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**Diamond Drilling** 

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Township of LACKNER

Report Nº: 18

Work performed by: DOMINION GULF COMPANY

Claim Nº	Hole Nº	Footage	Date	Note
S 59153	118-54-1	6701	Oct/54	
	118-54-2	5931	Oct/54	

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Notes:

73585 1354 7350 60030 60059 80019 80018 80017 80028 80027 80026 8069 8069 8069 80691 806921 40.97 59255 59254 58586 58589 60502 56501 89045 34704 59258 59256 58587 **50587** 60056 60057 80020 80021 80022 80029 800 80 80021 BOUTH- 80695 80696 , 80193 Pin 89643 60061 60060 59260 59257 59252 59253 S 60066 60067 60062 80041 80042 80043 80032 80033 80034 80199 80100 80191 80596 3458 59261 60069 60073 60068 60063 + 80046 80045 80044 80027 80026 80035 80704 80703 80702 80701 5 15 59267 59262 60070 60072 60071 60064 80047 80048 80049 80038 80039 80049 574710 574708 180705 80704 80707 80711 15 15 15 60075 60076 60074 314707 A1709 74706 14711 94717 81236 8/23 60968 93 8070 80209 80708 80712 80995 80997 80999 24713 81237 84254 24705 s 80716 BOTIS 80714 80713 54 54 54 59 58 59157 609 60 609 69 180994 80996 80998 87000 80717 480718 80719 80720 1464 81240 81245 81036 81034 81035 81000 59.53 59:55 60976 (6097) 81040 81039 81038 8 81037 4 - 592-4 81241 81246 3469 59 62 59 69 50 20 69171 60978 34700 34698 34692 34692 34691 34690 181242 81247 81041 810421 3462 0691 60972 60979 61878 15613A 1693 . 1414 81243 81248 24701 tabeca Eteba Jages 105 Mar. 8 8 8 81249 81244 81258 81259 64961 60974 60976 60975 81407 81262 81261 81260 and the states 609 88 1604 631 6098 160483 60981

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#### DOMINION GULF COMPANY

Laokner township

Several days were spent by the writer on the Multi-Minerals property in McNaught township in October, 1954. A brief visit was made on the morning of October 15th to the Dominion Gulf Camp on the west shore of Lackner Lake.

#### PROPERTY AND HISTORY

The original group, consisting of 30 claims in the centre of the SW quarter of Lackner township, was staked by the Dominion Gulf Co. in the Fall of 1951. The discovery of radioactive magnetite-apatite deposits on the Nemegos Uranium property (now Multi-Minerals) in the adjoining township of McNaught aroused interest in the area. The Dominion Gulf claims were staked to cover magnetic and radioactive anomalies indicated by airborne magnetometer and scintillometer surveys. Geological and ground magnetometer surveys were made during the Summer of 1952. Reports by C. G. MacIntosh and J. H. Ratoliffe respectively, covering these operations, were submitted for assessment work credit and copies are available for reference in our Open Files. The original 30 claims were numbered 3-59153 to S-59182 inclusive.

Twenty-two claims were allowed to revert to the Crown by the end of 1953. The Company's present holdings consist of eight claims in a block which was the west central portion of the original group. The claim numbers are as follows:

#### 8-59153-54-55-58-61-62-69-72

#### ACCESS

The Dominion Gulf Co's camp is located in a cabin on the west side of Lackner Lake. It is possible to drive by car from Nemegos, a station on the main line of the C.P.R. east and north for seven miles to the Multi-Minerals camp in McNaught township. Six miles from Nemegos a bush road branches to the northeast and follows the west shore of Lackner Lake

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where it passes the Dominion Gulf camp about 12 miles from the fork. It is necessary to cross the lake by boat or cance and follow a trail east for about a mile to reach the claims. Another old road which was cleaned out to take in a diamond drill, passes to the south of Lackner Lake, and crosses the south claims of the group.

#### GEOLOGY

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The geological map accompanying MacIntosh's report shows that in the area covered by the original group of 30 claims exposures of rock are very rare. The eight claims retained by the Company enclose the outstanding topographic feature of the area, a circular hill which rises from three to four hundred feet above the surrounding terrain. Outcrops of several varieties of syenite which occur along the eastern brow of the hill, and a few small scattered outcrops of gabbro and granite on the northeast claim of the original group, were the only rock exposures found.

MacIntosh identified four phases in the symplet, which are described as follows:

(a) Coarse grained, pink, friable syenite. This phase is composed of greyish pink orthoclase feldspar (70%) and dark green hornblende. A little biotite is associated with the hornblende. It is uniform in composition and texture.

(b) Black, fine grained, phosphatic syenite. It is composed of orthoclase (40%) and hornblende. Biotite, apatite and magnetite are minor constituents. Small stringers and patches of lighter coloured symplet intrude this formation. They are probably related to type (a).

(c) Dark grey, medium grained gneissic symplete. It is composed of orthoclase (50%) and hornblende. The texture is partly gneissic.

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(d) Light grey medium to fine grained gneissic syenite. It is composed of feldspar (80%) and fine grains of hornblende. Magnetite is a minor constituent. It has a "salt and pepper" gneissic texture.

The black phosphatic symite has magnetite and apatite as primary constituents, and contains small magnetite-apatite deposits. It is also cut by small irregular stringers of titaniferous magnetite. Apatite occurs in small seams and in joint planes.

The magnetometer survey, as would be expected, indicated high anomalies coinciding with the brow of the hill, but elsewhere on the claims the magnetic levels were relatively low and uniform, occuring as concentric zones of decreasing intensity outward from the hill. In his report, Ratcliffe postulates that these zoned magnetic horizons outline the underlying geological formations. He offers the following sequence of events as a possible geological history of the area:

"It is believed that a circular acid intrusive, about three miles in diameter, intruded a lava series. Contact metamorphic effects, assimilation, magnatic differentiation, and perhaps recurrent intrusion caused an apparent banding around the intrusive. The outside rim consisted of a granitic rock, while the interior was composed of symmitic material. On cooling, tension fractures formed in the interior symmitic material, and additional fractures caused by exterior forces opened passageways to the deep-seated magna. A titanium-rich magnetite, differentiated from the magna, filled the openings. A second quiescent period, followed by further fracturing and differentiation permitted the magnetite-apatite mineralisation to become emplaced. From the aeromagnetic data the Dominion Gulf Company claims are located on the southeastern quadrant of the intrusive mass."

Diamond drilling of the anomalous areas on the hill for possible ore bodies of magnetite-apatite was recommended by Ratcliffein his report of

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December 1st, 1952, but no further work was done on the property until the discovery of columbium associated with the magnetite-apatite deposits on the Multi-Minerals property in McNaught township again focussed attention on the area in 1954. At the time of my visit on October 16th, 1954, the first hole of a proposed diamond drilling programme had been started, but was still in overburden. It was located near the centre of claim S-59153 (at 6400N and 84400E) and was being drilled due north with a dip of  $45^{\circ}$ .

Hole No. 1 (118-54-1) was drilled to a depth of 670 feet and stopped on October 25th. Hole No. 2 (118-54-2) was collared at 9400N, 78400E, and drilled to the east with a dip of  $51^{\circ}$  for 593 feet. Logs and location sketches for these two holes were submitted for assessment work credit in November, 1954, and copies are available for reference in our Open Files. A core length of over 200 feet (399.5 - 600.7) of granular magnetiteapatite with occ. disseminated sulphides is recorded in Hole No. 1. The cores have been brought in and stored in the Dominion Gulf Co's warehouse at Larder Lake, where they will be examined by the writer.

W. S. Savage, Resident Geologist.

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June 3rd, 1955.

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	DIAMOND DRILI	REC	ÓRI	D s	FCTION FRC	ж. <u>+</u>	τ <mark>ο 202</mark> -	0
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LOCATION:	6 + 00N	STARTED	Oct.	15/54				
	64 + 00% CTARX 8-59153	COMPLETED	Oct.	25/54	· · · · · · · · · · · · · · · · · · ·		••••••••	
DATUM		ULTIMATE D	EPTH.	670		· · · · · · · · · · · · · · · · · · ·		
DIRECTION AT ST	BEARING North (Line 78 + 003 as north) ART: Dif Collar 459 @ 335' - 458 @ 670' - 46'	PROPOSED E	DEPTH	650	م من ما ما ما ما ما من	· · · · · · · · · · · · · · · · · · ·		****
DEPSH FEET	FORMATION	SAM?	LE NO	WIDTH OF SAMPLE	GOLD \$	SCUDGE GOLD \$		
0 - 70	Casing							
70 - 214.3	Very fine grained to dense, grey black, hard, mas	ssive,				يور و ور ا		
	slight spotty magnetism. Irregular blotches of		- 1 - 1 - <b>1</b> -	• · · • • • • •				
••••••••••••••••••••••••••••••••••••••	feldspar feldspathoid materials Not radioactive	• ••• <sup>1</sup> ••••						~
• ••••••••••••••••••••••••••••••••••••	Soattered red alt'n 71.4-71.6 - Medium - grained	bluish		<b>.</b>				
	acidic stringer.							
•••••••••••	76.0 - 76.2 - Fine-grained, grey, nepheline pheno	orysta	i					
••••	107.9-110 Lost core				-	•*		
•••••	111.1 - Becoming fine-grained.		-				1	
••••••••••••••••••••••••••••••••••••••	112.2-114.1 Lost core		1		1			
	117.7 - 118.8 - medium - grained pink sympite			•• •• •				
••••••	121.5 - 126.1 - few magnetite inclusions				4			
	138.1 - 139.2 - Magnetite inclusion	Ì			1		1	:
e."	169.2 - 170.0 - Lost core		,	<b>.</b>			<b>}</b>	
	176.7 - 178.0 - Lost core				· •		х 1 х х	
	186.3 - 188.0 - Lost core			· · · .		1	• · · · · · · ·	• •
• •·•	188.0 - 189.1 - Carbonate stringers 45% core.				4			
•	190.0 - 191.4 - Lost core							
	195.0 - 202.0 - Lost core		Ì					
	ter a second de la companya de la co			•• .	<u>.</u>			
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NORTHERN MINER PRESS LIMITED, TORONTO BUICK FORM NU BOL SUV C 44

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#### HOLE NUMBER 118-54-1 SHEET NUMBER 2 SECTION FROM 202.0 TO 338.5

### DIAMOND DRILL RECORD

LOCATION:	· · · · · · · · · · · · · · · · · · ·	STARIE	ED					
ELEVATION OF CO	LLAR	COMPL	ETED .	· · · · · · · · · · ·	• •		•••••	
DATUM	and the second	ULTIMA	ATE DEPTH	 				/
DIRECTION AT ST	DEASING AKT DEP	PROPO	SED DEPTH					
DEP14 . EF1	JORMATION .		SAMPLE NO	WIDTH OF SAMPLE	50LD \$	siyuqr Goin S		
	204.0 - Becoming very fine-grained			an a				
214.3	Sharp contact at 30° to case.			·····	-			
214.3 - 304.5	Light grey, medium grained nepheline syenite. Mas	sive						
<b>.</b>	hard, ferromagnesian specks. Not radioactive.	، ، رخيس	1		a <b>ra</b> and			
	227.0 - Dk. grey, inclusion, nepheline phenocryst	5						
	263.5 - 285.5 - Darker, very slightly magnetic			1   4				
<b></b>	293.8 - 294.9 - Dense, dark grey, cut by white an	đ			• · · · • •			-
· · · · · · · · · · · ·	reddish stringer, with pyrite nepheline phenocrys	ts					   +-	
	40 c/s							4
e. Provide a second contract of the second contract of the second contract of the second contract of the second co	303.7 - 304.5 - Reddish alteration			1 . 4				
304.5 - 399.5	Fine-grained, dark grey to black, massive mafic h	ybrid					1	
و المعسم و مسال	weakly magnetic, occassional marrow syenite strin	gers						
	and blotchy aggregations. Occassional thin strin of sulphides.	gør -				-		
▲	325.0 - 330.1 - Darker with red brown feldspars.							
	338.5 - 1/2" Syenite stringer bordered by red alt	eratio						
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<b></b>		، مر .						
						e square to		
	A LIMITED TORONS AND PERMINS BOUND AND A		1	L				
A CONTRACTOR MINER PILES	Ganadian Longyear-			W. Bai	pboth.			
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PROPERTY\_\_\_\_\_

HOLE NUMBER 118 - 54 - 1	
SHEET NUMBER 3	1999) 1990 - 1999 - 1999
SECTION FROM 338.5 TO.	441.5

## DIAMOND DRILL RECORD

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LOCATION:		<b>STA</b> RTE	D	44.00 <b></b>			.* • • • • • • • • •	
ELEVATION OF CO	DLLAR	COMPLE	E <b>ted</b>		•••••	• •• •• •• •• •• •• ••	••••	
DATUM.		ULTIMA	TE DEPTH	· · · · · · · · · · · · · · · · · · ·	*****	•••••	••••••	
DIRECTION AT ST	EFARING LICENE L	PROPOS	ED DEPTH	ام آراد این این این این این ا بین میشد میشر میشیم			· · · · · · · · · · · · · · · · · · ·	
DEPTH FEET	FORMATION		SAMPLE NO	WIDTH OF SAMPLE	GOLD \$	stungt Golos		
· · · · · · · · · · · · · · · · · · ·	356.5 - 357.1 - Disseminated sulfides				بعد بود راستاند	· · · · · · · · · · · · · · · · · · ·	, , ,	
un anteres ance an el cara ance a secolo de la	370.0 - 371.5 - Disseminated sulfides		· • • • ·	ar casa araa soo	. <u>-</u> 1.	· · · · · · · · · · · ·		
ր է ։ Հայու	380.0 - 390.5 - Increase in magnetite			• • • •	n de entre a compañía a		معتم معاصر منافر رزم	
	381.0 - 381.5 - Apatite rich	ا بايانية						
399.5-600.7	Granular magnetite spatite, with occassional dissem	inste	3					
	Sulfides.							1
ana a a a a a a a a a a a a a a a a a a	400.5 - 402.0 - Apatite rich			· · · · · ·	•			
, so da compositione de la compositione de compositione de la compositione de la composi	402.0 - 404.2 - Fine-grained magnetite little apati	te	н. — то стал			5.1		
ь. Р. Баланалана и Бари г. – – Ф.	404.2 - 410.0 - Apatite rich zone	++ - 1	ار شود	-	- 			
and and a sub-	410.0 - 413.2 - Magnetite rich grindings	-	-					È.
	413.2 - 415.1 - Apatite rich					· · · · ·		
· · · · · · · · · · · · · · · · · · ·	415.1 - 420.6 - Fine-grained black hybrid inclusion	with						
	disseminated sulfides.	2						
	420.6 - 425.5 - Apatite rich			 				
	425.5 - 426.4 - Magnetite rich grindings			•	ļ			1
	428.5 - 429.0 - Black, fine-grained hybrid inclusio	กธ			:	1		ļ
and a second	433-0 = 433.5 = Magnetite vain						}	
	440.5 - 441.5 - Pink Brown svanite inclusion or vet	n .	•					
antanan ing ing ing ing ing ing ing ing ing in	TILLIC	•••••• •						
		-	· •••• ·				· · · ·	
and a second contract the second s				• • •		······································	1	
			1		<b>.</b>			

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HOLE NUMBER	118-54-1	•• •••
SHEET NUMBER	<u>~4```</u>	
SECTION FROM	441-5	10 578.1

## DIAMOND DRILL RECORD

LOCATION: DEP.	COLLAR	STARTE COMPLI	ETED		· · · · · · · · · · · · · · · · · · ·	••••••••••••••••••••••••••••••••••••••	· · · · · · · · · · · · ·	
DATUM		ULTIMA	TE DEPTH	• •	<i>,.</i>			
DIRECTION AT S	BEARING START: DIP	PROPO	SED DEPTH		۰			·
DEPTH FEFT	FORMATION		SAT PLE NO	WIDTH OF SAMPLE	GOLD B	ELUDGE GOLD S		
ал массан с	448.5 - 449.5 - Pink brown sympite inclusion	 			· · ·		· · · · ·	
	470.9 - 472.5 - Dark, fine-grained inclusion 476.0 - 476.8 - Fine-grained inclusion							
· · · · · ·	477.8 - 479.0 - Magnetite vein coarse-grained							
	486.5 - 487.0 - Magnetite vein.		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
	488.5 - 490.3 - Fine grained dark inclusion with p. syenite stringers	ink						
· · · · · ·	491.0 - Narrow coarse magnetite vein							
	492.2 - 493.3 - Coarse-grained magnetite							
- 	495.3 - Magnetite vein			ر تفکر ا		9. <b></b>		-
	506.0 - 516.0 - Conse-grained magnetite rich section	on		· · · ·				
ng karana ang k	(70-80% magnetite)		• • • • • • • •					
	518.3 - 518.5 - Coarse granular apatite 520.7 - 521.2 - Coarse - grained apatite	· · · · · · · ·						-
	524.7 - 526.3 - Dark inclusion out by apatite syen:	ite .						
	at 525.0 527.5 - 532.0 - Coarse-grained magnetite	، من من من من مال		· · · · ·		and a second s		
	532.7 - 539.0 - Fine-grained dark inclusion buff of	loured					. 1	
	feldspars (?) 573.7 - 575.0 - Lost core	чар, м.,					· · · · · · · · · · · · · · · · · · ·	
	575.7 - 578.1 - Fine-grained apatite rich		and a constant		e			

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HOLE NUMBER 118-54-1 SHEET NUMBER 5 SECTION FROM 578-1 TO 625-9

### DIAMOND DRILL RECORD

LAT.		START	ED	••		-		
ELEVATION OF CO	DLLAR	COMPL	ETED	• • • • • • • • • • • • • • • • • • •				
DATUM.		ULTIM	ATE DEPTH		*****			
DIRECTION AT ST	BEARING DIP	PROPO	SED DEPTH					• • • •
DEPTH FLET	FORMATION		SAMPLE NO	WIDTH OF SAMPLE	GOLD 8	SLUDGE GOUD		
	578,1 - 600.5 - Coarse granular magnetite					- <b></b>		
	592.5 - 593.1 - Narrow syenite stringer							
600,7 - 667.0	Dark hybrid zone with magnetite bands decreasing with	ith						
	depth							
	600.7 - 601,6 - Fine-grained, black, hybrid (?)							
· · · · · · · · · · · · · · · · · · ·	weakly magnetic							
	601.6 - 604.9 - Magnetite rich with disseminated st	ulf <b>i</b> der	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
	603.2-603.4 - Syenite stringer							<b>I</b>
••••••••••••••••••••••••••••••••••••••	604.9 - 606.1 - Fine-grained, dark grey hybrid							1
<b>.</b> .	606.1 - 609.0 - Coarse granular magnetite vein (?)		-		<b>.</b>		4	
	609.0 - 613.0 - Weakly magnetic hybrid, occassional	1			• • • • • •	1		1
•	small disseminated sulfides.			i i				
<b>-</b>	616.8 - 617.4 - Magnetite with sulfides				1			-
	619.7 - 1" - Pink syenite stringer	<b>.</b>	1 	: 			1	1
	620.3 - 622.2 - Weak development of feldspar (?)	. /		-				•
	porphyroblasts.			1		1	• 1	1
• · · ·	625.2 - 625.9 - Fine-grained magnetite.	•* • • • •						1
	••••••					-		.
to construction of the second			- · · · •	··· • ·•· ··•	<b>.</b>	· · · · ·		

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HOLE NUMBER 118-54-1	
SHEET NUMBER 6	
SECTION FROM 625.9	то. 670.0

# DIAMOND DRILL RECORD

LOCATION: LAT		STARTE	ED		•		
DATUM.			TE DEPTH	· · · · · · · · · · · · · · · · · · ·	· • • • • • • • • • • • • • • • • • • •	····· ········· ··· ···	
DIRECTION AT ST	BEARING	PROPO	SED DEPTH			· · · · · · · · · · · ·	·····
DEPTH FEFT	FORMATION		SANPLE NO	WIDTH. TF SAMPLE	GOLD \$	SOLD S	
	626.7 - 627.3 - Lost core						
and a second and a second s	628.1 - 628.3 - Magnetite vein			· ·			
	630.0 - 633.0 - Magnetite rich zone						
	634.8 - 635.6 - Occassional magnetite veins.		· · · · · · · · · · · · · · · · · · ·	a and a constant			r ar i dan i anti
	635.8 - 636.5 - Medium-grained pink grey syenite	• •					
1. 	641.3 - 641.9 - Biotite rock gneiss inclusion	•		·			
a second and a second	641.9 - 643.7 - Medium-grained pink syenite with			and a second			
	magnetite stringer at 642.0						
	647.0 - 648.5 - Magnetite rich, sone sulfides						
	648.5 - 650.9 - Scattered sulfides in hybrid	ta Santa a					
	650.9 - 653.9 - Mottled syenitic hybrid						
	654.4 - 655.4 - Fine-grained magnetite						
	658.0 - Magnetite vein						
	658.0 - 660.4 - Magnetite rich	ر آنی با این <b>محمد</b> م					
	661.5 - 667.0 - Occassional feldspar porphyroblast	Pe la la la					
667.0-670.0	670.0 - End of Hole						
ju na do domenii (nate ♥ 18 ku na ininii - 17 na na ininii)  - 	Pink grey, coarse grained syenite.						
		•					
a caasaa ahaa ahaa ahaa ahaa ahaa ahaa a		a content o content Solo			a na anna an		
en e	n an an ann an an ann an ann an ann an a	······································				len han an a	
in the second second N			19 19 19				
NORTHERN MINTE PPES	4		an a	di manganin minana.	Lauran and a second		ka muuna maanii a maa makama. A
· · · · · · · · · · · · · · · · · · ·	DRULED BY Canadian Longyear.		SIGN	N. Rai	nboth. Robinson.		

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NOLE NUMBER	118-54-2	
SHEET NUMBER	1	
SECTION FROM	0	<b>110.2</b>

#### DIAMOND DRILL RECORD

OCATION: LAT. TER FIVATION OF CO DATUM . ORECTION ACS:	78+00E DELAR Ql. S-59153 ELAR Ql. S-59153 AFG Collar - 51 @ 300 - 52' @ 523' - 52"	STARTED COMPLETED ULTIMATE DEPI TROPOSED DEP	Oct. 27/5 Nov. 2/52 III 5931 TH 6001	54 1		
k Fattar €1	Port MASSON	SANTER	₩ - <sup>2</sup> → (D <sup>3</sup> <sup>3</sup> E) 	63:1-8	<ul> <li>€, ((*), );</li> <li>€, (*), (*)</li> <li>6, (*), (*)</li> </ul>	
0-62	Casing				1	
62-64	Gneissic Syenite, (Boalder?)	1			í.	1
64-91.5	Granular magnetite apatite. Slight R.A.					
	64.6 - 65.0 Lost core	ļ i				!
	73.5 - 75.0 Lost core	и 		₹ I		*
	75.5 - 78.5 coarser grained and richer in apatite	•			1	1 3 8
	90.0 Syenite stringer.	е.	i I			•
91.5-95.4	Granular syenite stringer. red-brown minerals.	) ,	1 )	ŀ		
	92.5 - 93.4 - Inclusion of mafic hybrid	, 1 <sup>1</sup> ,		1		
95.4-110.2	Biotite (30%) nepheline (30-40%) syenite massive		,	,		
	modium-grained.	!				
	98.4-100.0 - Occassional coarser grained light clo	ts.		1		
	100.0 - Syenite stringer.			•		ж
	107.8-108.6 - Nepheline syenite veinlet with grada	tional		İ.		
	boundary.					
	108.6-110.2 - Gradational zone of biotite nephelin	<b>8</b> :			1	
	syenite and coarse-grained nepheline		1			r
	syenite.	ł		1 }		
			i	-	-	
					:	
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### DIAMOND DRILL RECORD

HOLL TO MATE	118-54-2
SHAD NUMBER	2
SECTION FROM	110.2 to 178.0

EN ATION LAT		STARTED	)		-•.			
LEEVATION OF COL	A 1	COMPLET	1E0					
「本下に柄	· · ·	ULTIMAT	<b>王</b> 田臣 4					
OPECHONAL STAPS	転 <sup>2</sup> 本応 : 40 -	5046-14	ED OFF*H					
· • • • • • • • • • •	ο το		• 2. «**1 + **	1 - 2000 - 14 1 - 100 - 152, 216 - 14	e e en e e e e e e e e e e e e e e e e	1.57	1	• • •
110.2 - 126.0	Coarse-grained pink grey nepheline syenite.	· • · • · • · • · • ·		-	ļ		· ••••	
-	114.0 - 117.0 Inclusion of biotite nepheline sy	enite;			1	•		5 5
	gradational boundaries as above			1 1 1			•	:
l.	119.5 - 120.8 As 114.0 - 117.0	ţ		l I	4 : 1		i.	÷.
126.0 - 146.8	Biotite nepheline syenite, medium-grained			- -			•	
	127.6 - 129.6 Grey nepheline symplete inclusion gradational boundaries	r 4 			λ 		i I	1
	133.3 - 136.2 Lost core				-		•	i
146.8 - 158.0	Pink grey medium-grained nepheline syenite	ł			2	:	,	
2	occassional red brown staining	1		I.	ŧ	1		
	156.0 - 158.0 Containing more dark minerals	•				!		
158.0 - 174.0	Gneissic syenite hybrid; in places blotchy and patches of disseminated sulfides.				1	н		
	165.3 - 167.5 Brecciated red-brown cementing ma	terial.	•					
174.0 - 264.5	Dark fine-grained nepheline syenite; in places :	red-				1 •		
	brown feldspar (?) and stringers. Symitized	:		!			1	
i	bands common with possible breccia zones.	•		5	ł	i		ł
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HOLE NUMBER	118-54-	-2
SHEET NUMBER .	3	
SECTION FROM	178 <sub>0</sub> 0	TO 278.9

#### DIAMOND DRILL RECORD

	·	STARIEL	0		<b></b>			
ELEVATION OF COLLAR		COMFLE	TED					
DATUM	• • • • • •	ULTIMATE DEPTH		,				
DIRECTION AT START		PROPOS	EG DEPTH					
CEF'H FEET	EORNATION		n thati Filti€	n <b>k</b> i sin Sengsi kuji k	Gui ta 🕈	SALUDGE SALTO		
178. 189.	0 - 179.0 Biotite rich inclusion 5 - 190.2 Nepheline rich bands		•					
191.	0 - 194.0 Pink nepheline syenite							
194.	4 - 196.5 Light grey nepheline rich t	and with						
	clots of ferromagnesians ar	nd .				ì		! -
:	gradational contacts.	1				¥ I	1	
203.	O Syenite stringer	‡				:	•	
203.	5 - 204.0 Gneissic zone	1		1		l .		1
206.	5 - 207.3 Pink grey nepheline syenite	2 •		;		!	,	1
208.	0 - 228.3 Mottled zone possibly breck grey syenitic base.	sia; pink				<b>i</b>		i
2.28.	3 - 234.2 Nepheline syenite rich area	<b>L</b>		r.			, ,	,
234.	2 - 238.0 Biotite rich gneissic zone					;		i
238.	0 - 240.1 Syenitized zone							I
240.	1 - 244.1 In places gneissic and rich	in biotite,	,					
244.	1 - 250.6 Mottled to gneissic syenite	1		į				ł
250.	6 - 252.5 Gneissic symmitized phase			}		• •	!	•
255.	5 - 259.0 Magnetite rich zone with so core	ome blocky		1			2 5 4	••
264.5 - 278.9 Modi	um-grained massive pink grey nephelin	e syenite.						

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### DIAMOND DRILL RECORD SECONDER 278.9

LECATION IN		STAPTE	$\mathbf{P}$					
ELEVATION OF COL A		сочен	1 (D)					
DATOM		л тім/	F DEPT					
MRC1 ( \$ 54 ).	· 法和利用的 C. A	tife <sub>e c</sub>	化工作管理机					
			5 KN 11 A	4. <sup>1</sup>	<pre></pre>	E 4.C	3	
<u>.</u> ;	269.7 - 270.4 Syenite stringer				1	ł	1	
278.9	Definite contact				1		1	
278.9-332.0	Medium-grained pink grey massive nepheline syen	ite.	;			i.		,
1 1	Lower contact gradational and blotchy.				i		1	
:	279.2 - 280.0 Lost-core					1	:	
,	319.5 - 324.2 Inclusion of biotite nepheline sy	enite.	•		1		•	
332.0-426.0	Biotite nepheline syenite, coarser grained and :	in	ł.					
	places blotchy; gradational contacts							
	333.3-334.5 Pine syenite							
i	338.2 - 340.0 coarse-grained blotchy nepheline syenite hybrid							
	353.6 - 355.5 Scattered fine-grained light grey					•		
	green inclusions.						t t	
	364.0 - 365.3 Grey syenite							
	383.0 - 385.0 Nepheline syenite		·					
	386.2 - 398.0 Pink grey nepheline syenite very		;		i.	ł	1	
· .	gradational contact over last 3 f	eet.			1		, , ,	
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## DIAMOND DRILL RECORD

HOLE NUMBER	118-54-2	
SHEET NUMBER	5	
SECTION FROM	426.0	o. <b>543.0</b>

LOCATION: DEP.		STARTI	ED						
ELEVATION OF COLL	AR	COMPL	ETED						
DATUM		ULTIM	ATE DEPTH				a. 1		
DIRECTION AT STAR	ាម អភិបារជំនា រ ប្រជា	PROPO	SEL DURTH						
the surface to	د به به مرکز ۲۰۱۵ می می در ۲۰۱۵ م در ۲۰۱۹ می ۲۰۱۹ می در ۲۰۱۹ می ۲۰۱۹ می در ۲۰۱۹ می ۲۰۱۹ می در ۲۰۱۹ می در ۲۰۱۹ می ۲۰۱۹ می در ۲۰۱۹ می در ۲۰۱۹ می در		Sab ut .	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Gritte \$	SULL SE	}		
426.0-470.6	Pink grey nepheline syenite becoming richer in			-			1		
· •	ferromagnesians at depth			7 † }		i			
	467.5 - 470.6 Gradational contact occassional fl of sulfides	ecks		1	- - - -				
470.6-587.0	Medium to fine-grained biotite nepheline syenite	•				!	i	ł	
1	473.0 - 475.7 fine-grained green inclusion with			) }		: i	ı	:	
	developement of small light coloured porphyroble	st.	1			• •			
!	475.7 - 476.4 - coarse blotchy syenite stringers	}					1		
\$	485.2 - 492.0 Blotchy syenitized zone			-	,				
	500.5 - 501.4 Blotchy syenitized zone					i .			
ì	518.5 - 521.0 Blotchy syenitized zone grading in	to	-						
	pink nepheline.syenite.						· ·		
	521.0 - 531.0 Pink nepheline syenite with gradat contacts	ional					I		
	541.5 - 543.0 Coarse blotchy symmitized zone.		·						
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118-54-2 HOLE NOVBER 6 SHEEP NEMBER SECTION FROM 543.0 . 174 593.0

### DIAMOND DRILL RECORD

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LOCATION DEP	· · ·			STARTED					
TLEVATION OF FOL	149 .		•	COMPLEED					
DATUM				MUTIMATE O	<b></b> H				
DIRECTION AT CON-	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			1.03294 NO	MERTH				
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· · · · · · · · · · · · · · · · · · ·	554.4 - 555.0	Blotchy core		· · · · · · · · · ·				•	
	561.7 - 569.0	Grey pink mediu	m-grained nephelin	e syenite.	1	1		•	į
		Blotchy for fir	st foot					i	
		562.575 Slight	R.A.	1			}	:	
•	578.1 - 580.8	Ground core; co	ore overdrilled						i
587.0-593.0	Medium-graine	d porphyritic gr	ey pink nepheline	sycnite.				1	
593.0	End of hole.						1		
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earing		Total Fool	age	·····		,		
Footag From	e To	Formation	Sample Number	Sample Footage	Sample Widlh	Gold Sample	Gold Sludge	Remarks
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