

010

#### **Diamond Drilling**

Township of Hutton

Report NQ: 19

#### Work performed by: International Mine Services Ltd./ Lion Nickel Mines of Canada Ltd.

Claim Nº		Hole N9	Footage	Date	Note
S 155660		J-1	1064'	Sept/69	(1)
S 154702		J-2 J-3	1300' 1667'	Sept/69 Oct/69	(1) (1)
	TOTAL:	3 DH	4031 FT		

Notes: (1) 285/69



δ. ∎ - Γ	PROPERTY Lion Mickel Mines of Canad Hutton Twp., Ontario	ada - HOLE NO. J-1						
SHEET NUMBER			то	ti a mata a consegnia attacapa a	START	ED_Sept.2/69		
LATITUDE 12	BO S DATUM CLAIM	DATUM_CLAIM: 5.155660						
DEPARTURE6	80 BEARING				ULTIN	ATE DEPTH 1064		
LEVATION	DIP90°			n u 1.41. 14.4 14	PROPC	SED DEPTH		
DEPTH FEET	FORMATION	FORMATION SAMPLE FROM TO			TO WIDTH ASSAY VALUES			
0 - 38.0	Casing							
38.0 - 100.	6 Bruce conglomerate formation. Dark							
	grey, fine grained, impure quartzite							
	approaching greywacke in places.							
	Fine flacks biotite in many places.							
<b>P</b>	Only occasional grey granite pebble							
	mainly pea size but few up to 2"-4".							
•	Massive, fine grained, with only							
•	occasional trace of vague bedding.							
	Very little fracturing.							
	Fine disseminated pyrite throughout.							
· ·	Up to ha to 1a in places.							
	Trace of pyrrhotite and chalcopyrite							
	in fracture at 100.1.							
100.6-110.3	Continuation of Bruce conglomerate							
	Darker grey than previous. Impure							
	quartzite, approaching greywacke in							
	many places. Fow scattered, small			·····				
	pebbles granite & white quartz from							
	k" to 2". Very little fracturing							
	Light biotite in places.							

DRILLED BY CONTINENTAL DIAMOND DRILLING

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•	PROPERTY Lion Nickel Mines of Canad	HOLE NO. J-1						
SHEET NUMBER.	BER 2 Hutton Twp., Ontario SECTION FROM TO STARTED							
LATITUDE	DATUM		· · · · · · · · · · · · · · · · · · ·		COMPI	.ETED		
DEPARTURE	BEARING		<b></b>	****	ULTIM	ATE DEPTH		
ELEVATION	DIP PROPOSED DEPTH							
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	to	WIDTH	ASSAY VALUES		
100.6-110.2	Very few traces of bedding. At 110.2' bedding shows 60° to core. Light fine pyrite disseminated							
110.2-174.0	throughout, amounting to 1% in places Grey, massive, fine grained, impure	•						
	quartzite. Traces of bedding at 122 <sup>1</sup> show an angle of 60 <sup>0</sup> to core. Traces							
	biotite throughout. Fine pyrite				1			
	amounting to less than 4% dissem- inated throughout.							
174.0-184.0	Similar to 100.6 to 110.2 Grey to				1			
184.0-231.0	Impure quartrite. Very fine grained massive, with very little fracturing							
	Few traces of indistinct bedding at 229' are at core angle of 60°.							
	Rare small white quartz pebbles.							
	Traces fine pyrite.							
231.0-261.0	Continuation of Bruce conglomerate							
	Dark grey, impure quartzite, approaching siliceous greywacke			** -* -**	<u> </u>			
	Occasional small quartz or granite pebbles.							

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# DIAMOND DRILL RECORD

	PROPERTY Lion Nickel Mines of Cana Nutton Twp., Ontario	HOLE NO, <u>J-1</u>							
SHEET NUMBER.		FROMTO			STARTED				
LATITUDE	DATUM.				CO	MPLETED			
DEPARTURE	BEARING	BEARINGULTIMATE DEPTH							
ELEVATION	N DIP PROPOSED DEF								
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	10	WIDTH	ASSAY VALUES			
231.0-261.0	Considerable biotite throughout.								
	Light, fine pyrite disseminated								
	amounting to 3% to 1% in places.								
	Very little fracturing.								
	Fairly distinct bedding in places								
	Core angle 60°. Distorted in places								
	k" white quartz stringer at 450 at				1				
	238.2								
261.0-308.0	Continuation of Bruce conglomerate				1		<del></del>		
	Medium grey, massive, fine grained								
	impure quartzite with no traces of	**************************************			1				
	bedding. Occasional small grey				1				
	granite pebble. Flecks biotite								
	throughout. Darker sections approach	-			1				
	ing siliceous greywacko.								
	Fine, disseminated pyrite throughout								
	and in places amounting to 1%. Few				1				
	black, hairline fractures. One set				†				
	fractures at 45° to core, but many				1				
	other irregular directions also.				<u>†</u> <u>†</u>				
	Traces pyrrhotite and chalco in few				<u> </u>				

fractures.

•	PROPERTY Lion Nickel Mines of Canad Hutton Twp., Ontario	la j	HOLE NO. J-1				
SHEET NUMBER	SECTION FROM	··· marana ana ara a	то	STARTED			
LATITUDE	DATUM		•• • ·		COMP	ETED	
DEPARTURE	BEARING		· • · · · · · · · · · · · · · · · · · ·	······	ULTIN	IATE DEPTH	
ELEVATION	DIP.	PROPC	SED DEPTH				
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	το	WIDTH	ASSAY VALUES	
308.0-372.0	Continuation of Bruce conglomerate. Darker grey than previous section, impure quartzite, approaching siliced greywacke. Fine biotite throughout but not as abundant as previous sections. Fine grained, massive, no bedding. Very little fracturing. Few gray granite pebbles from %" to 1%". Fine disseminated pyrite up to %% in places.						
372.0-470.0							
470.0-494.0	Continuation of Mississagi Formation Lighter gray than previous section, d						

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•	PROPERTY Lion Nickel Mines of Can	tel Mines of Canada			HOLE NO. J-1			
SHEET NUMBER	5 SECTION FROM		TO		START	ED		
LATITUDE	DATUM					ETED		
DEPARTURE	BEARING				ULTIM	ATE DEPTH		
ELEVATION	DIP			· •		SED DEPTH		
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	10	WIDTH	ASSAY VALUES		
	dense, hard, massive arkositic				1			
	quartzités Very little biotite. No						1	
	trace of bedding. Very few fractures	•					1	
	Traces of feldspar grains.			,				
494.0-512.0	Continuation of Mississagi formation				1		1	
	Light buff coloured, very fine						+	
	grained, dense, almost cherty,						<u>+</u>	
·	quartzite. No trace bedding, and						Î	
	very little fracturing. Traces fine							
	pyrite in places.						•	
512.0-588.0	Continuation of Missassagi Formation							
	Grey to dark gray, fine grained dense.						<b>*</b>	
	hard, arkositic guartzite, with some							
	lesser sections similar to 494.0-512.	)						
	quartzite. Traces biotite and feld-							
	spar. Fine disseminated pyrite in							
	trace amount throughout. Very few							
	fractures. No pebbles or bedding.							
588.0-596.0	Continuation of Mississagi formation							
	Light buff coloured. Very fine							
	grained, hard, dense, almost cherty							

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•	PROPERTY Lion Nickel Mines of Cana Hutton Tp. Ontario	HOLE NO. J-1					
SHEET NUMBER.	6 SECTION FROM		<b>TO</b>		STA	RTED	
LATITUDE	DATUM		. <b>.</b>		СОМ	PLETED	derit de la suerra de militar de la capacitação
DEPARTURE	BEARING		4	1 *1 <b>*8</b> • 7 (8) • 14	ULT	MATE DEPTH	
ELEVATION	DIP PROPOSED DEPTH						
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	10	WIDTH	ASSAY VALUES	
588.0-596.0	quartzite. Similar to section 494.0- 512.0				-	· · · · · · · · · · · · · · · · · · ·	
595.0-622.6	Continuation of Mississagi Formation	·····					
	Gray, fine grained, dense, hard, arkositic quartzite. Very little				┨───┤──		
<b></b>	fracturing. No trace bedding.						
622.6-623.6	Traces light fine pyrite. Continuation of Mississagi Pormation						
	Light grayish green, altered, arkosit material. Few dark fractures? or bad	:10					
	planes at 65° to core. Minor fault zone?						
623.6-648.0	Continuation of Mississagi Formation						
	Light buff coloured, very fine graine hard, dense, almost cherty, quartzite						
	Very few, black hairline fractures at 300 to 700 to core. No bedding.						
648.0-697.0	Continuation of Mississagi Formation						
	Gray, fine grained, hard, dense, impure arkositic quartzite. Pew						
	flecks black biotite. Traces pink						T

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	PROPERTY   Lion Nickel Mines_of Canada     Hutton Twp., Ont.   7     SECTION FROM   TO								
SHEET NUMBER.		SECTION FROM		TO		START	ED.		
LATITUDE		DATUM	· · · · · · · · · · · · · · · · · · ·			COMPL	ETED		
DEPARTURE		BEARING			··· <u></u> ,	ULTIM	ATE DEPTH		
ELEVATION	DIP PROPOSED DEPTH								
DEPTH FEET		FORMATION	SAMPLE NO.	FROM	10	WIDTH	ASSAY VALUES		
648.0-697.0	feldspar gra	ins in places. No bedding							
		ctures to 681 with small							
		after at mainly 65° to				1		<u> </u>	
	450 Pinkish	orange feldspar alter-							
***		edges some fractures.							
697.0-831.3	Continuation	of Mississagi Formation				4			
	Continuation	of previous gray, fine							
	grained, har	d arkositic quartzite.							
·····	Traces bioti	te in places. In some							
	short sectio	ns feldspar grains show							
	prominent pi	nkish freckles. Increase						<del>*************************</del>	
	in fracturin	g from previous section.							
	Fractures ma	inly at 45° to core -	<u>.</u>						
	few at 300.	Fracture at 761.5 at 10°							
	to core, and	filled with vuggy, white							
	carbonate (1	/8" - k") with pink feld-							
	spar alterat	ion along edge of fracture							
	Many other f	ractures filled with blac	٢						
		have same pink feldspar							
	alteration a	long edges. Some section	8						
	show numerou	s pink feldspar grains.							

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DIAMOND	DRILL	RECORD	
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•	PROPERTY Lion Nickel Mines of Ca	nađa		HOI	.E NO. J_	1	
SHEET NUMBER.	8 SECTION FROM						
LATITUDE	DATUM					PLETED	
DEPARTURE	BEARING					MATE DEPTH	
ELEVATION							
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	10	WIDTH	ASSAY VALUE	5
697.0-831.3	Very little pyrite mineralization.						
	k" white guartz stringer at 50° to						
	core at 702.6 with small bleb py.						
	Fractures from 790-795 show various				1		
	core angles with 20° to 35° predomin-			<b>*</b>	tt		
1	ating. After 700' many sections of						
· · · · · · · · · · · · · · · · · · ·	shattered, broken-up core. Following	7		••••••••••••••••••••••••••••••••••••••	<b> </b>		
	sections of core are badly shattered			• • • • • • • • • • • • • • • • • • •	<u>+</u>		
	and are probably fault associated			<b>†</b>	<u> </u>		
****	crush zones.				<u> </u>		
	699-702, 710-711, 712-713, 796-797,						
	798-798.5, 808-815, 816-817, 820-821						
	825-827,						
831.3-837.0	Fault Zone - Start of Bruce Conglom-						
	erate Formation.						
••••••••••••••••••••••••••••••••••••••	Badly broken-up core 60% of core lost	E I					
	Fragments show traces breccia. Some						
<u></u>	prominent pink feldspar grains and						
	few pink granite pebbles. Grains						
	are mainly quarts, with some feldspar						
	and biotite flecks. Traces chlorite.		•				

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•	PROPERTY Lion Nickel Mines of Canada				HOLE NO. J-1				
SHEET NUMBER_	9	Hutton Twp., Ontario SECTION FROM		<b>TO</b>		START	ED		
LATITUDE		DATUM				COMP	LETED		
DEPARTURE		BEARING	•			ULTIN	IATE DEPTH		
ELEVATION		DIP	PROPOSED DEPTH				SED DEPTH		
DEPTH FEET	DEPTH FEET FORMATION SAMPLE FROM TO WIDTH				WIDTH	ASSAY VALUES			
837.0-853.0	Continuation core, but decr Dark gray, imp approaching si Occasional pea pebble, and on cobble. Grains feldspar and b trace dissemin 847.0-847.5 al chloritic and minor fault so Continuation of Dark grayish g Considerable ( pebbles from p	of Bruce Conglomerate of previous broken up reasing in severity. Oure quartzite, liceous greywacke. a sized pink granite are mainly quartz lotite flecks. Slight ated py. Section tered to light green carbonated. Resembles ne. f Bruce Conglomerate For rean, arkosite quartzi 8%) tiny pink granite ea size to two up to quartz and chert	rmatio	1					
	+	x is fine to medium			1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -				
	grained and sh grains with so	ows quartz, & feldspar me chlorite and biotite	•						
	Traces pyrite	throughout. Rapid							

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	DIAMOND DR	ILL	REC	OR	D		
SHEET NUMBER_	PROPERTY   Lion Nickel Mines of Car.     Hutton Twp. Ontario   10						
LATITUDE	DATUM		lan sun sunna sun sun sun		COMPI	ETED	
DEPARTURE	BEARING	Version Autoritation on California Autoritation		H with the second	ULTIM	IATE DEPTH_	······································
ELEVATION	DIP				PROPO	SED DEPTH_	
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	10	WIDTH	ASSAY V	ALUES
853.0-898.8	decrease in fracturing after 853.						
<b>.</b>	Very few tiny (%"), white carbonate						
g= =	filled fractures, mostly at 600 to		 				
	core.						
898.8-1064.0	Continuation of Bruce Conglomerate P		ən		ļ		
•	Dark gray green, siliceous greywacke				<b></b>		
	with many gray granite, pink granite						
 •	and few guartz and chert pebbles.						
<u></u>	Pebbles range from k" to 8", Matrix				<b>_</b>		
	is fine to medium grained with						
	quartz and feldspar grains and						
	bictite and chlorite in interstices						
	Very little fracturing. Vague traces						
	bedding at 600 in few places. Fine						
	disseminated pyrite up to ht in						
	places and traces chalcopyrite and						
	pyrrhotite.						
1064	End of hole.						
<u></u>					ļ		
••••••••••••••••••••••••••••••••••••••							

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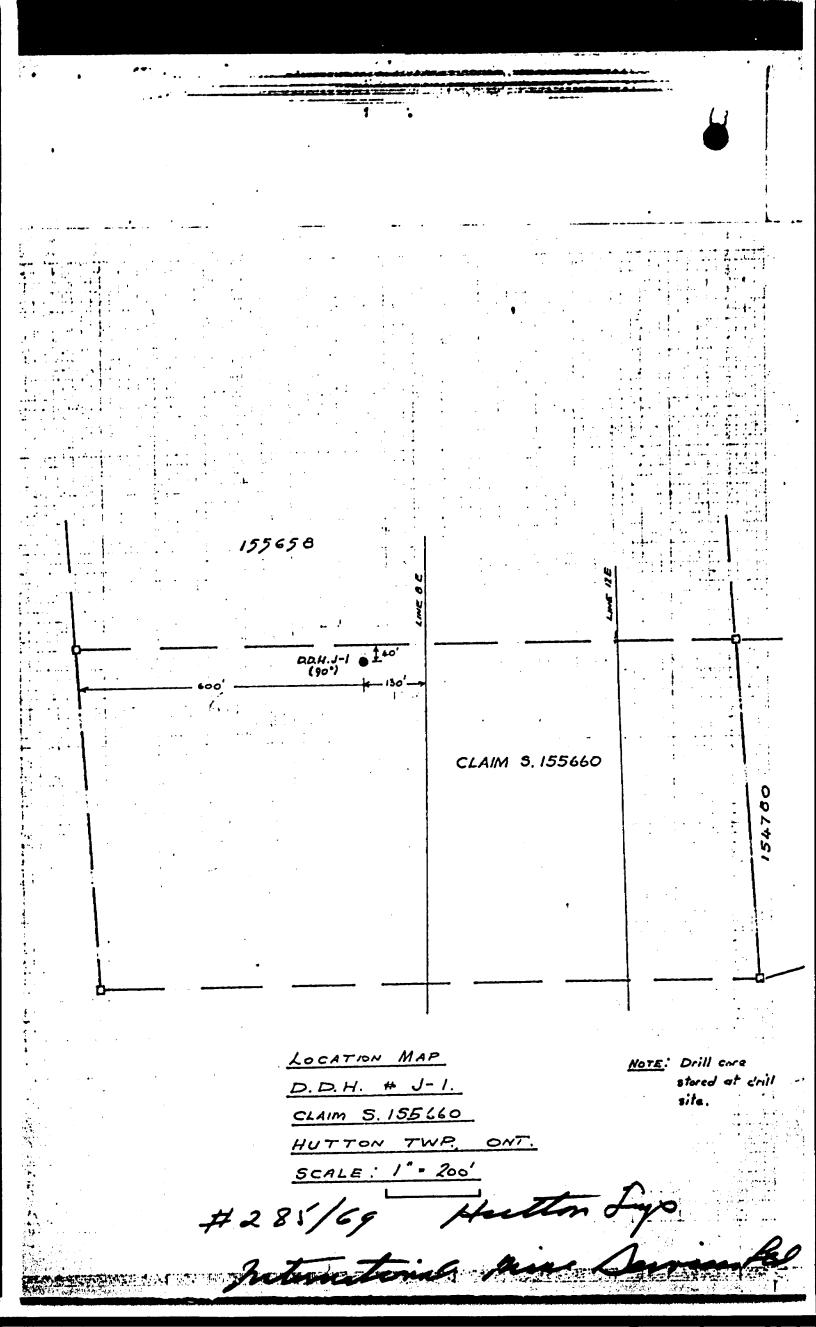


•	PROPERTY Lion Nichel Mines of Canada Hutton Twp.			HOLE NO.					
SHEET NUMBER_	SECTION FROM		ТО		START	ED			
LATITUDE	DATUM	ն ք միսումբուստ է է գելոր։			COMPL	ETED			
DEPARTURE	BEARING	1 1 Anage	· · · ·		ULTIM	ATE DEPTH			
ELEVATION	DIP	P PROPOSED							
DEPTH FEET	FORMATION	FROM	TO	WIDTH	ASSAY VALUES				
· · · · · · · · · · · · · · · · · · ·	Dip Tests								
	1 @ 550 ft. depth etch angle: 700								
	Corrected Angle	1							
• • • • • • • • • • • • • • • • • • •	1 @ 950 ft. depth etch angle: 65°	-							
	Corrected angle:								
••••••••••••••••••••••••••••••••••••••	Following sections split and sample assayed for gold.	<b>s</b>							
	83.1-86.1 18 diss. py.	J-1							
	107.2=110.2 18 diss. py.	J-2							
	231.3-234.3 1% diss.py. trace chal. 6 py.	J-3		<u>.</u>					
	1014.3-1017.3 5% diss.py.trace py.			·	<u> </u>				
	977.0-980.0 3/4% py.	J-4 J-5							
	895.0-896.8 Two k" white guartz stre			<del> <u>.</u></del> .					
, <u>e., ,''., , , , , , , , , , , , , , , , ,</u>	at 70° to core, 4% pyrite for 6"	340							
	between strgrs.	J-6			1				
	Geiger Counter tests of allecore in	this he	le wer	e nil.					
	All core in rack located at drill s								

SIGNED\_\_\_\_\_Alex Watt

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	PROPERTY Lion Nickel Mines of	Canada		HO	E NO. J-2			
SHEET NUMBER	R 1 Hutton Twp., Ontario SECTION FROM	TWP., Ontario SECTION FROM TO DATUM CLAIM: 5, 154702			STARTED Sept. 20/69 COMPLETED OCT. 3/69			
LATITUDE2	860 South DATUM CLAI							
DEPARTURE	1680 Bast BEARING	250*		UI.TIMATE DEPTH 130				
ELEVATION	DIP850				PROPO	SED DEPTH		
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	10	WIDTH	ASSAY VALUES		
0-8.0	Casing							
8.0-181.0	White to very light gray. fine							
	grained, hard Mississagi guartzite							
	interbedded in thick beds with lic							
	grav arkositic quartzite containin	-						
	a high percentage of tiny (1/8"-4"							
	grains and chips of quartz, feasi	te.						
	and occasionally chert. Grains are							
	usually poorly rounded. Rare pebl	ble						
	up to 3/4" diameter. Occasional th							
	bed (1/8"-k") greenish, fine grain	ned						
	banded argillite. Core angle of be	eds						
	is 30°. Several sections core from	m						
<u> </u>	32 feet to 74 feet shows a dark							
	purplish red hematite coloration :	in						
	streaks and patches. Hematite is							
	mostly associated with few tiny v	ugs						
	occasional minor fracture, or bed	ding						
<u>_</u>	but is also dessiminated in places	8.						
	Some light green, sertcitic alter	ation						
	at 173-173.5 at 35° to core. Minor	r						
	Ta I	ult?						

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DRILLED BY CONTINENTAL DIAMOND DRILLING

		Lion Nickel Mines of C Hutton Twp., Ontario			HO	LE NO.	J-2	
SHEET NUMBER.	2		то	STARTED			· •····	
LATITUDE		DATUM				COMPL	ETED	
DEPARTURE		BEARING						
ELEVATION DIP			andana a ca		PROPO	SED DEPTH.		
DEPTH FEET		FORMATION	SAMPLE NO.	FROM	τo	WIDTH	ASSAY	VALUES
181.0-369.0	Similar to p	receeding, except for						
	more numerou	s argillaceous sections						
	Thick interb	eds of fine grained,						
	white quarts	ite, and light grey						
	arkose with	tiny grains and chips;						
<b></b>	and beds of	black argillaceous arkos	8.					
	The latter se	ections contain fine						
• ••••••••	grains of qu	artz and feldspar with						
	black argill.	aceous interstitial						
	material.							
	Occasional th	hin k"-k" bed of fine						
	grained, dar	k græen argillite.						
	Core angle of	f bedding is variable -						
****** *******************************	average 30°.							
	SLight pyrite	a disseminated in places						
<u> </u>	and rare, tin	ny bleb.						
369.0-376.0	Interbedded,	thin bands (1/8"-4"),						
	black argill	aceous arkose, and grey						
·····	arkose. Core	e angle of bands 450.						
	No clasts. Sp	parse fine pyrite.						

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	PROPERTY Lion Nickel Mines of Cana Hutton Twp., Ontario	nda	·	HO	le no. J	-2			
SHEET NUMBER_	SECTION FROM			STARTED					
LATITUDE	DATUM	• • ••••	··· • •··	COMPLETED					
DEPARTURE	BEARING			ULTIMATE DEPTH					
ELEVATION	D1P		atana at	PROPOSED DEPTH					
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	10	WIDTH	ASSAY VALUES			
376.0-430.0	Thick interbeds of black argillaceou	3							
	arkose, and grey arkose. Scattered								
	grains and chips quartz, feldspar								
	and occasional whert ranging from								
	1/8" to 3/16". Band of fine grained								
	greenish argillite from 388 to 391								
	feet. Bedding is contorted, average								
	core angle is 300								
430.0-492.0	Similar to preceeding section, but								
	with decrease in number of tiny								
<u></u>	clasts. Traces bedding in more								
	argillaceous sections show core								
	angle of 45°. Occasional small bleb								
	pyrite, and light pyrite disseminated	1							
	in places.								
492.0-590.0	Grading into more argillaceous								
	arkosite, with only rare, tiny clast								
	Traces bedding at 30° to core.								
	Very little pyrite.								
590.0-619.0	Medium to light gray fine grained								
	arkosite, with scattered, low								

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	PROPERTY Lion I Hutto	Nickel Mines of Ca n Twp., Ontario	nada		HO	LE NO. J-:	<u> </u>			
SHEET NUMBER.		SECTION FROM	SECTION FROM TO				ED			
LATITUDE	1999, 1991 <del>- 1997 - 1997 - 1997 - 19</del> 85 1997 - 1975 - 1976 - 1976 - 1976 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977	DATUM	<b>.</b>			COMPLETED				
DEPARTURE		BEARING	• • • • • • •		·	ULTIM	ATE DEPTH			
ELEVATION		DIP			PROPOSED DEPTH					
DEPTH FEET	FORMA	TION	SAMPLE NO.	FROM	10	WIDT +	ASSAY VALUES			
	percentage, tiny,	feldspar clasts								
	and occasional quar									
	mostly rounded, and	d range from 1/8"								
	- 3/16" in diameter	r. Very light								
	pyrite in places.							-		
619.0-776.0	Similar to preceed	ing but gray arkos		1		1				
	is interbedded in f									
	beds with black are	illaceous arkose,								
	and lesser, thin be	ds argillite.								
-	Scattered, tiny cla	asts from 1/16" to								
	3/16" in both gray	and black rocks,								
	rarely in the argit	llite sections.								
	Clasts are poorly	counded, mostly								
	quartz and felsite.	. Very few traces								
	of bedding except	In argillite.								
<u></u>	Bedding in this mat	terial is at 20 <sup>0</sup>								
	to core. Occasion	al section with								
	few specks pyrite,	and blebs.								
776.0-797.0	Gray, medium grain	ed arkose. Scatter	ed							
	tiny (1/16" - 4")	clasts feldspar and	h							
	quarts. Few pink for	eldspar grains		2						

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PROPERTY Lion Nickel Mines of Canada Hutton Twp., Ontario									
SHEET NUMBER_	5 SECTION FROM		<b>TO</b>		STARTI	ED			
LATITUDE	DATUM		• •	COMPLETED.					
DEPARTURE	BEARING				ULTIM	ATE DEPTH			
ELEVATION	DIP			. PROPOSED DEPTH					
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	10	WIDTH	ASSAY VALUES			
	(or crystals) in places. Scattered								
	traces pyrite and lesser pyrr. and								
	chalco.								
797.0-809.0	Dark gray to black argillaceous								
	arkosite. Fine grained. No bedding								
	Yery few tiny feldspar and quartz								
	clasts. Occasional crystal pyrite.								
809.0-814.5	Gray, hard, medium grained arkose.								
	Reddish orange feldspar alteration								
	along a few fractures.								
814.5-830.2	Altered arkose. Highly feldspathized								
	Altered arkose is an assemblage of								
	reddish pink feldspar crystals								
	(3" to rare 3") intermixed with white								
	feldspar and clear quartz, and a very	•							
	low percentage of biotite. Feldspars								
	appear to be crystals and not detrit								
	grains. Core has a striking, pink								
	and white mottled and granular textu	<b>.</b> e.							
	Many sections show numerous tiny (1/2	L6")							
<u></u>	vuggy pits. Pits are lined with clear								

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SHEET NUMBER_	PROPERTY6	Hutton Twp., Ontario								
LATITUDE										
	-									
ELEVATION	VATION DIP					SED DEPTH				
DEPTH FEET		FORMATION	SAMPLE NO.	ROM	το	WIDTH	ASSAY VALUES			
	quarts cryst	tals. Small fracture a	at							
	830.2 shows	vuggy calcite crystals	5.	1		<u> </u>				
		ng sections lost consid		<u>†</u> †		1				
	erable core	due to grinding.		†						
	819.0-821.0	- 10% lost core				<u>+</u>				
•	821.0-827.0					+				
	827.0-830.2	- 401 " "	······································			+				
B30.2-943.5	Gray, hard,	medium grained, arkose		<b>†</b>		†				
······		iny (1/16" - 3/16")		<u> </u>	······	<u> </u>				
		z and felsite. No				+				
		ding. Traces pink								
	feldspar alt	eration along few				•				
		ter 901 feet. Occasio	nally			•				
		ion is disseminated an				+				
		ed with fractures.								
	Section 859	to 871 feet has much				+				
		laceous interstitial				+				
		w scattered specks pyr	ite			1				
	in places an	d traces pyrrhotite.				<u>+</u> +				
943.5-956.0		n, medium grained arko	se.			+				
	Considerable	alteration in places,								

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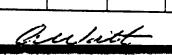
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	DIAMOND	DRILL	RECORD
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SHEET NILLADOO	PROPERTY Lion Nickel Mines of Can Nutton Twp., Ontario	Twb+1 Duranto							
SHEET NUMBER.			_TO		START	ED			
LATITUDE	DATUM				COMPL	ETED			
DEPARTURE	BEARING				ULTIM	ATE DEPTH			
ELEVATION	DIP					SED DEPTH			
DEPTH FEET	FOPMATION	SAMPLE NO.	FROM	10	WIDTH	ASSAY VALUES			
	consisting of few small patches of				1				
	light greenish chlorite, and pink								
	feldspathization. Section 952 to 954								
	is most heavily foldsparized and show	s							
	many 1/16" pits lined with vuggy, cle								
	quartz crystals. Numerous small (1/1								
	- 3/15") quartz and felsite clasts.								
	Traces disseminated pyrite throughout	•							
956.0-1007.0	Gray, hard, dense, medium to fine				1				
	grained arkose. Scattered, 1/16" to								
	3/16" grains quartz, feldspar and ches	rt.			1				
	Sparse pyrite along few fractures and								
	in small blebs in places. Few traces								
	pink feldspathization along occasional	L			**************************************				
	fracture. Traces of very indistinct								
	bedding? at 995 feet show core angle								
·····	of459 - 480.								
007.0-1074.0	Continuation of above, hard, dense,								
	gray arkose. Finer grained and only								
	sparse grains & clasts. No bedding								
	and vory little argillaceous material.								



SHEET NUMBER	PROPERTY Lion Nickel Mines of C. Hutton Twp., Ontario 8 SECTION FROM					
	DATUM					ED
DEPARTURE	BEARING				ULTIM	ATE DEPTH
ELEVATION	DIP				PROPO	SED DEPTH
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES
	Considerable, knife edge fracturing.					
<b></b>	Fractures usually filled with black					
	mineral, occasionally carbonate.					
	Some sections are pinkish orange due					
	to feldsparization. Radio-activity					
	is as much as twice background in				·	
<u> </u>	places.					
1074.0-1094.0	Pinkish, fine grained highly fracture	đ				
<u></u>	arkose. Fractures filled with black					
	fine grained mineral and occasionally			_		
	carbonate. Considerable foldsparizat	ion				
	throughout. Very little pyrite. Core					
	highly broken up and considerable cor	9				
	ground. Following shows percentage					
	of core lost from 1074'-1076' 25%					
	core ground.					
	1076'-1081' 60% core ground		1			
	1081'-1086' 40% core ground					
	1086'-1028' 303 core ground					
	1028'-1093' 5% core ground					
	1093'-1098' 403 core ground					

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	PROPERTY Lion Nickel Mines of Car	ada		HO	LE NO	J-2	
SHEET NUMBER.						RTED	
LATITUDE	DATUM		• •••• •••••••••••••••••••••••••••••••		COM	PLETED	
DEPARTURE	BEARING				ULT	IMATE DEPTH	
ELEVATION	D1P				PRO	POSED DEPTH	
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY	VALUES
	3 Gray siliceous breccia resembling micro conglomerate. Rock is composed of high percentage of quartz and cher fragments, mostly very angular - few rounded. Matrix is very fine grained gray siliceous material. Few tiny pits in core. Radioactivity is twice background. The same as most of previous section. Fault Zone. End of Mississagi Highly fractured dark pinkish fine grained arkose. Traces chlorite and rare carbonate in some fractures. Core is badly broken up and much of	t					
	the core has been lost by grinding as shown below from 1093'-1098' 40% core ground 1098'-1101' 30% " " 1101'-1104' 50% " "						
	<u>1104'-1107' 30% " "</u> 1107'-1112' 10% " "						

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PROPERTY Lion Nickel Mines of C	HOLE NO							
					•			
DATUM				COMPLETED				
BEARING				וט		DEPTH.		
DIP								
FORMATION	SAMPLE NO.	FROM	10	WIDTH		ASSAY VALUES		
fine grained arkose. Occasional small white quartz and felsite clast from 1/8" to 4". Some chloritic alteration at 1145'. Traces pinkish alteration in few fractures and bleb Black, medium grained argillaccous arkosite, with occasional white quartz pebble 4" to 1" and gray gran pebbles 1" to 3". One large gray granite boulder from 1237 to 1241.1 Slight chloritization and traces shear at 1235. Core angle of shear is 48°. Slight pyrite and pyrrhotit in few blebs and streaks. Light gray to white quartzite with few 4" longitudinal veinlets of clear quartz. Very little mineral-	ic s. ite	1241.2	1245.2					
	·····							
Very little mineralization.								
	10 SECTION FROM	10 SECTION FROM   DATUM DATUM   BEARING DIP   formation Dark gray   fine grained arkose. Occasional Sample NO.   Start of Bruce Formation. Dark gray fine grained arkose. Occasional   small white quartz and felsite clastic from 1/8" to ½". Some chloritic   alteration at 1145'. Traces pinkish alteration in few fractures and blebs.   Black, medium grained argillaccous arkosite, with occasional white   quartz pebble ½" to 1" and gray grarite pebbles 1" to 3". One large gray   granite boulder from 1237 to 1241.1 Slight chloritization and traces   shear at 1235. Core angle of shear is 48°. Slight pyrite and pyrrhotite   in few blobs and streaks. Light gray to white quartzite with   few ¼" longitudinal veinlets of J-7   clear quartz. Very little mineral- ization. Resembles vein quartz.	10 SECTION FROM	10 SECTION FROM TO   DATUM DATUM BEARING   DIP DIP TO   Start of Bruce Formation. Dark gray Itom Itom   Start of Bruce Information and gray gravite Itom Itom   Black, medium grained argillaccous Itom Itom   Black, medium grained argillaccous Itom Itom   Black, medium grained argillaccous Itom Itom   granite boulder from 1237 to 1241.1 Itom Itom   Slight chloritiz	10 SECTION FROM	10 SECTION FROM TO STARTED   DATUM COMPLETED   BEARING ULTIMATE I   DIP PROPOSED I   fine grained arkose. Occasional Image: Some chloritic   small white quartz and felsite clastic Image: Some chloritic   alteration at 1145'. Traces pinkish Image: Some chloritic   alteration in few fractures and blebs. Image: Some chloritic   Dlack, medium grained argillaccous Image: Some chloritic   arkosite, with occasional white Image: Some chloritic   quartz pebble ½" to 1" and gray grarite Image: Some chloritic   pobbles 1" to 3". One large gray Image: Some chloritic   shear at 1235. Core angle of shear Image: Some chloritic   in few blobs and streaks. Image: Some chloritic   Light gray to white quartzite with Image: Some chloritic   in few blobs and streaks. Image: Some chloritic   Light gray to white quartzite with Image: Some chloritic   in few blobs and streaks. Image: Some chloritic   Light gray to white quartzite with Image: Some chloritic   in few blobs and streaks. Image: Some chloritic   Ligation. Resembles vein quartz. <t< td=""><td>DATUM</td></t<>	DATUM	

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	PROPERTY Lion Nickel_Mines_of_Ca	HOLE NOJ_2										
SHEET NUMBER_	Hutton Twp., Ontario 11SECTION FROM		_TO		START	'ED						
LATITUDE	DATUM				COMPLETED							
DEPARTURE	BEARING	BEARING				INTE DEPTH						
ELEVATION	DIP	D1P			PROPOSED DEPTH							
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	ŤO	WIDTH	ASSAY VALUES						
1245.3-1248.0	Bluish gray, fine grained quartzite											
	with some argillaceous material. Few											
	small blebs pyrite. Traces bedding at	4										
	500m to 600											
1248.0-1253.8	Bluish gray to white, fine grained	J-8	1248.0	1251.	2							
	quartzite with few tiny clear quartz	J-9	1251.	1253.	8							
	veinlets in fractures. Sparse											
	pyrite in places.											
1253.8-1281.6	Dark gray to black argillaceous											
	arkosite. Scattered grains and chips											
	bluich quartz and gray granite.											
	Traces bedding at 600											
	Gravish white, fine grained quartzite											
	Resendles vein guartz. No mineral-											
	ization.											
1299.5-1300	Similar to 1253.8-1281.6											
1300.0	End of hole											
·												
		<b>_</b>										
<u></u>												

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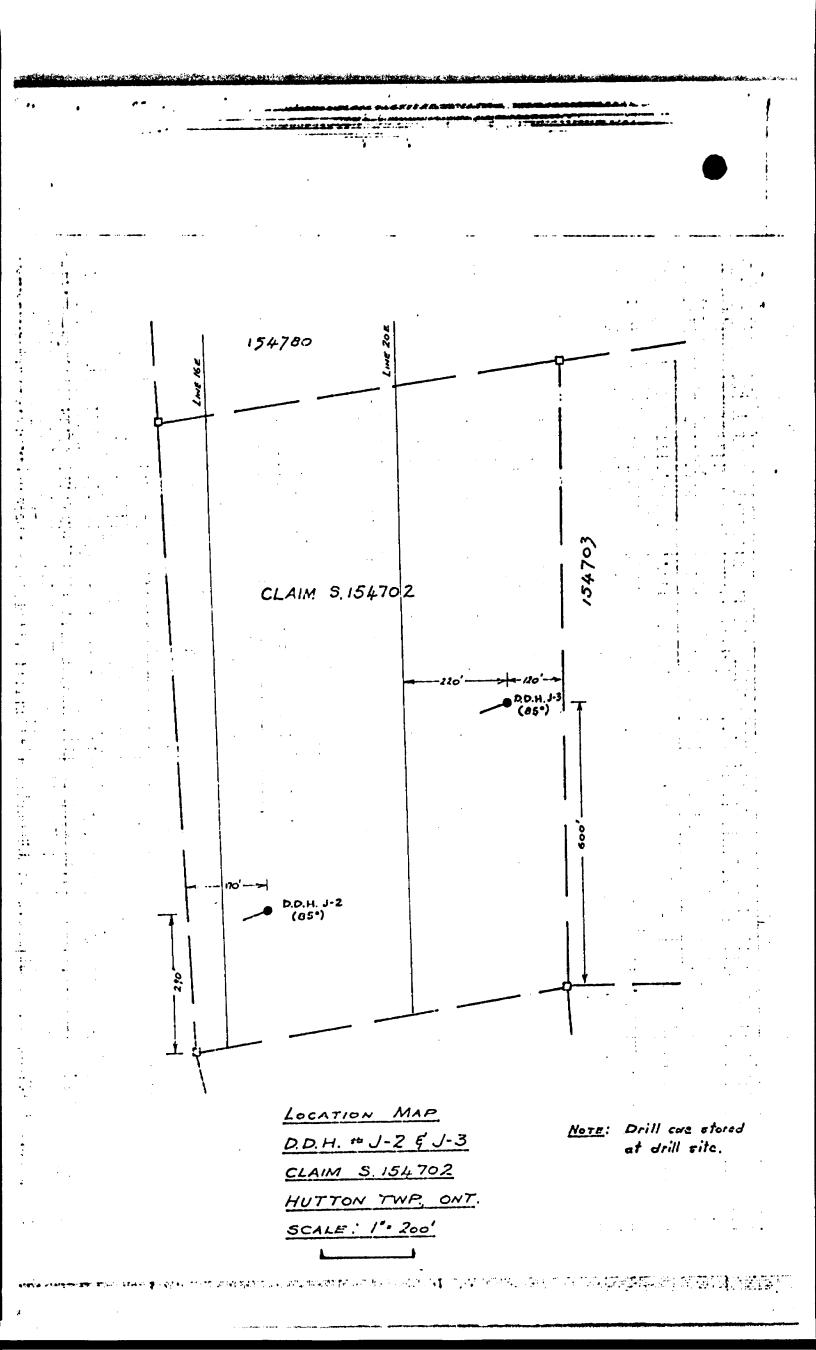
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	PROPERTY	Lion Nickel Min	es of C	nada		_ HOL	E NO;	-2	
SHEET NUMBER_		•	TO						
LATITUDE		DATUM		<b></b>			COMP	LETED	
DEPARTURE		BEARIN	G	alaunaa oo saaraa ka ka ka a aalaa aha		•••••	ULTI	MATE DEPTH_	
ELEVATION		DIP					PROP	OSED DEPTH_	
DEPTH FEET	T	FORMATION		SAMPLE NO.	FROM	τŎ	WIDTH	ASSAY V	ALUES
	DIP TESTS								
		Etch Angle	730	_					
		Corrected Angla	680		+				
	8 1000 ft	Etch Angle	680						
	<u> </u>	Corrected Angle	620						
	Casing left	in hole until DD	- n J-3						
	is complete								
					1		<u> </u>		
					+				
<del></del>					-		1		
<u> </u>									
		<u> </u>							
<u></u>	<u></u>		. <u></u>	1			1 1		

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•	PROPERTYLion N	ickel Mines of Car	nada	<b>.</b>	- HO	LE NO	<u>J-3</u>
SHEET NUMBER	<u>1</u>	Twp., Ontario SECTION FROM		_TO	<del></del>	START	EDOctober_6, 1969
LATITUDE 25	40 S	DATUM_CLAIM_					ETED 27/69
DEPARTURE 22	220E	BEARING 25c	•				ATE DEPTH1667!
ELEVATION AF	prox. 270' above riv						SED DEPTH
DEPTH FEET	FORMAT	ION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES
0-5.0	Casing						
5.0-342.5	Bruce Formation. Da						
	erate. Medium grain	ed, dark greywacke					
	matrix with numerou	s gray granite					
*******	pebbles and boulder	s ranging from k"					
	to 15"feet in diame						
	centage white quarts	z pebbles, and			· · · · · · · · · · · · · · · · · · ·		
	few chips of chert.	-			····-		
	No distinct bedding.	Traces pyrite					
	in places.						
342.5-345.0	Fine grained, green	lsh_argillite		-			
<del></del>	Bedding is contorted	1. Core angle of					
	beds is 30°.						
345.0-546.0	Similar to 5.0'-342.						
	bedding at following				- 0		
	at 378'-379' - Cor	-			<u></u>		
	at 469' - "	" 230					
	at 544' - "						
** *** ***	White arkose beds at					<u> </u>	
	at 404.6 to 407.0'.						
	quartz stringer with	5% pyrite at					

480.3'

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٠		DIAMOND DR	ILL	REC	OR	D	n trificial de la seconda d Nota de la seconda de la sec
	PROPERTY	Lion Nickel Mines of Ca	nada J	Ltd.	НО	LE NO. J-	•3
SHEET NUMBER_		the has the Automia					:D
LATITUDE		DATUM				COMPL	ETED
DEPARTURE		BEARING				ULTIM	ATE DEPTH
ELEVATION		DIP				PROPO	SED DEPTH
DEPTH FEET		FORMATION	SAMPLE NO.		10	WIDTH	ASSAY VALUES
	Light pyrite throughout.	in places and traces py.					
546.0-704.0		reywacke. Fine grained					
		rgillaceous sections, and					
		onal small clasts.				·   · · · · · · · · · · · · · · · · · ·	
		gray granite and white				_	
	and the second sec	ry few traces indistinct		<u> </u>			
<u>ene a sin a</u>		races biotite in places.					
	Very light	pyrite in few soctions.					
704.0-1122.2		n of Bruce formation.					
	Dark gray t	o black graywacke. Simila	r				
	to previous	section. Scattored					
	clasts of g	ray granite and lesser					
		z and chert. Clasts vary					
	in size from	m 4" to 4", with occasion	al				
<u></u>	boulder of	several feet. Few traces					
	of bedding	show core angle of 20°.					
	Beds of lig	ht greenish gray argillit	e				
		. to 820 ft. and from					
		o 990 ft. show core angle					
	of 30°. Cl	asts become less numerous after 1000 ft.					

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	PROPERTY Lion Nickel Mines of Ca Hutton Twp., Ontario	HOLE NO									
SHEET NUMBER_	Autton Twp., Ontario 	•	_TO		ST	ARTED_					
LATITUDE	DATUM	DATUM					COMPLETED				
DEPARTURE	BEARING	BEARING					ULTIMATE DEPTH				
ELEVATION	DIP	PROPOSED DEPTH									
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	A 10	WIDTH		ASSAY VALUES				
	Few pyrite cubes in places. Core								<u> </u>		
	badly shattered from 1013 ft. to			1				<u> </u>			
	1018. Crushing and shattered appears	\$		1				h	†		
	to be from blocking rather than	•		1	1				+		
	fractured ground.			1		· ·		<del></del>	<u>+</u>		
1122.2-1355.5	Start of Mississagi formation.	1					<b></b>		1		
	Interbedded light gray to greyish	1		1	1						
	white arkose, with dark gray to gray								<u> </u>		
	black argillaceous arkose in beds				1				<u> </u>		
	from 'a" to 10 feet thick. Scattored						i		1		
	thin beds of fine grained, light										
	greenish gray argillite. Scattered										
	clasts throughout. Clasts are tiny								<u> </u>		
	chips and grains of white guartz and										
	felsite 3/8" to k". No pebbles.										
	Slight pinkish feldsparization from										
	1137 ft. to 1141 ft. Very light										
	pyrite in tiny blebs and dissominated										
	in places. Fairly distinct core										
	angle of bedding of thin argillite										
	beds are as follows:										

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•	PROPERTY	Lion Nickel Mines of C Hutton Twp., Ontario	anada		HOLE N			
'SHEET NUMBER_		SECTION FROM		ТО		STARTED_		
LATITUDE		DATUM				COMPLETE	D	
DEPARTURE		BEARING			an a	ULTIMATE	DEPTH	
ELEVATION		DIP				PROPOSED	DEPTH	
DEPTH FEET		FORMATION	SAMPLE NO.	FROM	TO WI	ртн	ASSAY VALUES	
	@ 1150 ft.	Core Angle 340 to 450						Ι
	@ 1222 ft.							Τ
	● 1238 ft.	" * 45 <sup>0</sup>	1	1				1
	0 1252 ft.	* * <u>35</u> 0		1				1-
	@ 1271 ft.	* * 350						╋╍
	e 1274 ft.	- 400						1
	€ 1275 ft.						•	
•	@ 1299 ft.	400						<b> </b>
	Thin argill	ite bed of 1222 ft. is						
	displaced 3	/4" by minor fault.						T
	3/8" white	quarts stringer at 50°						
	to core at							
1355.5-1360.0	Continuatio	n of Mississagi						1
	Light gray,	fine grained arkose.						Γ
	Very few ti	ny felsite and quarts						Γ
	clasts. Tr	aces disseminated py. and	8					
	occasional	small bleb.						
1360.0-1373.0	Dark gray,	medium to fine grained						
		y few tiny clasts. No						
		ible. Traces pyrite						Ť
				1				<b>†</b>

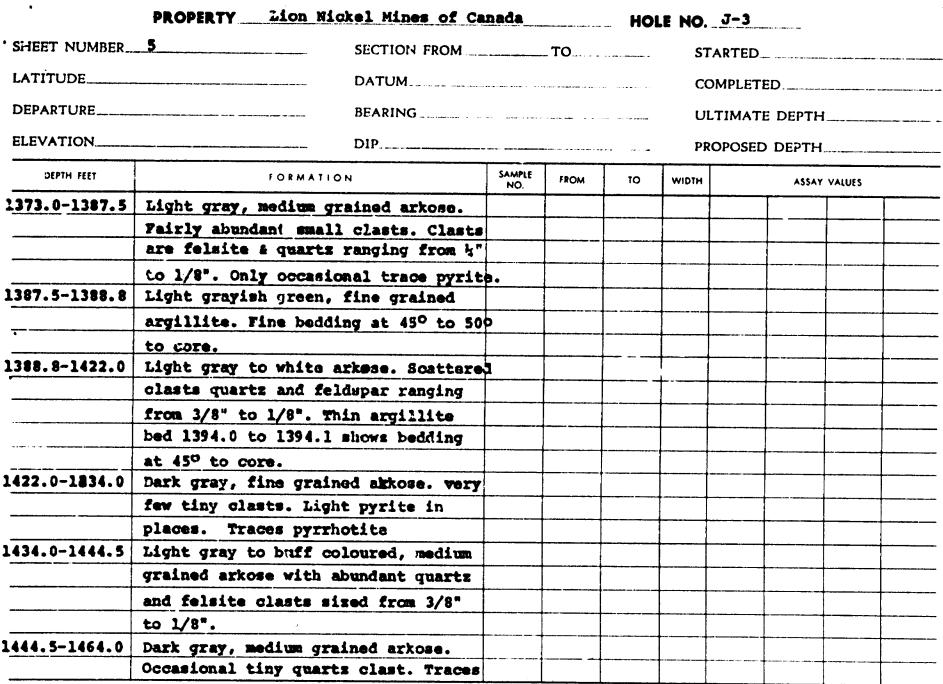
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- 1997 - ● 	DIAMOND DR	ILL	REC	COR	D		
•	PROPERTY Lion Nickel Mines of Ca	nada	nenerine scante ander scare	HO	LE NOJ-	3	١
· SHEET NUMBER_	6 SECTION FROM		TO		STARTI	ED	
LATITUDE	DATUM					ETED	
DEPARTURE	BEARING					ATE DEPTH	
ELEVATION	D1P					SED DEPTH	
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	to	WIDTH	ASSAY VALUES	
1464.0-1466.5	pyrite and pyrhotite. Light gray arkose. Very few tiny						· · · · · · · · · · · · · · · · · · ·
	quartz clasts. Traces pyrite.						
1466.5-1471.0	Dark gray, fine grained arkose. Very few glasts.						
1471.0-1476.0					++		
-	Many small guarts and felsite clasts sized from h" downward .	····					
1476.0-1481.0	Dark gray arkose. Very few tiny						
	clasts.				ļ		
1481.0-1568.0	Light gray to buff coloured arkose.						
	Many small quarts and feldspar clast sized 3/8" to 1/8". Slight pinkish	5					
	colour 1488' to 1490'				+		
1568.0-1585.4	Dark gray to black, medium grained			••••••	++		
	arkoss. Very few tiny (1/8") quartz				1		
	clasts. Traces of bedding at 500						
	Slight pyrite in places.						
1585.4-1586.0	Fine grained, light greenish						
	argillite. Finely bedded at 50° to core.			• • • • • • • • • • • •			

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. '	DIAMOND DE	RILL	REC	COR	D			
' SHEET NUMBER.	PROPERTYLion_Nickel_Mines_of_Canada HOLE NOJ-3   Hutton Twp., Ontario TO   SECTION FROMTO STARTED							
	DATUM							
	BEARING ULTIMATE DEPTH							
ELEVATION	DIP							
DEPTH FEET	FORMATION	SAMPLE NO.	FROM	το	WIDTH	ASSAY VAL	IES	
1586.0-1594.1	Light gray to white medium grained arkoso. Vory few tiny clasts.	-						
1594.1-1596.4	Fine grained, dark gray to black argillite. Finely bedded at 50° to				+			
1596 4-1608 0	550 to core. Light gray medium grained arkose.							
	Few quarts and feldspar clasts sized 4" to 1/8".							
1608.0=1643.0	Dark gray, medium grained arkoss. Very few tiny clasts.							
1643.0-1655.5	Light gray to pinkish buff coloured arkose. Few tiny (1/8") quarts and							
	felsite clasts. Several open vuggy fractures - 1/8" wide, two 1/16"							
	carbonate filled fractures.							
1655.5-1667.0	Dark gray to black, medium grained arkose. Very few tiny clasts. 4*			· · · · · · · · · · · · · · · · · · ·				
	white quarts stringers at 1663.5 at 60° to core.							
1667.0	End of hole.							

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•	PROPERTY Lion Nickel Mines of Canada Hutton Twp., Ontario SECTION FROM TO										
SHEET NUMBER_	SECTION	TO STARTED									
LATITUDE	DATUM		COMPLETED								
DEPARTURE	BEARING ULTIMATE DEP						ATE DEPTH				
ELEVATION	DIP	PROPOSED DEPTH									
DEPTH FEET	FORMATION	<u></u>	SAMPLE NO.	FR.DM	10	WIDTH	ASSAY VALUES				
	Dip Tests for DDR No. J-3										
	8 500 ft. Etch angle	7750									
	Corrected Angle	730		•							
	8 1000 ft Etch angle	650	<u></u>								
	Corrected Angle	5840									
	@ 1500 ft Etch angle	480									
	Corrected Angle	410			·						
	The following sections show										
	radioactivity. (Approximatel	<u></u>									
	B.G. on Geiger counter) and	have bec	<b></b>								
	split for U30g assay)			<b>+</b>							
	Width										
	1568.0' - 1571.0' 3.0'		J12			-					
	<b>1588.0' - 1591.0' 3.0'</b>		J13			+					
	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$		J14 J15			•					
	1594.1' - 1597.1' 3.0'		1010								
				+		•					
			+	+							
				1							
			.l	1							

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