegmatite dyke, contacts lost, slight radioacitvity	9331	19.5	21.0	1.5	0.01		•			
		21.0-25.0-40% pegmatite intrusions, no radioactivity, gneissosity at 55°						,				
		- 45° to C. A.			. ,							
		25.0 - 30.0 augen texture, slight to moderate radioactivity	9332	25.0	30.0	5.0	Tr					
		30.0 - 35.0 as preceding, gneissosity at 45° to C.A.	9333	30. 0	35.0	5.0	0.03					
		35.0 - 40.0 25% pegmatite injections	9334			5.0	0.03					
		40.0 - 44.0 last 12" is brecciated pegmatite	9335	40.0	44.0	4.0	0,02					
						29						
		v.	:									

Claim No. Location of Core Surveys

Dip

At

Property New Senator Rouyn Option, N. E. Alberta

Bearing

MCINTYRE
DODOUDING MINES TRAMED

Mc]	$\mathbf{IVI}$	'YI	$\mathbf{RE}$
OPCLIDE	NE MIN	ES LIN	(TTED

Hole No.	68-14	Sheet No. 2
Length of Hole		
Date Started		Completed
Core Logged by		
Date		1 - 4 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5
Elevation	1	Datum
North	Co-ordinates of Colla	
Fact		

From		To	Description of Core	Sample	FOO'	rage	Width	h CORE ASSAYS					
				No.	From	To		U3O8	308		1001120		
		4	44.0 - 49.0 gneissosity at 55° to C.A., brecciated	9336	44.0	49.0	5.0	0.02		5, 29 37 5, 18 27			3 °
			49.0 - 52.0 slight radioactivity	9337	49.0	52.0	3. 0	Tr					
			52.0 - 57.0 slight radioactivity	9338	52.0	57.0	5.0	Tr					
			57.0 - 58.0 Pegmatite dyke, moderate radioactivity. Contact at 70° to C.A.	9339	57.0	58.0	1.0	0,07					
			58.0 - 62.0 low radioactivity, greenish yellow alteration on feldspars	9340	58.0	62.0	4. 0	0,02					
			62.0 - 67.0 low radioactivity, greenish yellow alteration on feldspars, 10 %	9341	62.0	67.0	5. 0	Tr					
			pegmatite inclusions							Š			
			67.0 - 71.0 10" pegmatite dyke at 55° to CA, some hematization traces pyrite	9342	67.0	71.0	4.0	Tr				7 3 AM	
			at contacts							***			
			71.0 - 75.0 18" pegmatite, irregular contacts, crushed and broken feldspar	9343	71.0	75.0	4.0	0.04					
			phenocrysts up to l"										
			75.0 - 80.0 gneissosity at 45° to C.A., slight, spotty radioactivity contact at	9344	75.0	80.0	5. 0	0.01		. 5			
,			79.0 with following rock type										
	1		79.0 - 86.0 porphyritic gneiss, some hematization. In at 30°, out at 45° to						, . , .				
			C. A., no radioactivity.										
							,		-				

Claim No. Location of Core Surveys Dip

At

Property New Senator Rouyn Option, N. E. Alberta

Bearing

-	Hole No.	68 - 14	Sheet No. 3
	Length of Hole	·····	
	Date Started		Completed
	Core Logged by		
	Date		
	Elevation		Datum
		Co-ordinates of Colla	
	North		
	East		

			·						· · · · · · · · · · · · · · · · · · ·		<u> </u>		
	From	To	Description of Core	Sample	FOOT	TAGE	Width			CORE ASSAYS			
				No.	From	To		U3O8					
			86.0 - 103.0 porphyritic in places, no radioactivity, slight hematization in places.	ces									
			103.0 - 116.0 very minor pegmatite injections, less than 10%, local hematiz -										
			ation, no radioactivity.				.*	•					
			116.0 - 124.0 pegmatite, no radioactivity, end contact at 55° to C.A.				-				. •		
			124.0 - 132.0 gneissosity at 55° to C.A.										
	132.0	161.5	Pegmatite			•		•					<b>3</b> (2.2)
			132.0 - 154.0 some hematization, no radioactivity, minor quartz-feldspar -										
			biotite gneiss in places (less than 10%) at 45° - 20° to C.A.				1.0			.1		. : .	
		-,	154.0 - 158.0 slight radioactivity	9345	154.0	158.0	4. 0	Tr					
. •			158.0 - 161.5 brecciated, slight to moderate radioactivity, gneissosity at 60°	9346	158.0	161.5	<b>3.</b> 5	0.06					
			to C. A.						9.				
<u> </u>	161.5	270.5	Quartz-feldspar-biotite gneiss, traces pyrite throughout				·		0.0	47/	á		ordiffo.
			161.5 - 163.3 moderate radioactivity, traces pyrite, molybdenite	9347	161.5	163. 3	1.8	0,04		/ 15.		·	
,			163.3 - 168.3 slight to moderate radioactivity, brecciated, gneissosity at 45°	9348	163. 3	168.3	5.0	0.03		/.			· · · · · · · · · · · · · · · · · · ·
			to C.A., 20% pegmatite										6
			168.3 - 173.0 brecciated, 25% pegmatite, slight radioactivity	9349	168.3	173.0	4.7	0,06					
							•.						
						, '							

Claim No. Location of Core Surveys

Dip

At

Property New Senator Rouyn Option, N. E. Alberta

Bearing

$\mathbf{M_{CIL}}$	$\mathbf{A}.\mathbf{T}$	$\mathbf{Y}$	RE
DODCIDINE	MINE	S T.	MITED

McIN	1T	YF	Œ
PORCUPINE	MINE	S LIM	ITED

Hole No.	68 -	14			Sheet N	0	4	
Length of Hole.		· .		·				
Date Started					Complet	ed		
Core Logged by		<u>:</u>	· 					
Date	*							
Elevation				······································	Datum		. <u></u>	
	C	o-ordi	nates	of Col	lar 💮 🔻		1.1.	
North								
Fact					* *		•	

 				<del>,</del>				<del></del>		<u> </u>	-	
From	To	Description of Core	Sample No.	FOO'	rage	Width	%		CORE A	ASSAYS		
			140.	From	То		U3O8					
		173.0 - 178.0 slight radioactivity, gneissosity at 45° - 55° to C.A.	9350	173.0	178.0	5.0	Tr					
		178.0 - 185.5 gneissosity pronounced at 50° to C.A., 5% pegmatite. Includes	9838	178.0	185.5	7.5	TV					
		30" lost core, slight radioactivity										
		185.5 - 190.5 much folding and brecciation, gneissosity at 45° - 65° to C.A.,	9839	185.5	190.5	5.0	Tr			· · .	:	
		slight radioactivity					·					
		190.5 - 195.5 20% pegmatite, considerable hematization, slight radioactivity	9840	190.5	195.5	5.0	Tr					
		195.5 - 199.5 mainly pegmatite, pronounced brecciation, hematization, large						4.	2 july 3 july 3 july			
		broken feldspar patches up to l'', no radioactivity		·:								
		199.5 - 201.5 hematized, less brecciated, gneissosity at 60° to C.A. no										
· · · · · · · · · · · · · · · · · · ·		radioactivity							, 4			
		201.5 - 203.0 pronounced hematization, slight radioactivity	9841	201.5	203.0	1.5	0,03		. 3. 3. 1. 3.			
		203.0 - 218.5 variable gneissosity with cross-fracturing at right angles, no	,			,				·		14.
		radioactivity, 5 - 10% pegmatite. At 218.5, 5" barren, irregular milky quartz	s									
		218.5 - 227.0 gneissosity at 45° - 55° to C.A.										
		227.0 - 235.0 mainly pegmatite, brecciated, no radioactivity					ė,				200	
												1
	•											

Location of Core Surveys

Dip

At

Property New Senator Rouyn Option. N. E. Alberta

Bearing

McIN	1T2	IR	Æ
PORCLIPINE	MINES	LIMI	TED

	$\mathbf{A} \mathbf{A}$	40			D		7.			
DI	AΛ	ΛU	4N	U	אי	, J L	-L	L	U	u

Length of Hol	e						,				
Date Started						Com	plete	1		s .	 
Core Logged by	y						• •	: .	1. j. 1.		 -
Date	· · · · · · · · · · · · · · · · · · ·		· 								
Elevation						Date	um	,. 16 		· 	-
		Co-o	rdinat	es of	Coll	ar					٠.
North									, 		 
East		•			,	7 - 1 <sub>2 3</sub>					

				<u>,</u>	<u> </u>					- W. S.		
From	To	Description of Core	Sample	FOOT	rage	Width	120x	,	CORE A	ASSAYS		
11011		Description of Core	No.	From	To		0/0	%	NI	g <sub>i</sub>	Ag OL	
		235.0 - 244.5 10% pegmatite, both greenish-yellow and white angular to				:						
		rounded feldspar phenocrysts up to 1/2", scarcely detectable radioactivity										\$ 1. 1
		244.5 - 249.5 gneissosity at 45° - 60° to C.A., brecciation along gneissosity,										. ,
		slight hematization, considerable granitization, very slight radioactivity										45.0
		249.5 - 253.0 white and greenish-yellow feldspar phenocrysts up to 1/2",						7.				<u> </u>
	·	broken and elongated along gneissosity at 65° to C.A., very slight radioactivit	У									
		253.0 - 260.0 50% pegmatite injections, porphyritic in places, gneissosity at	2									
		65° to C.A., some brecciation of feldspar phenocrysts, some greenish-yellow						ing Sparing (				
		staining of feldspars, slight hematization, very slight radioactivity in places										
		260.0 - 270.5 porphyritic, feldspars up to 1", broken in places, gneissosity in			,							
		places at 65° to C.A.									1	3 2 2 2
270.	5 425.0	Quartz-feldspar-biotite porphyry. Feldspar phenocrysts up to 1 1/2", in places	9845		·							
		resembling chicken feed lava, occasional hornblende crystals, 1% dissemin -	9846-	276.0	281.0	5.0	TV	0.01	Tv	N:1	N;/	
		ated pyrite throughtout										
		328.0 - 345.0 slightly gneissose in places at 65° to C.A., some brecciation of										

McIN	<b>ITYR</b>	E
DODCLIDING	MINES TIME	TET

	m			
	New Senator	Rouyn Option, N. E. Alberta		TA
rt	,	Todyn Option, N. E. Alberta	•	PO

Moll	1.T.	Y	K	,Ł
PORCUPINE	MINE	ES I	IMI	TEL

Proper

Location of Core Surveys Dip Bearing At

Hole No.	68 -	14	; i	: 's		Sheet	No	6	
Length of Hole.									
Date Started					•	Comp	leted		 
Core Logged by.					·	-			 
Date					•				 
Elevation						Datun	n		 
		Co-c	ordinat	es of	Coll	lar 🎺			
North									 
East					. :			•	

From	То	Description of Core	Sample	FOO'	FAGE	Width		CORF	ASSAYS	
110			No.	From	То					
		feldspars which appear to be of two different ages, 1% pyrite throughout				-				
		345.0 - 403.0 much as preceding but quartz-feldspar section from 364.0 -								
		366.0 no radioactivity but trace molybdenite, chalcopyrite			-					
		403.0 - 404.5 scarcely detectable radioactivity	-	-						
		404.5 - 425.0 fairly massive, no radioactivity								1
425.0		End of Hole						1		
		Sludjar								
		Sample No. Footage % Uzos								
		183.0-1630 10.0 0.06						 		
	,	163.0-173.0 10,0 0.06								
	······································	173.0-203.0 10.0 0.02						. :		
				1			1	,		

# EXPLORATION DEPARTMENT Property New Senator Option, N. E. Alberta Location Small Lake, 1 1/4 miles N. W. of Cherry Lake

$\mathbf{W}_{\mathbf{C}}\mathbf{I}_{\mathbf{V}}$	1.T.	Y	H	$\pm$
DODOLIDINE	MIN	FØ 1		TED

Claim No.

Location of Core Left at drill site

•		Surveys	
	At	Dip	Bearing
	Collar	-46°	090° (due East)
	2801	-45°	(corrected for capillarity)
	480¹	-41°	( 11 11 11 )

AX" Core

Hole No	69-1		Sheet No	1
Length of H	ole 482.	0 feet		
Date Started	January 11, 1	969	Completed Jan	17, 1969
Core Logged	by W. H. 7 anuary 17, 196	Thorpe		
Elevation	······································	<u></u>	Datum	······································
	Co-ord	linates of Co	llar	
North	2 + 63	}		
Eask	1 + 00 W	Titme	e Lake Grid	

From	To	Description of Core	Sample	F007	TAGE	Width	CORE ASSAYS					
			No.	From	To							
0	5	CASING								7.		
5 <b>.</b> 0 .	190.0	Pink biotite granite, traces pyrite throughout										
		5.0 - 19.0 Slightly gneissic at 45° to the line of hole, no appreciable radioactive	vity									
			l									
		radioactivity							•			
· .		40.0-61.0 fairly massive, occasionally porphyritic with feldspar phenocrysts	·.				•					
· <del></del>		up to 1/4"			•							
		61.0-74.5 massive, medium grained to coarse grained				1						
		74.5-79.5 30% quartz-feldspar-biotite gneiss, gneissosity at 70°-55° to the lin	ıe									
		of hole										
		79.5-99.0 coarser grained than preceding, occasional minor quartz-feldspar-										
		biotite gneiss up to 10%, no radioactivity										
4		99.0-118.0 becoming coarser grained and approaching pegmatite in character,	-		··							
		no radioactivity										
		118.0-137.0 10% pegmatite in patches, feldspars are much fractured, no										
		radioactivity									,	
							:					
									1			
	From 0 5.0	0 5 5 190.0	O 5 CASING 5.0 190.0 Pink biotite granite, traces pyrite throughout 5.0 - 19.0 Slightly gneissic at 45° to the line of hole, no appreciable radioactivity 19.0 - 40.0 fairly massive, slightly brecciated from 19.0-21.0, nopappreciable radioactivity 40.0-61.0 fairly massive, occasionally porphyritic with feldspar phenocrysts up to 1/4" 61.0-74.5 massive, medium grained to coarse grained 74.5-79.5 30% quartz-feldspar-biotite gneiss, gneissosity at 70°-55° to the line of hole 79.5-99.0 coarser grained than preceding, occasional minor quartz-feldspar-biotite gneiss up to 10%, no radioactivity 99.0-118.0 becoming coarser grained and approaching pegmatite in character, no radioactivity 118.0-137.0 10% pegmatite in patches, feldspars are much fractured, no	No.  0 5 CASING 5.0 190.0 Pink biotite granite, traces pyrite throughout 5.0 - 19.0 Slightly gneissic at 45° to the line of hole, no appreciable radioactivity 19.0 - 40.0 fairly massive, slightly brecciated from 19.0-21.0, no appreciable radioactivity 40.0-61.0 fairly massive, occasionally porphyritic with feldspar phenocrysts up to 1/4" 61.0-74.5 massive, medium grained to coarse grained 74.5-79.5 30% quartz-feldspar-biotite gneiss, gneissosity at 70°-55° to the line of hole 79.5-99.0 coarser grained than preceding, occasional minor quartz-feldspar-biotite gneiss up to 10%, no radioactivity 99.0-118.0 becoming coarser grained and approaching pegmatite in character, no radioactivity 118.0-137.0 10% pegmatite in patches, feldspars are much fractured, no	From To Description of Core Sample No. From  0 5 CASING 5.0 190.0 Pink biotite granite, traces pyrite throughout 5.0 - 19.0 Slightly gneissic at 45° to the line of hole, no appreciable radioactivity 19.0 - 40.0 fairly massive, slightly brecciated from 19.0-21.0, now appreciable radioactivity 40.0-61.0 fairly massive, occasionally porphyritic with feldspar phenocrysts up to 1/4" 61.0-74.5 massive, medium grained to coarse grained 74.5-79.5 30% quartz-feldspar-biotite gneiss, gneissosity at 70°-55° to the line of hole 79.5-99.0 coarser grained than preceding, occasional minor quartz-feldspar-biotite gneiss up to 10%, no radioactivity 99.0-118.0 becoming coarser grained and approaching pegmatite in character, no radioactivity 118.0-137.0 10% pegmatite in patches, feldspars are much fractured, no	CASING  5.0 190.0 Pink biotite granite, traces pyrite throughout  5.0 - 19.0 Slightly gneissic at 45° to the line of hole, no appreciable radioactivity  19.0 - 40.0 fairly massive, slightly brecciated from 19.0-21.0, nopappreciable radioactivity  40.0-61.0 fairly massive, occasionally porphyritic with feldspar phenocrysts up to 1/4"  61.0-74.5 massive, medium grained to coarse grained 74.5-79.5 30% quartz-feldspar-biotite gneiss, gneissosity at 70°-55° to the line of hole  79.5-99.0 coarser grained than preceding, occasional minor quartz-feldspar- biotite gneiss up to 10%, no radioactivity 99.0-118.0 becoming coarser grained and approaching pegmatite in character, no radioactivity 118.0-137.0 10% pegmatite in patches, feldspars are much fractured, no	From To Description of Core Sample No. From To Width  0 5 CASING 5.0 190.0 Pink biotite granite, traces pyrite throughout 5.0 - 19.0 Slightly gneissic at 45° to the line of hole, no appreciable radioactivity 19.0 - 40.0 fairly massive, slightly brecciated from 19.0-21.0, no appreciable radioactivity 40.0-61.0 fairly massive, occasionally porphyritic with feldspar phenocrysts up to 1/4" 61.0-74.5 massive, medium grained to coarse grained 74.5-79.5 30% quartz-feldspar-biotite gneiss, gneissosity at 70°-55° to the line of hole 79.5-99.0 coarser grained than preceding, occasional minor quartz-feldspar-biotite gneiss up to 10%, no radioactivity 99.0-118.0 becoming coarser grained and approaching pegmatite in character, no radioactivity 118.0-137.0 10% pegmatite in patches, feldspars are much fractured, no	From To Description of Core    Sample No.   From To   From To	From To Description of Core    Sample No.   From To   From To	From To Description of Core No. From To Width CORE A To	From To Description of Core Sasars From To Width CORE ASSATS  0 5 CASING 5.0 190.0 Pink biotite granite, traces pyrite throughout 5.0 - 19.0 Slightly gneissic at 45° to the line of hole, no appreciable radioactivity 19.0 - 40.0 fairly massive, slightly brecciated from 19.0-21.0, nopappreciable radioactivity 40.0-61.0 fairly massive, occasionally porphyritic with feldspar phenocrysts up to 1/4" 61.0-74.5 massive, medium grained to coarse grained 74.5-79.5 30% quartz-feldspar-biotite gneiss, gneissosity at 70°-55° to the line of hole 79.5-99.0 coarser grained than preceding, occasional minor quartz-feldspar-biotite gneiss up to 10%, no radioactivity 99.0-118.0 becoming coarser grained and approaching pegmatite in character, no radioactivity 118.0-137.0 10% pegmatite in patches, feldspars are much fractured, no	From To  Description of Core  No.   From To   From To

# Property New Senator Option, N. E. Alberta Location Claim No. Location of Core Surveys At Dip Bearing

$\mathbf{McIN}$	1TX	RE
PORCUPINE	MINES	LIMITEL

Hole No.	69-1	Sheet No. 2
Length of Hole		
Date Started		Completed
Core Logged by		
Date	·.	
Elevation		Datum
	Co-ordinates of Co	llar 💮
North		
East		

From	To	Description of Core	Sample	FOOT	rage	Width	U <sub>3</sub> O <sub>8</sub>	CORE ASSAYS		·.,	
			No.	From	То		0 <sub>3</sub> 0 <sub>8</sub>				
		137.0-156.5 feldspar phenocrysts up to l'' in diameter, occasional trace				. `	·				
,		molybdenite, pyrite									
		156.5-177.0 up to 20% quartz-feldspar-biotite gneiss with gneissosity at 45° to									
		line of hole, traces molybdenite, pyrite						 		*	
		177. 0-190. 0 partly pegmatitic, slight spotty radioactivity		. ,							
190.0	238.0	Quartz - Feldspar - Biotite Gneiss						100			
		190.0-194.0 gneissosity at 60° to the line of hole, slight radioactivity in local,									
		very limited, spots									
		194. 0-200. 0 increase in radioactivity	9730	196.0	200.0	4.0	0.03				
		200.0-219.0 slight gneissosity at 50°-65° to line of hole, traces pyrite, local								1 9 A .	
		pegmatite inclusions	i				<u> </u>				
		219.0-232.0 5% pegmatite intrusions, very faint radioactivity, up to 1% pyrite		·					3		
		232.0-234.0 slight radioactivity, mainly pegmatite with hematite stain on							i sylv		
		feldpars	9731	232.0	234.0	2.0	0.02				
		234.0-238.0 50% pegmatite			-						
238.0	298.5	Pegmatite									

Surveys Dip

Location of Core

MCINTY	RE
DODOTIDING MINES TO	-

	MCINT
Property New Senator Option, N. E. Alberta	
Property 110 W Deliated Opening 11. 11. 11. 11. 11.	PORCUPINE MINES
Location	

Bearing

Hole No.	69-1	Sheet No. 3	
Length of Hole			
Date Started		Completed	
Core Logged by			
Date			
Elevation	<del></del>	Datum	
	Co-ordinates of Colla		
North			
East			

To	To Description of Core		FOOTAGE								
10	Description of Core	Sample No.	From	To	Width	U <sub>3</sub> O <sub>8</sub>	M <sub>0</sub> S <sub>2</sub>	CORE	ASSAYS		
	238, 0-243, 0 slightly radioactive, hematite stained feldspars	9732	238.0	243.0	5.0	0.01					
	243.0-251.0 still hematite stain but no radioactivity										
	251.0-256.5 some undigested quartz-feldspar-biotite gneiss, no radioactivity							: :			
	· ·										
	porphyritic, hematite stain on feldspars but no radioactivity			*							
	276.0-298.5 feldspars with slight hematite stain but generally noradioactivity					•					
315.5	·										
	298.5-300.0 no radioactivity				*						
	300.0-302.5 pegmatite dyke, slight radioactivity in places, possibly traces	-									
	molybdenite	9733	300.0	302.5	2.5	0.04	0.06				
	302.5-307.5 slight to moderate radioactivity, 50% pegmatite, possibly traces							\.			
		9734	302.5	307.5	5.0	0.06	0.06				
	307. 5-315. 5 mainly pegmatite. Quartz-rich section from 309. 5 to 313. 0 which	-				,			\.		
	could be metamorphosed quartzite								\.		
337.0	Pegmatite									X K	
						· · · · · · · · · · · · · · · · · · ·					
		-			:		-		,	,	
	-	238.0-243.0 slightly radioactive, hematite stained feldspars 243.0-251.0 still hematite stain but no radioactivity 251.0-256.5 some undigested quartz-feldspar-biotite gneiss, no radioactivity 256.5-276.0 varies from coarse grained to fine grained, some sections porphyritic, hematite stain on feldspars but no radioactivity 276.0-298.5 feldspars with slight hematite stain but generally noradioactivity 4" of slight radioactivity around 288.5. Gneissosity at 60° to line of hole 315.5 Quartz-Feldspar-Biotite Gneiss 298.5-300.0 no radioactivity 300.0-302.5 pegmatite dyke, slight radioactivity in places, possibly traces molybdenite 302.5-307.5 slight to moderate radioactivity, 50% pegmatite, possibly traces molybdenite, brecciated 307.5-315.5 mainly pegmatite. Quartz-rich section from 309.5 to 313.0 which could be metamorphosed quartzite	238. 0-243. 0 slightly radioactive, hematite stained feldspars  243. 0-251. 0 still hematite stain but no radioactivity  251. 0-256. 5 some undigested quartz-feldspar-biotite gneiss, no radioactivity  256. 5-276. 0 varies from coarse grained to fine grained, some sections  porphyritic, hematite stain on feldspars but no radioactivity  276. 0-298. 5 feldspars with slight hematite stain but generally noradioactivity  4" of slight radioactivity around 288. 5. Gneissosity at 60° to line of hole  315. 5 Quartz-Feldspar-Biotite Gneiss  298. 5-300. 0 no radioactivity  300. 0-302. 5 pegmatite dyke, slight radioactivity in places, possibly traces  molybdenite  9733  302. 5-307. 5 slight to moderate radioactivity, 50% pegmatite, possibly traces  molybdenite, brecciated  9734  307. 5-315. 5 mainly pegmatite. Quartz-rich section from 309. 5 to 313. 0 which  could be metamorphosed quartzite	238.0-243.0 slightly radioactive, hematite stained feldspars 9732 238.0 243.0-251.0 still hematite stain but no radioactivity 251.0-256.5 some undigested quartz-feldspar-biotite gneiss, no radioactivity 256.5-276.0 varies from coarse grained to fine grained, some sections porphyritic, hematite stain on feldspars but no radioactivity 276.0-298.5 feldspars with slight hematite stain but generally noradioactivity 4" of slight radioactivity around 288.5. Gneissosity at 60° to line of hole 315.5 Quartz-Feldspar-Biotite Gneiss 298.5-300.0 no radioactivity 300.0-302.5 pegmatite dyke, slight radioactivity in places, possibly traces molybdenite 9733 300.0 302.5-307.5 slight to moderate radioactivity, 50% pegmatite, possibly traces molybdenite, brecciated 9734 302.5 307.5-315.5 mainly pegmatite. Quartz-rich section from 309.5 to 313.0 which could be metamorphosed quartzite	Description of Core  238. 0-243. 0 slightly radioactive, hematite stained feldspars 243. 0-251. 0 still hematite stain but no radioactivity 251. 0-256. 5 some undigested quartz-feldspar-biotite gneiss, no radioactivity 256. 5-276. 0 varies from coarse grained to fine grained, some sections porphyritic, hematite stain on feldspars but no radioactivity 276. 0-298. 5 feldspars with slight hematite stain but generally noradioactivity 4" of slight radioactivity around 288. 5. Gneissosity at 60° to line of hole 315. 5 Quartz-Feldspar-Biotite Gneiss 298. 5-300. 0 no radioactivity 300. 0-302. 5 pegmatite dyke, slight radioactivity in places, possibly traces molybdenite 9733 300. 0 302. 5 302. 5-307. 5 slight to moderate radioactivity, 50% pegmatite, possibly traces molybdenite, brecciated 9734 302. 5 307. 5 307. 5-315. 5 mainly pegmatite. Quartz-rich section from 309. 5 to 313. 0 which could be metamorphosed quartzite	Description of Core  238, 0-243, 0 slightly radioactive, hematite stained feldspars 243, 0-251, 0 still hematite stain but no radioactivity 251, 0-256, 5 some undigested quartz-feldspar-biotite gneiss, no radioactivity 256, 5-276, 0 varies from coarse grained to fine grained, some sections porphyritic, hematite stain on feldspars but no radioactivity 276, 0-298, 5 feldspars with slight hematite stain but generally norarioactivity 4" of slight radioactivity around 288, 5. Gneissosity at 60° to line of hole 315, 5 Quartz-Feldspar-Biotite Gneiss 298, 5-300, 0 no radioactivity 300, 0-302, 5 pegmatite dyke, slight radioactivity in places, possibly traces molybdenite 9733 300, 0 302, 5 2, 5 302, 5-307, 5 slight to moderate radioactivity, 50% pegmatite, possibly traces molybdenite, brecciated 9734 302, 5 307, 5 5, 0 307, 5-315, 5 mainly pegmatite. Quartz-rich section from 309, 5 to 313, 0 which could be metamorphosed quartzite	The Description of Core  238. 0-243. 0 slightly radioactive, hematite stained feldspars  238. 0-243. 0 slightly radioactive, hematite stained feldspars  243. 0-251. 0 still hematite stain but no radioactivity  251. 0-256. 5 some undigested quartz-feldspar-biotite gneiss, no radioactivity  256. 5-276. 0 varies from coarse grained to fine grained, some sections porphyritic, hematite stain on feldspars but no radioactivity  276. 0-298. 5 feldspars with slight hematite stain but generally noradioactivity  4" of slight radioactivity around 288. 5. Gneissosity at 60° to line of hole  315. 5 Quartz-Feldspar-Biotite Gneiss  298. 5-300. 0 no radioactivity  300. 0-302. 5 pegmatite dyke, slight radioactivity in places, possibly traces molybdenite  9733 300. 0 302. 5 2. 5 0. 04  302. 5-307. 5 slight to moderate radioactivity, 50% pegmatite, possibly traces molybdenite, brecciated  9734 302. 5 307. 5 5. 0 0.06  307. 5-315. 5 mainly pegmatite. Quartz-rich section from 309. 5 to 313. 0 which could be metamorphosed quartzite	To     Description of Core     Sample   No.     From   To   U 308   M <sub>0</sub> S2   M <sub>0</sub> S	To   Description of Core   Sample   From   To   Width   U <sub>3</sub> O <sub>8</sub>   M <sub>0</sub> S <sub>2</sub>   CORE	238. 0-243. 0 slightly radioactive, hematite stained feldspars   9732   238. 0 243. 0 5. 0   0. 01	Description of Core    Sample No.   From   To   Width   U3O8   M0S2   W8   W8   W8   W8   W8   W8   W8   W

Location

MCINTYRE
DODCTIDING MINES LIMITED

	400 12 47 12 12 12 13 45 15 16 16 16 16 16 16 16 16 16 16 16 16 16	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	# 5 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m	•
Property	New Senator	Option,	N. E. Alberta	•

	_		•	_		_
PO	RCU	PINE	M	IINE	ės j	LIN

Claim No. Location of Core

Surveys Dip Bearing At

Hole No.	9-1				Sheet	No.	4		
Length of Hole									
Date Started					Comp	leted			
Core Logged by	·								
Date									
Elevation					Datur	n			
	C	o-ordi	nates	of Co	llar			1	11
North							•		
East									 · .

From		To.	Description of Core			FOOTAGE				CORE A	CORE ASSAYS		
	From	To	Description of Core	Sample No.	From	From To		U <sub>3</sub> O <sub>8</sub>					
•			315.5-337.0-20% quartz-feldspar-biotite gneiss, no radioactivity. Slight						-				
			gneissosity at 55° to the line of hole							V.			
	337.0	358.0	Fault zone-mainly brecciated quartz-feldspar-biotite gneiss, 5% pegmatite								, , , , , , , , , , , , , , , , , , ,		
			337.0-341.5 greenish tinged brecciated feldspars, no radioactivity	· · · · · · · · · · · · · · · · · · ·									
•			341.5-342.5 red mud, no radioactivity								·		
			342.5-358.0 occasional minor hematite stain on feldspars which are often	<u> </u>									
			fractured. Fracture with slight radioactivity around 357.5'										
	358.0	482.0	Quartz-feldspar-biotite gneiss										
•			358.0-384.5 gneissosity at 65° to the line of hole, 35% pegmatite injections, no	. 1.									
			radioactivity	+ <i>i</i>									
			399.0-405.0 occasional large feldspar phenocrysts up to 3/4", 20% pegmatite										
			no radioactivity										
•			405.0-424.0 biotite rich, quartz poor, traces pyrite, no radioactivity,						<u> </u>		\$ B		
•			gneissosity at 55° to the line of hole						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
			424.0 - 445.0 occasionally porphyritic, sometimes gneissose at 60° to the line										
				<u></u>									
						٠.	,						
		·											
		· · · · · · · · · · · · · · · · · · ·	and the contract of the contra	and discontinuous of the con-							ر دوران شودشدون		

Property New Senator Option, N. E. Alberta

Claim No. Location of Core Surveys Dip

At

Bearing

McIN	1T	YF	<b>XE</b>
ORCUPINE	MINE	S LIN	(ITED

McIN	1T	Y	RE
ORCUPINE	MINE	es li	MITED

Hole No.	69-1		Sheet No	5	
Length of Hole					
Date Started			Completed .		
Core Logged by	·	•••••		*******	
Date	·				
Elevation	•		Datum		
		Co-ordinates of Co	llar		
North					
East				ing and the	

 	·							5 to 14 to 1				
From	To	Description of Core	Sample F					į.	CORE ASSAYS			
			No.	From	То		U <sub>3</sub> O <sub>8</sub>	-				
		of hole, very slight radioactivity on local fractures					. ,					
		445.0-455.0 as before										
		455.0-460.0 slight radioactivity	9735	455.0	460.0	5.0	0.03					
		460.0-465.0 slight hematite stain on feldspars, very slight radioactivity.										
		Gneissosity at 55° to the line of hole								10 + 5 1		
		465.0-482.0 no radioactiviity										
	482.0	End of Hole										
		Sludges	·	• • • • • • • • • • • • • • • • • • • •					15: 13:	4		
		Sample No. Footage Width U3O8 %										
		9736 280.0-290.0 10.0' 0.01					: .				**	
1		9737 300.0-310.0 10.0' 0.04				:		<u>\</u>				
		9738 320.0-330.0 10.0 0.04						,				
			·					•	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
							1 .		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

New Senator Rouyn Option, NE Alberta

Ocation Approximately 1 1/4 miles NW of Cherry Lake

McIN	1TY	RE
DODCTIDINE	MINEG	TIME

			-	
Claim	NI.			
Chaim	INO.			

Location of Core North shore of Small Lake

			Juiveys	
	·.*	At	Dip	Bearing
-		Collar	<b>-</b> 45°	090° (due East)
		450'	-39°	(corrected for capillarity)
			•	

"AX" Core

Hole No	69 - 2	)		Sheet No.	]	·
Length of H	Hole 461.	0 feet				
Date Started	<b>-</b>	y 19, 1969	9	Completed	Jan 2	22, 1969
Core Logge	d byW	H. Thor	ре			
Date	20 - 22 J	anuary l	969			
Elevation	Surface			. Datum		
	- Com	Co-ordinates	of Col	lar		
North	Surface	3 + 33	)Sm	all Lake	Grid	
***		1 + 50 W	7)			

From		To	Description of Core	Sample	FOOTAGE		Width			COPE	ACCANC		
			Description of Core	No.	From	То	With	10 <sub>3</sub> 0 <sub>8</sub>	MoS <sub>2</sub>	CORE	100410	3 3 1 3 3 4	
	0.0	4.0	CASING										1
	4.0	59.5	Pink biotite granite, traces pyrite throughout										1
			4.0 - 24.0 massive, no radioactivity	1	·								3 3
			24.0 - 46.0 occasional minor fracture at 55° to the line of hole no radioactivity	7									1
		_	46.0 47.0 lost core			,							
	59.5	320.5	Quartz-feldspar-biotite gneiss, traces pyrite throughout										7
			59.5 - 66.2 mainly quartz-biotite, considerably folded and contorted, no radios	ıcvitv			·	17,				 · · ·	1
			66.2 - 82.0 50% pegmatite, no radioactivity	·			•						
			82.0 - 84.5 biotite rich, slightly radioactive	9739	82.0	84. 5	2.5	0.04					1
			84.5 - 89.0 biotite rich sections but only very slight radioactivity in places									<u> </u>	1
			89.0 - 93.0 biotite rich, slight radioactivity	9740	89.0	93.0	4.0	0.03					1
			93.0 - 106.0 30% pegmatite		,					,		 	1
			106.0 - 125.0 some quartz-rich sections very slight radioactivity onlocal										1
			fractures local hematite stain									,	1
			125.0 - 149.0 20% pegmatite, very slight radioactivity in places, very minor										1
	,								13 m				1
				-		. ,							1
					:				100 S (4.1)			 	•

	Property I	Vew	Senator	Rouyn	Option,	N. E.	Alberta
--	------------	-----	---------	-------	---------	-------	---------

Property	New	Senator	Rouyn	Option,	N. E.	Alberta
F /						
•						
T						

Claim	No			 
		* 1. 5		
Tinnati.	C		·.	

Surveys		
Dip	Bearing	

Hole No. 69-2		Sheet No	2	
Length of Hole				<u> </u>
Date Started		Completed		
Core Logged by				
Date				
Elevation		Datum		
	Co-ordinates of Coll	ar		~ 1
North				
Fact				

From		m To	To	Description of Core	Sample	FOOTAGE		Width		J <sub>3</sub> O <sub>8</sub> MoS <sub>2</sub>		ASSAYS		
	Pion	10	Description of co.c	No.	From	To		0 <sub>3</sub> 0 <sub>8</sub>	моз <sub>2</sub> 					
			local hematite stain, some quartz rich sections, no radioactivity							1				
			149/0 - 161.0 gneissosity at 50° to the line of hole											
			161.0 - 164.0 slight radioactivity, traces pyrite, molybdenite	9741	161.0	164.0	3. 0	0.03		¥ . 8				
			164.0 - 181.0 porphyritic in places, fairly massive							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
			181.0 - 186.0 traces pyrite throughout											
			186.0 - 187.0 slight radioactivity	9742	186.0	187.0	1.0	0:03	4.14					
			187.0 - 195.0 biotite rich in places, gneissosity at 55° - 60° to core axis											
			195.0 - 196.0 slight radioactivity	9743	195.0	196.0	1.0	0.02						
			196.0 - 198.0 biotite rich, very slight radioactivity			·				1				
			198.0 - 206.5 biotite rich, gneissosity at 50° to core axis											
	·		206.5 - 207.5 slight radioactivity	9744	206.5	207.5	1.0	0.02		1				
·	·		207. 5 - 214. 0 gneissosity at 45° to core axis											
			214.0 - 219.0 slightly brecciated, slight to moderate radioactivity	9745	214.0	219.0	5.0	0.02				1.21		
,			219.0 - 221.0 gneissosity at 50° to core axis, no radioactivity											
			221.0 - 223.5 slight to moderate radioactivity	9746	221.0	223.5	2.5	0.04					\$	
			223.5 - 237.5 gneissosity at 60° to core axis, very slight radioactivity in											
			places						and the same of th	, Nº	e e e			
			237.5 - 240.0 slight radioactivity in places	9747	237.5	240.0	2.5	0.01						

Claim No.

Surveys Dip

Bearing

Location of Core.....

At

<b>MCINTYRE</b>

	MCINT
New Senator Ontion N. F. Alberta	TAT TTAT
Property New Senator Option, N. E. Alberta	PORCUPINE MINE

Hole No.	9-2	***************************************	Sheet No.	3		
Length of Hole						
Date Started			Completed	l		
Core Logged by	en de de la composición dela composición de la composición de la composición de la composición de la composición dela composición de la composición de la composición dela composición dela composición de la composición dela composición de la composición dela composición dela composi				<u> </u>	
Date		•				
Elevation			Datum			
	Co-ordin	ates of Coll	lar			. •
North	· · · · · · · · · · · · · · · · · · ·					
East		100				

From	To	To Description of Core	Sample	Ample FOOTAGE		Width	U <sub>3</sub> 0	8 .	CORE A	ASSAVS			A Property Company
From		Description of Core	No.	From	To		%						
		240, 0 - 252, 0 biotite rich, gneissosity at 60° to core axis, no radioactivity		. (									
		252.0 - 255.0 slight radioactivity	9748	252.0	255.0	3.0	0.02					`	
		255.0 - 257.5 slight to moderate radioactivity	9749	255.0	257.5	2.5	0.01						1
	ĺ	257.5 - 270.5 40% pegmatite, gneissosity at 60° to core axis, no radioactivity								•			
		270.5 - 272.5 pegmatite section, slight radioactivity	9750	270.5	272.5	2.0	0.02					1	
·		272.5 - 287.5 mainly pegmatite											
		287.5 - 290.0 slight radioactivity, mainly pegmatite	11801	287.5	290.0	2.5	0.03		2				
		290.0 - 295.0 slight to moderate radioactivity, mainly pegmatite with biotite		i									
		rich sections											
		295.0 - 298.5 slight radioactivity, gneissosity at 65° to core axis	11803	295.	0298.5	3.5	0.03						
		298.5 - 302.0 no radioactivity	11804	298.5	302.0	3, 5	0.01						
		302.0 - 305.0 slight to moderate radioactivity	11805	302.0	305.0	3.0	0.01						- Pure
		305.0 - 314.0 very slight radioactivity in places											
		314.0 - 317.5 biotite rich, gneissosity at 65° to core axis, no radioactivity			٠.		<u> </u>						
		317.5 - 320.5 5% pegmatite, slightly radioactive	11808	317.5	320.5	3.0	3.02						
320.5	369. 0	Pegmatite											
		320.5 - 331.5 10% quartz-feldspar-biotite gneiss, no radioactivity					1		1,71			1	
		331.5 - 332.5 slightly radioactive	11809	331. 5	332.5	1.0	0 04						

*EXPLOR	ATION	DEDAR	TMENT

Surveys Dip

Claim No.

Location of Core.....

At

Property New Senator Rouyn Option, N. E. Alberta

Bearing

MCIN	ITYRE
PORCUPINE	MINES LIMITED

		4		 	
	A A				
1.0					LOG
			_		

Hole No.	69-2	Sheet No.	4	
Length of Hole			***************************************	٠.
	•••••	Completed		
Core Logged by			•	. ·
Date				. :
Elevation		Datum	1	٠.
	Co-ordinates of	Collar		
North				
East				_

						<u> </u>		<u> </u>	. :		
From	То	Description of Core	Sample	FOOT	<b>FAGE</b>	Width	1		CORE	ASSAYS	
From	10	Description of core	No.	From	То						
		332-5 - 351.0 20% quartz - feldspar-biotite gneiss, some brecciation along		:							
		gneissosity at 60° to core axis, very slight radioactivity in local spots									
		351.0 - 369.0 50% quartz-feldspar-biotite gneiss, very slight radioactivity in									
		places, much brecciation along gneissosity at 65° to core.									
369.0	461.0	Quartz-feldspar-biotite gneiss							: -		
		369.0 - 389.0 10% pegmatite, less brecciated than preceding, very slight									
		radioactivity in places						•			
		389.0 - 409.0 15% pegmatite, slight brecciation along gneissosity at 55% - 65%	)					1			
		to core axis, very slight radioactivity in places									
		409.0 - 429.0 gneissosity at 65° to core axis, considerable brecciation in									ļ
		places, very slight occasional radioactivity.				·					
		429.0 - 434.0 gneissosity at 60° to core axis, no radioactivity.									
		434.0 - 435.5 slight radioactivity	118.10	434. (	435.5	1.5	Tr				and an artist of the second
		435.5 - 448.0 slightly brecciated in places, very slight local radioactivity.	<u></u>				,		*.*		est afreadity
		448.0 - 461.0 becoming porphyritic, no radioactivity									abou si
461.0		End of hole.									
									. O 9/		
	<b>4</b>										 ्रस्य १ क

Property New Senator Option, N. E. Alberta

Surveys Dip

Bearing

Location of Core

At

MCINTYR
PORCUPINE MINES LIMI

McIl	$\mathbf{TY}$
PORCUPINE	MINES

Hole No. 6	9-2	Sheet No5	
Length of Hole			
Date Started		Completed	
Core Logged by	·		
Date			
Elevation		Datum	
•	Co-ordinates of Co	ollar	
North			
T			

	From	То			Description of Core		Sample No.	FOOT	rage	Width			CORE A	ASSAYS		
		<b>A</b> 0			20011prion of ool		No.	From	То							
					SLUDGE SAMPLES											
				,											: :	
	,		Sample No.	Footage	Width	U <sub>3</sub> 0 <sub>8</sub> %										
						3 - 6 -					٠.					
	1		11806	210.0-220.0	10.0	0.03						:				
	<u> </u>		11807	220.0-230.0	10.0	0.02										
			11811	310.0-320.0	10.0	0.03						•				
										 :						
												. :				14.
													·			
													;			
·				-								** :			. :	
$\neg \dagger$			•								-					
-				****												
	· ·											· .				
-							ž									

PORCUPINE MINES LIMITED	$\mathbf{M}_{\mathbf{C}}$	IN	$\mathbf{T}$	Y	$\mathbf{R}$	Œ
	DODOTT			<b>a</b> •	T	, ,

Property New Senator Option, N. E. Alberta

Location Small Lake, 1 1/4 miles N. W. of Cherry Lake

Location of Core north shore of Small Lake

Surveys Dip Bearing 090° (due East) Collar No dip tests taken-machine broke down at 342.0feet

"AX" Core

#### DIAMOND DRILL LOG

Hole No.	69-3	Sheet No. 1
Length of	Hole 342.0 fee	t
	ed January 25, 1969	Completed Jan 27, 1969
Core Logg	ed by W. H. Th	orpe
Date	January 26-27 <b>J</b> 96	9
Elevation		Datum
	Co-ordinates	
North	1 + 60	
East	0 + 00 (on Base Lin	ne) Small Lake Grid

FOOTAGE From To Description of Core. Sample Width CORE ASSAYS No. From To 0.0 8.0 CASING 8.0 38.5 Pink biotite granite 8.0-24.0 pegmatitic in places, no radioactivity 24.0-38.5 includes minor amount of undigested quartz-feldspar-biotite gneiss no radioactivity 51.5 Quartz-feldspar-biotite gneiss. In contact at 80° to the line of hole 38.5 38.5-44.0 5% pegmatite, gneissosity at 40° to the line of hole, no radioactivity 44.0 - 51.5 fairly massive, no radioactivity 515 63.0 | Pegmatite, no radioactivity 342.0 Quartz-Feldspar-Biotite Gneiss 63. 0-80. 5 slight gneissosity at 50° to the line of hole, no radioactivity 80. 5-97. 5 considerable granitization, no radioactivity 97. 5-98. 5 very slight radioactivity, porphyritic texture and somewhat brecciated 98.5-100.0 feldspar phenocrysts up to 1/2", no radioactivity 100.0-124.0 gneissosity at 60° to the line of hole, very slight radioactivity in places, some brecciation along gneissosity

Property New Senator Option, N. E. Alberta

Surveys

Dip

Bearing

Claim No.

Location of Core.....

At

٠	MCINTY	
	TAT TTAT T	. IVII
	DODCHDINE MINES	T INCOME.

MCIN	TYRE
	**************************************

Hole No.	69 <b>-</b> 3	·	Sheet No	2	
Length of Hole					<u> </u>
Date Started			Completed		
Core Logged by	•				
Date					
Elevation	•		Datum	·.	
	Co-ordina	ites of Coll	ar		
North	·		5-		
<b>5</b>					

				FOO'	ГАGE							
From	То	Description of Core	Sample No.	From	То	Width	U <sub>3</sub> O <sub>8</sub>	M <sub>0</sub> S <sub>2</sub> %	CORE A	ASSAYS		
		124.0-129.0 slight to moderate radioactivity, 10% pegmatite, trace molybdenite	11812	124.0	129.0	5.0	0.02	tr				
-		or graphite										
		129.0-134.0 slight to moderate radioactivity, gneissosity at 50° to the line of						•				
		hble biotite rich, traces molybdenite or graphite	11813	129.0	134.0	5 <b>.</b> 0	0.03	0.02			, , <del>,</del>	:
		134.0-139.0 as before	11814	134.0	139.0	5.0	0.02	0.01		1		,
		139.0-142.5 slight radioactivity-in places only					•	,		3		
		142.5-162.5 gneissosity at 50° to the line of hole slight radioactivity from										
		151.5 to 152.5								Artist Victoria		15-1 15-15
		162.0-182.0 5-10% pegmatite, slight radioactivity in places										
		182.0-206.0 slight gneissosity at 40° to the line of hole, 20% pegmatite, very										
		slight radioactivity in places 206.0-213.0 slight gneissosity at 65° to the line						*.		• .		
		of hole, nor radioactivity, 20% pegmatite										
	٠.	213.0-218.0 slight radioactivity, some brecciation, slight hematization of	11815	213.0	218.0	5.0	0.04	0.03				
,		feldspars, trace molybdenite or graphite				. i	,					
		218.0-242.5 biotite rich, no radioactivity, gneissosity at 55° to the line of hole	e		,							
		242.5-243.5 pegmatite, brecciated, moderate radioactivity	11816	242.5	243.5	1.0	0.05					

#### XPLORATION DEPARTMENT Property New Senator Option, N. E. Alberta

Location of Core

At

Surveys

Dip

Bearing

McIN	1TS	R
PORCUPINE	MINES	LIMI

*	1}			DIAMOND	DDIII	(
TYRE	<i>(</i>	1.0		DIAMOIN	DKILL	· <b>-</b>

Hole No.	69-3	Sheet No	3
Length of Hole	······	· <u>·</u>	
Date Started		Completed	
Core Logged by			
Elevation		Datum	
	Co-ordinates of	Collar	
North	·		
East			

				East							
From To Description of Core	Sample	FOOTAGE		Width			CORE ASSAYS		to the second		
	10	Description of Core	No.	From	To					Giasmi	
	259.0-	278.5 gneissosity at 50°-70° to core axis, brecciated from 274.5 to 275.2 but	no								
		radioactivity, some hematization									
		278.5-303.0 slight hematization in places, brecciated from 301.0 to 302.0									
		but very slight radioactivity. General gneissosity at 45° to the line of hole									<u> </u>
		303.0-312.0 pronounced hematite stain, some brecciation along gneissosity at					٠.				
		60° to the line of hole, no radioactivity									
		312.0-325.0 brecciated feldspar phenocrysts in places along gneissosity at				:					ļ
		60° to the line of hole, very slight radioactivity over a few inches									
		325.0-342.0 5-10% pegmatite, more massive and less breciated than preceding									
		gneissosity in places at 60° to core axis, no radioactivity. Tendency to									
		porphyritic texture in places.									
342.0		End of Hole	,								
		Slidge Sample			:						
		Sample No. Footage Width U3O8 %									
		11817 320.0-330.0 10.0 tr									
							<u> </u>				al annual property of the second property of