



32L04SE9425 12 SUNDAY LAKE

010

Diamond Drilling

Area of SUNDAY LAKE

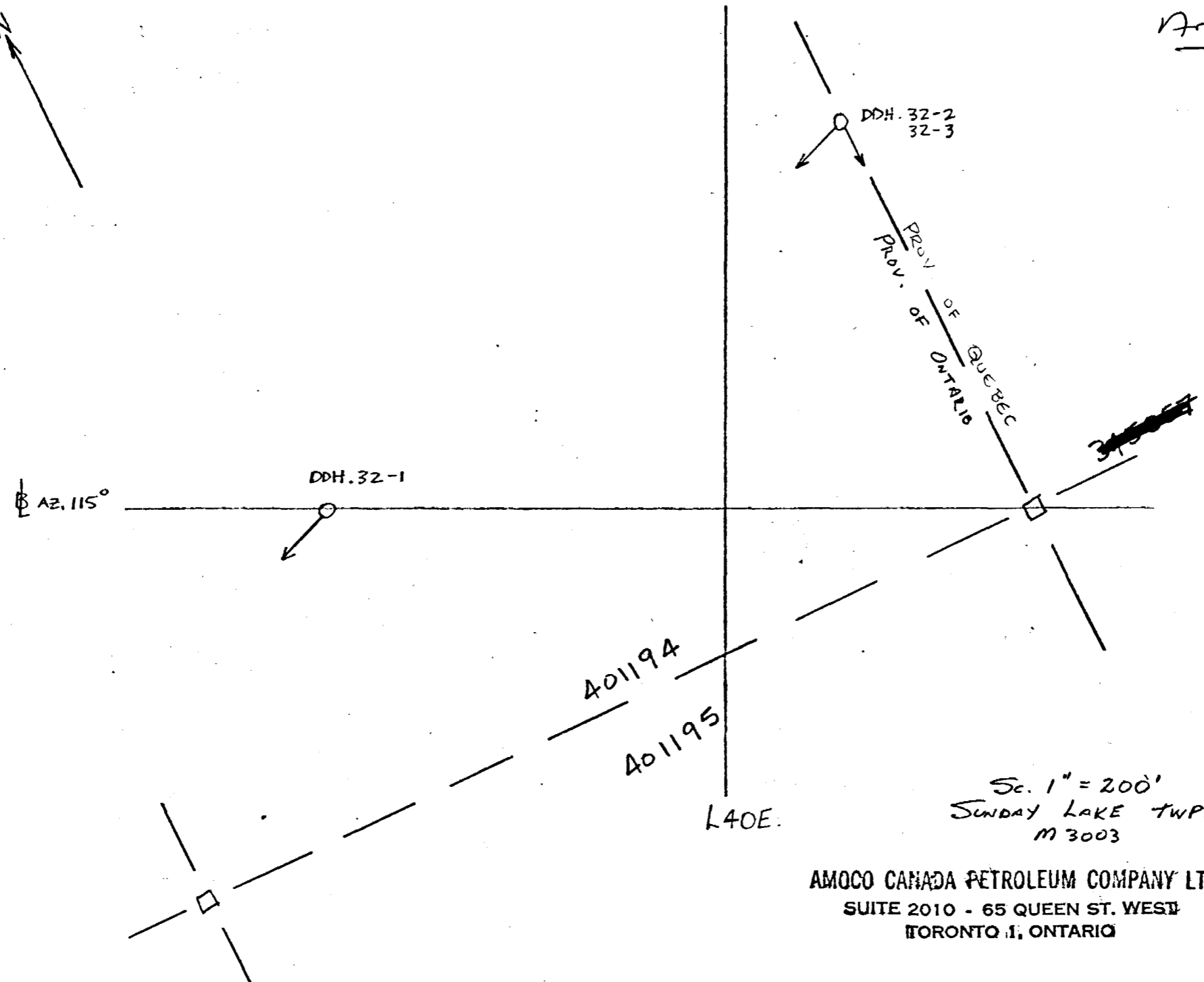
Report N^o 12

Work performed by: Amoco Canada Petroleum Company Limited

Claim N ^o	Hole N ^o	Footage	Date	Note
P 401194	32-1	507.0'	Nov/74	(1)
	32-2	510.0'	Nov/74	(1)
	32-3	602.0'	Nov/74	(1)
		<u>1619'</u>		

Notes: (1) #84-75

SUNDAY LAKE #86
Amoco



Sc. 1" = 200'
SUNDAY LAKE TWP.
M 3003

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

PROPERTY	DETOUR LAKES	LATITUDE	34°00E	STARTED	November 9, 1974	Footage	Corrected	DIP TEST			
HOLE NO.	DLO-74-32-1	DEPARTURE	0+00	FINISHED	November 13, 1974	200	45°	Footage	Corrected	Footage	Corrected
BEARING	250°	ELEVATION		LENGTH	507'	500	47°				
DIP-COLLAR	-45°	SECTION		LOGGED BY	R. Johnson						

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Au oz/ton	Cu%	Zn%	Ni%	
0	8	casing (overburden)										
8	99	dark greyish-green; fine to med. fine gr.; generally massive but in places weak schistosity at 40° to core; few white feld. phenocrysts (1-2 mm) throughout section in places (35'-55') up to 30% of rock forming bands 0.1'-0.5' wide; average minerology is 30% grey feldspar, 70% mafics; some narrow sections (2-10 cm) here and there (eg. 69, 8 - 71') are finer gr., chloritic, soft and show good schistosity 35-40° to core and contacts at 40-45°; many narrow qtz + carbonate stringers at all angles to core but generally at 50° (eg. 8-25' and 91'-97') rock looks like an andesite but is very hard (≈ 5) therefore may be closer to a dacite; mineralization is low in the massive parts (<< 0.1%) and higher (up to 1%) in the chloritic schistose bands (tuff?); sulphides are po, py and cpy (90:10:tr) and occur as diss. along fractures and small (3mm) irreg. pods; the few blebs of cpy were in qtz. veins which were otherwise barren.	average 0.1% po, py, cpy 90, 10, tr	R.J. 716 R.J. 717	28 93.5	31 94.5	3 1	NIL NIL	0.029 0.019	0.007 0.008		
99	102.3	first 0.2' are grey; siliceous; possibly dacite dike c lower contact at 65° and containing tr py; rest is med. fine gr. (1-2mm), mafic (chloritic) intrusive; qtz. stringers as above (0%S); minor py	minor py									
102.3	253.2	as at 8'; barren qtz. vein at 122.9 - 123.3 at 47° to core; gl. coarser gr. and 40% irreg. feld. gr. at 128' - 129.6' schistosity at 50° to core; chloritic bands (1-2 cm) at 45° up to 1% po a s very small lenticular pods // to schistosity in chloritic bands; at 221' have quartz vein 6 cm. at 45° to core and tr. py.	≈ 0.5% po tr. cpy.	R.J. 718 R.J. 719	191.5 251	193.5 253	2 2	NIL NIL	0.027 0.037	0.011 0.008		
253.2	260	mafic tuff; lite green; 15%-20% elongate chlorite gr. which develop a very weak schistosity at 55° to core; sharp upper contact at 42-45°. 256-260 is schistose at 60° to core and is banded (2° 30 cm); band have variable amounts of bio., cbl., feld., + coCo ₃ 70° to core; numerous irreg. C oCo ₂ pods and veinlets with tr. assoc. po; minor po throughout.	tr - minor po	R.J. 720	258	260	2	NIL	0.015	0.007		
260	287.2	as at 253.2' but contains up to 50% sulphides mainly as fine gr., massive bands 3 mm-25 cm. wide and finely diss. grains; bands are 50° (// to bedding) to 35° to core; schistosity is always // to sulphide bands; larger bands contain mafic inclusions; S present are py; po; cpy (70:30:tr); fine orange-red garnets seen in more chloritic beds.	50% sulphides 70% py 30% po tr cpy	R.J. 721 R.J. 722 R.J. 723 R.J. 724 R.J. 725 R.J. 726	260 265 270 275 280 285	265 270 280 285 287	5 5 5 5 5 2	NIL NIL NIL TR NIL TR	0.016 0.032 0.026 0.021 0.019 0.026	0.011 0.009 0.007 0.008 0.008 0.006	0.016 0.025 0.015 0.013 0.010 0.012	

FOOTAGE		DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE			OZ / ASSAYS			
From	To				From	To	Length	Auton	Cu%	Zn%	Ni%
287.2	326.7	mafic lava; sharp upper contact at 50°; schistosity at 45°; many chloritic bands 1" wide at 50° to core; tr. po; few blebs of cpy in qtz. at 298-303; lower contact at 50°.	tr. po few. gr. cpy	R.J.727	298	303.5	5.5	Nil	0.015	0.006	
		intermediate (dacitic) lava; fine gr.; dark grey; 65% silicate (mainly (mainly grey feld.) 35% mafics; more siliceous band at 343-348' grad. contacts and is sl. porphyritic (2-3% rounded feld.); rhyolite at 353-354 with sharp contacts x 10° to core; 0-0.2% py; 1% py in last 3 feet.	0-0.2% py cpy in qtz. at 339.7'	R.J.728	358	360	2	Nil	0.007	0.007	
360.4	507	mafic lava as at 8'; schistosity at 40°; sl. coarse, gr. and porphyritic at 404' becoming equigranular (2-4mm) and intrusive in appearance at 426'-507' 70-95% mafics 30-5% feldspars (interstitial);		R.J. 729	374	374.9	0.9	Nil	0.022	0.005	
				R.J. 730	375	376	1	Nil	0.021	0.004	
		large qtz. vein at 374-374.9 and 40° to core carries <0.1% po and 1 bleb cpy; narrow (3/8") qtz. vein at 42° to core at 375.7' carries minor po, tr cpy; rare, narrow, barren qtz. veins at 60-65° to core from 426-507; only minor-tr S in mafics.		R.J.731	400	404	4	Nil	0.017	0.006	

FOOTAGE		DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE			oz/		ASSAYS
From	To				From	To	Length	Au ton	Cu%	
150.4	159.6	massive sulphides in a mafic tuff; schistosity at 50°; rock is 45% chl., 25% bio, 30% sulphides, in band 1-6" wide parallel schistosity; sulphides occur as massive (80%) bands 6" - 0.25" containing inclusions of Qtz., mafics, and calcite and are ≈ parallel bedding in tuff; S are po, py, cpy and a black material (tarnished py?) in 60:35:0.5:4 ratio; cpy is most common (≈ 1%) at 150.4 - 153.	average 30% 60% po, 35% py 0.5% cpy	1156	150	155	5	Nil	0.083	
				1157	155	160	5	Nil	0.037	
159.6	163.1	as at 139'; sl. more biotite rich.								
163.1	201.8	similar to 116'; schistosity good at 45° to core; 90% chlorite, 10% biotite; many calcite veinlets (// schistosity) and pods; 10-20% elongate // schistosity 1-2 cm lenses of siliceous material and few Qtz. eyes near base (pyroclastic dacitic material?); 3-5% S, 90% po, 10% py, tr cpy (at 186-189'), as diss. gr. and lenticular masses 2-4 mm. long // schistosity.	3-5% 90% po 10% py tr cpy	1158	186	189	3	Nil	0.035	
201.8	204.6	similar to 139; contains minor garnets; sharp contacts at 55 and 50° to core.								
204.6	253.5	mafic volcanic; like at 20.2; schistosity mod. - good at 40-45° to core; more felsic band at 214.2 - 215.9 similar to that at 201.8 & contacts at 50° and 85°, has small rounded Qtz. eyes on both sides; 2-3% sulphides; mainly po & variable cpy (tr = 1% total S (eg. 219-221).	2-3% po tr cpy	1159 1160	219 242	222 243	3 1	Nil Nil	0.015 0.012	
253.5	268.5	massive sulphides in mafic tuff; tuff similar to above; 35-40% sulphides, 70% py, 30% po, (tr cpy?) as massive bands // to schistosity (i.e. 47° to core but often distorted); sulphide occur in same manner as at 150.4' but contain more py and less po and cpy; siliceous band at 263.2 - 264; contacts sharp at 45° weakly banded at 45° to core; dark grey - black fine gr. fine gr., siltstone?.	35-40% 70% py, 30% po tr cpy?	1161 1162 1163 1164	253 255 250 265	255 260 265 268.5	2 5 5 3.5	Nil Nil Nil Nil	0.013 0.13 0.007 0.012	
268.5	510	mafic lava; hard (5); fine gr; green; massive to sl. schistose at 60° & many narrow < 1" highly schistose chloritic bands evd every few feet at 50° to core (pillow edges?); similar to that seen in DDH 38-1; minor fine lapilli tuff at 407.3 - 409' & schistosity at 50° to core; minor calcite and quartz veins at 45-60° to core; tr. S. mainly po with a few, rare specks of cpy; some tr cpy seen in Qtz. or calcite veins 298.5', 481.6, and 498.4.	very minor S tr cpy mainly in Qtz. and calcite veins.	1165 1166 1167 1168 1169	298 349 407 481 498	299 351 409 482 499	1 2 2 1 1	Nil Nil Nil Nil Nil	0.019 0.031 0.019 0.017 0.011	
	510	END OF HOLE								

FOOTAGE		DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE			OZ / OZ / ASSAYS					
From	To				From	To	Length	Au ton	Ag ton	Cu%	Zn%	Ni%	
		qtz veins at 210-220; minor diss. po and poss. tr cpy; minor po and tr cpy in qtz. veins \approx core at 194-196	minor po tr cpy?										
226.3	228.5	Rhyodacite - Rhyolite; upper contact at 50°, schistosity weak at 50°; grey; sl. banding at 45-50°; siliceous chl. rich band at 227-228 containing 10-15% S (90% po, 10% py, tr cpy) as stringers // schistosity and interstitial gr.	10-15% over 1' 90% po, 10% py, tr cpy	1747	226	229	3.0	Tr	ND	0.021	0.007	0.010	
228.5	312.9	Mafic lava; as above; schistosity \approx 45°; 2.45 245 - 248 may be tuff (i.e. very schistose); common calcite veins and stringers; 0-5% S (90% po, 10% py tr cpy), av. 1%, as fine diss., elongate massive pods (5-10 mm) and rare stringers; some sections may be close to an intermediate lava but show no boundaries or regular distribution; at numerous green and white, 2-10 mm qtz. veins at 50° at 248-2 - 250.5; minor cpy at 249.9 along fracture and at 296.9 in CaCO ₃ .	0-5% av. 1% 90% po, 10% py tr cpy	1748 1749	248 205	250 297	2.0 2.0	Nil Tr	ND ND	0.008 0.023		0.008 0.008	
312.9	325.3	Rhyodacite; as at 171.6; sharply grad. cont. at 70-80° to core; lite-dark grey; med. fine gr; poor schistosity at \approx 50°.											
325.3	502.3	Mafic lava; as above; contact sharp at \approx 90° qtz. amygdules as before; rare garnets; rare bio. rich band; grad. cont. at \approx 40° to core; possibly close to intermediate in places (eg. 442-447); common calcite veins and stringers at 40-45° to core; very chlorite in places; few barren qtz. veins at 40-45°; 0.3% S av. 0.5%-1%, mainly po less py tr cpy; occur diss. gr. and rounded 4 mm pods, py occurs along fractures po often assoc. ξ amygdules and calcite veins; 1" 50% po-py at 414.4; tr cpy at 410.	av. 0.5-1% po 50% po + py over 1" at 414.4 tr cpy	1750 1751	446 471	450 475	4.0 4.0	Tr Tr	ND 0.02	0.017 0.014		0.014 0.011	
502.3	507.6	Rhyodacite - Dacite; as at 171.6; dark grey; irreg. upper contact at low angle (\approx 10°) to core.											
507.8	509.5	Biotite, chlorite schist; 25% massive bio. bands and 25% chlorite bands and 50% qtz. veins; minor po and tr cpy in qtz. (at \approx 90° to core).	minor po tr cpy in qtz.	1752	507	510	3.0	Tr	0.02	0.008			
509.5	602	Mafic lava; as above; schistosity at \approx 40° to core; narrow chloritic sections here and there (pillow edges); barren calcite at 558.6 - 559.5 at 40-35°; 1-2% po, tr cpy at 517 - 530; 1-2% po and tr cpy at 567 in close assoc. ξ calcite vein; average for section 0.25%.	1-2% po at 517-530 av. 0.25% tr cpy mainly in qtz. or calcite.	1753	525	530	5.0	Nil		0.006		0.008	