010

Diamond Drilling

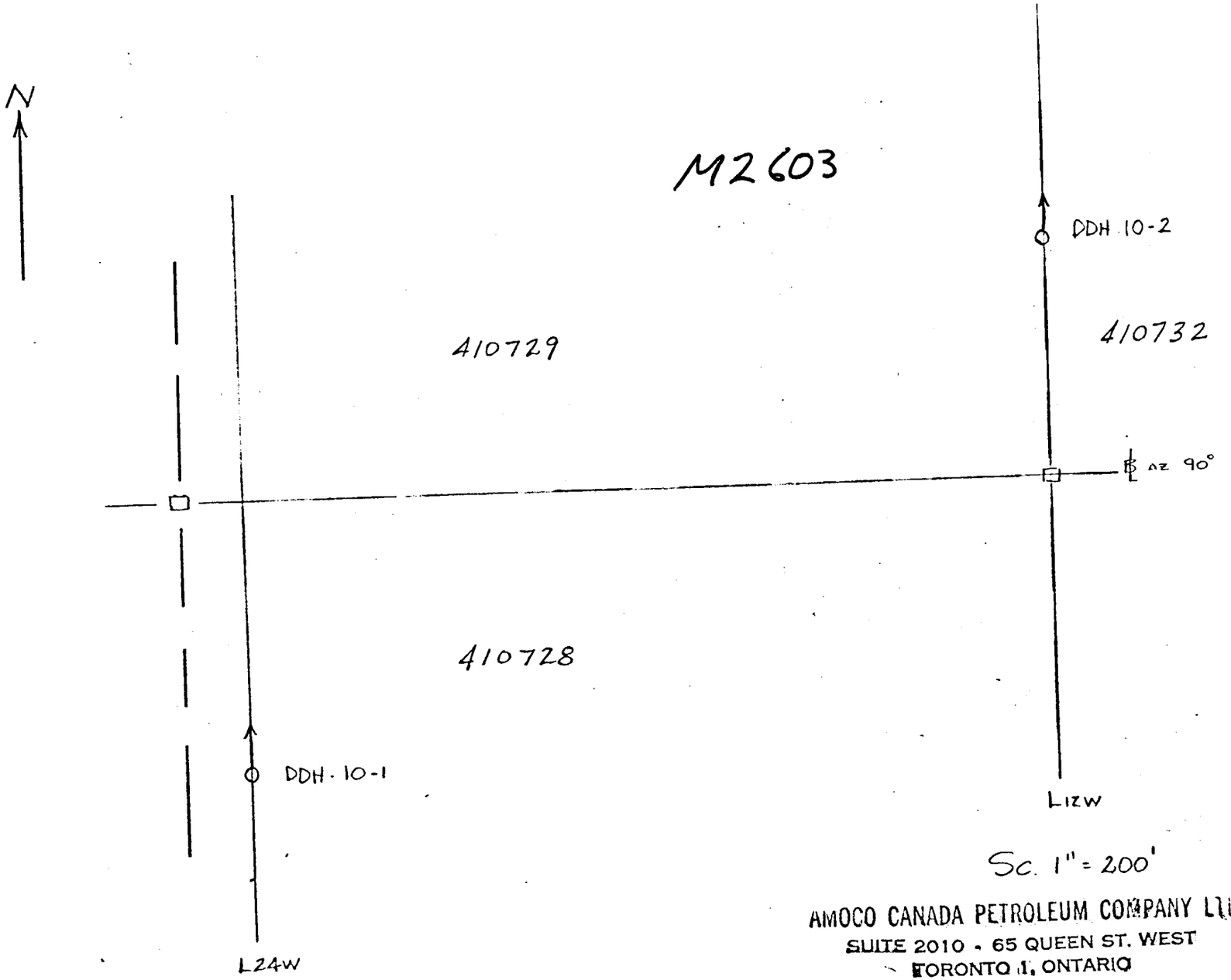
Area of LOWER DETOUR LAKE **Report Nº** 17

Work performed by: AMOCO CANADA PETROLEUM CO. LTD.

Claim Nº	Hole Nº	Footage	Date	Note
P 410728	10-1	385'	Dec/74	(1)
P 410732 (410729)	10-2	416.7'	Jan/75	(1)

Notes:

(1) #85/75



Sc. 1" = 200'

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

AMOCO CANADA PETROLEUM COMPANY LTD. - MINING DIVISION - DIAMOND DRILL HOLE RECORD

REGISTERED PROFESSIONAL ENGINEER P. J. MAINGOT PROVINCE OF ONTARIO

				DIP TEST					
PROPERTY DETOUR LAKE	LATITUDE Line 24+00 West	STARTED 11th December, 1974	Footage	Uncorrected	Footage	Corrected	Footage	Corrected
HOLE NO. DLO/74/10/1	DEPARTURE 4+00 South	FINISHED 15th December, 1974	200	57°				
BEARING GRID NORTH (360°)	ELEVATION	LENGTH 385 feet	380	55°				
DIP-COLLAR -50°	SECTION	LOGGED BY Babu Gajaria						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Cu	ASSAYS Ni	ASSAYS Zn	ASSAYS Au
0	154	Casing (Overburden)									
154	165.8	GRAPHITE: Contains lenticular and massive pyrite and pyrrhotite.	5% Po	B.G. 935	154	159	5'	.042	.020	.310	Tr
		Contains an intercalated section, 1 FWT of lithic felsic tuff. Essentially	2% Py								
		contains quartz and fragments of felspar. Some disseminated biotite and	trace Cpy	B.G.936	159	164	5'	.081	.032	.27	Tr
		pyrite.									
		Po lense 1 core axis angle is 55° (within graphite)		B.G.937	164	166	2'	.080	.034	.131	Tr
165.8	236	MAFIC LAVA FLOW: Very fine grained, dark grey to green in colour.									
		Poorly schistose. Silicified in places. Top section contains lenticular									
		to massive pyrrhotite, some pyrite is present. Some garnet rich sections.									
167		Lent. Po/Core axis angle is 60°									
				B.G.938	166	169	3'	.052	.011	.192	Tr
165.8	175.2	Lenticular Py + Po	6 - 7% Po; 2% Py	B.G.939	169	174	5'	.046	.016	.213	Tr
				B.G.940	174	176	2'	.025	.007	.113	Nil
174	184	FELSIC LAVA FLOW: This section is rich in felsic lithic tuff. Relatively	3-4% Py, ½% Po	B.G.941	179	184	5'	.037	.008	.209	
		greater mineralisation within this section than in mafic flow.	trace cpy.	B.G.942	184	186	2'	.007	.006	.117	
236	243.6	FELSPAR - QUARTZ PORPHRY: Quartz and felspar phenocrysts are	1% Py + Po within qtz	B.G.943	192	194	2'	.005	.006	.017	
		set in a ground mass of mafic flow. There is no sulphide mineralisation.	vein								
			1% Py+Po + trace cpy	B.G.944	226	228	2'	.072	.009	.035	
243.6	265	MAFIC FLOW: Fine grained, light green in colour, composition and									
		character is as above. Poorly schistose.									
		Porphyry + Mafic flow contact / core axis angle is 30°.									
248.3		Pyrite/Po + Cpy. Mineralisation within 1" wide quartz vein	2% sulphides	B.G.945	248	249	1'	.016	.013	.011	
253.4		Po mineralisation within 2" wide quartz vein									
265	280.9	AMPHIBOLITE: Medium grained, essentially made up of amphibole grains									
		set in a finer grained mafic matrix. Some quartz veining is present. Trace									
		pyrite mineralisation.									

A.C.P.C.L. - MINING DIVISION - D.D.H. RECORD

PROPERTY Detour Lake HOLE NO. DLO/74/10/1 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
280.9	310	MAFIC LAVA FLOW: Comp and Character is as above. Contains 1 foot intercalated section of porphyritic intermediate lava flow. Trace pyrite mineralisation.						
310	333.3	FELSIC LAVA FLOW: (?) Essentially made up of quartz, accessory chlorite and some felspar. The rock is extremely massive. It contains some olivine and the rock is cherty in places.						
333.3	346.6	AMPHIBOLITE: Intermixed with mafic lava flow. Coarse grained. Numerous quartz veins. Gives indication of heavy fracturing.						
346.6	385	MAFIC LAVA FLOW: Very fine grained. No visible schistosity. The rock is pale green in colour. Quartz veins are present which are parallel to core axis. The veins are barren. There is no mineralisation within the mafic flow.						
385		END OF HOLE						

AMOCO CANADA PETROLEUM COMPANY LTD. - MINING DIVISION - DIAMOND DRILL HOLE RECORD

				DIP TEST					
PROPERTY DETOUR LAKE ANOMALY 10	LATITUDE 34 50N	STARTED January 18, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO. DLO-10-2	DEPARTURE 12W	FINISHED January 21, 1975	200	49°				
BEARING 360°	ELEVATION	LENGTH 416.7'	416	52°				
DIP-COLLAR-45 -45°	SECTION	LOGGED BY M. KONINGS						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	Ag	Cu	Zn
0	096	Overburden									
96	102.5	Basic Metavolcanic Flow: Medium grain size (1 mm) becomes finer grained with depth: abundant amphibolite crystals and crystal aggregates in mostly chloritic matrix. Amphibolite 50%; slightly magnetic	1% dissem. Py+Po	4901	96	100	4'	Nil		0.01	0.01
		100.0' - breccia, 4" wide, quartz-carbonate filling.	Tr. dissem. Py + Po	4902	100	105	5'	Nil		0.01	0.01
				4903	105	110	5'	Nil		0.01	0.003
102.5	178	Basic Pyroclastic: mostly fine grained (less than .5 mm) tuffs. Bedding 90° to core axis. Numerous large coarse fragments 1" - 2" long dimension;		4904	110	115	5'	Tr		0.01	0.01
		felsic composition, light brown colour compared to green of matric: slight		4905	115	120	5'	Tr		0.02	0.003
		gneissosity in fragments produced by biotite and hornblende.		4906	120	125	5'	Tr		0.02	0.004
		Abundant Py and Po on fracture planes and slips. Small felsic fragments		4907	125	130	5'	Tr		0.01	0.004
		(rhyolitic), 1/8" - ½" dia., angular, white, are also common throughout.		4908	130	135	5'	Tr		0.01	0.003
		Tuffs become finer grained with depth.		4909	135	140	5'	Nil		0.01	0.002
				4910	140	145	5'	Nil		0.01	0.004
		124 - 124.5 thin (1/8") bands of 50% Po, 50% Cpy at contact of chloritic		4911	145	150	5'	Tr		0.01	0.01
		tuff and fine grained felsic tuffs.		4912	150	155	5'	Tr		0.01	0.01
				4913	155	160	5'	Tr		0.01	0.003
				4914	160	165	5'	Tr		0.01	0.004
		126 - 138.5 - 2% Po in pods within tuffs.		4915	165	170	5'	Tr		0.003	0.002
				4916	170	175	5'	Nil		0.01	0.004
		148.7 - 154.8 - 20% graphitic slate in thin to massive sections	5% Py - Po	4917	175	180	5'	Tr		0.01	0.03
178	208.4	Graphitic Slate: carbonacious, 5% fine black xls. - sph?	10% sulphides	4918	180	187	7'	Tr		0.01	0.06
		Pods and blebs of Po + Cpy throughout, some possible Sph.	(75% Po, 20% Py, 5% Cpy)	4919	187	192	5'	Tr		0.01	0.01
				4920	192	197	5'	Nil		0.01	0.04
		186.6 - 191.4 Rhyolite (Flow?) massive, breccia at top and bottom.		4921	197	201	4'	Nil		0.01	0.02
				4922	202	207	5'	Tr		0.01	0.03
		197.7 - 200.0 Felsic tuff, fine grained, light brown due to weathering, possible Sph.									
208.4	216.0	Intermediate Tuff: some vitric tuffs; cherty sections; very fine grained, bedding at 80° to core axis	Py on slips and frcfractures, tr Py in seds.,	4923	207	210	3'	Tr		0.01	0.04
				4924	210	215	5'	Tr		0.01	0.01

REGISTERED PROFESSIONAL ENGINEER P. J. MAINGOT PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag	ASSAYS Cu	ASSAYS Zn
216.0	245	Dacitic Flow - hard, massive, light chloritic alteration very fine grained, complete absence of foliation, becomes more coarse with depth.		4925	215	220	5'	Tr		0.01	0.003
		216-218 flow-top breccia? highly altered by chlorite, carbonate, epidote, carbonate fracture filling.									
245	413.4	Intermediate Volcanic Flows: composition from basic to dacitic, top and basal breccias recognised by carbonate alteration. Individual flow series recognised by systematic variation of grain size from aphanatic at top to medium grained clusters of amphibolites (up to 50%) at the base; matrix tends to be chloritic; very minor quartz. carbonate veins except where noted.									
		Individual flow units 245-296									
		296-304.5									
		304.5 - 305.5									
		305.5 - 306.0									
		306.0 - 312.7									
		312.7 - 316.5									
		316.5 - 319.0									
		319 - 343 - dacitic to rhyolitic; sericitic alteration; banding 70° to core axis.									
		343 - 377.6 qtz. veining (1/8" - ¼" - 10%)									
		377.6 - 387.5 qtz. veining.	5% Py	4926	380	385	5'	Tr		0.01	0.002
		387.5 - 390 qtz. veining.		4927	385	390	5'	Tr		0.02	0.002
		390 - 413.4 very brecciated; rhyolite, (porphoritic, dark grey, ¼" qtz. crystals in siliceous groundmass, up to 10% from 391.5 - 395).		4928	395	400	5'	Tr		0.01	0.01
				4929	400	405	5'	Tr		0.01	0.01
				4930	405	410	5'	Tr		0.01	0.002
				4931	410	413.4	3.4'	Tr		0.01	0.003
413.4	416.7	Rhyolitic Flow: white, fine grained, no quartz veining, no mineralization; some inset silicified fragments - possible flow top breccia									
416.7		END OF HOLE									

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

Hole No.	Length	Angle	Core Size	Operator	Dates
10-1	385'	-50°	AQ	Bradley Bros. Ltd. Val d'Or, Quebec	Dec 11-15, 1974
10-2	417'	-45°	AQ		Jan 18-21, 1975
14-1	705'	-45°	AQ		Jan 24-31, 1975
14-2	583'	-45°	AQ		~~Feb 7~~ - Feb 14, 1975

FORM NO. 406 3 POINTS TO THE INCH BROWN & CULLEN LTD.

LOWER DETOUR LAKE
ATKINSON LAKE
85
Amoco