



32L04SE9426 11 SUNDAY LAKE

010

## Diamond Drilling

Area SUNDAY LAKE AREA

Report N<sup>o</sup> 11

Work performed by: Amoco Canada Petroleum Company Limited

Claim N <sup>o</sup>	Hole N <sup>o</sup>	Footage	Date	Note
P 401143	31-1	368.0'	Dec/74	(1)
	31-2	404.0'	Jan/75	(1)

Notes: (1) #82-75

PROPERTY Detour Lakes	LATITUDE 8+00 W	STARTED December 10, 1974	Footage	Corrected	DIP TEST footage	Corrected	Footage	Corrected
HOLE NO. DLO - 74-31-1	DEPARTURE 2+00 S	FINISHED December 12, 1974	0	45°				
BEARING 180°	ELEVATION	LENGTH 368	200	51°				
DIP-COLLAR 45°	SECTION	LOGGED BY R. Johnson						

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS		
From	To				From	To	Length			
0	22	Casing O. V.								
22	23	Intermediate (Rhydocite) Lava; dark grey; hardness 5; fine gr.. minor 2-3mm subhedral white feld phenocrysts; tr 1-2mm, euhedral py	tr py							
23	27	Amphibolite; dark greenish brown; hardness 3; med. fine fr; felted texture; 1-2% diss. subhedral - euhedral py; very gradational lower contact; this is likely altered mafic lava or a mafic tuff.	1 - 2% py							
27	34	Mafic Lava; pistachio green; massive; med. fine gr. mafics (90% mainly chl.) and feld ( 10%) and minor ( 3%) slightly coarser gr. (1-2mm) elongate feld.; minor narrow qtz veins generally at 30° to core axis; minor fine diss. py; gradational lower contact.	minor py							
34	44.2	Mafic Tuff; green brown; well developed schistosity with a variable angle to core axis but averages 45-50; fine gr; minerology variable but averages 80% mafics (60% chl, 40% bio) 20% feld; minor intermediate tuff with 39-41', is grey and hard; cut by several calcite veins at all angles to core; lower contact sharply grad at 55° to core; 1 - 3% py as diss. gr elongate // to schistosity & possible tr. cpy.	1 - 3% py.							
44.2	46.5	Porphyritic Intermediate (Rhydocite) lava; dark grey; massive, hardness 5; 10% 3-4mm subhedral, elongate to rounded, cream white to grey feldspar grains in a fine gr. groundmass; sl. magnetic due to 1 - 3% diss po; lower contact sharp at 30° to core; likely a dike	1 - 3% po							
46.5	47.7	Mafic Tuff; green; fine gr; chloritic; schistosity weak at 65°; lower contact at 30°								
44.7	54.6	Porphyritic Intermediate (Rhydocite) Lava; similar to at 44.2 but sl. less porphyritic (4-5%) and carries 7% bio as 1 - 2 mm gr; minor po; lower contact at 50°.	minor po							

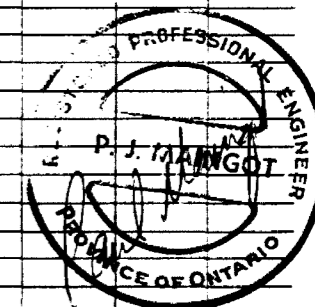
FOOTAGE		DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE		Length	ASSAYS			
From	To				From	To		Au	Ag	Cu (%)	Zn (%)
54.6	92.8	Mafic with less Intermediate Ash Tuff & Lopilli Tuff dark grey to green; very inhomogenous; in places 25-50%, 0.5 - 3cm, rounded & less commonly rounded clasts; for first 2.5' clasts are dacitic & below are mainly mafic, interstices filled with mafic (70% bio, 30% chl) material; clasts elongate with 55° to core axis; fewer clasts & silicified below 65' fine gr, massive mafic (lava?) sections here & there (eg 69-70, 75.5 - 77) with very grad. contacts at 60° to core alternating, narrow, bio & chl bands at 50° to core axis over last 1 ft; lower contact at 50 - 55°; 2 - 5% S mainly po as massive pods and veinlets with less diss py	2 - 5% S mainly po, less py					0.27	0.27		
92.8	99	Rhyodacite - Rhyolite Tuff; dark grey to brown; very fine gr; mainly siliceous and cherty but contain minor bands of bio. with 60° to core axis; numerous fractures at all angles to core veneered with bio & less often S; minor, 3-4mm phenocrysts of cream white feld. in last 1'; lower contact at 60 - 70°; 10% S up to 20% at 94-96; sulphides are 55% po, 45% py, tr cpy; po & py usually as massive pods and veinlets at 50-70° to core; py also as 2mm subhedral grains.	av 10% S up to 20% over 2' 55% po 45% py tr cpy	658	92	99	7	Tr	0.03	0.037	0.004
				659	99	105	6	Nil	0.02	0.023	0.002
99	105	Mafic Tuff; grey green; mod schistosity at 55 - 60° to core; fine gr; 55 - 75% chl, 20 - 40% bio, 5% feld; sl magnetic due to po; 2 - 7% (av 3%) S mainly po with less py, as fine diss. gr massive pods & rare veinlets	2-7% (av 3%) mainly po less py								
105	131.7	Mafic Volcanic; pistachio green; med gr and massive to fine gr and schistose; schistosity at 60° to core; 80% med gr. mafics (chl) 20% interstitial feldspar; minor fine diss py & less po; possibly coarse volcanic or a lapilli tuff with inter bedded ash tuff									
131.7	133.5	Intermediate Tuff; upper contact at 60°; schistosity at 70° but is irreg; green to brown depending on bio content; av 42% chl, 42% bio, 10% calcite stringers + qtz veins; 6% S, both py + po as diss gr & 1" wide band of massive py at high angle to core	6% S equal prop of py & po								
				660	132	134	2	Nil		0.020	
133.5	182	Mafic Lava; pistachio green; massive fine to med fine gr; 80% chl 20% feld; numerous narrow qtz and calcite veins at 10° - 70° to core and often bleaching rock for 2 cm around them; a 3/8" qtz vein at 167.2 at low angle to core carries 5% po, 1% cpy in a massive pos; a barren 3" qtz vein at 90° to core at 174.6; porphyritic rhyodacite as at 44.2 at 176-176.4 with contacts at 60° to core; minor diss. po & py	minor po & py								
				661	166	168	2	Nil			
182	185	Mafic Tuff; green; schistosity at 60° to core axis; 75% chl, 25% bio; tr. diss S.	tr. S								
185	189	Intermediate Tuff; grey-green to grey; schistosity at 55-60°; fine gr; in places very siliceous & cherty but generally hardness 4 - 5; possibly minor volcanic bombs of lapilli size; 10% S av up to 25% at 188.5 - 189; S are 98% po, 2% py, tr minor cpy, as massive pods, diss gr. and veinlets.	av. 10% up to 25% over 1.5' 98% po 2% py trcpy								
				662	185	189	4	Nil	0.03	0.052	0.011

FOOTAGE		DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE		Length	ASSAYS					
From	To				From	To		Ag 02/5	Ag 02/7	(Ag) 0019	Zn 0/0	As 0/0	
189	194	Mafic Lava and Tuff; green; massive to schistose at 60° to core axis; mainly chl with bio bands in schistose sections; average 3% S up to 15% over 6" at base of section; sulphides are 85% po, 15% py, tr cpy.	average 3% up to 15% over 6" 85% po 15% py tr cpy	663	193	194	1	Nil		0.019			0.034
194	206.9	Mafic Lava; pistachio green; fine gr; chloritic; generally massive; at 199-200.2 have 50% angular 3 cm- 3mm dacitic clasts in a mafic matrix with no visible contacts; minor diss S with up to 6% at 199 - 200.2, mainly po as massive pods & minor cpy.	minor po	664	199	201	2	Nil		0.035			0.023
206.9	208.3	Inter. Volcanic (likely lava); upper cont at 55°, lower at 60°; dark grey - black; minor subhedral 3mm feld phenocrysts with up to 10% at 1" from contacts; ground mass fine gr; 1% po as 2 - 3 mm, massive pods	1% po										
208.3	231.3	Mafic Lava; pistachio green; massive; med fine to med gr; 70% chl, 30% white feld; at 222 contains no visible feld & is soft possibly an ash tuff; tr diss S.	tr S.										
231.3	235.2	Mafic Lava; pistachio green; similar to above but finer gr; upper contact at 65°; generally massive but schistose in a few places which contain 25% calcite stringers; several 1 - 2" barren qtz + calcite veins at low angle core often creating a brecciated appearance.											
235.2	237.8	Porphyritic Intermediate Volcanic; dark grey with 15 - 20%, 4 - 5 mm, elongate, subhedral feld gr. in a fine ground mass; upper contact at 65-70° lower irreg at 40-45°; likely a dike; minor po	minor po										
237.8	263	Mafic Lava; pistachio to dark green; massive in general; fine gr chlorite with rare scattered 1mm feld gr; cut by minor, narrow calcite veins & a barren qtz vein at 240 & 257.6 & a 5% min vein at 257.6; minor diss S.	minor S	665	256	259	3	Nil					
263	267	Mafic Tuff; pistachio green; grades into above similar to above but mod-good schistosity at 60° to core; 2% diss po + py.	2% po + py	666	266	268	2	Nil	0.07	0.032	0.021		0.012
267	268	Tuffite; grey green; good schistosity at 60°; soft; fine gr; qtz vein at 60° to core on upper contact, lower cont. at 60°; 5% S (py = po)	5% po + py										
268	290	Mafic Volcanic likely Lava; massive & med fine gr; chloritic; numerous calcite veinlets & few qtz veins; minor - tr diss S.	tr S										
290	291.5	Porphyritic Intermediate (Rhyodacite) Lava; dark grey; 50% 4 - 5mm feld phenocrysts & possible tr. qtz in fine gr ground mass; upper contact at 85° to cor, lower contact at 70°; likely a dike; minor diss S.	minor S										
291.5	336.7	Mafic Lava; as at 268; at 303-310, 319-320 & a few other places get 6" - 2' sections containing 20-30%, 2 - 3mm feld; numerous calcite veinlets, several narrow qtz veins at 30° to core (with minor po at 310); last 1' sl. schistose at 70° to core & contains 7% bio & 10% qtz & feld possibly injected; 10% po as large massive pods & few diss. gr & tr cpy over last 1'.	10% over 1" mainly po tr cpy	667	309	311	2	Nil					
				668	335	337	2	Nil		0.043			0.05



PROPERTY	Detour Lake	LATITUDE	64 00S	STARTED	January 15, 1975	Footage	Corrected	DIP TEST	Corrected	Footage	Corrected
HOLE NO.	51-2	DEPARTURE	L0+00	FINISHED	January 21, 1975	0	-45°				
BEARING	360°	ELEVATION	-	LENGTH	404'	200'	-46°				
DIP-COLLAR	-45°	SECTION	-	LOGGED BY	Terry Gates						

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS	
From	To				From	To	Length	Au	Ag
0	32	Casing							
32	63.5	Bedded Mafic Flows: Fine grained, grey green to green. Tops brecciated. Insitu and agglomerate; also tuffaceous. Carbonate and quartz veining especially prominent at tops. Quartz veins 1/4" - 1/2" 70° to core axis. Carb. veins at 45° or irregular stringers.		4701 4702 4703 4704 4705 4706	32 37 42 47 52 57	37 42 47 52 57 60	5.0 5.0 5.0 5.0 5.0 3.0	Nil Nil Nil Nil Nil Nil	
		41-46: Light green, fractured, 5-10% carb. stringers 2-3% Po, Py along fractures and disseminated. Few chlorite filled fractures.	2-3% Po, Py.	4707 4708 4709	60 63.5 67.5	63.5 67.5 72	3.5 4.0 4.5	Nil Nil Nil	
		41-42: Tuffaceous.		4710	72	74.5	2.5	Nil	
		61-63.5: Brecciated, schistose; biotite alteration. Fragments 1-2 cm. in size light green in green matrix.		4711 4712 4713	74.5 78 81	78 81 84.5	3.5 3.0 3.5	Nil Nil Nil	
63.5	70.0	Felsic Volcanic: Grey, fine grained; biotite and chlorite clots 1-2% H > 5.0 < 1% diss. Po, Py. Bottom contact typified by 2" brown biotite.	1% Po, Py	4714 4715 4716 4717 4718	84.5 89 94 99 104	89 94 99 104 109	4.5 5.0 5.0 5.0 5.0	Nil Nil Nil Nil Nil	
70.0	72.5	Felsic: Very fine grained; 2-3% Po	2-3% Po	4719 4720	109 113	113 116.3	4.0 3.3	Nil Nil	
72.5	673.5	Schistose, Breccia Felsic to intermediate fragments 1 cm. in size set in biotitic matrix.		4721 4722 4723 4724	116.3 117.7 122 126	117.7 122 126 131	1.4 4.3 4.0 5.0	Nil Nil Nil Nil	
73.5	81.0	Felsic Volcanic (63.5 - 72) 2-3% Po disseminated surrounded by white alteration halo.	2-3% Po	4725 4726 4727	131 136 141	136 141 146	5.0 5.0 5.0	Nil Nil Nil	
81.0	116.3	Thinly Bedded Mafic Flows (32-63.5) 81-84.5: Bed top, agglomerate, schistose; biotitic matrix separating fragments. Some fragments altered almost completely to brown biotite; 2-3% Po 85.5 - 87.5: Brecciated. 87.5 - 91: Tuffaceous 103 - 107: Breccia and Tuff. 107 - 108: 3-5% Po vein and disseminated. 108 - 109: Angular felsic fragments 1 cm. in size.	2-3% Po 3-5% Po	4728 4729 4730 4731 4732 4733 4734 4735	146 151 156 161 166 171 176 181	151 156 161 166 171 176 181 186	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	Nil Nil Nil Nil Nil Nil Nil Nil	



FOOTAGE		DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS		
From	To				From	To	Length	Au	Ag	
115.3	117.7	Felsic Volcanic: Fine grained, grey black; < 1% and subhedral feldspar phenocrysts. Top contact schistose - biotitic.		4736	186	191	5.0	Nil		
				4737	191	196	5.0	Nil		
				4738	196	201.5	5.5	Nil		
				4739	201.5	205	3.5	Nil		
117.7	201.5	Mafic lava. 117.7 - 161: fine grained, green, fairly massive. Few carbonate stringers; 1/4" quartz veins at 45° to core axis. Some sections biotitic. 138-145: Tuffaceous; minor sulphides. 161 - 201.5: Thinly bedded mafic volcanic flows 32-63.5 Tops - flow banding, biotitic, minor to 5% Po		4740	205	210	5.0	Nil		
				4741	210	215	5.0	Nil		
				4742	215	220	3.0	Nil		
				4743	220	225	5.0	Nil		
				4744	225	230	5.0	Nil		
				4745	230	235	5.0	Nil		
				4746	235	240	5.0	Nil		
			1% - 5% Po	4747	240	245	5.0	Nil		
				4748	245	250	5.0	Nil		
201.5	215	Felsic Porphyritic Lava? 10% feldspar phenocrysts subhedral to euhedral 1-2 mm in size in a grey black fine grained felsic matrix. Phenocrysts dont occur within 1 foot of upper and lower contacts. Top contact schistose -55° to core axis.		4749	250	255	5.0	Nil		
				4750	255	260	5.0	Nil		
				4751	260	265	5.0	Nil		
				4752	265	266.5	1.5	Nil		
				4753	266.5	272	5.5	Nil		
				4754	272	277	5.0	Nil		
2.5	266.5	Thinly Bedded Mafic Volcanic Flows (32-63.5) Odd quartz vein 1/4" at 50° to core axis. Minor carbonate 248: 4" 10% Po, minor Py.		4755	277	282	5.0	Nil		
				4756	282	287	5.0	Nil		
			10% Po Minor Py	4757	287	292.5	5.5	Nil		
				4758	292.5	297	4.5	Nil		
266.5	272	Felsic Rock: Fine grained, grey to grey black H < 5.0. Has feldspar phenocrysts at top and bottom. Pheno partly dissolved; some lineation; rotated faint granular texture??		4759	297	302	5.0	Nil		
				4760	302	304	2.0	Nil		
				4761	304	310	6.0	Nil		
				4762	310	315	5.0	Nil		
272	286.5	Fairly massive Mafic Volcanic Flow (117.7 - 201.5)  Fine grained, green 278: fragments??		4763	315	320	5.0	Tr		
				4764	320	325	5.0	Nil		
				4765	325	330	5.0	Tr		
				4766	330	335	5.0	Tr		
				4767	335	340	5.0	Tr		
				4768	340	345	5.0	Tr		
286.5	292.5	Mafic Volcanic 10-20% carbonate veins, stringers and interstitial 5% quartz veins; crenulated, schistose, banded biotite, chlorite, feldspar. 290-292.5: elongated angular felsic fragments. 50° to core axis.		4769	345	350	5.0	Tr		
				4770	350	355	5.0	Tr		
				4771	355	360	5.0	Nil		
				4772	360	365	5.0	Tr		
				4773	365	370	5.0	Nil		
292.5	302	Felsic Porphyritic Lava? (similar to 201.5 - 215) Phenocrysts of feldspar occur in rough bands. Very few at top contact but 5-10% adjacent to bottom contact. Matrix - faint shard like frags?.		4774	370	375	5.0	Tr		
				4775	375	380	5.0	Tr		
				4776	380	385	5.0	Tr		
				4777	385	390	5.0	Tr		
302	304	Mafic Lava (as 117.7 to 201.5)		4778	390	395	5.0	Tr		
				4779	395	400	5.0	Tr		
304	310	Bedded Felsic Tuff Grey-white angular fragments < 4 mm in a grey fine grained matrix. Bedding 45° to core axis.		4780	400	404	4.0	Nil		





SUNDAY LAKE AREA  
LOWER DETOUR LAKE  
# 82  
AMOCO

M3003

CI P 400983

CI P 401143

Az 90°

31-1

31-2

1" = 200'

AMOCO CANADA PETROLEUM COMPANY LTD.  
SUITE 2010 - 65 QUEEN ST. WEST  
TORONTO 1, ONTARIO

MBW

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