

# MAR 19680005: NORTHEAST ALBERTA

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ECONOMIC MINERALS

FILE REPORT No.

U-AF-001(4)

U-AF-002(4)

McINTYRE PORCUPINE MINES LIMITED

REPORT

ON

NEW SENATOR-ROUYN OPTION

NORTHEAST ALBERTA CONCESSION

September 28, 1968

W. H. Thorpe

MFN #'s: 078240, 078244

700004  
INDEXING DOCUMENT NOS. 700008

**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. Thorpe

WHT:sl

McINTYRE PORCUPINE MINES LIMITED

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 Porcupine Mines Limited  
expended \$108,690.21 on the above mentioned option, between the dates  
specified.

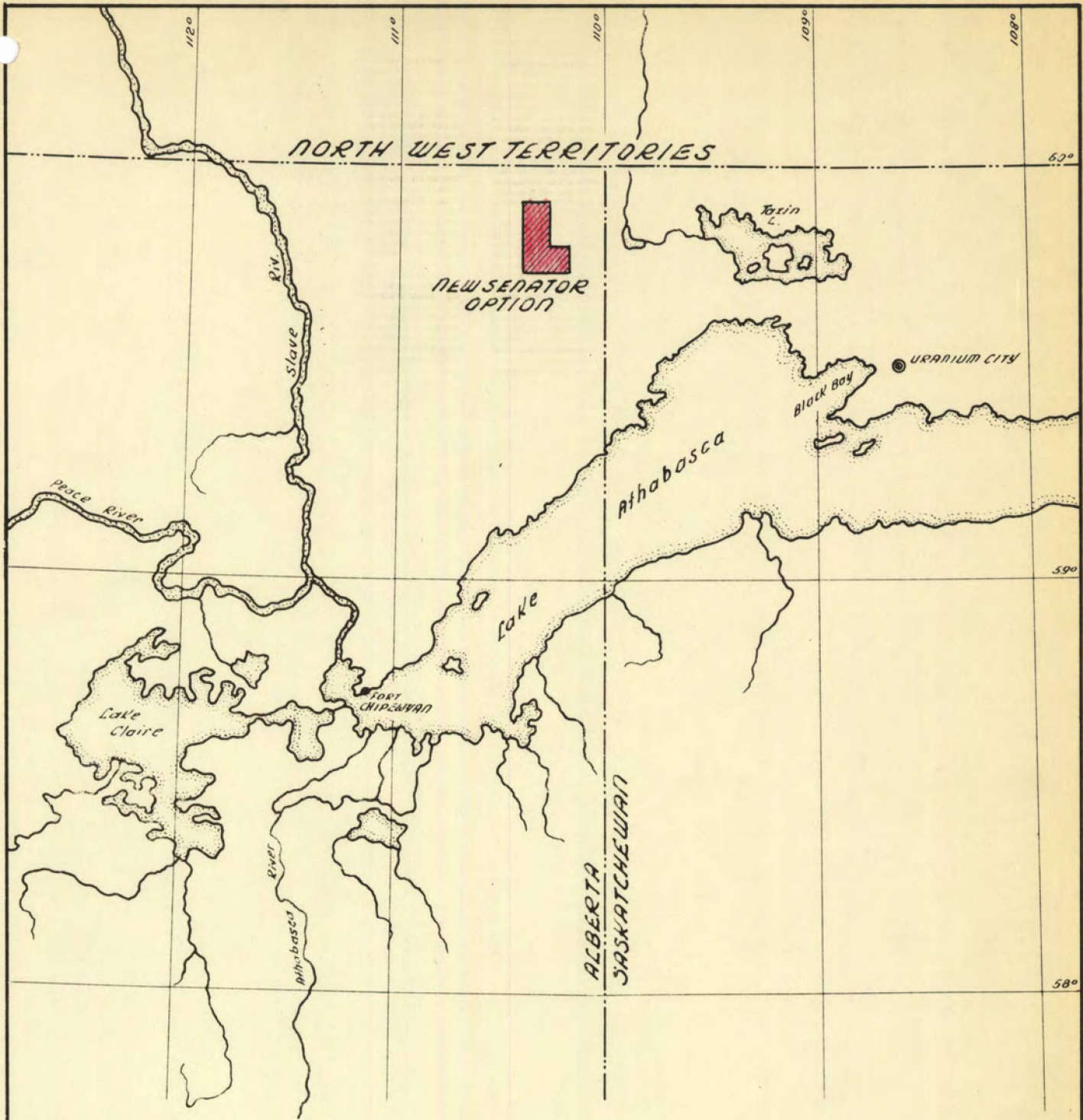
Certified Correct

McINTYRE PORCUPINE MINES LIMITED



O. J. Shore - Treasurer.

OJS/po



*McIntyre Porcupine Mines Limited*  
**NEW SENATOR OPTION**  
 ANDREW LAKE AREA  
 ALBERTA

**LOCATION MAP**

SCALE: 1 inch = 25 miles

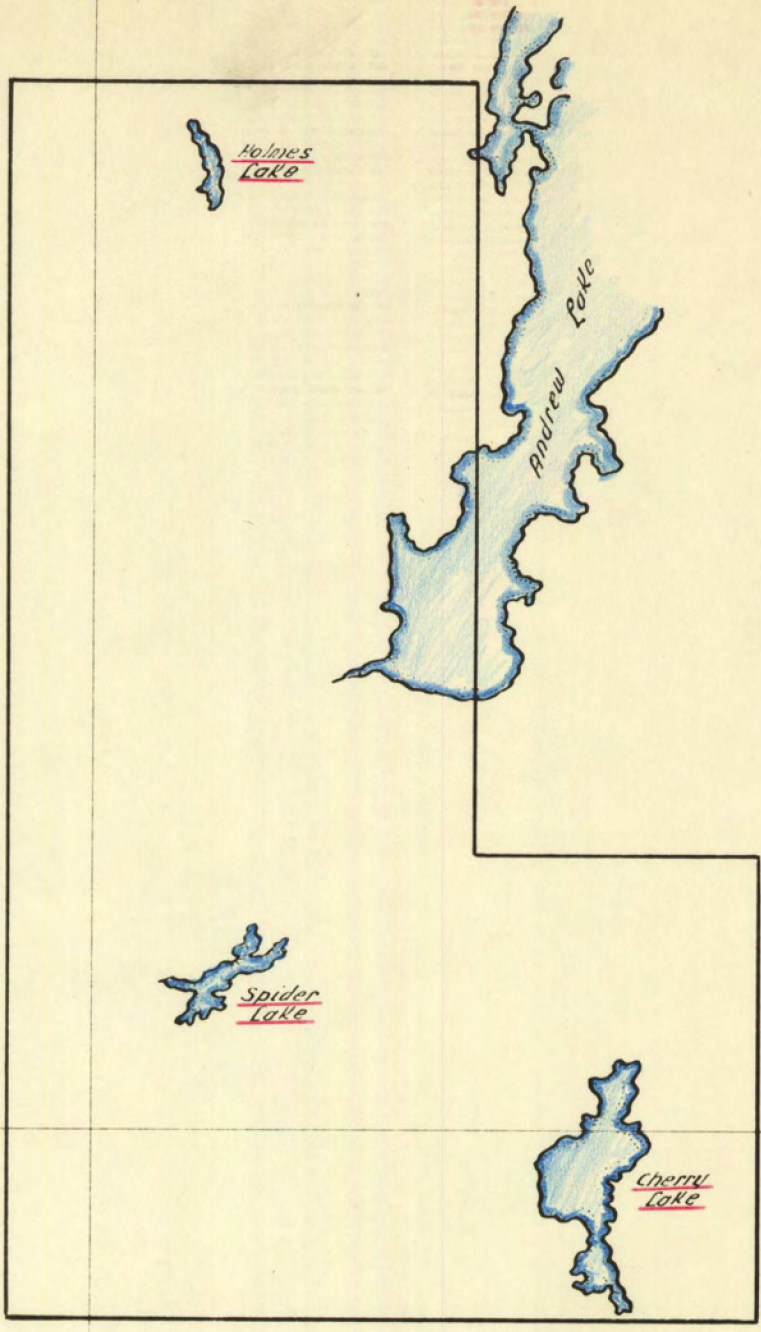
DATE: October, 1968.

19680005

Map #1



119015'



**McIntyre Porcupine Mines Limited**  
**NEW SENATOR OPTION**  
 ANDREW LAKE AREA  
 ALBERTA

SCALE: 1 inch = 2 miles      DATE: October, 1968.

19680005  
 Map #2



# EXPLORATION DEPARTMENT

Property New Senator Option

Location .....

Claim No. ....

Location of Core .....

	Surveys	
At	Dip	Bearing
.....	.....	.....
.....	.....	.....

**MCINTYRE**  
PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. NSO-63-1 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 No.	FOOTAGE		Width	%	CORE ASSAYS						
				From	To									
		<b>75.0 Basic inclusion.</b>												
		<b>80.0 - 96.0 Strongly brecciated in places.</b>												
<b>96.0</b>	<b>117</b>	<b>Grey to pink granite gneiss with foliation about 45° to the line of hole. Numerous feldspar augen in finer grained ground mass. Some feldspars are hematite stained. There is a prominent set of fractures at 20° to the line of hole.</b>												
<b>117</b>	<b>119</b>	<b>Granite gneiss, strongly hematite stained and brecciated - Radio activity slightly above background.</b>	<b>9505</b>	<b>117</b>	<b>119.0</b>	<b>2.0</b>	<b>0.053</b>							
<b>119</b>	<b>168</b>	<b>Grey to pink granite gneiss as before.</b>												
		<b>126.6 - 128.6 Ground core</b>	<b>9506</b>	<b>128.8</b>	<b>129.8</b>	<b>1.0</b>	<b>0.02</b>							
		<b>135.0 - 135.5 - Pegmatite stringer</b>												
		<b>138.6 - 145.4 Pink granite gneiss, somewhat brecciated and hematite stained</b>	<b>9507</b>	<b>157.3</b>	<b>158.5</b>	<b>1.2</b>	<b>0.01</b>							
<b>168.0</b>	<b>217</b>	<b>Brecciated granite gneiss. Strongly hematite stained. Some pegmatitic material also brecciated. Brecciation is about 45° to the line of hole, and probably parallel to the line of hole. Some hematite filled fractures occur at 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 occur in some strongly brecciated zones. Some small, acicular tremolitic or</b>	<b>9508</b>	<b>168.2</b>	<b>169.2</b>	<b>1.0</b>	<b>Tr.</b>							
			<b>9509</b>	<b>224.4</b>	<b>225.4</b>	<b>1.0</b>	<b>NIL</b>							
			<b>9510</b>	<b>236.8</b>	<b>238.8</b>	<b>2.0</b>	<b>Tr.</b>							



# EXPLORATION DEPARTMENT

Property New Senator Assn Option  
 Location Cherry Lake Alberta  
 Claim No. \_\_\_\_\_  
 Location of Core \_\_\_\_\_

**MCINTYRE**  
 PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. NSR-68-2 Sheet No. 1  
 Length of Hole 163 feet  
 Date Started March 1st, 1968 Completed March 2nd  
 Core Logged by Gordon Bird  
 Date March 2nd, 1968  
 Elevation Surface Datum \_\_\_\_\_  
 Co-ordinates of Collar  
 North 0 + 00 North 65 ft. southeast along line  
 East bearing 135°

"Ax" Core

At	Surveys Dip	Bearing
Surface	-45°	135°

From	To	Description of Core	Sample No.	FOOTAGE		Width	CORE ASSAYS		
				From	To		% U3O8		
0	3	Casing							
3	163	Granitic gneiss composed of quartz, K-Feldspar, plagioclase, and biotite, with accessory epidote. Some chlorite and calcite are present on fracture faces. Some small veinlets of quartz. There is a good foliation at about 80° to the line of hole. Three fracture systems are present; one at 45° to the line of hole, and two conjugate fracture each about 30° to the line of hole. One extension fractures with little or no alteration on fracture face, other is shear fracture system with calcite, chlorite and slickensides present on or in the fracture. There are a few fractures subparallel to the line of hole. Chlorite is also common on the fracture faces at 45° to the line of hole. Very weak radio activity is associated with some of the 30° shear fractures. Rock color varies from grey to pink with most of the pink color being associated with hematite staining of the feldspars.							
			9517	36.0	37.5	1.5	Tr	Tr	0-0004
			9516	46.0	47.5	1.5	Tr.	Tr.	0-0005
			9515	50.6	52.6	2.0	Tr.	Tr.	0-0007
			9518	89.0	90.0	1.0	Tr.	Tr.	0-0007
			9519	120.0	121.5	1.5	Tr.	Tr.	0-0006
			9520	100.0	101.0	1.0	Tr.	Tr.	0-0009
			9521	102.0	103.0	1.0	0.0050	0-0005	0-0007
			9522	135.5	136.5	1.0	Tr.	Tr.	0-0007
			9523	143.2	144.2	1.0	0.006	0-0006	0-01
		15.5 - 20.0 Dark grey biotite rich section .							
		31.0 - 76.0 Pink granite gneiss with higher proportion of red stained feldspar.							
		100.0 - 110.0 Dark grey biotite rich augen gneiss, possibly somewhat shear-							















# EXPLORATION DEPARTMENT

**MCINTYRE**  
PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Property New Senator Rouyn Option  
Location Cherry Lake, Alberta  
Claim No. \_\_\_\_\_  
Location of Core Cherry Lake

Hole No. NSR-68-4 Sheet No. 1  
Length of 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 + 75 North  
East 1 + 75 East

At	Surveys Dip	Bearing
Surface	-45°	285°
250 feet	-38°	uncorrected

"Ax" Core

From	To	Description of Core	Sample No.	FOOTAGE		Width	% U <sub>3</sub> O <sub>8</sub> H <sub>2</sub> O <sub>2</sub>	CORE ASSAYS					
				From	To								
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 & muscovite or phlogopite but altered to chlorite, and quartz. Weak hematite stain present in places. Rock may have been weakly sheared.	9530	3.0	5.0	2.0	Nil						
			9531	9.0	11.0	2.0	Nil						
			9532	16.0	17.0	1.0	Nil						
21.5	75.0	Granitic gneiss, light to dark grey color, medium grained with some coarse grained feldspar porphyroblasts.	9533	24.0	25.0	1.0	Tr.						
			9534	29.0	30.0	1.0	Tr.						
		Good segregation of mafic and felsic material, occasional patches of hematite stain. Mafic minerals are biotite, phlogopite and chlorite. Some phlogopite is hematite stained and has metallic luster.	9535	37.0	38.0	1.0	Tr.						
			9536	39.6	40.6	1.0	Tr.						
			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 subparallel to the line of hole.											
			9538	75.0	76.0	1.0	Nil						
			9539	84.0	86.0	2.0	.016	Tr.					
		77.0 - 79.0 Strongly altered rock composed of quartz, epidote (?), Talc or serpentine 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 granite. Are traces of chalcopyrite along foliation planes.	9541	89.0	91.0	2.0	Tr.						
			9542	97.0	98.0	1.0	Tr.						























































# EXPLORATION DEPARTMENT

Property New Senator Ronyn Option, N. E. Alberta  
 Location Southwest end of Holmes Lake  
 Claim No. -----  
 Location of Core Left at drill site

**MCINTYRE**  
 PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. 68-13 Sheet No. 1  
 Length of Hole 406.0  
 Date Started Oct. 8th/68 Completed Oct. 13th/68  
 Core Logged by W. H. Thorpe  
 Date October 13th, 1968  
 Elevation Surface Datum -----  
 Co-ordinates of Collar  
 North -----  
 East -----

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

**Sludge not recovered - 95% core recovery**

From	To	Description of Core	Sample No.	FOOTAGE		Width	CORE ASSAYS							
				From	To		U <sub>3</sub> O <sub>8</sub> %							
0.0	4.0	Casing												
4.0	179.0	Pegmatite - feldspars frequently hematized and crushed, prominent biotite and occasional trace pyrite	9647	4.0	6.0	2.0	Tr							
		4.0 - 6.0 slight radioactivity - up to 700 counts per second - trace pyrite	9648	6.0	11.0	5.0	Tr							
		6.0 - 14.0 pronounced fracturing and crushing	9649	11.0	14.0	3.0	0.01							
		At 14.3, 3 inch quartz vein with 700 counts per second and continues	9650	14.0	15.0	1.0	0.01							
		crushed and hematized to 21.0 feet	9696	15.0	20.0	5.0	Tr							
		20.0 - 21.5 prominent hematite stain	9697	20.0	21.5	1.5	Tr							
		23.0 - 38.5 occasional hematite - stained feldspars	9698	21.5	25.0	3.5	Tr							
		38.5 - 42.5 slightly radioactive - up to 700 counts per second, 15% biotite, occasional trace pyrite	9699	25.0	30.0	5.0	Tr							
		42.5 - 47.0 up to 1200 counts per second, prominent hematized feldspars, considerable fracturing	9700	30.0	35.0	5.0	0.01							
		47.0 - 52.0 hematized feldspars, a few cubes pyrite, up to 1100 counts per second	9301	35.0	38.5	1.5	0.01							
		52.0 - 57.0 slight gneissosity in places at 80° to Core Angle, considerable fracturing - up to 1200 counts per second.	9302	38.5	42.5	4.0	Tr							
			9303	42.5	47.0	4.5	0.01							
			9304	47.0	52.0	5.0	0.02							
			9305	52.0	57.0	5.0	0.03							

# EXPLORATION DEPARTMENT

Property New Senator Rouyn Option, Alberta

Location .....

Claim No. ....

Location of Core .....

At	Surveys Dip	Bearing

# MCINTYRE

PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. 68-13 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 No.	FOOTAGE		Width	U <sub>308</sub> %	An oz.	CORE ASSAYS					
				From	To				Ag	St.				
		57.0 - 62.0 less hematized than preceding, more biotite (10%), traces pyrite gneissosity at 80° - 45° to Core Angle- up to 1200 counts per second	9306	57.0	62.0	5.0	Tr	Nil	Nil					
		62.0 - 67.0 slight gneissosity in places at 55° to Core Angle. Hematization less than in preceding sections, traces pyrite up to 900 counts per second	9307	62.0	67.0	5.0	0.01	-	-					
		67.0 - 72.0 more biotite than preceding-up to 900 counts per second. Slight gneissosity in part at 45° to Core Angle, traces pyrite throughout.	9308	67.0	72.0	5.0	Tr	Nil	Nil					
		72.0 - 77.0 biotite-rich banding at 45° to Core Angle from 72.0-74.0 - up to 900 counts per second	9309	72.0	77.0	5.0	Tr	-	-					
		77.0 - 82.0 less hematized than preceding, prominent fracturing at various angles to Core Angle. Up to 1300 counts per second in biotite-rich section at 75.5 feet. Traces pyrite throughout.	9310	77.0	82.0	5.0	0.03	-	-					
		82.0 - 87.0 no hematization, less quartz than preceding, greenish yellow stain in places - up to 800 counts per second .	9311	82.0	87.0	5.0	0.01	-	-					
		87.0 - 91.0 some prominent biotite with gneissic banding in part at 80° to Core Angle. Up to 900 counts per second. No hematization.	9312	87.0	91.0	4.0	Tr							
		91.0 - 96.0 no hematization, trace pyrite throughout - up to 900 counts per second.	9313	91.0	96.0	5.0	0.01							
		96.0 - 101.0 no hematization, up to 1100 counts per second	9314	96.0	101.0	5.0	0.02							









# EXPLORATION DEPARTMENT

Property New Senator Rouya Option, N. E. Alberta  
 Location Small Lake, 1 1/4 mile N. W. of Cherry Lake  
 Claim No. \_\_\_\_\_  
 Location of Core Left at drill site

(6)

**MCINTYRE**  
 PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. 68 - 14 Sheet No. 1  
 Length of Hole 425'  
 Date Started 21 October 1968 Completed 24 Oct. 1968  
 Core Logged by W. H. Thorpe  
 Date 24 October 1968  
 Elevation Surface Datum \_\_\_\_\_  
 Co-ordinates of Collar  
 North 2 + 63 } Small Lake Grid  
 East 0 + 05 }

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

" Ax " Core

From	To	Description of Core	Sample No.	FOOTAGE		Width	%	CORE ASSAYS					
				From	To			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 C.A., slight radioactivity.	9328	6.0	9.0	3.0	Tr						
		9.0 - 14.0 Two - 18", 10" brecciated pegmatite dykes at 60° to CA, slight radioactivity	9329	9.0	14.0	5.0	0.02						
		14.0 - 19.5 Two - 18", 6" pegmatite dykes at 65° to C.A. Includes 18" lost core, slight radioactivity.	9330	14.0	19.5	5.5	Tr						
		19.5 - 21.0 - 12" brecciated pegmatite dyke, contacts lost, slight radioactivity	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	35.0	40.0	5.0	0.03						
		40.0 - 44.0 last 12" is brecciated pegmatite	9335	40.0	44.0	4.0	0.02						



# EXPLORATION DEPARTMENT

Property New Senator Rouyn Option, N. E. Alberta

Location .....

Claim No. ....

Location of Core .....

	Surveys	
At	Dip	Bearing

**MCINTYRE**  
PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. 68 - 14 Sheet No. 3

Length of Hole .....

Date Started ..... Completed .....

Core Logged by .....

Date .....

Elevation ..... Datum .....

Co-ordinates of Collar

North .....

East .....

From	To	Description of Core	Sample No.	FOOTAGE		Width	% U <sub>3</sub> O <sub>8</sub>	CORE ASSAYS					
				From	To								
		86.0 - 103.0 porphyritic in places, no radioactivity, slight hematization in places											
		103.0 - 116.0 very minor pegmatite injections, less than 10%, local hematization, 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											
		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° to C. A.	9346	158.0	161.5	3.5	0.06						
161.5	270.5	Quartz-feldspar-biotite gneiss, traces pyrite throughout											
		161.5 - 163.3 moderate radioactivity, traces pyrite, molybdenite	9347	161.5	163.3	1.8	0.04	} 0.047 / 15.0'					
		163.3 - 168.3 slight to moderate radioactivity, brecciated, gneissosity at 45° to C. A., 20% pegmatite	9348	163.3	168.3	5.0	0.03						
		168.3 - 173.0 brecciated, 25% pegmatite, slight radioactivity	9349	168.3	173.0	4.7	0.06						

















# EXPLORATION DEPARTMENT

Property New Senator Option, N. E. Alberta

Location .....

Claim No. ....

Location of Core .....

	At	Surveys Dip	Bearing
.....			
.....			
.....			

**MCINTYRE**  
PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. 69-1 Sheet No. 5

Length of Hole .....

Date Started ..... Completed .....

Core Logged by .....

Date .....

Elevation ..... Datum .....

Co-ordinates of Collar

North .....

East .....

From	To	Description of Core	Sample No.	FOOTAGE		Width	U <sub>3</sub> O <sub>8</sub> %	CORE ASSAYS					
				From	To								
		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.											
		Concavity at 55° to the line of hole											
		465.0-482.0 no radioactivity											
		482.0 End of Hole											
		<u>Sludges</u>											
		<u>Sample No.</u>		<u>Footage</u>		<u>Width</u>	<u>U<sub>3</sub>O<sub>8</sub> %</u>						
		9736		280.0-290.0		10.0'	0.01						
		9737		300.0-310.0		10.0'	0.04						
		9738		320.0-330.0		10.0'	0.04						

# EXPLORATION DEPARTMENT

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**

At	Surveys Dip	Bearing
<b>Collar</b>	<b>-45°</b>	<b>090° (due East)</b>
<b>450'</b>	<b>-39°</b>	<b>(corrected for capillarity)</b>

**MCINTYRE**  
 PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. **69 - 2** Sheet No. **1**  
 Length of Hole **461.0 feet**  
 Date Started **January 19, 1969** Completed **Jan 22, 1969**  
 Core Logged by **W. H. Thorpe**  
 Date **20 - 22 January 1969**  
 Elevation **Surface** Datum \_\_\_\_\_  
 Co-ordinates of Collar  
 North **Surface 3 + 33 ) Small Lake Grid**  
**1 + 50 W )**

"AX" Core

From	To	Description of Core	Sample No.	FOOTAGE		Width	CORE ASSAYS	
				From	To		U <sub>3</sub> O <sub>8</sub> %	MoS <sub>2</sub> %
0.0	4.0	CASING						
4.0	59.5	Pink biotite granite, traces pyrite throughout						
		4.0 - 24.0 massive, no radioactivity						
		24.0 - 46.0 occasional minor fracture at 55° to the line of hole no radioactivity						
		46.0 - 47.0 lost core						
59.5	320.5	Quartz-feldspar-biotite gneiss, traces pyrite throughout						
		59.5 - 66.2 mainly quartz-biotite, considerably folded and contorted, no radioactivity						
		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	
		84.5 - 89.0 biotite rich sections but only very slight radioactivity in places						
		89.0 - 93.0 biotite rich, slight radioactivity	9740	89.0	93.0	4.0	0.03	
		93.0 - 106.0 30% pegmatite						
		106.0 - 125.0 some quartz-rich sections very slight radioactivity on local fractures local hematite stain						
		125.0 - 149.0 20% pegmatite, very slight radioactivity in places, very minor						

# EXPLORATION DEPARTMENT

Property New Senator Rouyn Option, N. E. Alberta

Location .....

Claim No. ....

Location of Core .....

	Surveys	
At	Dip	Bearing

# MCINTYRE

PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. 69-2 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 No.	FOOTAGE		Width	CORE ASSAYS				
				From	To		U <sub>3</sub> O <sub>8</sub> %	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, gneissosity at 50° to core axis									
		206.5 - 207.5 slight radioactivity	9744	206.5	207.5	1.0	0.02				
		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				
		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									
		237.5 - 240.0 slight radioactivity in places	9747	237.5	240.0	2.5	0.01				

# EXPLORATION DEPARTMENT

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

Location.....

Claim No.....

Location of Core.....

At	Surveys	
	Dip	Bearing

**MCINTYRE**  
PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. .... **69-2** ..... Sheet No. **3**

Length of Hole.....

Date Started..... Completed.....

Core Logged by.....

Date.....

Elevation..... Datum.....

Co-ordinates of Collar

North.....

East.....

From	To	Description of Core	Sample No.	FOOTAGE		Width	U <sub>3</sub> O <sub>8</sub> %	CORE ASSAYS					
				From	To								
		<b>240.0 - 252.0 biotite rich, gneissosity at 60° to core axis, no radioactivity</b>											
		<b>252.0 - 255.0 slight radioactivity</b>	<b>9748</b>	<b>252.0</b>	<b>255.0</b>	<b>3.0</b>	<b>0.02</b>						
		<b>255.0 - 257.5 slight to moderate radioactivity</b>	<b>9749</b>	<b>255.0</b>	<b>257.5</b>	<b>2.5</b>	<b>0.01</b>						
		<b>257.5 - 270.5 40% pegmatite, gneissosity at 60° to core axis, no radioactivity</b>											
		<b>270.5 - 272.5 pegmatite section, slight radioactivity</b>	<b>9750</b>	<b>270.5</b>	<b>272.5</b>	<b>2.0</b>	<b>0.02</b>						
		<b>272.5 - 287.5 mainly pegmatite</b>											
		<b>287.5 - 290.0 slight radioactivity, mainly pegmatite</b>	<b>11801</b>	<b>287.5</b>	<b>290.0</b>	<b>2.5</b>	<b>0.03</b>						
		<b>290.0 - 295.0 slight to moderate radioactivity, mainly pegmatite with biotite rich sections</b>											
		<b>295.0 - 298.5 slight radioactivity, gneissosity at 65° to core axis</b>	<b>11803</b>	<b>295.0</b>	<b>298.5</b>	<b>3.5</b>	<b>0.03</b>						
		<b>298.5 - 302.0 no radioactivity</b>	<b>11804</b>	<b>298.5</b>	<b>302.0</b>	<b>3.5</b>	<b>0.01</b>						
		<b>302.0 - 305.0 slight to moderate radioactivity</b>	<b>11805</b>	<b>302.0</b>	<b>305.0</b>	<b>3.0</b>	<b>0.01</b>						
		<b>305.0 - 314.0 very slight radioactivity in places</b>											
		<b>314.0 - 317.5 biotite rich, gneissosity at 65° to core axis, no radioactivity</b>											
		<b>317.5 - 320.5 5% pegmatite, slightly radioactive</b>	<b>11808</b>	<b>317.5</b>	<b>320.5</b>	<b>3.0</b>	<b>0.02</b>						
<b>320.5</b>	<b>369.0</b>	<b>Pegmatite</b>											
		<b>320.5 - 331.5 10% quartz-feldspar-biotite gneiss, no radioactivity</b>											
		<b>331.5 - 332.5 slightly radioactive</b>	<b>11809</b>	<b>331.5</b>	<b>332.5</b>	<b>1.0</b>	<b>0.04</b>						









# EXPLORATION DEPARTMENT

Property New Senator Option, N. E. Alberta

Location .....

Claim No. ....

Location of Core .....

At	Surveys	
	Dip	Bearing

# MCINTYRE

PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. 69-3 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	Sample No.	FOOTAGE		Width	CORE ASSAYS						
				From	To		U <sub>3</sub> O <sub>8</sub> %	MoS <sub>2</sub> %					
		124.0-129.0 slight to moderate radioactivity, 10% pegmatite, trace molybdenite or graphite	11812	124.0	129.0	5.0	0.02	tr					
		129.0-134.0 slight to moderate radioactivity, gneissosity at 50° to the line of hole biotite rich, traces molybdenite or graphite	11813	129.0	134.0	5.0	0.05	0.02					
		134.0-139.0 as before	11814	134.0	139.0	5.0	0.02	0.01					
		139.0-142.5 slight radioactivity-in places only											
		142.5-162.5 gneissosity at 50° to the line of hole slight radioactivity from											
		151.5 to 152.5											
		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 206.0-211.0 slight gneissosity at 65° to the line of hole, nor radioactivity, 20% pegmatite											
		211.0-218.0 slight radioactivity, some brecciation, slight hematization of feldspars, trace molybdenite or graphite	11815	211.0	218.0	5.0	0.04	0.03					
		218.0-242.5 biotite rich, no radioactivity, gneissosity at 55° to the line of hole											
		242.5-243.5 pegmatite, brecciated, moderate radioactivity	11816	242.5	243.5	1.0	0.05						





# EXPLORATION DEPARTMENT

**MCINTYRE**  
PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Property... New Senator Option

Hole No. NSO-68-1 Sheet No. 2

Location.....

Length of Hole.....

Claim No.....

Date Started..... Completed.....

Location of Core.....

Core Logged by.....

Date.....

At                      Surveys                       
Dip                      Bearing                     

Elevation..... Datum.....

Co-ordinates of Collar

North.....

East.....

From	To	Description of Core	Sample No.	FOOTAGE		Width	o/ u30g	CORE ASSAYS					
				From	To								
		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. Numerous feldspar augen in finer grained ground mass. Some feldspars are 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						
119	168	Grey to pink granite gneiss as before.											
		126.6 - 128.6 Ground core	9506	128.8	129.8	1.0	0.02						
		135.0 - 135.5 - Pegmatite stringer											
		138.6 - 145.4 Pink granite gneiss, somewhat brecciated and hematite stained	9507	157.3	158.5	1.2	0.01						
168.0	427	Brecciated granite gneiss. Strongly hematite stained. Some pegmatitic material also brecciated. Brecciation is about 45° to the line of hole, and probably parallel to the line of hole. Some hematite filled fractures occur at 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 strongly brecciated zones. Some small, acicular tremolitic or tremolitic	9508	168.2	169.2	1.0	Tr.						
			9509	224.4	225.4	1.0	Nil.						
			9510	236.8	238.8	2.0	Tr.						



















# EXPLORATION DEPARTMENT

Property New Senator Rouyn Option  
 Location Cherry Lake, Alberta  
 Claim No. \_\_\_\_\_  
 Location of Core Cherry Lake

	At	Surveys Dip	Bearing
Surface		-45°	285°
250 feet		-38°	uncorrected

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PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. NSR-68-4 Sheet No. 1  
 Length of 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  
 East 1 + 75 East

"AX" Core

From	To	Description of Core	Sample No.	FOOTAGE		Width	CORE ASSAYS	
				From	To		% U <sub>3</sub> O <sub>8</sub>	% MoS <sub>2</sub>
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 microclina perthite, biotite & muscovite or phlogopite but altered to chlorite, and quartz. Weak hematite stain present in places. Rock may have been weakly sheared.	9530	3.0	5.0	2.0	Nil	
			9531	9.0	11.0	2.0	Nil	
			9532	16.0	17.0	1.0	Nil	
21.5	75.0	Granitic gneiss, light to dark grey color, medium grained with some coarse grained feldspar porphroblasts. Good segregation of mafic and felsic material, occasional patches of hematite stain. Mafic minerals are biotite, phlogopite and chlorite. Some phlogopite is hematite stained and has metallic luster.	9533	24.0	25.0	1.0	Tr.	
			9534	29.0	30.0	1.0	Tr.	
			9535	37.0	38.0	1.0	Tr.	
			9536	39.6	40.6	1.0	Tr.	
			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 subparallel to the line of hole.	9538	75.0	76.0	1.0	Nil	
			9539	84.0	86.0	2.0	.016	Tr.
		77.0 - 79.0 Strongly altered rock composed of quartz, epidote (?), Talc or serpentine 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 granite. Are traces of chalcopyrite along foliation planes.	9541	89.0	91.0	2.0	Tr.	
			9542	97.0	98.0	1.0	Tr.	























































# EXPLORATION DEPARTMENT

Property New Senator Rouyn Option, N.E. Alberta

Location Southwest end of Holmes Lake

Claim No. -----

Location of Core Left at drill site

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

Sludge not recovered - 95% core recovery

**MCINTYRE**  
PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. 68-13 Sheet No. 1  
 Length of Hole 406.0  
 Date Started Oct. 8th/68 Completed Oct. 13th/68  
 Core Logged by W. H. Thorpe  
 Date October 13th, 1968  
 Elevation Surface Datum \_\_\_\_\_  
 Co-ordinates of Collar  
 North \_\_\_\_\_  
 East \_\_\_\_\_

From	To	Description of Core	Sample No.	FOOTAGE		Width	U <sub>3</sub> O <sub>8</sub> %	CORE ASSAYS						
				From	To									
0.0	4.0	Casing												
4.0	179.0	Pegmatite - feldspars frequently hematized and crushed, prominent biotite and occasional trace pyrite	9647	4.0	6.0	2.0	Tr							
		4.0 - 6.0 slight radioactivity - up to 700 counts per second - trace pyrite	9648	6.0	11.0	5.0	Tr							
		6.0 - 14.0 pronounced fracturing and crushing	9649	11.0	14.0	3.0	0.01							
		At 14.3, 3 inch quartz vein with 700 counts per second and continues	9650	14.0	15.0	1.0	0.01							
		crushed and hematized to 21.0 feet	9696	15.0	20.0	5.0	Tr							
		20.0 - 21.5 prominent hematite stain	9697	20.0	21.5	1.5	Tr							
		23.0 - 38.5 occasional hematite - stained feldspars	9698	21.5	25.0	3.5	Tr							
		38.5 - 42.5 slightly radioactive - up to 700 counts per second, 15% biotite, occasional trace pyrite	9699	25.0	30.0	5.0	Tr							
		42.5 - 47.0 up to 1200 counts per second, prominent hematized feldspars, considerable fracturing	9700	30.0	35.0	5.0	0.01							
		47.0 - 52.0 hematized feldspars, a few cubes pyrite, up to 1100 counts per second	9301	35.0	38.5	3.5	0.01							
		52.0 - 57.0 slight gneissosity in places at 80° to Core Angle, considerable fracturing - up to 1200 counts per second.	9302	38.5	42.5	4.0	Tr							
			9303	42.5	47.0	4.5	0.01							
			9304	47.0	52.0	5.0	0.02							
			9305	52.0	57.0	5.0	0.03							



# EXPLORATION DEPARTMENT

Property New Senator Rouyn Option, Alberta.

Location .....

Claim No. ....

Location of Core .....

At	Surveys Dip	Bearing

# MCINTYRE

PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. 68-13 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 No.	FOOTAGE		Width	U308 %	Au oz	CORE ASSAYS			
				From	To				Ag	As		
		57.0 - 62.0 less hematized than preceding, more biotite (10%), traces pyrite, gneissosity at 80° - 45° to Core Angle- up to 1200 counts per second	9306	57.0	62.0	5.0	Tr	Nil	Nil			
		62.0 - 67.0 slight gneissosity in places at 55° to Core Angle. Hematization less than in preceding sections, traces pyrite up to 900 counts per second	9307	62.0	67.0	5.0	0.01	-	-			
		67.0 - 72.0 more biotite than preceding-up to 900 counts per second. Slight gneissosity in part at 45° to Core Angle, traces pyrite throughout.	9308	67.0	72.0	5.0	Tr	Nil	Nil			
		72.0 - 77.0 biotite-rich banding at 45° to Core Angle from 72.0-74.0 - up to 900 counts per second	9309	72.0	77.0	5.0	Tr	-	-			
		77.0 - 82.0 less hematized than preceding, prominent fracturing at various angles to Core Angle. Up to 1300 counts per second in biotite-rich section at 75.5 feet. Traces pyrite throughout.	9310	77.0	82.0	5.0	0.03	-	-			
		82.0 - 87.0 no hematization, less quartz than preceding, greenish yellow stain in places - up to 800 counts per second .	9311	82.0	87.0	5.0	0.01	-	-			
		87.0 - 91.0 some prominent biotite with gneissic banding in part at 80° to Core Angle. Up to 900 counts per second. No hematization.	9312	87.0	91.0	4.0	Tr					
		91.0 - 96.0 no hematization, trace pyrite throughout - up to 900 counts per second.	9313	91.0	96.0	5.0	0.01					
		96.0 - 101.0 no hematization, up to 1100 counts per second	9314	96.0	101.0	5.0	0.02					







# EXPLORATION DEPARTMENT

**MCINTYRE**  
PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Property New Senator Rouyn Option, N. E. Alberta  
Location Small Lake, 1 1/4 mile N. W. of Cherry Lake  
Claim No. \_\_\_\_\_  
Location of Core Left at drill site

Hole No. 68 - 14 Sheet No. 1  
Length of Hole 425'  
Date Started 21 October 1968 Completed 24 Oct. 1968  
Core Logged by W. H. Thorpe  
Date 24 October 1968  
Elevation Surface Datum \_\_\_\_\_  
Co-ordinates of Collar  
North 2 + 63 } Small Lake Grid  
East 0 + 05 }

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

" Ax " Core

From	To	Description of Core	Sample No.	FOOTAGE		Width	%	CORE ASSAYS					
				From	To			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 C. A., slight radioactivity.	9328	6.0	9.0	3.0	Tr						
		9.0 - 14.0 Two - 18", 10" brecciated pegmatite dykes at 60° to CA, slight radioactivity	9329	9.0	14.0	5.0	0.02						
		14.0 - 19.5 Two - 18", 6" pegmatite dykes at 65° to C. A. Includes 18" lost core, slight radioactivity.	9330	14.0	19.5	5.5	Tr						
		19.5 - 21.0 - 12" brecciated pegmatite dyke, contacts lost, slight radioactivity	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	35.0	40.0	5.0	0.03						
		40.0 - 44.0 last 12" is brecciated pegmatite	9335	40.0	44.0	4.0	0.02						



# EXPLORATION DEPARTMENT

Property New Senator Rouyn Option, N. E. Alberta

Location .....

Claim No. .....

Location of Core .....

At	Surveys	
	Dip	Bearing

# MCINTYRE

PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. 68 - 14 Sheet No. 3

Length of Hole .....

Date Started ..... Completed .....

Core Logged by .....

Date .....

Elevation ..... Datum .....

Co-ordinates of Collar

North .....

East .....

From	To	Description of Core	Sample No.	FOOTAGE		Width	CORE ASSAYS						
				From	To		U <sub>3</sub> O <sub>8</sub>						
		86.0 - 103.0 porphyritic in places, no radioactivity, slight hematization in places											
		103.0 - 116.0 very minor pegmatite injections, less than 10%, local hematization, 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											
		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						
		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	163.3	1.8	0.04						
		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						

0.047  
15.0

















# EXPLORATION DEPARTMENT

**MCINTYRE**  
PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Property New Senator Option, N. E. Alberta  
Location.....  
Claim No.....  
Location of Core.....

Hole No. 69-1 Sheet No. 5  
Length of Hole.....  
Date Started..... Completed.....  
Core Logged by.....  
Date.....  
Elevation..... Datum.....  
Co-ordinates of Collar  
North.....  
East.....

At                      Surveys                       
Dip                      Bearing                     

From	To	Description of Core	Sample No.	FOOTAGE		Width	U <sub>3</sub> O <sub>8</sub> %	CORE ASSAYS						
				From	To									
		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												
		465.0-482.0 no radioactivity												
	482.0	End of Hole												
		<u>Sludges</u>												
		<u>Sample No.</u>												
		<u>Footage</u>												
		<u>Width</u>												
		<u>U<sub>3</sub>O<sub>8</sub> %</u>												
		9736		280.0-290.0		10.0'	0.01							
		9737		300.0-310.0		10.0'	0.04							
		9738		320.0-330.0		10.0'	0.04							





# EXPLORATION DEPARTMENT

Property New Senator Rouyn Option, N. E. Alberta

Location .....

Claim No. ....

Location of Core .....

At	Surveys Dip	Bearing
.....	.....	.....
.....	.....	.....
.....	.....	.....

**MCINTYRE**  
PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. 69-2 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 No.	FOOTAGE		Width	U <sub>3</sub> O <sub>8</sub> %	MoS <sub>2</sub> %	CORE ASSAYS				
				From	To								
		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, gneissosity at 50° to core axis											
		206.5 - 207.5 slight radioactivity	9744	206.5	207.5	1.0	0.02						
		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						
		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											
		237.5 - 240.0 slight radioactivity in places	9747	237.5	240.0	2.5	0.01						

# EXPLORATION DEPARTMENT

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

Location.....

Claim No.....

Location of Core.....

At	Surveys Dip	Bearing

**MCINTYRE**  
PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No. .... 69-2 ..... Sheet No. 3 .....

Length of Hole.....

Date Started..... Completed .....

Core Logged by.....

Date.....

Elevation..... Datum .....

Co-ordinates of Collar

North.....

East.....

From	To	Description of Core	Sample No.	FOOTAGE		Width	U <sub>3</sub> O <sub>8</sub> %	CORE ASSAYS					
				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						
		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											
		287.5 - 290.0 slight radioactivity, mainly pegmatite	11801	287.5	290.0	2.5	0.03						
		290.0 - 295.0 slight to moderate radioactivity, mainly pegmatite with biotite rich sections											
		295.0 - 298.5 slight radioactivity, gneissosity at 65° to core axis	11803	295.0	298.5	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						
		305.0 - 314.0 very slight 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						
320.5	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						







# EXPLORATION DEPARTMENT

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

Location.....

Claim No.....

Location of Core.....

**MCINTYRE**  
PORCUPINE MINES LIMITED

# DIAMOND DRILL LOG

Hole No..... 69-3 ..... Sheet No..... 2

Length of Hole.....

Date Started..... Completed.....

Core Logged by.....

Date.....

Elevation..... Datum.....

Co-ordinates of Collar

North.....

East.....

At	Surveys Dip	Bearing

From	To	Description of Core	Sample No.	FOOTAGE		Width	CORE ASSAYS							
				From	To		U <sub>3</sub> O <sub>8</sub> %	MoS <sub>2</sub> %						
		124.0-129.0 slight to moderate radioactivity, 10% pegmatite, trace molybdenite or graphite	11812	124.0	129.0	5.0	0.02	tr						
		129.0-134.0 slight to moderate radioactivity, gneissosity at 50° to the line of hole biotite rich, traces molybdenite or graphite	11813	129.0	134.0	5.0	0.03	0.02						
		134.0-139.0 as before	11814	134.0	139.0	5.0	0.02	0.01						
		139.0-142.5 slight radioactivity-in places only												
		142.5-162.5 gneissosity at 50° to the line of hole slight radioactivity from 151.5 to 152.5												
		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												
		213.0-218.0 slight radioactivity, some brecciation, slight hematization of feldspars, trace molybdenite or graphite	11815	213.0	218.0	5.0	0.04	0.03						
		218.0-242.5 biotite rich, no radioactivity, gneissosity at 55° to the line of hole												
		242.5-243.5 pegmatite, brecciated, moderate radioactivity	11816	242.5	243.5	1.0	0.05							

