



32E13SE0035 22 ATKINSON LAKE

010

Diamond Drilling

Area of ATKINSON LAKE

Report N^o 22

Work performed by: AMOCO CANADA PETROLEUM COMPANY LIMITED

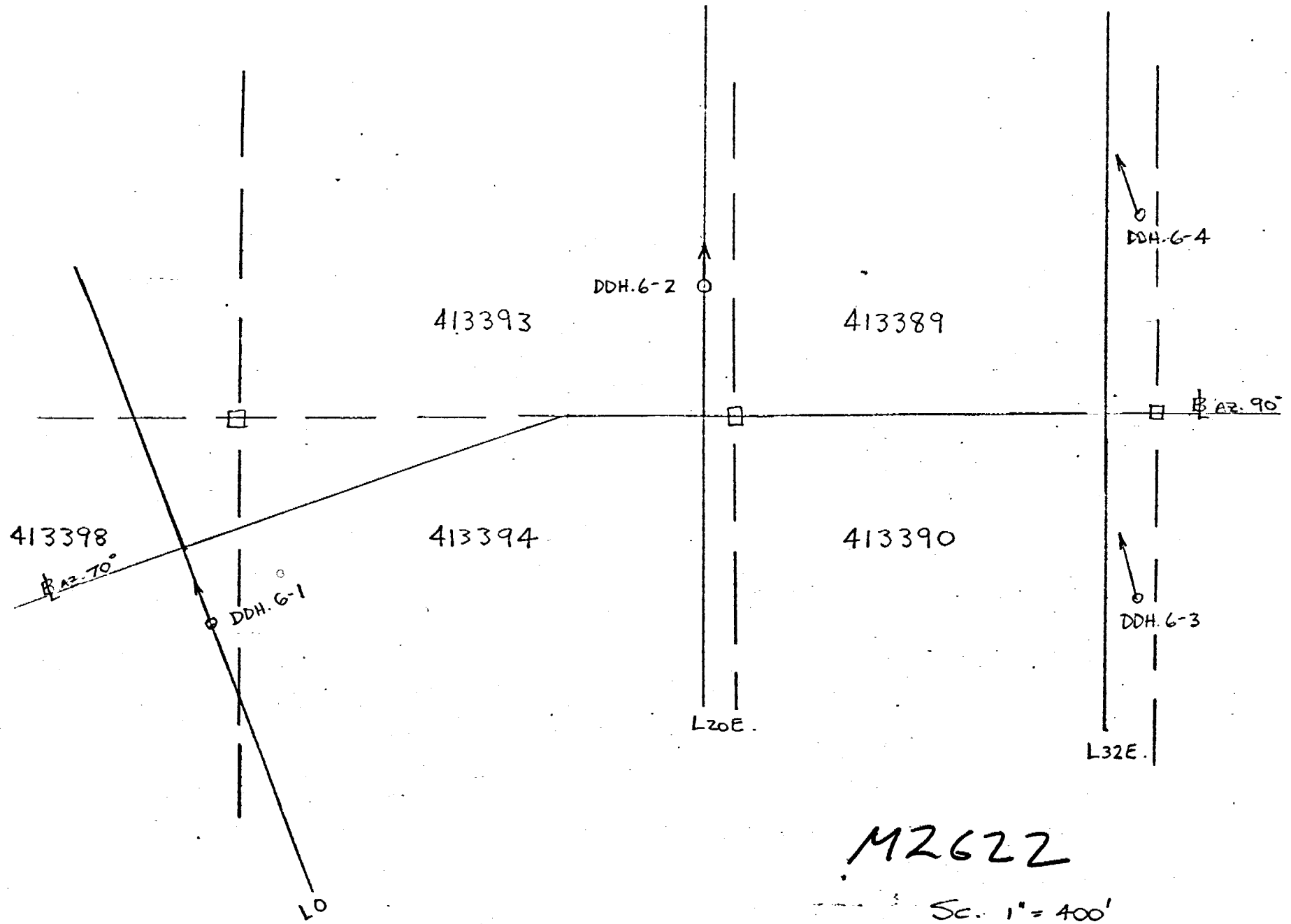
Claim N ^o	Hole N ^o	Footage	Date	Note
413398	6-1	747.0'	Nov/74	(1)
413393	6-2	488.0'	Nov/74	(1)
413390	6-3	686.0'	Oct/74	(1)
413389	6-4	605.0'	Nov/74	(1)

2526'

Notes: (1) #87-74

Well No	Length	Angle	Coe Sigs	Operator	Date
6-1	747'	-45°	AQ	Bradley Bros Ltd - Noranda, Que.	Nov 16-22/1974
6-2	488'	-95°	AQ		Nov 12-19/1974
6-3	686'	-55°	AQ		Oct 24-31/1974
6-4	605'	-44°	AQ		Nov 4-10/1974
43-1	437'	-50°	AQ		Nov 26/27, 1974
<u>TOTAL</u>	<u>2963'</u>				

Atkinson bore # 87
 Amoco.



M2622

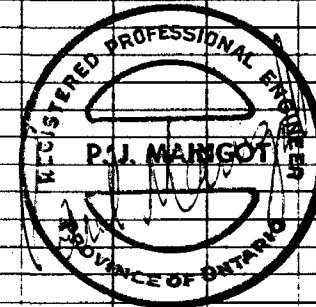
Sc. 1" = 400'

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

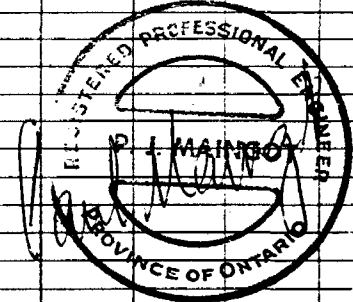
PROPERTY	DETOUR LAKE	LATITUDE	27503	STARTED	November 16, 1974	Footage	Corrected	DIP TEST		Corrected	Footage	Corrected
HOLE NO.	DLO/74/6-1	DEPARTURE	0+00	FINISHED	November 22, 1974	0	-45°	600	-46.5°			
BEARING	340°	ELEVATION		LENGTH	747'	200	-50°					
DIP-COLLAR	-45°	SECTION		LOGGED BY	Terry Gates	400	-46°					

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Au	Ag	Cu	Zn	
0	121	Casing (113' OVB)										
121	186	Amphibolite. Fine grained, dark greyish green to grey black schistose. Contains amphibole and feldspar. Feldspar translucent, no cleavage (may be quartz). Amphibole/feldspar = 1:1. Some sections more feldspar, hard. Few narrow biotite rich zones. Elsewhere biotite is minor. Schistosity is 65° to core axis at 136'.										
		137: Granite Intrusive. Graphic texture, Biotite alteration at contacts. 167-169: 5-10 cm. blebs of Granite. 165-186: Rock darker in colour.										
186	202	Rhyodacite to Dacite: Fine grained, grey black. Banded - more felsic bands have faint granular appearance. Tuffaceous? Containing 5-10% disseminated Po, py Biotite rich between 197-202.	5-10% Po, Py	657	193	194	1.0	Tr	N.D.	0.018	0.005	
202	227	Amphibolite										
227	233	Granitic Intrusive: Massive, contains plagioclase, hornblende, biotite, quartz. Medium grained. 231-232: Qtz. - feldspar granite.										
233	234	Fine grained siliceous rock. Distinct upper and lower contacts 1% diss. po.	1% Po									
234	244	Amphibolite: Few narrow qtz. veins parallel to schistosity which runs at 70° to core axis.										
244	252	Feldspar Porphyry: 30-40% plag. phenocrysts in a Biotite, qtz. and/or feldspar matrix.										
252	319.5	Amphibolite: Dark green amphibole with interstitial feldspar schistose, dark greyish green, fine grained. 266.5 - 267.5: fairly massive, same composition as above. Contains bands of feldspar 3-4 mm wide. 298 - 319.5: progressively finer grained downhole 3-4 mm wide bands qtz. and feldspar.										



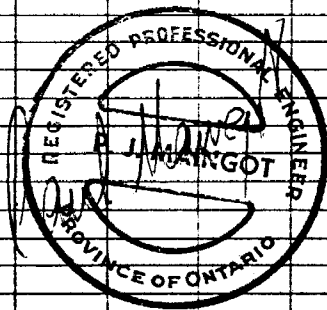
PROPERTY	DETOUR LAKE	LATITUDE	4+00N	STARTED	November 12, 1974	Footage	Corrected	DIP TEST	Footage	Corrected	Footage	Corrected
HOLE NO.	DLO/74/6-2	DEPARTURE	20+00E	FINISHED	November 14, 1974	0	-45°					
BEARING	360°	ELEVATION	-	LENGTH	488'	200	-45°					
DIP-COLLAR	-45°	SECTION	-	LOGGED BY	Terry Gates	400	-42°					

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS				
From	To				From	To	Length	Au	Ag	Cu	Zn	
0	12'	Casing (7' Overburden)										
12'	158'	Amphibolite fine grained, dark greenish black. xtaline hornblende feldspar - looks like qtz. probably albite. few qtz. veins parallel to schistosity. Schistosity is 65° to core axis. 28-29: Siliceous intrusive. Predominantly qtz. and feldspar little chlorite. 43: Black, fine grained, fairly hard. 78-79: fine grained, more siliceous 1% Po, Tr Cpy 84: 10 cm. siliceous rock. 146-151: feldspar - biotite schist Brown Biotite? 151-158: finer grained, hard. few qtz. rich bands.	1% Po, Tr Cpy									
158'	180'	Ultra Mafic Intrusive: Medium grained, greyish green. Contains olivine, pyroxene and some serpentine mineral. 179-180: Graphitic - sheared. 1-2% Po, Py.	1-2% Po, Py									
180'	186.5'	Feldspar Porphyry 10% feldspar phenocrysts. Schistose. Small wine coloured xtls. - sphene? 185-186.5: gradational to biotite rich matrix.										
186.5'	205.5'	Conductor: Graphitic in part, also very siliceous, hard, fine grained. Up to 80% po, with 1-5% Py, minor Cpy. May be trace Zn. Bedding 75° to core axis. Minor siderite.	Up to 80% Po, 1-5% Py Minor Cpy Tr Zn?	653 654 655 656	186 191 196.5 201.5	191 196.5 201.5 205.5	5.0 5.5 5.0 4.0	0.01 Tr Tr Tr	0.02 0.02 0.02 0.08	0.060 0.061 0.092 0.082	0.142 0.118 0.111 0.141	
205.5'	222'	Chlorite - Biotite - Feldspar Schist. Banded with chlorite and biotite rich zones. Minor fracturing - qtz. filled. Minor to 1-2% Po, Py. Garnet porphyryblasts throughout section. Massive to xtaline.	1-2% Po, Py									
222'	488'	Gabbro-Diorite/or Coarse Grained Mafic Volcanic: Fine to medium grained over a distance of 15'. Dark green. Plagioclase - hornblende, minor pyroxene. Little hairline fracturing. Few narrow shear zones.										



PROPERTY	DETOUR LAKE	LATITUDE	5+50 SOUTH	STARTED	October 24, 1974	Footage	Corrected	DIP TEST			
HOLE NO.	DLO/74/6-3	DEPARTURE	33+00 EAST	FINISHED	October 31, 1974			Footage	Corrected	Footage	Corrected
BEARING	340°	ELEVATION		LENGTH	686			0	55+	650	-48°
DIP-COLLAR	-55+	SECTION		LOGGED BY	Terry Gates			200	-55°		
						400	-52°				

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS			
From	To				From	To	Length	Au oz/ton	Ag oz/ton	Cu%	Zn%
0	128	Casing (118' of overburden)									
128	243	Quartz-Biotite Schist Dark Brown-black, fine grained; 40-60% brown biotite frequent quartz rich bands 2-3 mm wide. Few quartz veins. Odd quartz eye. Angle of schistosity is 85° to core axis at 188. 130-131: Feldspar porphyry; mostly biotite - little amphibole and quartz 5% feldspar crystals. 178-179.5: as 130-131. 231.5 - 233: fined grained, grey black, siliceous possible sediment. 236.5 - 237.5: as 231-233. Tr pyrite.									
243	317.5	Quartzite. Fine grained, dark grey, schistose. Bedding 75° to core axis. Tuffaceous in few zones. Light to heavy fracturing throughout quartz or pyrite filled. Few quartz rich bands 248-248.5: as 130-131. 256: Qtz filled fractures, Tr Py 261-275: Qtz bands 1-2 cm. wide, few graphitic shear faces, sericitic. 274-275 2-3% Py 276: Py with graphite 10 mm wide. 279: quartz bands with graphite. Minor Py. 280 - 282.5: Graphitic with quartz and 5-10% py fractured and contorted Massive graphite in fractures and along shear surfaces. 283.5 - 285: Broken core. Graphite rich bands. 285 - 300: Core fractured and broken. Py in fractures. 294.5: Intrusive - chloritic qtz, feldspar, contorted 300.5-301.5: as 130-131 5-10% feldspar metallic grey smears. May be Aspy 301.5 - 313.5: 2-3% py in fractures and along shear faces. Section intruded by feldspar porphyry Tr Cpy 313.5 - 317: Lost core. 317-317.5: as 130-131 felds porphyry.	Pyrite Tr Py 2-3% Py	621 622	302 307	305 309.5	2.0' 2.5'	Tr Tr	0.04 0.02	0.025 0.016	0.008 0.017



FOOTAGE		DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS			
From	To				From	To	Length				
317.5	327.5	Rock varies from an amphibolite to what may be a tuffaceous intermediate volcanic. Py in fractures and also as smears along shear faces. Few quartz filled fractures. Angle of schistosity 70° - 75° to core axis.									
327.5	329.5	Graphitic Zone Contorted and fractured. Little massive graphite. Minor py.	Minor py								
329.5	332	Siliceous rock. Highly fractured - filled with quartz.									
332	335.5	as 130-131 Feldspar Porphyry Hornblende, plagioclase feldspar, little quartz									
335.5	338	as 329-332 Few graphitic zones with 2-5% py.	2-5% Py.								
338	346.5	Intrusive fine to medium grained, dark grey black hornblende, biotite quartz, feldspar. Fracturing at top and bottom of section. Minor to 1% py.	1% py.								
346.5	355.5	as 130-131									
355.5	401	Quartz-biotite, quartz-amphibole schist. Minor quartz banding; very fine grained grey black bands 2-5 mm. wide. Light fracturing. Few felsite bands. Angle of schistosity at 392 is 65° to core axis.									
401	405	Fine grained siliceous rock - sediment or acid volcanic. Contains graphitic and cherty zones with pyrite and minor Cpy and Zn. Schistose. 402: fine grained, chert-banded. 401-404: 2-3% py in veins conforming to schistosity. 404-405: Graphite with 10% py, minor Cpy	2-3% py 10% py Minor Cpy	623 624	401 404	402.5 405	1.5' 1.0'	Tr Tr	0.04 0.02	0.069 0.015	0.014 ND
405	413	as 130-131									
413	436	as 401-405 413-423: 2 cm. to .3 m bands of graphitic breccia zones fragments subangular to rounded - siliceous fine grained, few chert also fine grained black graphitic frags. Py, Cpy and Zn confined mostly to around frag. zones. Up to 50% py 1% Cpy, 1-2% Zn. 417: Ground core. 423-436: less graphite and sulphide mineralization Sulphide mineralization 1-10% in narrow sections. 433: Broken core. 431.5: Minor carbonate filled fracture.	50% Py, 1% Cpy, 2% Zn 1-10% Sulphide.	625 626 627	414 415 419	415 418 420	1.0' 3.0' 1.0'	Tr Tr Tr	0.06 0.12 0.06	0.053 0.133 0.129	0.083 0.250 0.040

PROPERTY: DETOUR LAKE	LATITUDE 64°00N	STARTED November 4, 1974	Footage	Corrected	DIP TEST Footage	Corrected	Footage	Corrected
HOLE NO. DLO/74/6-4	DEPARTURE 33+00E	FINISHED November 10, 1974	0	-44°	600'	-44°		
BEARING 340°	ELEVATION	LENGTH 605' (181.5m)	200'	-48°				
DIP-COLLAR -44°	SECTION	LOGGED BY Terry Gates	400'	-44.5°				

FOOTAGE		DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE			ASSAYS					
From	To				From	To	Length	Au	Ag	Cu	Zn		
0	142	Casing											
142'	233.5'	Amphibolite Schist to Amphibolite to Biotite - Garnet Schist. Medium grained, amphibole crystals, feldspar sugary. Angle of schistosity is 55° - 60° to core axis. 155 - 163: Fine grained, grey black, schistose. Distinct upper and lower contacts. Contains Qtz, feldspar, bi otite 178-188: Garnet content gradually increases to 10% then gradually decreases. 177-179: Feldspar porphyry 194-232.5: Garnet and Qtz content gradually increases. Rock fine grained. Garnet massive. Tr py 232.5 - 233.5: fine grained, hornblende - massive. Hairline fracturing.											
233.5'	235.5'	Feldspar Porphyry											
235.5'	239.5'	Metabasic volcanic flow. fine grained, black; muscovite, biotite, fairly soft, homogenous might be some talc.											
239.5'	240'	Intrusive? fine grained, sugary Qtz.											
240'	446.5'	Graphitic Slate; Quartzo-feldspathic sediments fine grained, generally banded. Graphitic zones vary from few inches to 30'. Carry 2-80% Po, Py with minor Cpy, tr Zn. 240-251: fine grained, grey black, biotite rich zones. Bedding 60° to core axis. 251-258.5: Graphitic slate with 2-10% Py Po (1:1) 252-253: Fractured and contorted, Qtz 2-10% usually along cleavage surfaces also as tuff-like particles pin head size 27 257.5: Contorted. 258.5-264: fine grained, greenish grey, some talc, sugary texture 264-273: Graphitic slate with bands sugary Qtz. 10% Po Py 3:l. 15% Po Py 269-273. 273-273.5: Chloritic garnet porphyryblasts 5-15% in bands.	2-10% Py Po	628	251	256	5.0'	Nil	0.02	0.036	0.273		
				629	256	258	2.0'	Nil	N. D.	0.023	0.010		
				630	266.5	271.5	5.0	Nil	0.04	0.023	0.011		

