

GM 57880

LITHIUM OCCURRENCE, TOWNSHIP 1917

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Énergie et Ressources
naturelles

Québec 

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LITHIUM OCCURRENCE
TOWNSHIP 1917
QUEBEC

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- (d) DRILL SECTIONS : 4 SHEETS : 1" = 100'
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MRN-GÉOINFORMATION 2000

GM 57880

503

TWP. 1917

Lac des
Montagnes.

	202943 3	202943 2	202943 1
		14891	14890
202945 2	202945 1	202943 4	202943 5
		24041	
202945 3	202945 24042 4	200813 5	
200813 3	200813 4		

Long. 75° 50' W. (approx.)

Lat. 51° 40' N. (approx.)

LITHIUM OCCURRENCE NEMISCAU AREA, P.Q.

SCALE: 1 IN. = 1/2 MI.

LITHIUM PROSPECT

Location

An occurrence of spodumene reported by the Quebec Bureau of Mines was investigated by Canico personnel. The occurrence is located in Township 1917 about 1 mile north-east of Mountain Lake at the following approximate co-ordinates of latitude and longitude:

51°40'00" North
75°50'00" West

(see accompanying map for location of Co 200)

Property

All of the 19 claims staked originally have been dropped from the Agreement. *only 12 shown here*

Exploration

Two holes were drilled with a Packsack machine to undercut an outcrop of spodumene-bearing pegmatite. Assays were sufficiently encouraging to warrant further work. Three holes were drilled to cross-cut the pegmatite zone bringing the total footage to 1,519.0 feet as follows:

BH-14890	69.0 feet
14891	65.0
24040	450.0
24041	481.0
24042	453.0

Exploration Results

Lithium values were returned from each hole with the most interesting being BH-24042 which graded 1.44% lithium oxide over 272.9 feet.

L and W. and open

shallow depth open pit possible

some Be assays; no Co assays?

PEGMATITE DIKE THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

PROPERTY Lac Des MONTAGNES

SAMPLING RECORD

SHEET NO. 1

HOLE NO. 14890 DEPTH 69.0 ANGLE - 60° STRIKE N ELEVATION 1465W 073

CO-ORDINATES

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		
							COPPER	NICKEL	CU. & NI.	
0.0	Collar									
5.0	Casing									
17.0	Schist, Hb - bio									
35.0	Pegmatite with coarse Hekemite									
69.0	Schist, Hb. - bio (inclusion)									
— END OF HOLE 69.0' —										
started Sept 10 1962										
completed Sept 11 1962										
PACKSACK DRILLED										
by Canadian Nickel Co.										
no tests taken										
No casing left in hole										
Hole not plugged										
100 ft SE of P4			0.2	Cent.	19645%					
Logged by F. H. Ellegren										

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

PROPERTY PEGMATITE DIKE
LAC DES MONTAGNES

SAMPLING RECORD

SHEET NO. 1

HOLE NO. 14891 DEPTH 66.0 ANGLE -60° STRIKE S ELEVATION _____

CO-ORDINATES 1785W 043020

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH		PROGRESSIVE TOTALS		
				COPPER	NICKEL	CU. & NI.	FEET		FEET X PER CENT		
				%	%	%			COPPER	NICKEL	CU. & NI.
0.0	Collar						11.0	8E0			
3.0	Schist. hb. - bic.										
23.9	Pegmatite course beds of musc. course stals of Hedenrite Ccs. blue-green stal of Beryl possibly	224765	20.9	.01	.01	.02	234	0.13			
24.0	Beryl stal?	224766	0.1								
25.0	Pegmatite ditto	224767	21.0	.03	.02	.05					
66.0	Pegmatite ditto but Hedenrite is increasing.	224768	21.0	.06	.02	.08	263	0.16			
— END OF HOLE 66.0' —											
started SEPT 14 1962											
completed SEPT 16 1962											
PACKSACK DRILLED by Canadian Nickel Co. Ltd.							NOTE: Li & Ba determinations by Lakefield Research. J.M.H. Oct 19/62.				
No. tests taken											
No casing left in hole											
Hole not plugged											
55 ft F of P4 CR2, Cont. 1964-52											
Logged by F.H. Ellings											

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

PROPERTY NEMISCAU AREA: LITHIUM

SAMPLING RECORD

SHEET NO. 4

Claim 5, U.S. 202943, Post 4 is 220' at 323°

CO-ORDINATES

HOLE NO. 24040 DEPTH 450.4 ANGLE -45° STRIKE NORTH ELEVATION 2405 2404

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		
								COPPER	NICKEL	CU. & NI.
	to 390.0									
436.0	Ground core									
440.0	Matagabba (?) as entry									
	to 390.0									
441.0	Ground core									
446.0	Matagabba									
450.4	(Matagabba) Matagabba (?) as entry to 83.6									
450.4	End of hole									
<p>Size of hole Ex Started July 29 1963 Completed Aug 3 1963 Drilled by Marisette Diamond Drilling Ltd Casing pulled in 12' lost in hole Hole not plugged Logged by G.J. Candy Acid Tests at 50' 43 1/2° 200' 40° 450' 31°</p>										

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

PROPERTY NEMISCAU AREA: LITHIUM

SAMPLING RECORD

SHEET NO. 5

Claim 5, Lic. 202943, Post 4 is 220' at 323°

CO-ORDINATES

HOLE NO. 24040 DEPTH 450.4 ANGLE -45° STRIKE NORTH ELEVATION 2110.5 210.0 W.

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT		
				COPPER %	NICKEL %	CU. & NI. %		COPPER	NICKEL	CU. & NI.
	LOG SUMMARY									
0.0	Collar									
16.0	Casing boulders									
83.6	(Metasediment) amp- felds sch									
116.1	Metagabbro									
177.1	(Metasediment) schist and gneiss									
182.5	Pyroxite, qtz-spod- felds with acc. beryl, apatite, mica									
187.2	(Metasediment) as entry to 23.6									
235.5	Metagabbro									
246.5	Pyroxite as entry to 182.5									
302.0	(Metasediment) ^{metasediment} met li. sp. from 276.5 to 275.2									
303.4	Pyroxite, qtz-felds, acc. apatite, garnet									
311.9	(Metasediment) with sheet apatite (1%) pyx									
450.4	(Metasediment) with sections m.g. metagabbro									
450.4	End of hole									

Size of hole: 5"
 Started July 29, 1963
 Completed Aug. 3, 1963
 Drilled by Morissette Diamond Drilling Ltd.
 Casing pulled, 12' lost in hole.
 Hole not plugged.
 Acid Tests at: 50' 43.5"
 200' 10.2"
 450' 31"

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 1

PROPERTY NEMISCAU AREA: LITHIUM

Plot 1, Claim 4, Lic. 202943 is 1120.0' at 032°

CO-ORDINATES

HOLE NO. 24041 DEPTH 1481' ANGLE -75° STRIKE NORTH ELEVATION

5100.5 1200 W

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER	NICKEL	CU. & NI.		FEET X PER CENT		
				%	%	%		COPPER	NICKEL	CU. & NI.
0.0	Collar			Li - 0						
16.0	Casing - Ex. Boulders									
	Core starts at 16.0'									
16.4	Metasediment: m.g. bio-qtz - felds - sch.									
19.4	Pegmatite: e.g. qtz - felds with acc. apatite in intense blue specks, garnets and mica. Total acc. minerals < 5%. Qtz variable but in most sections qtz & felds. Spodumene e.g. euhedral to subhedral - 2.0%	F235251	5.0							
21.3	Pegmatite as previous entry: Spodumene 2.5% e.g.	F235252	1.9	1.34						
22.6	Pegmatite: m.g. sheared muscovite peg. with acc. garnet, qtz, felds.	F235253	1.3							
25.0	Pegmatite as entry to 19.4. Spodumene e.g. 2.5%	F235254	2.4							
67.3	Gneiss: f.g. to m.g. non-totolastic amp. felds and amphibolite schists, with thin (mm.) siliceous partings fol. 70° to 80° to core axis. In some sections coarse to m.g. foliated texture.									
55.5	Metagabbro (?) m.g. gneiss amp. foliated texture to slightly schistose.									
61.6	Pegmatite as entry to 19.4. Spodumene e.g. 1.5%	F235255	5.0							
66.6	Pegmatite as entry to 19.4. Spodumene e.g. 1.5%	F235256	5.0							

SAMPLING RECORD

CO-ORDINATES

5+00S 12+00W

HOLE NO. 2404 DEPTH 481 ANGLE -14.5° STRIKE NORTH ELEVATION

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT		
				COPPER C.P.C.	NICKEL L. & N.I.	CU. & NI. %		COPPER	NICKEL	CU. & NI.
300.2	Metagabbro as entry to 150.8			1.0	1.0					
305.2	Pegmatite as entry to 19.4. Spodumene intergrown with quartz, & c.g. spodumene crystals, 20%	F235268	5.0	1.44	1.77					
310.2	Pegmatite as entry to 305.2. Spodumene 35%	F235269	5.0	.21						
315.2	Pegmatite as entry to 305.2. Spodumene 25%	F235270	5.0	1.41						
320.4	Pegmatite as entry to 305.2. Spodumene 10%	F235271	5.2	1.75						
321.0	Metasediment as entry to 247.5									
322.8	Ground Core									
323.1	Metasediment as entry to 247.5									
324.4	Ground Core									
332.6	Gneiss as entry to 473									
365.0	Gneiss, m.g. fields - amp, siliceous									
367.7	Metasediment as entry to 247.5, interbedded with gneiss as entry to 112.4									
372.7	Pegmatite as entry to 19.4. Spodumene 15%	F235272	5.0	1.65	1.66					
377.7	Pegmatite as entry to 12.4. Spodumene 20%	F235273	5.0							
382.7	Pegmatite as entry to 19.4. Spodumene 7.5%	F235274	5.0	.34						
387.7	Pegmatite as entry to 12.4. Spodumene 5%	F235275	5.0							
393.0	Pegmatite as entry to 12.4. Spodumene 7%	F235276	1.3	.70						

SAMPLING RECORD

PROPERTY NEMISCAU AREA, LITHIUM

CO-ORDINATES

LINE NO. 24041 DEPTH 481 ANGLE - 45° STRIKE NORTH ELEVATION

5+00S

12+00 W

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER	NICKEL	CU. & NI.		FEET X PER CENT		
				%	%	%		COPPER	NICKEL	CU. & NI.
392	Greenstone as entry to 473									
390.0	Ground Core									
392.3	Greenstone as entry to 473									
403.0	Greenstone as entry to 473, with ground core in short sections totalling 3.5'									
405.0	Greenstone as entry to 473									
430.4	Melaguita (?) as entry to 150.0									
481.0	Greenstone as entry to 473									
481.0	End of hole									
<p>Size of hole: E</p> <p>Started: Aug. 5, 1963</p> <p>Completed: Aug. 2, 1963</p> <p>Drilled by Marquette Diamond Drilling Ltd.</p> <p>Casing - pulled</p> <p>Hole not plugged</p> <p>Logged by G.J. Candy</p> <p>Acid Tests:</p> <p>480' 21"</p>										

SAMPLING RECORD

CO-ORDINATES

PROPERTY NEMISCAU AREA: LITHIUM. HOLE NO. 24041 DEPTH 181 ANGLE -45° STRIKE NORTH ELEVATION 5+005 12+00W

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT		
				COPPER %	NICKEL %	CU. & NI. %		COPPER	NICKEL	CU. & NI.
LOG SUMMARY										
0.0	Collar									
14.0	Casing: core starts at 14.0									
14.4	Metasediment									
25.0	Pegmatite with Spodumene									
27.3	Greenstone									
33.6	Metagabbro									
71.6	Pegmatite with Spodumene									
115.8	Greenstone with interbed of gneiss (biotite)									
135.5	Pegmatite with Spodumene		1.7							
181.2	Greenstone with short sections metagabbro									
191.9	Pegmatite with Spodumene									
196.1	Greenstone									
208.1	Pegmatite with Spodumene									
227.5	Greenstone with short section metagabbro									
245.9	Pegmatite with Spodumene									
247.5	Metasediment									
255.5	Pegmatite with Spodumene		1.6							
320.7	Greenstone s. metagabbro									
320.4	Pegmatite with Spodumene									
327.7	Greenstone s. metasediment									
333.7	Pegmatite with Spodumene		1.3							
401.0	Greenstone with short section metagabbro at 400.4									
401.0	End of hole									

Size of hole Ex
 Started: Aug. 6, 1963
 Completed: Aug. 8, 1963
 Drilled by Merisette Diamond Drilling Ltd.
 Casing pulled
 Hole not plugged
 Logged by G. J. Sandy
 Acid Tests: 50 : 40 1/2°
 200 : 32°
 480 : 21 1/2°

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 2

PROPERTY NEMISCAU AREA: LITHIUM.

Post 4, CLAIM 4, loc. 202945 is 600' at 289°

CO-ORDINATES

HOLE NO. 24042 DEPTH 453' ANGLE -45° STRIKE NORTH ELEVATION

7+40S 28+00W

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		
73.0	Pegmatite, e.g. feldspar with c. 1% apatite			Li.0	Li.0					
80.4	Greenstone as entry to 46.4									
85.4	Pegmatite as entry to 27.0. Spodumene mg. 15%	F235280	5.0	1.45						
90.4	Pegmatite as entry to 27.0. Spodumene 15%	F235281	5.0							
95.8	Pegmatite as entry to 27.0. Poorly developed banding of Spodumene is exhibited, c. 60° to core axis Spod. = 10%	F235282	5.4		1.64	15.4		35.20		
111.2	Greenstone as entry to 46.4									
112.1	Pegmatite, mg. to e.g. qz. = felds. with Spodumene < 1%	F235283	5.4							
115.9	Greenstone as entry to 46.4. Fol. 65° to core axis									
117.1	Ground core									
122.1	Pegmatite as entry to 27.0, but platish feldspars. Spodumene 2.0%	F235284	5.0	1.27						
127.1	Pegmatite as entry to 122.1. Spodumene 2.0%	F235285	5.0	2.51						
132.1	Pegmatite as entry to 27.0. Spodumene 2.5%	F235286	5.0							
137.1	Pegmatite as entry to 122.1. Spodumene 10%	F235287	5.0	1.25						

SAMPLING RECORD

PROPERTY NEMISCAU AREA: LITHIUM

Post 4, CLAIM 4, Lic. 202945 is 600' at 289°

CO-ORDINATES

7+40 S 28+00 W

DRILL NO. 24042 DEPTH 453' ANGLE -45° STRIKE NORTH ELEVATION

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT		
				COPPER	NICKEL	CU. & NI.		COPPER	NICKEL	CU. & NI.
				C.P.C.	Li ² O	%				
2.1	Pegmatite as entry to 122.1 Spodumene 15%	F235288	5.0	Li ₂ O	Li ₂ O					
5.0	Pegmatite as entry to 122.1 Spodumene 5%	F235289	2.9							
46.3	Ground Core	-	1.3							
46.8	Pegmatite as entry to 122.1 Spodumene 10%	F235290	0.5							
47.8	Ground Core									
50.0	Pegmatite as entry to 27.0 Spodumene 35%	F235291	2.2	3.66						
55.0	Pegmatite as entry to 122.1 Spodumene 10%	F235292	5.0							
60.0	Pegmatite as entry to 122.1 Spodumene 5%	F235293	5.0	1.06						
65.0	Pegmatite as entry to 27.0 Spodumene 5%	F235294	5.0							
70.0	Pegmatite as entry to 27.0 Spodumene 10%	F235295	5.0	1.78						
75.0	Pegmatite as entry to 122.1 Spodumene 10%	F235296	5.0							
80.0	Pegmatite as entry to 122.1 Spodumene 7 1/2%	F235297	5.0		1.1		47.3	131.76		
85.0	Pegmatite as entry to 27.0 Spodumene 15%	F235298	5.0	1.65						

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

PROPERTY NEMISCAU AREA: LITHIUM

SAMPLING RECORD

SHEET NO. 6

Post 4, Claim 4, Sec. 202945 is 600' at 289°

CO-ORDINATES

HOLE NO. 24042 DEPTH 453' ANGLE - 45° STRIKE NORTH ELEVATION

7+40S 28+00W

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER	NICKEL	CU. & NI.		FEET % PER CENT		
				C %	N %	%		COPPER	NICKEL	CU. & NI.
315.0	Pegmatite as entry to 27.0, with mica 15% Spodumene 7½%	F229025	5.0	Li-D						
320.0	Pegmatite as entry to 27.0 Spodumene 7½%	F229026	5.0							
325.0	Pegmatite as entry to 27.0 Spodumene 7½%	F229027	5.0	Li-D						
330.0	Pegmatite as entry to 27.0 Spodumene 7½%	F229028	5.0							
335.0	Pegmatite as entry to 27.0 Spodumene 5%	F229029	5.0							
340.0	Pegmatite as entry to 27.0 Acc. mins. ins. finely diss. fluorite 4.1% Spodumene 7½%	F229030	5.0							
345.0	Pegmatite as entry to 315.0 Spodumene 10%	F229031	5.0							
350.0	Pegmatite as entry to 27.0 Spodumene 5%	F229032	5.0							
355.0	Pegmatite as entry to 27.0 Spodumene 15%	F229033	5.0	1.49						
360.0	Pegmatite as entry to 27.0 Spodumene 15%	F229034	5.0							
365.0	Pegmatite as entry to 27.0 Spodumene 10%	F229035	5.0							
370.0	Pegmatite as entry to 27.0 Spodumene 7½%	F229036	5.0							
375.0	Pegmatite as entry to 27.0 Spodumene 10%	F229037	5.0							
382.0	Pegmatite as entry to 27.0 Spodumene 15%	F229038	5.0	1.50						

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

PROPERTY NEMISCAU AREA: LITHIUM SAMPLING RECORD

SHEET NO. 7

Post 4, CLAIM 4, 1/2. 202945 is 600' at 289°

CO-ORDINATES

HOLE NO. 24042 DEPTH 453' ANGLE -45° STRIKE NORTH ELEVATION

7140 S 28100 W

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT		
				COPPER %	NICKEL %	CU. & NI. %		COPPER	NICKEL	CU. & NI.
	27.0 Spodumene 10%	F229039	5.0	2.02						
320.0	Pegmatite as entry to 27.0									
	Spodumene 20%	F229040	5.0	1.92	1.73	50.0				
395.0	Pegmatite as entry to									
	27.0 Spodumene 10%	F229041	5.0							
400.4	Pegmatite, mostly feldspat. sg. with quartz and spodumene. Spodumene 5%	F229042	5.4	.65						
412.8	Greenstone as entry to 46.4. Contact with pegmatite not sharp; ~ 80° to core axis. Greenstone fol. 80°-90° to core axis.									
412.0	Gneiss, mg. gtz. - bio. - felds., contact with greenstone 75° to core axis.									
453.0	Greenstone as entry to 46.4. Fol. 80°-90° to core axis. At 430.0 thin interbed as entry to 412.0.									
453.0	End of Hole.									
	Size of Hole: 5/8" Started Aug. 8, 1963 Completed Aug. 13, 1963 Drilled by Macissette Diamond Drilling Ltd. Casing pulled Hole not plugged Logged by G.T. Candy Acid Tests: 50': 41" 200': 23" 412': 17"									

