Diamond Drilling

Area SUNDAY LAKE **Report Nº** 10

Work performed by: Amoco Canada Petroleum Company Limited
(Logs & Locations = 221 pages)

Claim Nº	Hole Nº	Footage	Date	Note
P 400976	38-1	462.0'	Oct/74	(1)
	38-2	1052.0'	Oct/74	(1)
	38-3	810.0'	Nov/74	(1)
	38-4	826.0'	Nov/74	(1)
	38-5	835.0'	Dec/74	(1)
P 400977	38-6	737.0'	Jan/75	(1)
	38-7	640.0'	Jan/75	(1)
	38-9	876.0'	Jan/75	(2)
	38-14	767.0'	Feb/75	(2)
	38-17	655.0'	Mar/75	(2)
	38-25	527.0'	Mar/75	(2)
P 400975	38-23	1157.0'	Mar/75	(2)
	38-74	1557.0'	Aug/75	(2)
	38-79	1407.0'	Sept/75	(2)
P 400979	38-56	617.0'	July/75	(2)
P 421282	38-81	1780.0'	Sept/75	(2)
	38-90	1962.0'	Sept/75	(2)
	38-94	1651.0'	Oct/75	(2)
P 421283	38-78	1287.0'	Sept/75	(2)
	38-84	1382.0'	Sept/75	(2)
	38-92A	1551.0'	Oct/75	(2)
P 421284	38-8	996.0'	Jan/75	(2)
	38-26	757.0'	Apr/75	(2)

Notes: (1) #81-75

(2) #242-75
Autopositive Enclosed

Diamond Drilling

Area SUNDAY LAKE **Report Nº** 10

Work performed by: Amoco Canada Petroleum Company Limited
(Logs & Locations = 221 pages)

Claim Nº	Hole Nº	Footage	Date	Note
P 421389	38-47	601.0'	June/75	(2)
	38-49	566.0'	June/75	(2)
	38-72	728.0'	Aug/75	(2)
	38-76	714.0'	Aug/75	(2)
	38-77	797.0'	Aug/75	(2)
	38-80	1013.0'	Sept/75	(2)
P 421 388	38-52	637.0'	June/75	(2)
	38-54	666.0'	July/75	(2)
	38-57	747.0'	July/75	(2)
P 421469	39-5	505.0'	June/75	(2)
	39-6	566.0'	June/75	(2)
P 421473	39-7	670.0'	June/75	(2)
P 421474	39-8	603.0'	June/75	(2)
P 401019	39-9	600.0'	July/75	(2)
P 401006	39-10	645.0'	July/75	(2)
P 401023	39-1	650.0'	May/75	(2)
	39-2	752.0'	May/75	(2)
	39-4	477.0'	June/75	(2)
P 401020	39-3	590.0'	May/75	(2)
	35-1	540.0'	May/75	(2)
P 421290	38-71	596.0'	July/75	(2)

Notes: (2) #242-75

Diamond Drilling

Area SUNDAY LAKE **Report Nº** 10

Work performed by: Amoco Canada Petroleum Company Limited
(Logs & Locations = 221 pages)

Claim Nº	Hole Nº	Footage	Date	Note
P 400974	38-37	668.0'	Apr/75	(2)
	38-30	550.0'	Apr/75	(2)
	38-22	907.0'	Mar/75	(2)
	38-34	687.0'	Apr/75	(2)
P 401008	38-43	345.0'	May/75	(2)
	38-42	481.0'	May/75	(2)
	38-40	670.0'	May/75	(2)
	38-38	713.0'	Apr/75	(2)
	38-27	702.0'	Apr/75	(2)

Notes: (2) #242-75

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

Hole No.	Length	Angle	Core Size	Operator	Dates
38-1	462	-45°	AQ	Bradley Bros Noranda, Que.	Oct 14-17/74
38-2	1052	-45°			Oct 19-24/74
38-3	810	-46°			Nov 17-25/74
38-4	826	-43°			Nov 28-Dec 3/74
38-5	835	-50°			Dec 7/74 - Jan 10/75
38-6	737	-45°			Jan 12-18/75
38-7	640	-50°			Jan 19-27/75

FORM No 406 3 FEINTS TO THE INCH BROWN & COLLETT LTD.

Sunday Lake Pr. #81
Amoco Canada Petroleum Co. Ltd.

#242-75

Sunday Lake Area

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

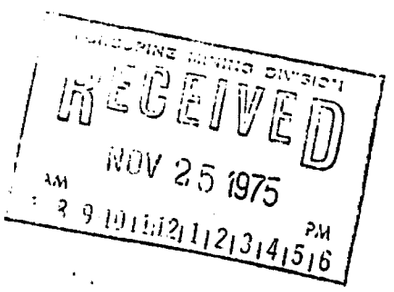
Claim No.	Hole No.	Length/ft.	Total On Claim	Applicable For Assessment
P400977	38-9	876'	2825'	2623'
	38-14	767'		
	38-17	655'		
	38-25	527'		
P400975	38-23	1157'	4121'	4000'
	38-74	1557'		
	38-79	1407'		
P400979	38-56	617'	617'	617'
P421282	38-81	1780'	5393'	4000'
	38-90	1962'		
	38-94	1651'		
P421283	38-78	1287'	5220'	4000'
	38-84	1382'		
	38-92A	1551'		
P421284	38-8	996'	1753'	1753'
	38-26	757'		
P421389	38-47	601'	4469'	4000'
	38-49	566'		
	38-72	728'		
	38-76	714'		
	38-77	797'		
	38-80	1013'		

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

Claim No.	Hole No.	Length/ft.	Total On Claim	Applicable For Assessment
P421388	38-52	637'	2050'	2050'
	38-54	666'		
	38-57	747'		

Total Drill Footage Applicable 35,733'

35,733



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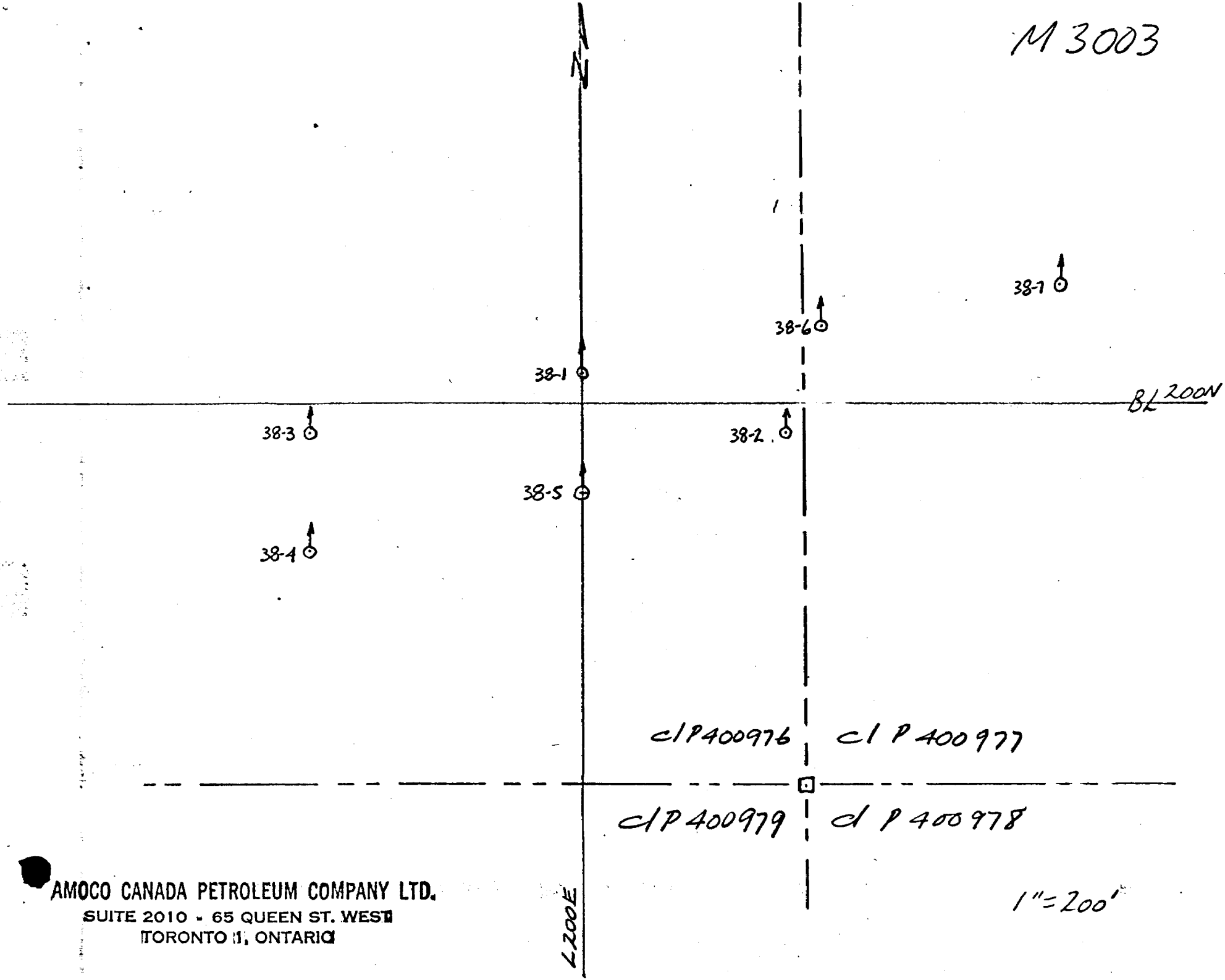


AMOCO CANADA PETROLEUM COMPANY LTD.
SUITE 2010 - 65 QUEEN ST. WEST
TORONTO 1, ONTARIO

1" = 200'

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

Page

				DIP TEST					
PROPERTY DETOUR LAKE	LATITUDE 8W	STARTED October 14, 1974	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO. DLO-74-38-1	DEPARTURE 10+50S	FINISHED October 17, 1974	200'	50°41½				
BEARING 0°	ELEVATION	LENGTH 462'7"	400'	49°40½				
DIP COLLAR 45°	SECTION	LOGGED BY R. Johnson						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au oz/ton	Cu%	Ni%	Ag oz/ton	Zn%
0	75'	casing; boulder till		764	75.0	76'7"	1'7"	Tr	0.085		0.02	
			up to 2% po and 0.1%	1-970	76'7"	77'7"	1'	0.06	0.22	0.05		
75'	82'3"	mafic volcanic or shallow intrusive, very soft (1-2) med. green: magnetic	cpy over 1'	2-971	80'11"	82'1"	1'2"	0.09	0.23	0.08		
		med. gr. (1-2mm) acicular crystals; last 3" finer grained and contact		765	77'7"	80'11"	3'4"	Tr	0.043		0.04	
		gradational over narrow zone ≈ 35° to core; ≤ 0.1 - 2% very fine diss.	2% cpy in qtz. vein	766	82'1"	84'	1'11"	0.02	0.022		N.D.	
		sulfides (po where large enough to identify ± cpy ≈ 5% total S at 76'9";	at 81									
		3" qtz. vein (80° to core) at 81 carried 10% po and 2% cpy.										
82'3"	111'7"	intermediate volcanic: sl. porphyritic; fine-med gr.; light grey massive -	tr. cpy	3-972	97'1"	100'	2'11"	0.01	0.004		0.02	N.D.
		mod. schistosity at 47° to core; fine diss. S (po, tr cpy) usually < 0.5%	0.5% po	4-973	106'10"	107'10"	1'	Tr	0.017		0.01	0.002
		up to 2% at 97' - 104".										
111'7"	133'10"	as at 75'; schistosity at 55° to core; magnetic; no visible sulphides;		5-974	120'	121'8"	1'8"		0.006	0.07		
		lower contact at 20° to core.										
133'10"	139'5"	rhyolite (or chert?) light grey; 0.1-0.5% diss. py (tr. cpy?); basal	tr. cpy	6-975	135'	137'	2'	0.01	0.011		0.01	0.002
		contact at 25° to core.	0.1 - 0.5% py									
139'5"	193'10"	as at 75' and 111'7"; sl. - mod. magnetic; med. gr. ± many 5-20 cm. wide	≈0.5% po up to	7-976	170'	172'	2'	Tr	0.02	0.08		
		fine gr. sections; schistosity at 60° to core; fine diss. S up to 1%	0.25% cpy Average									
		(average 0.5%) mainly po but tr. (up to 60% total S in short section at	< 0.1% cpy									
		193'6").										
193'10"	205'7"	Porphyritic (feld) basic dike; 50-60% white plag. ± subhedral 3 mm.	2% py	8-977	195'	196'7"	1'7"		0.017	0.025		
		phenocrysts; 40% mafics (biotite, chlorite, etc.); 2% subhedral diss. py.;										
		lower contact at 35° to core.										
205'7"	226'11"	mafic lava; fine gr.; green; mod. magnetic; several bands of biotite at	tr. S.									
		218'-220'; schistosity at 45° to core; tr. diss. S.										
226'11"	232'2"	siltstone; dark grey; massive; weakly magnetic; sharp upper contact at	tr. cpy	9-978	230'9"	231'11"	1'2"	0.01	0.02		0.02	0.004
		40° to core, grad. lower; 0.5-1% finely diss. S (po>> py, tr. cpy).	0.5-1% py and po									
232'	251'6"	mafic lava and tuff; green; sl. magnetic; schistosity at 10-20° to core;	average 4 % po	10-979	237	238'11"	1'11"	0.02	0.12	0.08		
		1% S near top, 5% in middle, 15% over narrow sections (15-30 cm) near	0.2% cpy	11-980	246'6"	248'11"	2'5"	0.13	0.58	0.06	0.18	
		base; sulphides as fine diss., along fractures, and in very narrow										
		qtz. vein; sulphides po and cpy; cpy is 5-10% total S; large (2 cm) massive			248'11"	250	1'1"					
		cpy pod at 246'6".										

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

PROPERTY DETOUR LAKES HOLE NO. DLO-74-38-1 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS oz/ton Au	ASSAYS Cu%	ASSAYS Ni%	ASSAYS Ag oz/ton	ASSAYS Zn%
251'6"	256'8"	qtz. vein; 35% chloritic mafic lava, inclusions and bands: sulphides as diss. grains, veinlets and large irreg. pods (1-2cm); 8-10% S (30% cpy 70% po); grad. contacts		12-981	250	252	2'	2.71	1.02	0.05	1.37	
			average 7% po 3% cpy	13-982	252	255	3'	1.15	1.05	0.03	0.48	
				14-983	255	256'9"	1'9"	1.12	0.66	0.019	0.38	
256'8"	284'3"	mafic intrusive or lava; fine gr. upper and lower 10', med. gr. (2mm) middle; green; chloritic; minor - trace diss. po and py; minor cpy in qtz. vein at 287'; grey siltstone at 273'4" - 274'± grad. contact.	minor po and py Tr cpy at 287'	15-984	270	271	1'		0.006	0.009		
284'3"	285'9"	qtz vein; at 30° to core; 60% S (80% po, 20% cpy) for first 3" with 30% 0.5 - 2 cm. rounded qtz; remainder 10% S in irregular pods (10% cpy, 85% po, 5% py)	average 20% po	16-985	284'3"	285'10"	1'7"	.22	1.19		0.22	0.013
				777	285'10"	289	3'2"	0.01	0.038		N.D.	
285'9"	295'3"	chert; grey-purple; bedding at 55° to core; < 0.1% diss. S; quartz vein at 289 - 290' ± 1% cpy and 5% po.	tr. S.	17-986	289	290	1'	.73	0.91		0.33	
			1% cpy 5% po	778	290	295	5.0	0.04	0.029			
			in qtz. vein at 289'	779	297'4"	300	2'8"	Tr	0.24			
295'3"	316'	siltstone; dark grey; schistosity at 45° to core; bedding 50°; sulphides as massive (80%) bands (1-2cm), streaks parallel to schistosity and diss.. gr., first 5' carry 7% S last 16' 5-6%; cpy 5-7% total S remainder is po; mod. magnetic	Average 6% po 0.2% cpy	18-987	295'	297'4"	2'4"	.08	0.51		0.14	0.008
				19-988	310	311	1'	.67	0.14		0.18	0.004
				20-989	314'10"	316'3"	1'5"	Tr	1.51		0.17	0.013
				781	305	307	2.0'	0.35	0.069		0.06	
316'	362'6"	mafic lava and tuff, minor beds (30-1 cm) of sediments dark green; schistosity at 55° to core; mod. - strongly magnetic; 5% fine diss. S throughout with scattered massive pods and veins 1-2 cm. wide raising the sulphide content to up to 20% in places (eg. 330' - 337'); sulphides are po (99%) cpy (1%); larger massive veins (45° to core) contain 20% rounded qtz grains.	average 6-7% po 0.1% cpy	21-990	330	332'	2'	0.03	0.58		0.12	0.008
				22-991	333'4"	335'	1'8"	0.04	0.32	0.013	0.30	
				23-992	335'10"	337'10"	2'	0.01	0.15	0.011	0.08	
				24-993	346	348	2'	0.01	0.06	0.007	0.04	
				25-994	357	360	3'	0.06	0.06		0.02	0.008
				790	355	357	2'	0.08				
362'6"	369'	as at 295'; gradational contacts; bedding at 366'6" at 55° to core; tr po.	tr po	789	370	371	1.0'	0.25	0.090		0.10	
369'	462'7"	mafic lava and tuff; green; very soft; mod. - very magnetic; quartz-feldspathic (as at 295'3") at 409 - 411'7"± sharp contacts at 45° - 50° to core, barren of S; erratic S content eg: 10% S from 385' - 387', 390-392, 412'4", 414'; 5% 369'-375'; 0% 409' - 411'7"; many scattered narrow (2 cm) qtz veins with 10% S (95% po, 5% cpy) at 33-36° to core; average sulphide content for section 6% (98% po 2% cpy)	Average 6% po 0.1% cpy	26-995	385	387	2'	.05	.09	0.008	0.06	
				27-996	390	392	2'	Tr	.08	0.007	0.16	
				28-997	411'11"	414'1"	2'2"	.08	.09	0.006	0.04	
				29-998	435'	437'	2'	.03	.09	0.006	0.06	
				30-999	443'2"	445'	1'10"	.01	.05	0.005	0.06	
				31-1000	452'	454'	2'	.02	.18	0.005	0.08	
				791	401.5	402.5	1.0'	0.36	0.223		0.06	
	462'7"	END OF HOLE										

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

				DIP TEST					
PROPERTY DETOUR LAKE	LATITUDE L4W	STARTED October 19, 1974	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO. DLO-74-38-2	DEPARTURE 10+50S	FINISHED October 24, 1974	200'	58°				
BEARING 0°	ELEVATION	LENGTH ~~729'~~ 1052'	400'	56°				
DIP-COLLAR -45°	SECTION	LOGGED BY R. Johnson	600'	60°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au oz/ton	Ag oz/ton	Cu%	Zn%	Ni%
0	134'	casing; bouldery till to 130'; 130'-134' bedrock										
134	217'8"	sheared mafic intr(?); light grey-green; 100% chlorite and talc.; weakly magnetic; high specific gravity; med. gr.; schistosity good-high dip - 80°N. At 147' dip 90°; many (<1%) small (1-2mm) acicular crystals in random orientation (begin at amph. facies?); last 3' are fine gr. and chloritic; 1% > %S > 0.5%; sulphides are 80% po 20% py, tr cpy; occur as very fine diss. gr., few veneers along fractures and minor massive pods (3-5mm)	1-0.5% (80% po 20% py) tr cpy	1-735	190	192	2'	0.01	0.03	0.02	0.007	0.05
217'8"	239'8"	rhyolite; contact at 75° N dip; light grey-cream; siliceous; aphanitic - fine gr.; very slightly porphyritic (rounded qtz); very minor banding dip at 72° S; slightly mag.; lower contact sharply gradational at a 72°S dip; 1% > %S > 0.5%; mainly py, less po, cpy; sulphides occur mainly as diss. gr. and py veneers along fractures at all angles to core; rock is bleached for 1-2 mm from fractures.	1-0.5% mainly py(po) tr - cpy	2-736	220	222	2'	Tr	ND	0.07	0.005	
239'8"	253'7"	as at 134'; slightly more massive; intrusive into rhyolite; schistosity mod. and dips 80°N; sharp lower contact (dip 62°S); 1.5% - 2% sulphides as diss. gr. and massive pods (1 cm) and veins (1.5 cm); mainly po ≥ minor cpy (0.5% of total S).	1.5 - 2% po ≈ 0.01% cpy	3-737 4-738	245 251	250 253'7"	5' 2'7"	0.08 0.04	0.18 0.33	0.75 0.89	0.007 0.013	0.09 0.07
253'7"	311'	rhyolite; as at 217'8"; some sections are dark grey; cut by 2 types of mafic dyke: a) those much like at 134', at 260'9" - 261'7", 280'2" - 283'9" and 290'7" - 291'4", barren, contacts dipping at 52°N; b) at 286'4" - 290'7" fine gr., slightly porphyritic (1-2 mm feld. gr.) also barren, black in colour; likely intermediate; minor cpy along fractures in last 1'.	1-0.5% py and po minor cpy at 310'	5-739 6-740	273 309	275 311	2 2	Tr 0.01	ND 0.06	.02 0.11	0.003 0.012	
311'	338'5"	as at 134; schistosity good - very high (fissile in some places) dipping at 88°S sulphide content generally low except at 330-332 which has 1% S mainly po ≥ 0.01% cpy occurring mainly as pods (5mm) and less diss. gr.	1% po 0.01% cpy	7-741	330	332	2'	0.38	0.21	0.51	0.008	0.10
338	343'7"	micro-gabbro; med. gr; sl. porphyritic (1-2mm feld); magnetic massive; 70% mafics 30% feld; minor fine gr. sections 6" massive biotite at base; 0.5% - 1% po and py (60:40) as fine diss. gr. and few small massive pods.	1% - 0.5% po and py									

FOOTAGE From	FOOTAGE To	DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS oz/ Auton	ASSAYS oz/ Ag ton	ASSAYS Cu%	ASSAYS An%	ASSAYS Ni%
343'7"	400'	mafic intrusive(?); first 5 ft. pistachio green; fine gr; chlorite; schistosity mod, dip 30°; mod. mag.; grade into rock like at 134' at ≃ 347' ζ slight change in colour and increase in talc content; average < 0.2% sulphide but at 375'-400' many narrow (5-10 cm) massive veins raise % to 2%; mainly po, less py and minor cpy; several finer gr. sections like at 343'7" 6" - 1' wide ≃ every 5'; contacts gradational.	average 0.2% po and py at 375'-400' 2% po and py minor cpy	8-742 9-743 10-744	355 380 398	357 385 400	2' 5' 2'	0.02 0.01 0.02	0.03 0.03 0.03	0.07 0.14 0.14	0.003 0.005 0.003	0.08 0.06 0.07
400'	442'	mafic migmatite; dark green; med. gr ζ many coarse (2-4 mm) lenses; magnetic; coarser lenses have been injected creating a breccia texture in places; finer gr. sections much like at 134'; S content variable depending on no. of massive pods ζ average 2%; first 10' ≃ 4% S (85% po, 14% py, 1% cpy); a massive veinlet of cpy at 402'.	average 2% po, py tr cpy at 400-410 0.40% po 0.56% py 0.04% cpy	11-745 12-746 13-747 14-748	400 406 417 422	403 409 419 423'4"	3 3 2' 1'4"	0.03 0.02 0.01 0.01	0.03 0.03 N/A ND	0.16 0.14 0.09 0.04	0.006 0.004 0.004	0.05 0.06 0.08 0.04
442'	468'	mafic intr.; gabbro; coarse gr (2-4mm) as above; dark green near black; not chloritic; weakly magnetic; feldspars occur in bands up to 20 %; sulphide content variable average 0.5%; mainly po; at 453-457 ≃ 4% po and 1% cpy	average 0.5% at 453-457≃ 4% po 1% cpy	15-749 16-750 17-751	442 445 453	444 446 457	2 1 4	0.01 0.005 0.005	0.03 NA NA	0.14 0.11 0.28	0.004 0.004	0.07 0.06 0.04
468'	535'	as above but generally more uniform and coarser gr. (6-10 mm); not magnetic; only tr S.	tr. S									
535'	617'9"	finer gr. mafic; first 2' earthy texture, rest fairly massive green; magnetic; fine-med. gr; few 1-2' lenses of above talc is common in some places; when prese nt schistosity dips at 90°; likely between an andesite and diorite; 1.5-2% po and less py as diss. gr. and massive pods and veinlets; 2 qtz. veins at 581'4" - 582'4" and 583'3" 584' and dipping at 83° S; 50-60% qtz. rest mafic inclusions; 5-10% po and 1% cpy; 4 1/4" lense 70% po, 1% cpy at 599'8" and increase to 3% po with minor cpy at 600'-605'; dip of sulphide veinlets is 80° S; this may be tuff in part	average 1.5-2% po + py at 581'4"-582'4" and 583'3"-584 (qtz vein 5-10% po 1% cpy at 599'8 4" is 70% po 1% cpy at 600-605' 3% po minor cpy	18-752 19-753 20-754 21-755 22-756 23-757	540 550 581'4" 583 585 599	542 552'8" 582'6" 584 587 604	2' 2'8" 1'2" 1' 2' 5'	0.005 0.01 0.01 0.45 0.08 0.01	0.06 0.06 0.45 NA 0.06 0.12	0.11 0.17 0.57 0.74 0.12 0.18	0.003 0.004 0.007	0.05 0.05 0.02 0.06 0.04
617'9"	635'5"	similar to 338'5"; 80% mafics, 20% feld (some as 3-4 mm porphyries; 0.1-0.2% S, mainly py as diss. gr. and veinlets; not magnetic; qtz. vein at 634'2" - 635'5" 15% po, 5% py; 1-2% cpy; dip 85° S	average 0.1-0.2% mainly py at 634'2" - 635'5" (qtz. vein) 5% py 1.5% cpy	24-758	634'2"	635'5"	1'3"	0.25	0.60	1.11		
635'5"	691'2"	as at 600'; first 4' fine gr. and 4% S (80:20 = po:cpy) as diss. gr., veinlets and pods grades into porphyry; inclusions or bands of fine gr. chloritic material at 659' - 666'; same contacts sharp and outlined by py, others gradational; they carry 5% py minor po and tr. cpy.	average 1% at 635.5 - 639' 3.2% po 0.8% cpy	25-759 26-760	635'5" 659	637 661	1'7" 2'	1.15 0.05	0.66 NA	0.41 0.06	0.010	0.03 0.03
291[illegible]	729'	magnetic; grey green; soft ≃ 3; weak banding, dip 65°N some biotite rich bands; mod. schistosity 60°N; med. - coarse grained; coarse section (710-715) contains up to 10% feld (up to 5 mm); 1-2% sulphides (98%) po 2% cpy); occur as diss. gr. pods and veinlets; ζ best Cu values along fractures and in veinlets 2 qtz veins (6" and 2") at 719' - 720' 15% po	average 1-2% at 219'-220' 2 quartz veins 6"-2"	27-761 28-762 29-763	703 718 725	705 720 729	2 2 4	0.01 0.005 0.005	0.03 NA 0.03	0.07 0.12 0.15	0.005 0.010	0.06 0.04 0.03
	729	END OF HOLE										

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

38-2 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION
729	731	Basic Lava
731	734.2	Felsic Tuff
734.2	736	Soft, Pistachio green tremolitic rock in the felty texture
736	793	Basic Lava
793	832	Schistose basic lava
832	847.8	Basic Lava or Intrusive. Phenocrysts of amphibole up to 4 mm in siz in a schistose, soft chlorite - tremolite matrix
847.8	849.8	Felsic Tuff
849.8	873	Schistose, soft tremolitic rock. Similar to 734.2 - 736
873	897	Basic Lava
897	899	Similar to 849.8 to 873
899	905	Basic Lava
905	1052	Basic Intrusive. Coarse-grained, dark green, granular rock. Consi of amphibole crystals (60%) up to 5mm in size and smaller feldspar crystals.
		1052 END OF HOLE

REGISTERED PROFESSIONAL ENGINEER
P. J. WALLOOT
PROVINCE OF ONTARIO

(Extension)

PROPERTY DETOUR LAKE HOLE NO. DLO-38-2 Page 3

% Mineralization	SAMPLE NO.	FOOTAGE From	To	Length	ASSAYS Au.	Cu.
	3637	729	731	2.0	0.005	0.06
	3638	731	734	3.0	T	0.05
	3639	734	735.5	1.5	T	0.07
	3640	735.5	738	2.5	T	0.13
	3641	738	741	3.0	T	0.32
	3642	741	744	3.0	0.01	0.36
	3643	744	746	2.0	0.02	0.59
	3644	746	749.5	3.5	T	0.25
	3645	749.5	754	4.5	0.16	0.30
	3646	754	756.5	2.5	0.22	0.35
	3647	756.5	759.5	3.0	0.03	0.19
	3648	759.5	763	3.5	T	0.06
	3649	763	767.5	4.5	0.02	0.07
	3650	767.5	773.5	6.0	0.02	0.23
	3651	773.5	775	1.5	0.01	0.13
	3652	775	779.5	4.5	0.01	0.20
	3653	779.5	782	2.5	T	0.13
	3654	782	785	3.0	T	0.17
	3655	785	788	3.0	0.01	0.09
	3656	788	793	5.0	T	0.02
	3657	793	798	5.0	T	
	3658	798	803	5.0	T	
	3659	803	807	4.0	T	
	3660	807	812	5.0	0.02	
	3661	812	817	5.0	T	
	3662	817	822	5.0	T	
	3663	822	827	5.0	T	
	3664	827	832	5.0	T	
	3665	832	837	5.0	T	
	3666	837	842	5.0	T	
	3667	842	847	5.0	T	
	3668	847	852	5.0	N	
	3669	852	857	5.0	N	
	3670	857	862	5.0	T	
	3671	862	867	5.0	T	
	3672	867	872	5.0	T	
	3673	872	877	5.0	T	
	3674	877	882	5.0	T	
	3675	882	887	5.0	T	
	3676	887	892	5.0	T	
	3677	892	897	5.0	T	
	3678	897	902	5.0	N	
	3679	902	907	5.0	N	
	3680	907	912	5.0	N	
	3681	912	917	5.0	N	
	3682	917	922	5.0	N	
	3683	922	927	5.0	N	
	3684	927	932	5.0	N	
	3685	932	937	5.0	N	
	3686	937	942	5.0	N	
	3687	942	947	5.0	N	

(Extension)

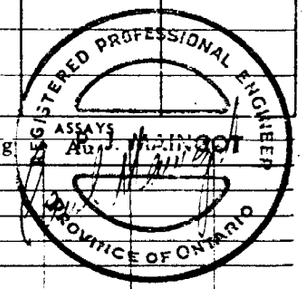
PROPERTY DETOUR LAKE HOLE NO. DLO-38-2

% Mineralization	SAMPLE NO.	FOOTAGE From	To	Length	ASSAYS Au.	Cu.			
	3688	947	952	5.0	N				
	3689	952	957	5.0	N				
	3690	957	962	5.0	N				
	3691	962	967	5.0	N				
	3692	967	972	5.0	N				
	3693	972	977	5.0	N				
	3694	977	982	5.0	N				
	3695	982	987	5.0	T				
	3696	987	992	5.0	N				
	3697	992	997	5.0	T				
	3698	997	1002	5.0	N				
	3699	1002	1007	5.0	N				
	3700	1007	1012	5.0	N				
	3701	1012	1017	5.0	N				
	3702	1017	1022	5.0	N				
	3703	1022	1027	5.0	N				
	3704	1027	1032	5.0	N				
	3705	1032	1037	5.0	N				
	3706	1037	1042	5.0	N				
	3707	1042	1047	5.0	N				
	3708	1047	1052	5.0	N				

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

				DIP TEST					
PROPERTY DETOUR LAKE	LATITUDE LINE 12 + 00 West	STARTED 17th November, 1974	Footage	un Corrected	Footage	un Corrected	Footage	Corrected
HOLE NO. DLO /74/38/3	DEPARTURE 11 + 50 South Ref. Grid.	FINISHED 25th November, 1974	200'	53°	800'	44°		
BEARING 360° (Grid North)	ELEVATION	LENGTH 810'	400'	43½°				
DIP-COLLAR 46°	SECTION	LOGGED BY Babu Gajaria	600'	43°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Cu	ASSAYS Ag	ASSAYS Au	Corrected
0	52	Casing (Overburden)									
52.0	58.5	MAFIC LAVA FLOW: Fine grained, Silicified in places, predominance of mafic minerals, moderately schistose. Schistosity core axis angle is 44°. In places the rock is felsic and could be Rhyolite or Dacite. Mineralisation is in the form of fine grained disseminated pyrite and pyrrhotite.	7% Sulphides								
52.0	54.0	Lenticular Pyrrhotite & Chalcopyrite, generally lenticular and parallel to the Schistosity, however remobilised it is fracture infilling locally.	3% Cpy.	1173	52.0	54.0	2'	.018	N.D.	Tr	
			3% Po.	1759	54.0	57.0	3'			Nil	
57.0	58.0	Dissem. grains of Chalcopyrite, assoc. with quartz stringers. The chalcopyrite is localised in quartz stringers and infills vug s within them. The country rock does not have any chalcopyrite.	4% cpy.	1174	57.0	58.0	1'	.027	.02	Tr	
59.0	60.0	Siliceous Rhyodacite: Well banded and schistose, fine grained, contains quartz stringers and is porphyrytic in places. Contains pod like to disseminated pyrite and pyrrhotite.	7 - 8 Sulphides	1175	58.0	60.0	2'	.061	.04	Tr	
60	107	MAFIC FLOW: Porphrytic in places. Takes felsic comp. in places Moderately Schistose									
60.0	61.0	Lenticular Chalcophyrite, Associated with quartz stringers, fracture infilling.	2% cpy.	1176	60.0	61.0	1'	.111	.04	Tr	
82.0	83.0	Chalcopyrite + Pyrrhotite associated with quartz stringers. Quartz stringer /core axis angle is 25°.	2% cpy; 6% Po.	1177	82.0	83.0	1'	.294	.12	.04	
				1762	83.0	85.0	2'			Tr	
85.0	86.0	Lenticular pyrrhotite, is parallel to quartz stringer.	8% Po.	1178	85.0	86.0	1'	.035	.04	.01	
99	101	Lenticular pyrrhotite + chalcopyrite associated with quartz veinlets. The chalcopyrite is localised along the walls of the vein. Quartz vein/core axis angle is 15°	3% cpy.	1179	99	101	2'	.260	.08	.01	
				1766	101.0	107.0	6.0'	.046		.01	
107	112.2	PORPHRYTIC RHYODACITE. Schistose and lenticular. Schistosity/core axis angle is 45°.									
107	112	Dissem. fine grained Pyrrhot te + Pyrite.	1% Po + Py	1180	107	112	5'	.013	.02	Tr	
				1767	112	116	4'	.005		Nil	



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Cu	ASSAYS Ag	ASSAYS Au
112.2	118.6	RHYOLITE: Highly siliceous, porphrytic in places, Contains numerous quartz veins. Schistosity core axis angle is 40°.								
116	118	Disseminated sulphides.	1% Sulphides	1181	116	118	2'	.009	.02	Tr
117.2	118.0	Almost barren quartz vein.								
118.6	178	INTERMEDIATE LAVA FLOW: varies in composition from mafic to felsic, contains numerous quartz veinlets. Contains lenticular pyrite + Pyrrhotite, especially associated with quartz veinlets.								
118	120	Lenticular Pyrrhotite + Chalcopyrite	2% cpy.	1182	118	120	2'	.082	.04	Tr
				1768	120	121	1'	.015		Tr
121	122	Lenticular Pyrrhotite + Chalcopyrite	1% cpy.	1183	121	122	1'	.049	.02	Tr
				1769	122	128	6'	.014		Tr
128	130	Pyrrhotite + Pyrite associated with quartz veinlet and country rock. Mineralisation is lenticular in country rock.	4 - 5% Sulphides	1184	128	130	2'	.065	.04	.01
152.0	154.0	Massive lenses of pyrrhotite + Some pyrite. Quartz veinlets.	10 - 12% Sulphides	1185	152	154	2'	.064	.08	.005
				1771	154	161	7'	.015		Tr
161	164	Lenticular pyrite & pyrrhotite + disseminated chalcopyrite	7 - 8% Po + Py 1% cpy.	1186	161	164	3'	.048	.02	.07
				1772	164	169	5'	.023	.02	.04
169	170	Lenticular Pyrrhotite, associated with quartz veinlet. Some disseminated chalcopyrite.	0.5% cpy.	1187	169	170	1'	.038	.02	.04
178	187	FELSIC VOLCANIC FLOW:		1773	170	178	8'	.017	.02	.01
178	182	Lenticular Pyrite + Pyrrhotite + Chalcopyrite, associate with quartz veinlet and country rock. Lenticle of Chalcopyrite in country rock makes an angle of 40° with core axis.	1% cpy.	1188	178	182	4'	.069	.04	.02
182	185	Massive lenses of Pyrrhotite & Pyrite some Chalcopyrite	10% Sulphides	1189	182	185	3'	.175	.08	.02
185	188	Lenticular chalcopyrite + sulphides	1% cpy.	1190	185	188	3'	.052	.04	.095
187	251	INTERMEDIATE LAVA FLOW: Fine grained, contains tiny lenticles of quartz. Little mineralisation. Mostly in quartz veins, however some present within country rock.		1774	188	192	4'	.025	.04	.01
192	194	Quartz vein/core axis angle is 30°. Lenticular Pyrrhotite + chalcopyrite localised within quartz stringer. Lenticular Pyrrhotite + chalcopyrite associated with quartz stringer.	2% cpy.	1191	192	194	2'	.045	.02	.01
				1775	194	200	6'	.017	.02	.005
200	202	Lenticular Pyrrhotite & Chalcopyrite within country rock, associated with greater silicification.	1% cpy.	1192	200	202	2'	.026	.04	.085
				1776	202	207	5'	.016	.04	.005
207	209	Lenticular Pyrite + Pyrrhotite, makes and angle of 0° with core axis, associated with felsic flow, heavily silicified.	1.5% cpy.	1193	207	209	2'	.038	.03	.005
				1177	209	214	5'	.013		.01
				1178	214	219	5'			Tr
				1179	219	224	5'	.023		Tr

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Cu	ASSAYS Ag	ASSAYS Au
224	227	Lenticular Pyrrhotite + pyrite, some Chalcopyrite. Chalcopyrite is associated with quartz stringers.	½% cpy.	1194	224	227	3'	.078	.04	Tr
227	230	Lenticular pyrite + pyrrhotite + Chalcopyrite. Chalcopyrite is associated with quartz stringers.	1% cpy.	1195	227	230	3'	.074	.04	Tr
230	232	Masses of lenticular Pyrrhotite + some pyrite - thin lenses of chalcopyrite some quartz stringers.	1% cpy.	1196	230	232	2'	.044	.02	Tr
				131	232	236	4'	.013		Tr
251	298	FELSIC LAVA FLOW: Highly siliceous. Numerous quartz veins. Some quartz veins make an angle of 0° to core axis.		132	236	241	5'			Tr
				136	241	246	5'			Tr
				134	246	251	5'			
251	253	Lenticular Pyrite + Pyrrhotite. Traces of Chalcopyrite.	0.5% cpy.	1197	251	253	2'	.044	.02	Tr
				135	253	260	7'			Nil
260	265	Disseminated Chalcopyrite + some pyrrhotite, within heavily silicified felsic flow.	1.5% cpy.	1198	260	262	2'	.016	.01	Tr
			1.5% cpy.	1199	262	265	3'	.013	N.D.	Tr
				136	265	270	5'			Tr
272	275	Lenticular Pyrrhotite + chalcopyrite, associated with quartz veinlets.. The Pyrrhotite lenses make an angle of 0° with core axis.	1 - 2% cpy.	1200	272	275	3'	.099	.06	.01
275	277	Lenticular pyrrhotite + some chalcopyrite	1% cpy.	1724	275	277	2'	.051	.02	Tr
				138	277	282	5'			Tr
282	284	Lenticular & dissem. Pyrrhotite + Chalcopyrite	1% cpy.	1725	282	284	2'	.078	.02	Tr
284	286	Disseminated + lenticular Pyrrhotite + Chalcopyrite	1% cpy.	1726	284	286	2'	.070	.02	.01
				139	286	293	7'			Tr
298	396	MAFIC LAVA FLOW: Fine grained, has numerous quartz veins and sulphide mineralisation is localised around these.		140	293	298	5'			Tr
298	299	Pyrrhotite + lenticular Chalcopyrite, Some associated with quartz veinlets	2 - 3% cpy.	1727	298	299	1'	.271	.26	0.94
				141	299	309	10'			Tr
309	311	Lenticular pyrite + chalcopyrite, associated with quartz stringers.	2 - 3% cpy.	1728	309	311	2'	.097	.04	0.135
				1780	311	314	3'	.037		.01
314	316	Lenticular pyrite + chalcopyrite, associated with quartz stringers.	2% cpy.	1729	314	316	2'	.027		Tr
				1781	316	320	4'	.072		Tr
320	322	Lenticular pyrrhotite + chalcopyrite, within country rock.	1 - 5% cpy.	1730	320	322	2'	.236	.08	0.26
322	323	Lenticular pyrrhotite + chalcopyrite, associated with quartz stringers.	5 - 6% cpy.	1731	322	323	1'	1.96	2.42	10.68
323	327	Lenticular Pyrrhotite & Chalcopyrite, associated with country rock.	3% cpy.	1732	323	327	4'	.308	.10	0.04
				1782	327	328	1'	.26		.02
328	330	Lenticular Pyrrhotite + Chalcopyrite, associated with country rock.	1% cpy	1733	328	330	2'	.212	.08	0.02
330	332	Barren quartz vein		1734	330	332	2'	.095	.04	0.005
332	335	Lenticular chalcopyrite + pyrrhotite, fracture infilling in places.	2% cpy.	1735	332	335	3'	.136	.04	Tr
335	337	Lenticular chalcopyrite within country rock.	2 - 3% cpy.	1736	335	337	2'	.233	.04	Tr
				142	337	345	8'	.018		Tr
345	347	Lenticular chalcopyrite	1% cpy.	1737	345	347	2'	.229	.04	Tr
347	348	Chalcopyrite associated with quartz vein.	4% cpy.	1738	347	348	1'	.360	.18	0.75
				143	348	355	7'	.15		.02

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Cu	ASSAYS Ag	ASSAYS Au
355	357	Lenticular Chalcopyrite associated with country rock.	1% cpy.	1739	355	357	2'	.199	.04	.01
				144	357	363	6'			Tr
363	365	Pyrrhotite + Pyrite some chalcopyrite, associated with quartz stringer	½% cpy.	1740	363	365	2'	.223	.06	.02
				145	365	373	8'			Tr
373	375	Lenticular Pyrrhotite, associated with quartz veinlet. No visible cpy.		1741	373	375	2'	.036		.005
375	378	Lenticular pyrrhotite, no visible chalcopyrite. Some quartz stringer.		1742	375	378	3'	.057		.005
				1783	378	381	3'	.044		Tr
381	383	Lenticular pyrrhotite + Chalcopyrite	3% cpy.	1743	381	383	2'	.115		.01
383	384	Lenticular Pyrrhotite + some chalcopyrite	1% cpy.	1744	383	384	1'	.053	.01	Tr
				146	384	394	10'			.01
395	396	Lenticular pyrrhotite + some chalcopyrite, associated with quartz veinlet + country rock.	0.5% cpy.	1745	395	396	1'	.175	.02	Tr
				1784	395	397	2'	.128	.06	.09
396	467	MAFIC LAVA FLOW: Generally dark grey in Colour, has numerous quartz veins, is moderately schistose, the rock is highly chloritic.. Mineralisation is lenticular to disseminated within the country rock, and consists mostly of pyrrhotite.. Biotite forms substantial part of the rock. 10 - 15% Biotite. Very little quartz, except in the form of late intruded as veins.		1785	397	400	3'	.085		.11
				1787	400	405	5'	.040		.02
				1786	405	410	5'	.061		.08
415	416	BIOTITE SCHIST: Predominance of biotite and felspar, well schistose. Core axis/schistosity angle is 70°. Contact with mafic flow above is sharp.		147	410	420	10'			Tr
408	411	Intermediate lava flow. Some quartz, concentration of biotite.								
430		Schistosity Core axis angle is 60°.								
421	427	Medium grained mafic flow. Takes the texture and comp. of microgabbro.								
396	398	Lenticular pyrrhotite within mafic flow. This section contains numerous quartz veinlets, which are about ¼" wide. The pyrrhotite and especially chalcopyrite is strongly associated with these veinlets. The quartz veinlets make an angle of 15° to the core Axis, indicating that the vein is dipping to the North. The chalcopyrite infills minor fractures. Epigenetic mineralisation.	7 - 8% Po 1% Cpy.							
398	399.6	Quartz vein. Mafic flow is present as remnant islands within the vein. Pyrrhotite and traces of chalcopyrite are present. Otherwise the quartz vein is barren. Quartz vein/core axis is 14°.								
399.6	400	Lenticular pyrrhotite + traces of chalcopyrite	0.5% cpy.							
405		Quartz vein 2" wide. Vein/schistosity contact is confirmable. Extension has taken place at right angles to schistosity.	2% Po. trace cpy.							
408	408.2	Quartz vein, contains some country rock. Chalcopyrite mineralisation is in cross fractures within vein. Greater mineralisation along the ways of the vein.	5% Po 1% cpy.							

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Cu	ASSAYS Ag	ASSAYS Au
410	415	Traces of dissem. Po + Py	1% sulphides							
416	420	Lenticular + pod like pyrrhotite.	2% Po							
420	430	Lenticular + pod like pyrrhotite	2% Po	148	420	430	10'			Nil
430		2" wide quartz veinlet. The veinlet itself is barren but the country rock adjacent to it contains tiny lenticles of cpy.		1788	430	431	1'	.029		Tr
				149	431	440	9'			Nil
				150	440	445	5'			Nil
445.5	446.6	Quartz vein contains country rock. Lenticular pyrrhotite + fracture infilled cpy. Vein/core axix angle is 15°. The Po lenticles are almost 11 to core axis.		1789	445	447	2'	.213	.04	.08
445	447		7-8% Po. 1% cpy.							
447	451.8	Lenticular Po	2% Po	1790	447	451	4'	.066	.02	.02
451.8	452.8	Quartz veinlet. Wall of vein to core axis angle is 20°. Po lenticles 11 to core axis.	3 - 4% Po.	1791	451	453	2'	.24	.08	.27
453	467	Lenticular pyrrhotite.	1 - 2% Po.	151	453	463	10'			.01
				152	463	467	4'			Tr
467	784	MAFIC LAVA FLOW: Dark green in colour, fine grained, contains some biotite rich sections.		1792	467	468	1'	.091	.05	Tr
				153	468	478	10'			.01
490		Schistosity/core axis angle is 35°								
495		" " " 20°								
540		Lent. Po / Core axis angle is 15°								
554		Schistosity/Core axis angle is 36°								
562		" " 36°								
615		" " 40°								
680		" " 50°								
690		" " 56°								
748		Schistosity/core axis angle is 40°								
516		Plygmatic quartz veinlet within mafic flow. Limb makes 35° to core axis.								
467.4		Py + Po within quartz vein - 1" wide Quartz vein/cure axis angle is 10°.	5% sulphides							
468	478	Lent. Po + Some Py	1 - 2% Sulphides							
478.3	478.5	Quartz veinlet makes zero degree angle with core axis. Some Py + Po. No cpy.		1793	478	480	2'	.056	.06	.04

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Cu	ASSAYS Ag	ASSAYS Au
479.7	480	Quartz veinlet parallel to Core axis. Some pyrite + pyrrhotite mineralisation.	3% sulphides	154	480	490	10'			Tr
				155	490	500	10'			.02
480	516.4	Lenticular Po, some dissem. Po. Po is localised within sheers that make 10 - 15° with core axis. Trace cpy.	2 - 3% sulphides	156	500	510	10'			Tr
516.4	516.8	Quartz veinlet	7% Po							
		Lenticular Po/core axis angle is 20°	1% cpy.	157	510	517	7'			Tr
				1794	517	518	1'	.121	.02	Tr
516.8	528.5		3% Po, ½% cpy.	158	518	528	10'	.06		Tr
				1795	528	530	2'	.025	.02	.03
528.5	529.3	Quartz veinlet, heavily mineralised, with Po, some cpy.	15% Po 1% cpy.							
529.3	541	Lenticular Po + some dissem. Po + Py. Trace cpy.	2% sulphides	159	530	540	10'			Tr
				160	540	550	10'			Tr
541	593.7		1% Po, ½% cpy, + Py	161	550	560	10'			.05
				162	560	570	10'			Tr
593.7	606	Porphrytic Rhyolite: very fine grained ground mass. Has dissem. grains of randomly orientated felspar grains. Contains 1' section of biotite rich tuff.		163	570	580	10'			Nil
				164	580	590	10'			Tr
			1% Po	165	590	600	10'			Nil
593	613			166	600	610	10'			Nil
				167	610	620	10'			Nil
626	627	Quartz vein/core axis angle 0°. No mineralisation.		168	620	630	10'			Nil
				169	630	640	10'			.02
676	680	Porphrytic Rhyolite. Contains traces of Pyrrhotite.		170	640	650	10'			Tr
				171	650	660	10'			Tr
706.8		1" wide quartz vein. Py + Po mineralisation along the wall of the vein.		172	660	670	10'			.01
				173	670	680	10'			Nil
709.4		1" wide quartz vein. Po mineralisation along the wall of the vein.		174	680	690	10'			Tr
		Vein/core axis angle is 15°. Vein is confirmable to schistosity.		175,176	690	706	16'			Nil
		Extension at right angles to schistosity.		1796	706	707	1'	.025	.02	Nil
				1797	707	709	2'			Nil
736.2	736.4	Quartz vein/core axis angle is 20°. Schistosity - Quartz vein wall are parallel. No mineralisation.		1798	709	710	1'	.019	.02	Nil
				177	710	720	10'			Nil
				178	720	730	10'			Tr
738.5	738.7	Quartz veinlet/core axis angle is 25°. Wall is parallel to schistosity.		179-181	730	755	25'			Nil
Po		Po mineralisation along the wall of the vein.								
755.4	755.6	Quartz veinlet - Po + Py mineralisation. Quartz/vein /core axis angle is 20°. It is parallel to schistosity.		1800	755	757	2'	.039	.04	Nil
				182	757	760	3'			Nil
				183	760	770	10'			Nil
780.3	780.6	Milky quartz vein, barren of mineralisation.		184	770	775	5'			Nil
				123	775	776	1'	.052	.02	Tr
775.6	776.0	Heavy Py + Po mineralisation, associated with quartz stringers	10% Py + Po.	185	776	784	8'			Tr
		The quartz stringers + Po & Py lenticles make an angle of 20° to core axis. No visible cpy.		186	784	790	6'			.03
				187	790	800	10'			Tr
				188	800	810	10'			Tr

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

PROPERTY DETOUR LAKE HOLE NO. DLO/74/38/3 Page 7

FOOTAGE From	FOOTAGE To	DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
776	810	Fine to medium grained schistose mafic flow, locally rich in biotite.						
810		END OF HOLE.						

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

PROPERTY	Detour Lakes	LATITUDE	197 + 40 N	STARTED	November 28, 1974	DIP TEST Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	DLO-74-38-4	DEPARTURE	195 + 40 E	FINISHED	December 3, 1974	0	43	600	51°		
BEARING	360°	ELEVATION		LENGTH	826	200	48°	800	45°		
DIP-COLLAR	- 43°	SECTION		LOGGED BY	R. Johnson	400	50°	826	48°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	To	Length	ASSAYS Au	Ag	Cu%
0	90	Overburden								
90	116	Mafic Lava; green to blue-green; schistosity o - mod. at 50° to core axis; weakly magnetic (due to fine po); med. fine gr; 70-90% green mafics (mainly chl. with some amph.), 5 - 25% feld., 5 - 10% bio; 3 - 5% sulphides mainly po with tr - very minor cpy as fine diss gr and massive 3 - 10 mm pods // schistosity; few narrow barren qtz veins at 30° - 10° to core.	few narrow barren qtz veins	801	90	100	10	Tr		
				802	100	110	10	Tr		
				803	110	116	6	Tr		
			3-5%S(mainly Po, minor cpy)	804	116	120	4	Tr		
				805	120	125	5	Tr		
				806	125	30	5	0.01		
				807	130	135	5	0.01		
116	145	Altered mafic lava; brown to green-brown; good schistosity at 60° to core axis; fine gr; similar mineralogy to above but an increase in bio. content to 15% (up to 30-40% at 117-120), + feld to 25% - 45% and a decrease in chl. content; section with highest bio content generally near qtz veins (metasomatic alteration?); grades into upper and lower rocks with decrease in bio; 3-10% sulphides (80% po 20% cpy, minor py) as fine diss. gr, small massive pods and few veinlets and stringers at 117-120'; minor $CaCO_3$ veins with 1 (1 cm wide) at 133.7 at 20° to core 70% calcit 30% qtz & 5% py; qtz. veins at 118.9-119.5, 126.7-127.2, 128.8 - 129.5, 140.1 - 140.6 roughly // schistosity carrying minor - 15% sulphides (90% po, 10% py as pods & veinlets interstitial to qtz grains)	3 - 10% S (80% po, 20% cpy minor py)	808	135	140	5	Tr		
				809	140	145	5	Tr		
			4 6" qtz veins	810	145	155	10	Tr		
				811	155	165	10	Tr		
				812	165	170	5	0.005		
				813	170	175	5	Tr		
				814	175	180	5	Tr		
				815	180	185	5	%Tr		
				816	185	190	5	0.005		
				817	190	195	5	0.005		0.063
				818	195	200	5	Tr		0.064
				819	200	205	5	Tr		0.030
145	220.7	Mafic lava; as at 90' with a sl. higher feldspar content and a few 0.1 - 1' med fine gr. biotite rich sections; schistosity poor to O at 55° to core axis; calcite stringer at all angles to core & 1 - 2% calcite filled vugs (2 - 4 mm); 0.5% 3-4mm white qtz or feld gr in places; 1 - 5% average sulphides up to 6-7% at 175-185', 90% po, 10% cpy, as massive pods and diss gr. along fractures and rare grains in $CaCO_3$; few, narrow min. (2 - 5% po + cpy combined with po:cpy = 9:1) qtz veins at about 30° to core, at 166.5 & 178.6 and silicifieds zones at 198.5 - 198.8, 206.7 - 207.9 and 225.8 - 227.1	av. 1-5%S up to 6-7% at 175 - 185' 90% po, 10% cpy)	820	205	210	5	0.055		0.081
				321	210	215	5	0.02		0.085
				822	215	220	5	0.01		0.047
				823	220	225	5	0.01		0.015
			few qtz veins	824	225	230	5	Tr		0.010
				825	230	235	5	Tr		0.028
			3 1' wide silicified zones	826	235	240	5	0.005		0.055
				827	240	243	3	0.005		0.060
				828	243	245	2	0.01		0.107
				829	245	250	5	Tr		0.013
220.7	227.2	Intermediate (Rhyodacite) Lava; dark grey, upper contact at 50° lower at 55° to core axis; hardness 5.5; 0-5% elongate, 2-3mm qtz or feld "eyes"; ground mass fine gr; mafic incl. or band at 225.6 - 226.5 with sharp contacts at 45 - 50° to core axis.		830	250	255	5	0.03		0.063
				831	255	260	5	Tr		0.019
				832	260	265	5	Tr		0.013

FOOTAGE From	FOOTAGE To	DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	Ag	Cu	Swastika Lab Check Au
227.2	257.7	Mafic lava; similar to that at 145'; green to greyish green; 60% mafics (hbld + chl + minor bio) 40% feld, minor calcite, possible core qtz; med. gr. in general with come (up to 40%) coarse, elongate amphibole gr. in places possibly lapilli tuff; schistosity poorly developed, at 50° to core axis; 2-3% sulphides (90% po, 10% cpy, minor py) as at 145'; mineralized qtz veins (at 40° to core axis) at 242.3 - 242.7, 252.3 - 252.4, 255.5-255.6, all carrying 7 - 15% S (70% po, 30% cpy)	2 - 3% S (90% po, 10% cpy) 3 - 4 qtz veins of significant width	833	265	270	5	0.01		0.010	
				834	270	275	5	0.01		0.018	
				835	275	280	5	tr		0.042	
				836	280	285	5	tr		0.021	
				837	285	290	5	0.335	0.06	0.038	0.40
				838	290	295	5	tr		0.017	
				839	295	300	5	0.01		0.023	
				840	300	305	5	0.02		0.024	
257.7	260.1	Intermediate (Rhyodacite) Volcanic likely Tuff; schistosity mod. at 60° to core; siliceous and fine gr with some identifyable bio up to 15% in places; lower contact at 60° to core axis.		841	305	310	5	0.03		0.069	
				842	310	315	5	0.02		0.051	
				843	315	320	5	0.01		0.031	
				844	320	325	5	0.005		0.038	
260.1	262.4	Mafic Lava and Minor Tuff; as at 227.2		845	325	330	5	tr		0.019	
				846	330	334	4	tr		0.011	
262.4	268	Intermediate (Dacite - Rhyodacite) Volcanic likely Tuff; dark grey; schistosity at 60 to core axis; similar to at 257.7 but less bio; minor diss. S	minor S	847	334	337	3	0.005		0.090	
				848	337	340	3	tr		0.070	
				849	340	345	5	tr		0.012	
				850	345	350	5	tr		0.014	
268	458.4	Mafic Lava and Minor Tuff; similar to at 227.2 generally massive but mod schistosity in places, at 45 - 50° to core axis 55° at 395' med fine or becoming coarser gr. with depth eg 290-310, likely lapilli tuff; where visible mineralogy is 60-70% mafics (chl. hbld), 30 - 40% feld, some section (eg 334 - 340, 390 - 405) contain bands of 50% - 60% biotite developing a crudly bedded appearance but likely an alteration feature; 0.2' of fine gr. dacitic material with sharp contacts at 55° to core at 382' likely narrow dike; minor calcite veins; up to 3-5% sulphides in scattered places, mainly po, less py, minor cpy os pods and diss. gr; large barren qtz. vein at 363.8 - 364.4; mineralized qtz veins (generally at 30-45° to core) at 275', 277.4-277.8, 307, 310, 314, 321.2, several small ones at 334-340, 353, 321.2, 391 at 15° to core), 424, 445, 454-455 all carry mainly po with less cpy.	3-5% S (mainly po, less py, minor cpy) several scattered qtz veins of significant width	851	350	355	5	0.01		0.042	
				852	355	360	5	tr		0.018	
				853	360	363	3	tr		0.021	
				854	363	365	2	tr		0.012	
				855	365	370	5	tr		0.012	
				856	370	375	5	0.05		0.010	
				857	375	380	5	tr		0.040	
				858	380	390	10	tr		0.015	
				859	390	395	5	tr		0.070	
				860	395	400	4	tr		0.021	
				861	400	405	5	tr		0.027	
				862	405	410	5	tr		0.007	
				863	410	415	5	tr		0.014	
				864	415	420	5	tr		0.024	
458.4	461.7	Intermediate (Dacite) Lava; contacts sharp upper at 50° lower at 15°; mod schistosity at 50° to core; dark grey to grey-green; fine gr; 20% bio, 15-20% chl., 70% silicates (likely feld); minor diss py	minor py	865	420	425	5	0.005		0.037	
				866	425	430	5	0.005		0.013	
				867	430	435	5	tr		0.026	
				868	435	440	5	tr		0.018	
461.7	514.5	Mafic Lava and minor Tuff; as at 268'; 1% diss. sulphides (95% po, 5% cpy) as diss. gr and rare pods and veins; 2% S (50% po, 50% cpy) in narrow calcite vein at 75° to core at 501.5; min qtz veins at 478.2 - 478.5, 495, 503.5 - 504.2 generally at 35° to core axis.	1% S 95% po, 5% cpy)	869	440	445	5	tr		0.012	
				870	445	450	5	tr		0.020	
				871	450	454	4	tr		0.016	
				872	454	456	2	0.005		0.062	
				873	456	460	4	Nil		0.017	
514.5	521.4	Altered and silicified mafic; mainly 60% bio, 40% feld with many (25 - 30%) section chl. replaces biotite giving a banded appearance; banding has sharply gradational contacts at 65-80° to core axis; could be an Inter-Tuff rather than selective alteration; some places silicified; 7 - 10% S (90% po, 7% py, 3% cpy); very minor, narrow qtz veining at 50 - 60° to core axis.		874	460	465	5	Nil		0.008	
				875	465	470	5	Nil		0.027	
				876	470	475	5	Nil		0.015	
				877	475	478	3	tr		0.022	
				878	478	480	2	tr		0.066	
				879	480	485	5	tr		0.060	
				880	485	490	5	5		0.038	

FOOTAGE From	FOOTAGE To	DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag	ASSAYS Cu	ASSAYS ~~Swastika Lab~~ Au
521.4	570	Mafic Lava; med gr. pistachio green; several narrow bio rich sections with good schistosity at 70° to core asix; 1-2% S. as find diss. gr. rare massive pods and as veneers along fractures, 90% po, 10% cpy; min veins (20% po - 2-5% cpy) at 531.5, several at 544.8 - 545.8, 552.4, 555.7, 569.5, same at 15° to core but average is 45 - 50° to core.	1 - 2% S 90% po, 10% cpy) several narrow qtz veins.	881	490	495	5	tr		0.043	
				882	495	500	5	tr		0.038	
				883	500	505	5	tr		0.081	
				884	505	510	5	tr		0.023	
				885	510	515	5	0.01		0.052	
				886	515	520	5	tr		0.104	
570	826	Mafic Lava and Tuff; dark green; finer gr. and more massive than above becoming coarser gr. at about 645'; some sections mod - good schistosity (tuff?) at 50° at 645, 55° at 680 and 60° to core axis at 757° & 826' generally best developed below 650'; mainly chl with less feld and minor bio; 2-3% coarse, rounded, feld gr at 678' - 683.8' & 687.7 - 689', likely a tuff; bio is common from 780 -826 (likely alteration but may be inter tuff; S/ mag. due to fine diss. po; 2 - 7% S (15% at 030-680) average 3% (70% po, 30% cpy) as diss gr., rare massive pods and veinlets and 2 massive 2" veins at low angle to core at 602.1 & 631; a barren $CaCO_3$ + quartz vein at 601.3 - 601.9; qtz veins and silicified sections at 585.6 - 585.9, 594.5 - 594.8, 597.8, 606, 609.5, 612, 614, 616.6 - 616.0 (at 35-45° to core), 627-629, 633.4, 635.1 - 635.7 (at 35° to core) 640 - 640.5, 641.5, 659.8 - 661.2, 664, 673.5 - 675, 683.8 - 684.7 (at 30° & 55° contacts), 698.5 - 699, 706 - 707.3 (at 25° to core) 751, 753.8 - 754.8, 755.7 - 757 (at 50° to core), 763.5, 768, 768.5, 772.5 - 772.9 (at 40° to core), 778.8 (at 30° to core) 784 (at 50° to core), 785 - 785.5 794.8, 798.6 - 799.8 (at 70° to core), 803 and 804; most veins are narrow and mineralized (20% total S 70% po, 30% cpy) and average a 40-45° angle to core axis.		887	520	525	5	tr		0.096	
				888	525	530	5	0.03		0.073	
				889	530	535	5	0.05			
				890	535	540	5	0.02			
				891	540	544	4	tr			
				892	544	546	2	tr			
				893	546	550	4	0.01			0.01
				894	550	552	2	1.13	0.56	0.96	1.03
				895	552	555	3	0.11	0.16	0.17	0.15
				896	555	560	5	0.26	0.18	0.08	0.24
				897	560	565	5	Tr	0.03	0.033	0.005
				898	565	570	5	Tr	0.03	0.051	0.005
				899	570	575	5	0.02	0.01	0.093	0.02
				900	575	580	5	0.01	0.01	0.035	0.005
				601	580	585	5	0.005	0.02	0.098	0.005
				602	585	590	5	0.75	0.07	0.13	0.87
				603	590	595	5	Tr	0.02	0.069	0.005
				604	595	600	5	Tr	0.06	0.074	0.005
				605	600	603	3	0.02	0.04	0.121	0.02
				606	603	605	2	0.12	0.05	0.25	0.14
				607	605	610	5	0.01	0.02	0.098	0.01
				608	610	615	5	2.71	0.38	0.42	2.85
				609	615	618	3	0.11	0.10	0.127	0.33
				610	618	625	7	0.39	0.04	0.07	0.41
				611	625	630	5	0.14	0.05	0.27	0.12
				612	630	635	5	0.01	0.03	0.062	0.01
				613	635	637	2	0.03	0.06	0.102	0.05
				614	637	639	2	0.02	0.02	0.040	0.01
				615	639	643	4	0.90	0.18	0.34	0.93
				616	643	650	7	0.02	0.02	0.034	0.02
				617	650	655	5	0.02	0.04	0.081	0.03
				618	655	659	4	0.01	0.04	0.31	0.01
				619	659	661	2	0.30	0.06	0.16	0.31
				620	661	665	4	0.28	0.10	0.39	0.25
				621	665	670	5	0.06	0.05	0.09	0.15
				622	670	673	3	0.04	0.04	0.17	0.025
				623	673	676	3	0.03	0.14	0.48	0.06
				624	676	680	4	0.08	0.04	0.07	0.04
				625	680	683	3	Tr	0.02	0.047	0.005
				626	683	685	2	0.05	0.03	0.14	0.03
				627	685	690	5	0.04	0.08	0.11	0.06
				628	690	695	5	0.02	0.06	0.092	
825		END OF HOLE									

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

PROPERTY DETOUR LAKE HOLE NO. DLO-38-4 Page 4

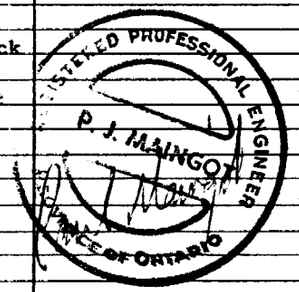
FOOTAGE From	FOOTAGE To	DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag	ASSAYS Cu	Swastika Lab Check Au
				629	695	700	5	0.02	0.02	0.11	
				630	700	706	6	0.09	0.10	0.058	
				631	706	708	2	0.10	0.12	0.033	
				632	708	710	2	0.02			
				633	710	715	5	0.02			
				634	715	720	5	0.03			
				635	720	725	5	0.03			
				636	725	730	5	0.03			
				637	730	735	5	0.03			
				638	735	740	5	0.02			

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

				DIP TEST					
PROPERTY	Detour Lake	LATITUDE	L200E	STARTED	Dec. 7, 1974	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	38-5	DEPARTURE	197+00N	FINISHED	Jan 10, 1975	200'	49° 41°	800'	48° 40°		
BEARING	North (0°)	ELEVATION		LENGTH	835.0	400'	53° 45	835'	49° 41°		
DIP-COLLAR	50°	SECTION		LOGGED BY	W. Melnyk	600'	53° 45				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	160.0	Casing	
160.0	185.5	Basic Intrusive - Medium grained, schistose rock mineralogically composed of actinolite and chlorite. On the core surface the rock is a pale green color and on split surface varies from dark-green to dark-grey. Felty nature of this rock unit is a distinct characteristic. The intrusive is weak - moderately magnetic over its entire length in this hole. Feldspar lineation (banding) is much more prominent near 185', near the bottom contact. Rock is coarser grained and schistosity is very nearly 90°. Hardness ≃ 2.5 Schistosity at 162' - 50° W.C.A. at 180' - 40° W.C.A. at 185.5' - quartz vein, ½" wide - 40° W.C.A. Tr. Po.	
185.5	195.5	Intermediate Tuff - Fine - medium grained, blackish-brown silicic rock. Biotite contributes to brown character of rock. Mineralization occurs and consists of finely disseminated pyrrhotite approximately 1% over entire length. Pyrite occurs as smears along fractures. Hardness ≃ 5.5. Contact with above section is approx. 50° - iregular.	
195.5	202.0	Basic Intrusive - Same as 160.0' - 185.5'. Soft felty rock, dark-green on core surface, dark-grey on broken surface, medium to coarse grained and magnetic. No mineralization present. Schistosity at 200' - 50° W.C.A.	
202.0	203.0	Felsic Tuff - Greyish-white, fine-grained silicious rock, barren. Rock is massive, no discernable structure. Upper contact is very sharp at 50° W.C.A. The above Intrusive section exhibits a ½" hornfels contact with the Felsic Tuff.	

W.C.A. - with core axis; Tr po - Trace pyrrhotite.



SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag
40					
401	160.0	165.0	5.0	Tr	0.03
402	165.0	170.0	5.0	Tr	0.03
403	170.0	175.0	5.0	Tr	0.03
404	175.0	180.0	5.0	Nil	0.03
405	180.0	185.0	5.0	Tr	0.03
406	185.0	190.0	5.0	Tr	0.02
407	190.0	195.0	5.0	Tr	0.04
408	195.0	200.0	5.0	Tr	0.04
409	200.0	205.0	5.0	Tr	0.02
410	205.0	210.0	5.0	Tr	0.02
411	210.0	215.0	5.0	Tr	0.04
412	215.0	220.0	5.0	Tr	0.02
413	220.0	225.0	5.0	0.005	0.03
414	225.0	230.	5.0	0.005	0.03
415	230.0	235.0	5.0	0.005	0.01
416	235.0	240.0	5.0	0.01	0.05
417	240.0	245.0	5.0	Nil	0.03
418	245.0	250.0	5.0	0.005	0.03
419	250.0	255.0	5.0	0.005	0.05
420	255.0	260.0	5.0	Tr	0.04
421	260.0	265.0	5.0	0.01	0.04
422	265.0	270.0	5.0	0.02	0.07
423	270.0	275.0	5.0	0.02	0.06
424	275.0	280.0	5.0	0.02	0.13
425	280.0	285.0	5.0	0.005	0.02
426	285.0	290.0	5.0	0.01	0.02
427	290.0	295.0	5.0	0.005	0.04
428	295.0	300.0	5.0	Tr	0.05
429	300.0	305.0	5.0	Tr	0.05
430	305.0	310.0	5.0	Tr	0.04
431	310.0	315.0	5.0	Tr	0.02
432	315.0	320.0	5.0	Tr	0.03

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS				
203.0	327.5	Basic Intrusive - Same as 160.0 - 185.5'. Felty, soft, dark-green rock, very prominently schistose - Feldspar lineation is present.through section. magnetic		433	320.0	327.5	7.5	Tr	0.03			
				434	327.5	335.0	7.5	Tr	0.03			
				435	335.0	340.0	5.0	Tr	0.05			
		Hardness ≃ 3.0		436	340.0	345.0	5.0	0.005	0.04			
				437	345.0	350.0	5.0	Tr	0.04			
		at 210.0 - Schistosity 60° W.C.A.		438	350.0	354.5	4.5	Tr	0.04			
		at 212.0 - 3/4 silicified and carbonitized zone containing 10% po. and 1% Cpy at 45° W.C.A.		439	354.5	360.5	6.0	Tr	0.01			
				440	360.5	365.0	4.5	0.055	0.03			
		at 219.5 - 1/8" intermittent veinlet of po and trace cpy at 50° W.C.A.		441	365.0	370.0	5.0	0.01	0.02			
		at 250.0 - schistosity 60° W.C.A.		442	370.0	375.0	5.0	0.02	0.01			
		at 257.0 - very narrow 1/8 intermittent bands of silicification over 1.0 parallel to schistosity.		443	375.0	380.0	5.0	Tr	0.02			
				444	380.0	385.0	5.0	0.005	0.01			
		at 269.0 - 1 1/2 band of silicification containing .5% Cpy and 2% po.		445	385.0	390.0	5.0	0.01	0.01			
		at 277.0 - 280.0 - scattered veinlets of Po. With disseminated Po and Cpy, 1% po and <.5% Cpy.		446	390.0	395.0	5.0	0.01	0.01			
				447	395.0	399.0	4.0	0.005	0.01			
		at 268.0 - 280.0 - Intrusive weakly mineralized with po and cpy.		448	399.0	405.0	6.0	0.01	0.07			
		at 260 - 262.0 - Discoloration of Intrusive - banded, fine grained, black on core surface. Not mineralized.		449	405.0	410.0	5.0	Tr	0.03			
				450	410.0	415.0	5.0	Tr	0.02			
		Hardness ≃ 3.5		451	415.0	420.0	5.0	Tr	0.01			
				452	420.0	425.0	5.0	Tr	0.03			
327.5	340.0	Intermediate Tuff - medium to fine grained dark brownish - black rock,		453	425.0	429.5	4.5	Tr	0.02			
		silicic, brown biotite present. Rock is massive, exhibits no structure.		454	429.5	440.0	10.5	Tr	0.01			
		Section is barren except for feldspar veinlets which contain sparse		455	440.0	448.0	8.0	Tr	ND			
		blebs at po. Fracturing and veinlets are parallel to core axis.		456	448.0	455.0	7.0	0.01	0.02			
		Hardness ≃ 5.5		457	455.0	465.0	10.0	0.05	0.03			
		at 340.0 - 3/4" quartz vein, barren, at 50° W.C.A.		458	465.0	475.0	10.0	0.29	0.08			
				459	475.0	485.0	10.0	0.02	0.04			
				460	485.0	497.0	12.0	0.02	0.02			
340.0	344.5	Mix zone of Basic Intrusive and Basic Lava. Color varying from light		461	497.0	505.0	8.0	Tr	0.01			
		to dark green, intermediate zones of fine and coarse grained rock.		462	505.0	514.5	9.5	Tr	0.01			
		Schistose. Biotite rich bands at 342' at 20° W.C.A. possibly bedding.		463	514.5	521.5	7.0	Tr	Nd			
				464	521.5	532.5	11.0	Tr	0.01			
344.5	353.5	Basic Intrusive - Same as 160.0' - 185.5', Feldspar lineation,		465	532.5	543.0	10.5	0.005	0.01			
		schistose, magnetic.		466	543.0	553.0	10.0	Tr	0.02			
		349.0 - 350.0' and 351.0' - 352.0' gauge, soft non crystalline rock,		467	553.0	563.0	10.0	0.06	0.07			
		light green color, clayey.		468	563.0	571.0	8.0	0.005	0.01			
				469	571.0	579.0	8.0	Tr	0.01			
				470	579.0	589.0	10.0	Nil	0.02			
353.5	360.5	Intermediate Tuff - Brownish - black, silicic rock, biotite rich,		471	589.0	599.0	10.0	Tr	0.02			
		weakly mineralized with finely disseminated po and occasional pods of		472	599.0	609.0	10.0	Nil	0.02			
		po. Smears of pyrite along fractures.		473	609.0	615.0	6.0	Tr	0.02			
		at 355.0' quartz vein at 60° W.C.A.		474	615.0	625.0	10.0	Tr	0.02			
				475	625.0	632.0	7.0	Nil	0.01			
360.5	384.5	Basic Intrusive - Same as 160.0' - 185.5', barren, sparce		476	632.0	637.0	5.0	Nil	0.02			
		Hardness ≃ 3.5		477	637.0	644.0	7.0	Nil	ND			
				478	644.0	655.0	11.0	Nil	0.01			

FOOTAGE From	FOOTAGE To	DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS				
384.5	399.0	Basic Lava - Dark brown to black fine grained, dense, massive rock, scattered pods of po through section. Hardness ≃ 5.5 at 387.0' - Quartz vein ¼" at 40° W.C.A. barren.		479	655.0	665.0	10.0	Nil	0.01			
				480	665.0	675.0	10.0	Nil	0.01			
				481	675.0	685.0	10.0	Nil	0.01			
				482	685.0	695.0	10.0	Nil	0.02			
				483	695.0	705.0	10.0	Tr	0.02			
399.0	430.0	Basic Intrusive - Same as 160' - 185.5'. Sparse po and cpy mineralization in form of 'blebs' in section 399.0' - 408.5'.		484	705.0	715.0	10.0	Nil	0.01			
				485	715.0	725.0	10.0	Nil	0.02			
				486	725.0	735.0	10.0	Tr	0.02			
430.0	433.0	Intermediate Tuff - very dark brown - black rock, barren. Vague feldspar lineation present. Some biotite present. Hardness ≃ 5.5. at 432.5' - Quartz vein ½" at 20° W.C.A., trace po.		487	735.0	745.0	10.0	Tr	0.01			
				488	745.0	755.0	10.0	Tr	0.03			
				489	755.0	765.0	10.0	0.01	0.04			
				490	765.0	775.0	10.0	0.045	0.04	0.115		
				491	775.0	785.0	10.0	0.02	0.06	0.118		
433.0	448.0	Felsic Tuff - Greyish - white silicic rock. Shadowy phenocrysts of feldspar (?) form crude lineations approximately 70 W.C.A. (bedding?) Disseminated Po throughout section 1-2%. at 441.0' - quartz vein ¼" at 20° W.C.A. Trace po and py. at 443.0' - quartz vein ½" irregular boundary trace po.		492	785.0	795.0	10.0	Tr	0.04	0.111		
				493	795.0	805.0	10.0	0.01	0.05	0.107		
				494	805.0	815.0	10.0	Nil	0.03	0.047		
				495	815.0	820.0	5.0	0.005	0.04	0.077		
				496	820.0	825.0	5.0	0.02	0.10	0.234		
				497	825.0	830.0	5.0	0.005	0.06	0.134		
448.0	497.0	Basic Intrusive - same as 160.0' - 185.5' at 495.0 - 497.0. core is ground-up in this 2.0' section. Some pieces of rock are of a hornfels type (very fine grained, blocks H≃6.0, barren).		498	830.0	835.0	5.0	0.005	0.13	0.345		
497.0	514.5	Basic Intrusive - Dark green to black rock on core surface and dark grey on broken surface, medium grained. Prominant feldspar lineation at 50° W.C.A. Hardness ≃ 3.5										
514.5	521.5	Felsic Tuff - Greyish-white, fine-grained rock. Diffuse phenocrysts of feldspar, no discernable bedding, rock is massive. Mineralization consists of disseminated pyrite (1-2%). Fracturing in this section is parallel to core axis. Upper and lower contacts are irregular but appear to be at a high angle, approximately 980°, W.C.A.										
521.5	524.5	Basic Tuff - Well beded tuff varying in colour from dark brown to dark green and increasing in silicious character toward bottom of interval. Bedding is at 75° W.C.A. Pyrite content increases to 5% with silicious increase of rock.										
524.5	527.5	Felsic Tuff: Same as 514.5' - 521.5'. Possibly vague presence of bedding at high angle to core axis. Fracturing is parallel W.C.A. Trace of disseminated pyrite in interval.										

FOOTAGE From	FOOTAGE To	DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
527.5	532.5	Basic Intrusive - Dark-green rock, schistose - 65° W.C.A., feldspar laminations prominent, barren. Hardness ≃ 3.5.						
532.5'	543.0'	Felsic Tuff - Same as 514.5' - 521.5'. Feldspar phenocrysts are slightly more discernable in this section but bedding is still vague and ill-defined. Trace of pyrite in rock mainly occurs as smears along fractures. at 533.0 - Quartz vein, ¼" at 65° W.C.A. Barren.						
543.0	571.0	Basic Intrusive - Rock is dark - green on core surface; dark grey to black on split surface. Rock is characterised by lineations of feldspars in the main part which vary from 65° - 85° W.C.A. Hardness ≃ 3.5 at 569.5' - 570.0' - 6" of mineralization Po - 10% and Cpy - 1.0%.						
571.0	579.0	Felsic Tuff - Same as 514.5' - 521.5'. Feldspars are fairly well pronounced. Pyrite constitutes about 3% of rock throughout length of interval. at 578.5' - Quartz vein ¼" at 10° W.C.A., barren. at 575' - 576' - 1.0 feet of intermediate tuff, irregular boundaries.						
579.0	587.0	Intermediate Tuff - Massive, dark-brown rock containing approximately 3% pyrite. Biotite present. Hardness ≃ 5.5 at 584.0' - Quartz vein ¼" at 75° W.C.A., barren.						
587.0	590.0	Felsic Tuff - Same as 514.5' - 521.5' contains large inclusions of intermediate tuff material.						
590.0	598.5	Intermediate Tuff - contains disseminated pyrite throughout to 7%. Hardness ≃ 5.5. 594.5' - 595.5' - section of silicious material irregularly bounded also containing 5-7% pyrite.						
598.5	600.5	Felsic and Intermediate Tuff mixture. Felsic Tuff is characterized by its white colour and regular streaks of a black mafic mineral.						
600.5	615.0	Intermediate Tuff - Dark-brown, fine grained rock, homogeneous, pyritized 5-7%. Bedding near top and bottom of section. Biotite present. Bedding at 602' - 80° W.C.A. at 613' - 75° W.C.A. (Vague)						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
615.0	632.0	Felsic Tuff - White, silicic, bedded tuff. Bedding at 65° W.C.A. at 623.5. Sulfides consist of pyrite ≅ 5%. 626.4' - 627.0' .6' inclusion of basic tuff.						
632.0	637.0	Basic Lava - Barren, dark green, vaguely bedded, homogeneous rock. Minutely disseminated py or po through section. Hardness ≅ 5.0 Bedding at 634.5' at 70° W.C.A. Contact with above tuff is gradational as is the bottom.						
637.0	644.0	Cherty Tuff - white, siliceous, cherty, homogeneous rock with disseminated pyrite throughout length. Occasional veinlets of feldspar in unit at very small angles with core axis. First appearance in hole 38-6 a of orange secondary K-feldspar in veinlets. Contact with lower unit at 30° W.C.A.						
644.0	749.0	Basic Intrusive - Rock is characterized by anhedral phenocrysts of pyroxene up to ¼" in diameter. On core surface the rock is dark-green to dark-grey in color, and has a distinct mottled appearance because of the presence of the phenocrysts of pyroxene. Not magnetic, hot mineralized. 644.0' - 665.0': contact zone, fine grained, schistose, non-magnetic and barren. Schistosity varies from 70° W.C.A. to perpendicular with core axis. 665.0' - 749.0': Rock is homogeneous and massive. Principle constituents are phenocrysts of pyroxene at set in a matrix of chlorite and serpentine, with plagioclase making erratic appearances.						
749.0	835.0	Basic Lava 749.0' - 751.0': fine grained, black volcanic rock, mineralized with Po (2%) and Py (2%). Hardness ≅ 6.0. 751.0' - 753.5': Schistose, fine grained, green rock, barren. Hardness ≅ 4.0. Schistosity at 60° W.C.A. 753.5' - 756.0': Same as 749.0' - 751.0'. 756.0' - 761.0': Basic Lava. Rock is medium grained, dark green in colour and soft (H 3.0). Scattered disseminated po and py. 761.0' - 773.0': Same as 751.0' - 753.5'. Rock is fine grained, mainly dark green and is locally black. Hardness 6.5. Mineralization consists of disseminated Po and Py through section, less than 5% combined. at 767.0': .4' section of blotchy silicious material. Blotchy appearance caused by plagioclase phenocrysts and specks of chlorite. at 769.0': ½" veinlet of pyrite and pyrrhotite along silid silicification zone at 30° W.C.A.						

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

PROPERTY DETOUR LAKE HOLE NO. 38-5 Page 6

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
		at 771.0': 1/8" smear along fracture of pyrite and chalcopyrite at 10° W.C.A.						
		at 772.5': 3/8" quartz vein extensively replaced by Po, and minor Cpy and Py.						
		773' - 835': Basic Lava. Volcanic pile of minor breccia and extensive pillowing. Sulfide mineralization picks up also.						
		775.0' - 777.0': Blotchy silicious inclusion, weakly mineralized with pyrite.						
		777.0' - 779.0': flow top breccia.						
		779.0' - 835.0': medium grained, light-green volcanic, non-homogeneous, with numerous silicification zones. Mineralization is spotty and consists of veinlets and pods of po and cpy. Section contains many short (1" - 2") zones of coarse, brown biotite marking boundarys of pillows.						
		Mineralization: 777.0': 2", Po - 15%, Cpy - 1% 783.0': 4", Po - 15%, Cpy - 3% 787.0': 7", Po - 20%, Cpy - 2% 800.0': 1.5', Po - 7%, Cpy - Tr. 822.0' - 825.0': 3.0', Po - 5%, Cpy - .5%						
	835.0'	END OF HOLE						

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

				DIP TEST					
PROPERTY DETOUR LAKES	LATITUDE L204E	STARTED Jan. 12, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO. 38-6	DEPARTURE 20W-30N	FINISHED Jan. 18, 1975	200.0	49°	737.0	40°		
BEARING North (0°)	ELEVATION	LENGTH 737.0	400.0	49°				
DIP-COLLAR -45°	SECTION	LOGGED BY W. Melnyk	600.0	45°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag
0	83.0	Casing							
83.0	134.0	Basic Lava: Medium grained, schistose, dark green, soft volcanic		A 0501	83.0	90.0	7.0	Tr	0.02
		rock. On broken surface rock is a grey color. Finely disseminated		0502	90.0	95.0	5.0	Tr	0.01
		pyrrhotite in section (1-2%) makes the rock weakly magnetic.		0503	95.0	100.0	5.0	Tr	0.01
		Schistosity is irregular but mainly at a small angle W.C.A. often		0504	100.0	105.0	5.0	Tr	0.02
		parallel to the coa core axis.		0505	105.0	110.0	5.0	0.01	0.03
		There are a few widely spaced Po veinlets through section.		0506	110.0	115.0	5.0	Tr	0.01
		Hardness: 3.5 - 4.0.		0507	115.0	120.0	5.0	Tr	0.02
		at 84.5' - .5' section of felsic material.		0508	120.0	125.0	5.0	Tr	0.03
		at 85.0' - .4' section of felsic material.		0509	125.0	130.0	5.0	Tr	0.03
		at 87.5' - .4' section of intermediate material.		0510	130.0	134.0	4.0	Tr	0.04
				0511	134.0	140.0	6.0	Tr	0.02
		Locally section exhibits a fine felty texture.		0512	140.0	145.0	5.0	Tr	0.01
		Compositionally rock consists of actinolite, chlorite, calcite and		0513	145.0	150.0	5.0	Tr	0.02
		serpentine. Rock is homogeneous over entire length.		0514	150.0	155.0	5.0	Tr	0.04
		Notable absence of quartz veining.		0515	155.0	160.0	5.0	Tr	0.03
				0516	160.0	166.5	6.5	0.01	0.01
134.0	150.0	Basic Tuff: Dark-black, coarse-grained, massive basic tuft. Rock		0517	166.5	170.0	3.5	Tr	0.03
		is composed of amphibole, black biotite, occasional pink grains of		0518	170.0	175.0	5.0	Tr	0.02
		feldspar, and 5% pyrite. Few milky quartz fragments (?) reach up to		0519	175.0	180.0	5.0	Tr	0.02
		3/4" to 1" in size and local aggregates of feldspar reach up to 3/4" -		0520	180.0	185.0	5.0	0.01	0.02
		1" in size. Rock is not magnetic. Most fragments, however are		0521	185.0	190.0	5.0	0.01	0.02
		approximately $\frac{1}{4}$" in size and are either distinctly black or are chloritized		0522	190.0	195.5	5.0	Tr	0.03
		and green in color surrounded by a black halo.		0523	195.5	200.0	5.0	Tr	0.01
		Hardness: 5-6		0524	200.0	205.0	5.0	Tr	0.02
		Upper contact is irregular at 10° W.C.A.		0525	205.0	207.2	2.2	Tr	0.01
		Bottom contact is sharp at 20° W.C.A.		0526	207.2	212.0	4.8	Tr	0.01
				0527	212.0	217.0	5.0	Tr	0.02
		Basic Lava: Same as 83.0 - 134.0'. Odd chloritized fragments in this		0528	217.0	222.0	5.0	Tr	0.02
150.0	160.5	section may indicate that this section may be a tuff but rock is too		0529	222.0	227.0	5.0	Tr	0.02
		homogeneous.		0530	227.0	232.00	5.0	Tr	0.03
		Disseminated pyrrhotite in section make s up to 5% of the rock.		0531	232.0	238.0	6.0	Tr	0.03
		Schistosity is at approximately 15° - 20° W.C.A.		0532	238.0	243.0	5.0	Nil	0.01
				0533	243.0	247.0	4.0	Nil	0.01
				0534	247.0	250.0	3.0	Nil	0.02

REGISTERED PROFESSIONAL ENGINEER P. J. MANGOT PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag	ASSAYS Cu
160.5	166.4	Felsic Tuff: Very fine grained silicic rock, brown scaley shards on broken surface. Barren, not mineralized. There is a vague interplay of light and dark silicious bands. Rock is homogeneous through section. Top contact is at an extremely small angle to the core axis, 5°, Bottom contact is irregular and is characterized by a marked increase in chlorite and brown biotite. at 164.0' - bedding at 60°.		A 0535	295.0	300.0	5.0	Nil	0.03	
				A 0536	300.0	305.0	5.0	Tr	0.04	
				A 0537	305.0	310.0	5.0	Tr	0.02	
				0538	250.0	252.5	2.5	Tr	0.02	
				0539	252.5	254.5	2.0	Nil	0.02	
				0540	254.5	260.0	5.5	Tr	0.02	
				0541	260.0	266.0	6.0	Tr	0.01	
				0542	266.0	271.0	5.0	Tr	0.01	
166.4	195.5	Basic Lava: Essentially the same as 83.0 - 134.0. Homogeneous, soft, schistose, light green rock. Rock is schistose over entire length at approximately 30° W.C.A. Final 5.0' is a distinct pistachio green color and felty. Rock is weakly magnetic with no quartz veining. There are a few barren calcite veinlets.		0543	271.0	275.0	4.0	Tr	0.02	
				0544	275.0	280.0	5.0	Tr	0.03	
				0545	280.0	285.0	5.0	Tr	0.03	
				0546	285.0	290.0	5.0	0.005	0.04	
				0547	290.0	295.0	5.0	0.02	0.03	
				0548	310.0	315.0	5.0	0.01	0.02	
				0549	315.0	320.0	5.0	Tr	0.03	
195.5	207.2	Felsic Tuft: Well bedded silicious rock containing 1/8" white phenocrysts of sericitized feldspar (?). Prominent interlayering of grey and white silicic bands. Bedding at 199.0 - 45° W.C.A. at 204.0 - 45° W.C.A.		0550	320.0	325.0	5.0	Tr	0.04	
				0551	325.0	330.0	5.0	Tr	0.06	
				0552	330.0	335.0	5.0	Tr	0.04	
				0553	335.0	340.0	5.0	0.01	0.07	
				0554	340.0	345.0	5.0	0.01	0.05	
				0555	345.0	350.0	5.0	0.49	0.14	
		Top contact of unit is sharp and perpendicular with the core axis. Bottom contact irregular. at 199.0: .3' intermediate material. at 200.0 - 202.0: 2.0' intermediate material.		0556	350.0	355.0	5.0	0.03	0.02	
				0557	355.0	360.0	5.0	0.01	0.03	
				0558	360.0	365.0	5.0	Tr	0.02	
				0559	365.0	370.0	5.0	Tr	0.02	
				0560	370.0	375.0	5.0	0.005	0.02	
		Few thin quartz veins present.		0561	375.0	380.0	5.0	0.005	0.05	
				0562	380.0	385.0	5.0	0.005	0.04	
207.2	238.0	Intermediate Tuft: Fine grained, brown, silicic rock. On core surface rock is a distinct brown color. Sulfide mineralization consists of disseminated po and py approx. 5% combined. Contacts are irregular. Unit is massive and homogeneous. Bedding at 228.0 - 55° W.C.A.		0563	385.0	390.0	5.0	0.01	0.04	
				0564	390.0	395.0	5.0	0.005	0.03	
				0565	395.0	400.0	5.0	0.005	0.06	
				0566	400.0	405.0	5.0	Tr	0.03	
				0567	405.0	410.0	5.0	0.02	0.04	0.05
				0568	410.0	415.0	5.0	0.02	0.06	0.116
		A few white silicious fragments reach up to ¼" in size, most are less than 1/8" in size.		0569	415.0	420.0	5.0	0.01	0.07	0.032
				0570	420.0	425.0	5.0	0.01	0.03	0.178
				0571	425.0	430.0	5.0	0.02	0.10	0.223
238.0	250.2	Felsic Tuff: Greyish-white, siliceous rock, massive and weakly mineralized in po and py, approximately 2% combined. Unit contains white fragments (?), phenocrysts (?), throughout - 1/8" in size. at 249.0 - .5' K-spar alteration along fracture.		0572	430.0	435.0	5.0	0.09	0.03	0.052
				0573	435.0	440.0	5.0	0.06	0.12	0.325
				0574	440.0	445.0	5.0	0.03	0.10	0.267
				0575	445.0	450.0	5.0	0.50	0.07	0.141
				0576	450.0	455.0	5.0	0.02	0.11	0.206
		Bottom contact is sharp and at 45° W.C.A.		0577	455.0	460.0	5.0	Tr	0.07	0.135
				0578	460.0	465.0	5.0	0.03	0.07	0.158
250.2	252.5	Intermed ate Tuff: Typical browish silicious unit with disseminated Po and Py throughout.		0579	465.0	470.0	5.0	0.01	0.09	0.257
				0380	470.0	475.0	5.0	Tr	0.04	0.082
				0581	475.0	480.0	5.0	0.01	0.05	0.050
				0582	480.0	483.0	3.0	0.06	0.09	0.214

FOOTAGE From	FOOTAGE To	DESCRIPTION	Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au	Ag	Cu
252.5	254.6	Felsic Tuff: Same as 238.0 - 250.2 Bedding at 254.0 - 40° W.C.A. Vague.		0583	483.0	486.0	3.0	0.01	0.06	0.134
				0584	486.0	487.3	1.3	0.03	0.04	0.118
				0585	487.3	490.0	2.7	0.005	0.07	0.091
254.6	266.0	Intermediate Tuff: Dark, silicious, inhomogeneous rock, well bedded and mineralized in po and py ~5% combined.		0586	490.0	493.0	3.0	Tr	0.06	0.124
				0587	493.0	496.0	3.0	0.01	0.04	0.064
		Bedding at 255.0 - 55° W.C.A.		0588	496.0	499.0	3.0	0.01	0.05	0.069
		at 256.0 - 50° W.C.A.		0589	499.0	502.0	3.0	0.01	0.07	0.114
		at 262.0 - 60° W.C.A.		0590	502.0	505.0	3.0	0.01	0.04	0.052
		at 263.0 - 50° W.C.A.		0591	505.0	510.0	5.0	0.005	0.06	0.070
		at 264.0 - 60° W.C.A.		0592	510.0	515.0	5.0	0.01	0.07	0.089
				0593	515.0	520.0	5.0	Tr	0.05	0.065
266.0	271.0	Felsic Tuff: Same as 238.0' - 250.2 - Massive, no bedding sulfides consist of po and py (5-7%)		0594	520.0	525.0	5.0	Tr	0.04	0.064
				0595	525.0	530.0	5.0	Tr	0.04	0.050
		267 - 268: K-spar alteration along Fractures.		0596	530.0	535.0	5.0	Tr	0.03	0.032
				0597	535.0	540.0	5.0	0.01	0.04	0.049
271.0	272.0	Basic Tuff: Dark, fine-grained rock. Massive, no bedding.		0598	540.0	545.0	5.0	0.02	0.06	0.138
		Hardness 5.0		0599	545.0	550.0	5.0	0.01	0.03	0.049
		Poor irregular contacts.		0600	550.0	555.0	5.0	0.14	0.04	0.103
				0601	555.0	560.0	5.0	Tr	0.03	0.052
272.0	274.8	Intermediate Tuff: Massive, dark brown, silicious, pyritized unit. No bedding present. Sulfide content approximately 5%.		0602	560.0	565.0	5.0	Tr	0.05	0.078
				0603	565.0	570.0	5.0	0.02	0.03	0.077
				0604	570.0	575.0	5.0	0.09	0.04	0.135
274.8	354.0	Basic Lava: Strongly schistose, light green, soft, weakly magnetic rock similar to 83.0 - 134.0. Unit is fairly homogeneous but a few altered fragments of varying size may indicate that the rock is a pyroclastic.		0605	575.0	580.0	5.0	0.005	0.03	0.018
				0606	580.0	585.0	5.0	0.005	0.03	0.040
				0607	585.0	590.0	5.0	Tr	0.02	0.028
				0608	590.0	595.0	5.0	0.01	0.02	0.024
				0609	595.0	600.0	5.0	0.04	0.02	0.044
		274.8 - 322.0: Rock is strongly fractured parallel with the core axis.		0610	600.0	605.0	5.0	Tr	0.02	0.003
				0611	605.0	610.0	5.0	Tr	0.02	0.044
				0612	610.0	615.0	5.0	0.01	0.02	0.003
		Mineralization consists of mainly disseminated po through section but increases to isolated blebs and interconnected blebs and veinlets near bottom of section.		0613	615.0	620.0	5.0	Tr	0.03	0.002
				0614	620.0	625.0	5.0	Tr	0.02	0.002
				0615	625.0	630.0	5.0	Tr	0.02	0.016
				0616	630.0	635.0	5.0	Tr	0.02	0.007
		298.0 - 299.0: Interconnected blebs at Po and cpy.		0617	635.0	638.0	3.0	Nil	0.02	0.005
		Bedding at 312.0 - 60° W.C.A. Schistosity at 30° W.C.A.		0618	638.0	643.0	5.0	Tr	0.03	0.001
				0619	643.0	648.0	5.0	Nil	0.02	0.004
		305.0 - 330.0: Fragments in green, lineated, bedded rock.		0620	648.0	653.0	5.0	Tr	0.02	0.005
		Fragments reach up to ½" in size, chloritized. Mineralization occurs as interconnected blebs and veinlets. Good sulfides from 325.0 to 328.0 -		0621	653.0	658.0	5.0	Nil	0.02	0.002
				0622	658.0	663.0	5.0	Tr	0.02	0.001
		Po (15%), Cpy (1%).		0623	663.0	668.0	5.0	Nil	.03	.004
				0624	668.0	673.0	5.0	Tr	.04	.002
354.0	361.0	Intermediate Tuff: Brown, silicious, poorly mineralized rock, massive only weakly disseminated pyrrhotite in section.		0625	673.0	678.0	5.0	Tr	.04	.004
				0626	678.0	683.0	5.0	Tr	.04	.001
				0627	683.0	688.0	5.0	Tr	.03	.003
				0628	688.0	693.0	5.0	0.02	.03	.001

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag	ASSAYS Cu
381.0	629.0	Basic Tuft: Distinct characteristic of this section is its inhomogeneity. Unit is a mixture of basic and intermediate material well banded and locallywell mineralized. The basic material is a greenish color, hardness - 5.5, contains bands of biotite and is mineralized in varying amounts of pyrrhotite and chalcopyrite. This section also shows a marked increase in quartz veining and silicification.		0629	693.0	698.0	5.0	Tr	.04	.001
				0630	698.0	703.0	5.0	Tr	.01	.001
				0631	703.0	708.0	5.0	Tr	.02	.011
				0632	708.0	713.0	5.0	Tr	.01	.009
				0633	713.0	718.0	5.0	Tr	.01	.009
				0634	718.0	722.0	T4.0	Tr	.02	.005
				0635	722.0	727.0	5.0	Nil	.01	.022
				0636	727.0	732.0	5.0	Tr	.02	.018
				0637	732.0	737.0	5.0	Tr	.02	.009
		Bedding at 381.0 - 50° W.C.A.								
		at 382.0 - 50° W.C.A.								
		at 523.0 - 50° W.C.A.								
		at 589.0 - 70° W.C.A.								
		at 593.0 - 65° W.C.A.								
		at 601.0 - 60° W.C.A.								
		at 627.0 - 69 60° W.C.A.								
		439 - 473: Intermediate Tuft - biotite and po rich.								
		Bedding at 432.0 - 70° - 75°								
		at 436.0 - 75°								
		at 453.0 - 70° - 75°.								
		479 - 529: Mostly Intermediate Tuft, biotite and po rich.								
		534.0 - 555.0: Intermediate Tuff: Core surface is characteristically scrambled with light green blotches (epidate) and irregular veinlets, and biotite rich bands existing in every possible attitude.								
		Fair mineralization consisting of blebs, interconnected veinlets and disseminated po and cpy in sections:								
		405.0 - 505.0 Po - 10%, Cpy .5%								
		550.0 - 575.0 Po 20% Cpy 1%.								
629.0	737.0	Basic Lava: Fine grained, dark-black, homogeneous rock over entire length. Dark green on core surface. Rock is massive, lacks schistosity, contains few scattered quartz veins and mineralization consists of widely scattered blebs of po only.								
	737.0	END OF HOLE.								

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

				DIP TEST					
PROPERTY Detour Lakes	LATITUDE L208E	STARTED Jan. 19, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO. DLO - 74-38-7	DEPARTURE 202+00N	FINISHED Jan. 27, 1975	200'	47°				
BEARING Grid North (0°)	ELEVATION	LENGTH 640.0'	400'	44°				
DIP-COLLAR -50°	SECTION	LOGGED BY W. Melnyk	600'	42°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag	ASSAYS Cu
0	110.0	Casing								
110.0	115.5	Intermediate Tuff: Rock is black on core surface, very dark brown on broken surface. Rock is silicious and very fine grained. Section is homogeneous over length and sulfide mineralization consists of disseminated pyrrhotite forming a crude lineation at 20° with the core axis. Fracturing is at 10° - 15° W.C.A. opposite to the lineation. Bottom contact is at a very small angle with the core axis.		0638	110.0	115.0	5.0	0.01		
				0639	115.0	120.0	5.0	0.01		
				0640	120.0	125.0	5.0	Tr		
				0641	125.0	127.5	2.5	Tr		
				0642	127.5	129.9	2.4	Tr		
				0643	129.9	134.0	4.1	0.005		
				0644	134.0	140.0	6.0	0.03		
115.5	127.5	Felsic Tuff: White, fine grained, silicious rock distinctly cherty at irregular intervals. The rock is mineralized in disseminated pyrite and pyrrhotite (1-2%). Core surface is pitted by small 1/10" altered fragments forming crude lineations, which may be suggestive of the bedding at 30° W.C.A. Rock is homogeneous over the entire length of section.		0645	140.0	145.0	5.0	0.04		
				0646	145.0	150.0	5.0	0.01		
				0647	150.0	155.0	5.0	0.01		
				0648	155.0	160.0	5.0	0.005		
				0649	160.0	163.5	3.5	Tr		
		at 117.9' - ¼" veinlet of dark green basic material at 30° W.C.A.		0650	163.5	165.0	1.5	Tr		
		at 123.0' - 1" vein of dark green basic material at 30° W.C.A.		0651	165.0	172.0	7.0	Tr		
		Fracturing is at 10° - 15° W.C.A.		0652	172.0	177.0	5.0	Tr		
				0653	177.0	182.0	5.0	Tr		
127.5	129.9	Basic Tuff: Light greenish basic rock, containing a great deal of coarse brown biotite in the first 1.5' of section. Weakly magnetic, schistosity is parallel with the core axis.		0654	182.0	187.0	5.0	Tr		
				0655	187.0	192.0	5.0	Tr		
				0656	192.0	197.0	5.0	Tr		
		Hardness - 4.0		0657	197.0	202.0	5.0	Tr		
		Upper contact is sharp at 55° W.C.A.		0658	202.0	205.0	3.0	0.005		
		Bottom contact is at 30° W.C.A.		0659	205.0	210.0	5.0	0.01		0.14
				0660	210.0	213.0	3.0	0.09		0.49
129.9	130.4	Felsic Tuff: Same as 115.0' - 127.5'. In part cherty.		0661	213.0	216.0	3.0	0.74		2.19
				0662	216.0	219.0	3.0	0.08		0.40
130.4	134.0	Intermediate Tuff: Dark-brown to black, massive, medium grained silicic rock very weakly mineralized in disseminated pyrrhotite. Unit is similar to 110.0' - 115.5'.		0663	219.0	222.0	3.0	0.085		0.88
				0664	222.0	225.0	3.0	0.03		0.15
				0665	225.0	230.0	5.0	Tr		0.13
				0666	230.0	235.0	5.0	Tr		0.08
		Fracturing is parallel with the core axis.		0667	235.0	240.0	5.0	0.02		0.21
		at 133.8' - Smears of cpy along a fracture surface.		0668	240.0	245.0	5.0	0.075		0.29

REGISTERED PROFESSIONAL ENGINEER P. J. MAINGOT PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
134.0	163.5	Basic Tuff: Medium-dark green, soft, schistose rock, fairly homogeneous with varying amounts of pyrrhotite through the section. Mineralization occurs as pods and veinlets in various orientations. Schistosity is parallel with the core axis. Hardness - 3.5.	
163.5	165.0	Intermediate Tuff: Medium-fine grained, silicious rock, minor biotite present. Weakly mineralized in disseminated pyrrhotite. Top contact highly fractured. Bottom contact is gradational.	
165.0	172.0	Felsic Tuff: Greyish-white silicious rock, very fine grained and weakly mineralized in disseminated pyrite. Core surface is sprinkled with white elongate fragments (?) average 1/16" in size. Rock is extensively fractured in a very disorderly fashion and the fractures are filled with pyrrhotite and pyrite. These are very small traces of K-spar along some fractures (average tint). Bottom contact is irregular.	
172.0	182.0	Intermediate Dacitic Lava: Rock is grey on core surface and broken surface, and is finer grained. On the core surface a few white phenocrysts (?) are visible arranged in an irratic fashion. Rock is massive and exhibits no structure. Fracturing is non-existent. Mineralization consists of po and py approximately 4-5%. Bottom contact is at 40° W.C.A. Hardness 6.0.	
182.0	183.0	Felsic Tuff: Same as 165.0' - 172.0'. Bottom contact is sharp at 40° W.C.A.	
183.0	192.0	Intermediate Dacitic Lava: Similar in all respects to section 172.0' - 182.0'. First foot is biotite rich but grades into a massive fine-grained competent unit.	
192.0	202.0	Felsic Tuff: Greyish, silicious rock. Mineralization consists of disseminated pyrrhotite and pyrite (3%). Rock is not fractured and non-homogeneous with respect to color and fragment content. Bedding at 194' at 30° W.C.A.	
202.0	204.0	Intermediate Tuff: Biotite rich, brown, intermediate rock mineralized with finely disseminated pyrrhotite. Bottom contact is sharp at 40° W.C.A.	
204.0	205.0	Felsic Tuff: Lineated fragments at 50° W.C.A. Bottom contact is at 40° W.C.A. Mineralization consists of disseminated pyrite and pyrrhotite (5%).	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag	ASSAYS Cu
0669	245.0	250.0	5.0	0.01		0.17
0670	250.0	255.0	5.0	0.01		0.04
0671	255.0	260.0	5.0	Tr		0.02
0672	260.0	265.0	5.0	Tr		0.03
0673	265.0	270.0	5.0	Tr		0.02
0674	270.0	275.0	5.0	Tr		0.03
0675	275.0	280.0	5.0	Tr		0.03
0676	280.0	285.0	5.0	0.005		0.03
0677	285.0	290.0	5.0	Tr		0.05
0678	290.0	295.0	5.0	0.005		0.06
0679	295.0	300.0	5.0	Tr		0.03
0680	300.0	305.0	5.0	Tr		0.05
0681	305.0	310.0	5.0	0.01		0.08
0682	310.0	315.0	5.0	0.07		0.14
0683	315.0	320.0	5.0	0.02		0.20
0684	320.0	325.0	5.0	0.07		0.35
0685	325.0	330.0	5.0	0.185		0.21
0686	330.0	335.0	5.0	0.175		0.11
0687	335.0	340.0	5.0	0.04		0.23
0688	340.0	345.0	5.0	0.08		0.06
0689	345.0	350.0	5.0	0.07		0.11
0690	350.0	355.0	5.0	0.24		0.40
0691	355.0	358.0	3.0	0.01		0.004
0692	358.0	361.0	3.0	0.005		0.03
0693	361.0	364.0	3.0	0.02		0.10
0694	364.0	367.0	3.0	0.02		0.22
0695	367.0	369.0	2.0	0.04		0.21
0696	369.0	370.0	1.0	0.165		0.09
0697	370.0	373.0	3.0	0.285		0.75
0698	373.0	376.8	3.8	0.02		0.22
0699	376.8	377.8	1.0	0.205		0.14
0700	377.8	380.0	2.2	0.03		0.25
0701	380.0	383.0	3.0	0.285		0.31
0702	383.0	386.0	3.0	0.01		0.11
0703	386.0	389.0	3.0	Tr		0.07
0704	389.0	392.0	3.0	0.01		0.08
0705	392.0	395.0	3.0	0.01		0.08
0706	395.0	396.5	1.5	Tr		0.09
0707	396.5	400.0	3.5	Tr		0.02
0708	400.0	403.0	3.0	0.03		0.05
0709	403.0	406.0	3.0	0.02		0.06
0710	405.0	409.0	3.0	Tr		0.04
0711	409.0	412.0	3.0	0.01		0.05
0712	412.0	415.0	3.0	0.01		0.06

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
205.0	635.0	Basic Tuffs: Same as in 38-6: a range of basic to intermediate tuffs, locally well bedded with thin beds of varying green color intermixed with bands rich in biotite. Sulfide mineralization is associated with zones of silicification. Schistosity is not well developed in the section. 205.0 - 210.0: Soft, schistose, green rock, schistosity semi-parallel with the core axis. Hardness 3.5. 210.0 - 222.0: Well mineralized basic Tuff. Po - 10%, Cpy 1%. 213.5 - 216.0: Good sulfide mineralization related to silicification. Po - 30%, Cpy - 5%. m Mineralization occurs as blebs and void fillings in the basic tuff. Mineralization is roughly conformable with bedding but is often perpendicular thereto. 228.0 - 234.5: Coarse grained black basic unit fairly homogeneous, not mineralized. Gradational contacts. 234.5 - 248.0: Inhomogeneous basic tuffs, locally mineralized in Po. Mineralization associated with silicified zones and biotite rich zones. No discernable bedding. 248.0 - 253.5: Finer grained homogeneous basic unit, poorly mineralized. Bottom contact at 70° W.C.A. 253.5 - 255.5: Intermediate Tuff. Massive, distinct silicious character, dark brown color. Minor fine grained biotite. Bottom contact at 50° W.C.A. 256.2 - 257.2: Felsic Tuff - Greyish silicious rock, weakly mineralized in pyrrhotite and pyrite. 262.0 - 272.0: Coarse grained basic rock, same as 228.0 - 234.5. 272.0 - 295.0: Inhomogeneous basic tuff. Rock is light green in color, soft, and banded with zones of biotite enrichment. Lower portion of section exhibits a felty texture. Chloritized fragments range in size to 1/8". Hardness - 3.5. 295.0 - 305.3: Basic Tuff - rock is coarse grained, banded and contains fragments to 1/16" in size. Weakly mineralized in pyrrhotite. 305.3 - 314.5: Felsic Tuff - Inhomogeneous, well bedded, with bands of intermediate material in section. Mineralization consists of pyrrhotite as fracture filling, conformable with the bedding.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag	ASSAYS Cu
0713	415.0	418.0	3.0	0.01		0.14
0714	418.0	421.0	3.0	Tr		0.06
0715	421.0	424.0	3.0	Tr		0.07
0716	424.0	427.0	3.0	0.185		0.11
0717	427.0	430.0	3.0	0.02		0.34
0718	430.0	435.0	5.0	Tr		0.02
0719	435.0	440.0	5.0	0.04		0.01
0720	440.0	445.0	5.0	0.20		0.11
0721	445.0	450.0	5.0	0.07		0.08
0722	450.0	455.0	5.0	Tr		0.003
0723	455.0	460.0	5.0	0.01		0.07
0724	460.0	465.0	5.0	0.07		0.16
0725	465.0	470.0	5.0	0.02		0.11
0726	470.0	475.0	5.0	0.01		0.03
0727	475.0	480.0	5.0	0.12		0.05
0728	480.0	485.0	5.0	0.02		0.03
0729	485.0	490.0	5.0	0.04		0.02
0730	490.0	495.0	5.0	0.005		0.004
0731	495.0	500.0	5.0	Tr		0.001
0732	500.0	505.0	5.0	Tr		0.03
0733	505.0	510.0	5.0	Tr		
0734	510.0	515.0	5.0	Tr		
0735	515.0	520.0	5.0	Tr		
0736	520.0	525.0	5.0	Tr		
0737	525.0	530.0	5.0	Tr		
0738	530.0	535.0	5.0	Tr		
0739	535.0	540.0	5.0	Tr		
0740	540.0	545.0	5.0	Tr		
0741	545.0	550.0	5.0	Tr		
0742	550.0	555.0	5.0	Tr		
0743	555.0	560.0	5.0	Tr		
0744	560.0	565.0	5.0	Tr		
0745	565.0	570.0	5.0	Tr		
0746	570.0	575.0	5.0	Tr		
0747	575.0	580.0	5.0	0.04		
0748	580.0	585.0	5.0	Tr		
0749	585.0	590.0	5.0	Tr		
0750	590.0	595.0	5.0	Tr		
0751	595.0	600.0	5.0	Tr		
0752	600.0	605.0	5.0	Nil		
0753	605.0	610.0	5.0	Nil		
0754	610.0	615.0	5.0	Nil		
0755	615.0	620.0	5.0	Nil		
0756	620.0	625.0	5.0	Nil		
0757	625.0	630.0	5.0	Nil		
0758	630.0	635.0	5.0	Nil		
0759	635.0	640.0	5.0	Nil		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
		314.5 - 315.5: Intermediate Tuff, biotite rich. Mineralization consists of veinlets and pods of pyrrhotite approx. 30%.						
		315.5 - 318.0: Basic Tuff is thinly bedded, weakly mineralized with chalcopyrite and pyrrhotite - conformable with bedding. Bedding at 317.0 - 60° W.C.A.						
		322.0 - 363.0: Basic Tuff - poorly bedded, chloritized, fine-grained, green rock with a few zones of coarser biotite. Weak mineralization related predominently to silicified zones and fractures.						
		363.0 - 369.0: Basic Tuff - Chloritic rock, schistose, mineralized by lensoid pyrrhotite conformable with schistosity. Lower 2.0 of this sections contains random scatterings of anhedral, dark red (almondite) garnets. This garnitiferous section is well mineralized with Po - 15% and Cpy 1-2%.						
		369.0 - 370.0: Quartz vein, barren.						
		370.0 - 373.0: Altered basic tuff - in appearance looks like 'intermediate tuff'. Mineralization is very good. Po - 30%, Cpy - 5%.						
		373.0 - 394.3: Basic Tuff - Mineralization is predominantly related to zones of silicification. Weak po and cpy.						
		394.3 - 396.5: Felsic Tuff - Dark core surface, silicious rock, speckled with black biotite. Sulfide mineralization consists of disseminated po 3%. Upper contact 40° W.C.A. Bottom contact 40° W.C.A.						
		396.5 - 414.3: Basic Tuff - Bedded, inhomogeneous tuft containing minor felsic and intermediate material. Weakly mineralized in po and cpy.						
		414.3 - 416.2: Intermediate Tuff. Massive, containing brown biotite. Very weakly mineralized in disseminated pyrrhotite. Top contact - 35° W.C.A. Bottom contact - 55° W.C.A.						
		416.2 - 455.0: Basic Tuff - Bedded, mineralization related to silicification zones. at 440.0 - 4" vein of massive pyrrhotite. Quartz-eyes scattered through the pyrrhotite.						
		455.0 - 488.0: Basic Tuff - Evidence of bedding has been obliterated and numerous silicification zones contain cpy and po. Most of the silicification have associated with them a greater degree of alteration which may extend for 5.0' as seen in section 363.0 - 369.0 (Almandite rich section.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
		488.0 - 635.0: Basic Tuff - Fairly homogeneous rock, green color. Hardness 6.0. Unit is characterized by the significant decrease in quartz veining. Silicification zones, and sulfide mineraliation. Bedding is intermittent and irregular.						
		at 542.0 Rock shows good tuffaceous character with intermittent bedding at 55° W.C.A.						
		at 577 - 578 - Silicified fragments and shards in tuff up to $\frac{1}{4}$" size.						
		581 - 635 - Tuffaceous nature of rock is much better exemplified with scattered fragments up to $\frac{1}{2}$" in size, both silicified and chloritized.						
		Discontinuous bedding is a prominent feature.						
635.0	640.0	Basic Lava: Coarse grained basic rock, homogeneous, hardness 5.5. Mineralogically a mixture of amphibole, chlorite and feldspar. Very weakly mineralized in pyrrhotite.						
	640.0	END OF HOLE.						

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

PROPERTY	DETOUR LAKES	LATITUDE	L212E	STARTED	January 29, 1975
HOLE NO.	DLO-74-38-9	DEPARTURE	203+00N	FINISHED	Feb. 5, 1975
BEARING	Grid North (0°)	ELEVATION		LENGTH	876.0'
DIP-COLLAR	-49°	SECTION		LOGGED BY	W. Melnyk

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	-49°	800'	45°		
400'	-48°				
600'	-45°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	152.0	Casing	
152.0	204.0	Basic Intrusive: An assortment of soft schistose rocks.	
		152.0 - 157.0: Fine-grained greyish-green rock, soft and schistose. On broken surface the core is grey in color. The surface is marked by the presence of chloritized fragments (?) up to 1" in size. The rock contains approximately 1-3% disseminated po and a few traces of cpy at 156.0'. Schistosity is at 15° - 20° with the core axis. Darker, altered fragments contain approximately 10% po. Fracturing is at 15° - 20° with the core axis. Hardness ≃ 2.5 - 3.0.	
		157.0' - 168.5': Same greyish schist as above except that the feldspars are much more prominent. The core surface is noticably 'Pitted'. Mineralization consists mainly of disseminated po.	
		168.5' - 173.0': This green schist is characterized by its medium-fine grained appearance and the needle-like nature of the amphibole. The rock has been thoroughly uralitized. Pyroxene pseudomarphs are visible on the core surface, but on broken surface the replaced pyroxene phenocrysts are identified by semi-spherical aggregates of fibrous amphibole. Biotite contact and schistosity increase over the bottom of the section. Schistosity is at 50° W.C.A.	
		173.0' - 179.8': Medium-grained basic intrusive - Gabbro. Mineralogically the rock is composed of fibrous amphibole - 3/16' long crystals, pyroxene and calcic plagioclase and black flakey biotite. Mineralization consists of disseminated po and pyrite. Pyrite occurring mainly along fractures. Unit is competant, very little fracturing. Top contact is at 30° W.C.A. Bottom contact is at 20° W.C.A. Hardness ≃ 5.5	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	Ag	Cu
0760	205.0	210.0	5.0	Tr		
0761	210.0	215.0	5.0	Nil		
0762	215.0	220.0	5.0	Nil		
0763	220.0	225.0	5.0	Nil		
0764	225.0	230.0	5.0	Tr		
0765	230.0	235.0	5.0	Tr		
0766	235.0	240.0	5.0	Nil		
0767	240.0	245.0	5.0	Nil		
0768	245.0	250.0	5.0	Tr		
0769	250.0	255.0	5.0	Tr		
0770	255.0	260.0	5.0	Tr		
0771	260.0	265.0	5.0	Nil		
0772	265.0	270.0	5.0	Nil		
0773	270.0	275.0	5.0	Nil		
0774	275.0	280.0	5.0	Nil		
0775	280.0	285.0	5.0	Nil		
0776	285.0	290.0	5.0	Nil		
0777	290.0	295.0	5.0	Tr		
0778	295.0	300.0	5.0	Tr		
0779	300.0	305.0	5.0	Tr		
0780	305.0	310.0	5.0	Nil		
0781	310.0	315.0	5.0	0.005		
0782	315.0	320.0	5.0	Nil		
0783	320.0	325.0	5.0	Nil		
0784	325.0	330.0	5.0	Nil		
0785	330.0	335.0	5.0	Tr		
0786	335.0	340.0	5.0	Nil		
0787	340.0	345.0	5.0	Nil		
0788	345.0	350.0	5.0	Tr		
0789	350.0	355.0	5.0	Nil		0.04
0790	355.0	360.0	5.0	Nil		0.04
0791	360.0	362.5	2.5	Nil		0.03
0792	362.5	368.5	6.0	Tr		0.02
0793	368.5	373.0	4.5	Tr		0.05

REGISTERED PROFESSIONAL ENGINEER
P. A. MARCOTTE
PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag	ASSAYS Cu
		179.8' - 193.0': Grey-coarse grained basic schist. Feldspar very prominent and altered to sericite and the clay minerals. The core surface is extremely 'pitted' where the feldspar phenocrysts have been eroded during the drilling process. On broken surface the minerals are felty and matted. Mineralization consists of disseminated Po.		0794	373.0	376.0	3.0	Tr		0.04
				0795	376.0	380.0	4.0	Tr		0.04
				0796	380.0	385.0	5.0	Tr		0.04
				0797	385.0	390.0	5.0	Tr		0.04
				0798	390.0	395.0	5.0	Tr		0.03
				0799	395.0	400.0	5.0	Nil		0.03
		193.0' - 198.0': Green fibrous schist, same as 168.5' - 178.0'. This unit is coarser grained as the amphibole crystals reach up to ¼" in length.		0800	400.0	405.0	5.0	Tr		0.04
				0801	405.0	410.0	5.0	Tr		0.04
				0802	410.0	415.0	5.0	Tr		0.04
				0803	415.0	420.0	5.0	Tr		0.03
		198.0' - 204.0': A consolidated pulverized rock which is characterized by shadows of fragments. The rock is soft and feldspar rich. Core surface is blotchy in appearance due to considerable amounts of sericitic and clay minerals. Mineralization consists of disseminated po.		0804	420.0	425.0	5.0	Tr		0.04
				0805	425.0	430.0	5.0	Nil		0.02
				0306	430.0	435.0	5.0	Nil		N.D.
				0807	435.0	440.0	5.0	Tr		0.01
				0808	440.0	445.0	5.0	0.005		0.01
				0809	445.0	450.0	5.0	Tr		
		204.0' - short section, 1.0' of slickensided rock.		0810	450.0	455.0	5.0	Tr		
				0811	455.0	460.0	5.0	Tr		
204.0	337.0	Basic Intrusive: Texturally a very coarse grained rock composed of phenocrysts of pyroxene, amphibole and calcic plagioclase. Intensity of alteration varies slightly over the length of the unit but rock is uniform both texturally and mineralogically. Only mineralization is in this unit is magnetite. The intrusive is a very competent and only 'hairline' fractures are present containing either calcite or clay minerals. Unit contains no quartz veining or silicification. Hardness ≃ 5.5.		0812	460.0	465.0	5.0	Nil		
				0813	465.0	470.0	5.0	Nil		
				0814	470.0	475.0	5.0	Nil		
				0815	475.0	480.0	5.0	Nil		
				0816	480.0	485.0	5.0	Nil		
				0817	435.0	490.0	5.0	Nil		
				0318	490.0	495.0	5.0	Nil		
				0819	495.0	500.0	5.0	Nil		
				0820	500.0	505.0	5.0	Tr		
				0821	505.0	510.0	5.0	Tr		
337.0	343.8	Basic Intrusive: A greyish-white gneissic rock containing a considerable amount of feldspar. Mafic minerals, constituting 20% of the rock, form a streaked appearance on the core surface. Unit is void of sulfide mineralization. Gneissosity is at 50° W.C.A.		0322	510.0	515.0	5.0	Nil		
				0823	515.0	520.0	5.0	Nil		
				0824	520.0	525.0	5.0	Nil		
				0825	525.0	530.0	5.0	Nil		
				0826	530.0	535.0	5.0	Nil		
				0827	535.0	540.0	5.0	Tr		
343.8	362.5	Basic Intrusive: Greenish-fine-grained, schistose rock characterized by a great deal of slickensiding. On broken surface the rock is green and matted. Mineralization consists of disseminated po. Both slickensiding and schistosity are at 50° W.C.A. Some of the slickensiding is mineralized with pyrite and chalcopyrite. Intermittent zones of biotite enrichment also relates to an increase in po content. Hardness ≃ 4.0.		0828	540.0	545.0	5.0	Nil		
				0829	545.0	550.0	5.0	Nil		
				0830	550.0	555.0	5.0	Nil		
				0831	555.0	559.0	4.0	Nil		
				0832	559.0	564.0	5.0	Nil		
				0833	564.0	568.0	4.0	Tr		
				0834	568.0	572.0	4.0	Nil		
				0835	572.0	576.0	4.0	Tr		
362.5	368.5	Felsic feldspar porphyry: Subhedral phenocrysts of feldspar are scattered randomly through a silicic, fine-grained, dark felsic rock. A concentration of feldspar at 366.0' gives the rock a porphyritic lineated nature. Lineation is at 45° W.C.A. Mineralization is limited to only finely disseminated po. Fine grained biotite may be responsible for a brownish tinge of the rock..		0836	576.0	580.0	4.0	Tr		
				0837	580.0	585.0	5.0	Tr		
				0838	585.0	590.0	5.0	Tr		
				0839	590.0	595.0	5.0	Tr		
				0840	595.0	600.0	5.0	0.005		
				0841	600.0	605.0	5.0	0.01		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag	ASSAYS Cu
		Bottom contact is at 40° W.C.A. pyrite content increases to 7% near bottom.								
368.5	428.5	Basic Intrusive: Greenish, fine-grained, schistose, soft rock. Same as 343.8' - 362.5'. Section is weakly mineralized in disseminated po and py. This section contains areas of biotite enrichment which are in close proximity to slickenside zones. The biotite enriched zones are less than a foot long and schistosity is consistently at 20° W.C.A.		0842	605.0	607.0	2.0			
				0843	607.0	612.0	5.0	0.01		0.07
				0844	612.0	615.0	3.0	0.04		0.20
				0845	615.0	620.0	5.0	0.03		0.11
				0846	620.0	625.0	5.0	0.08		0.05
				0847	625.0	630.0	5.0	0.02		0.05
		425.0' - 428.0': Core is broken extensively, sheared, most pieces show evidence of slip (slickensiding). Most surfaces are smeared with pyrite and minor cpy.		0848	630.0	635.0	5.0	0.24		0.24
				0849	635.0	640.0	5.0	0.02		0.19
				0850	640.0	645.0	5.0	0.16		0.28
				0851	645.0	650.0	5.0	0.02		0.07
428.5	446.0	Augen Gneiss: Texturally the rock is gneissic with remnants of feldspar phenocrysts, up to 3/8" in diameter, lineated and interlayered with streaks of mafic material. The core surface is extremely pitted on the feldspars, are in the process of being altered to sericite and clay minerals.		0852	650.0	655.0	5.0	0.01		0.05
				0853	655.0	657.0	2.0	Tr		0.02
				0854	657.0	659.0	2.0	Tr		0.02
				0855	659.0	665.0	6.0	0.03		0.03
				0856	665.0	670.0	5.0	0.01		0.03
				0857	670.0	675.0	5.0	0.05		0.04
		Gneissosity is constantly at 50° W.C.A.		0858	675.0	680.0	5.0	0.12		0.05
				0859	680.0	685.0	5.0	0.01		0.05
446.0	540.0	Basic Intrusive: Rock is medium grained, schistose, with phenocrysts of pyroxene appearing as black circular blotches up to ¼" in diameter. On core-surface the rock is whitish-green and on broken surface is greenish-grey with a matted texture. The rock is weakly mineralized in disseminated po.		0860	685.0	690.0	5.0	0.005		0.02
				0861	690.0	695.0	5.0	0.04		0.13
				0862	695.0	700.0	5.0	0.01		0.01
				0863	700.0	705.0	5.0	0.005		
				0864	705.0	710.0	5.0	Tr		
		451.0' - 455.0' - Breccia with intrusive fragments cemented by a mixture of quartz and calcite. Intrusive fragments have been biotized.		0865	710.0	715.0	5.0	Tr		
				0866	715.0	720.0	5.0	0.005		
				0867	720.0	725.0	5.0	Tr		
				0868	725.0	730.0	5.0	0.005		
		482.0' - ½ foot of coarse grained biotite - slickensided.		0869	730.0	735.0	5.0	0.01		
				0870	735.0	740.0	5.0	0.01		
		487.0' - ½ foot of coarse biotite slickensided at 30° W.C.A.		0871	740.0	745.0	5.0	0.01		
				0872	745.0	750.0	5.0	Tr		
		493.0' - ½ foot of coarse biotite.		0873	750.0	755.0	5.0	Tr		
				0874	755.0	760.0	5.0	0.01		0.03
		503.0' - 507.0' - Rock is rich in coarse black biotite and voids are filled with calcite.		0875	760.0	765.0	5.0	0.01		0.04
				0876	765.0	770.0	5.0	Tr		0.05
				0877	770.0	775.0	5.0	Nil		0.02
540.0	607.0	Basic Intrusive: Varying degrees of dynamic reworking and alteration of basic intrusive producing schists of assorted mineralogy and appearance. Interval varies from a competent chloritic schist to a distinctly white-greyish rock with a well developed schistosity to short sections which are essentially consolidated clay.		0878	775.0	780.0	5.0	Nil		0.02
				0879	780.0	785.0	5.0	0.01		0.05
		540.0' - 545.0': Green competent chloritic schists. Schistosity of at 544.0' is 20° W.C.A. On core surface subhedral altered phenocrysts of pyroxene disturb the regular pattern of the schistosity.								
		541.0 - - ¼" thickness of clayey material.								

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag	ASSAYS Cu
		545.0' - 549.0': Talc-Serpentine Schist. Rock is a distinct white color and is streaked with thin bands of mafic material. Hardness 2.0. This section is fairly competent, contains no sulfide mineralization but is strongly magnetic. Schistosity is intermittent and varies from 15° - 30°. 545.0' - 3" of clayey material.		0380	785.0	790.0	5.0	0.01		0.05
				0381	790.0	795.0	5.0	0.005		0.06
				0382	795.0	800.0	5.0	0.005		0.03
				0883	800.0	805.0	5.0	Tr		0.04
				0884	805.0	810.0	5.0	Tr		0.05
				0885	810.0	815.0	5.0	Tr		0.03
		549.0' - 559.0': Contorted chloritic schist. Varying shades of green bands of chlorite are parallel with the schistosity which is also parallel with the core axis. Unit is sparsely mineralized with pyrite along fractures.		0386	815.0	820.0	5.0	Tr		0.05
				0387	820.0	825.0	5.0	Tr		0.29
				0888	825.0	830.0	5.0	Tr		0.08
				0889	830.0	835.0	5.0	Tr		0.07
		559.0' - 563.0': Short section of silicious intermediate material, medium to fine grained and mineralized in disseminated pyrite. Minute flakes of biotite are scattered through the unit and get coarser near the bottom.		0890	835.0	840.0	5.0	Tr		0.04
				0891	840.0	845.0	5.0	Tr		0.06
				0892	845.0	849.5	4.5	Tr		0.06
				0893	849.5	855.0	5.5	Tr		0.04
		563.0' - 591.5': Talc-Serpentine schist. Same as previous section 545.0' - 549.0'. Schistosity varies from 20° at 575.0' to parallel with the core axis at 590.0'. Rock is strongly magnetic and competent. Feldspar phenocrysts have been altered to sericite and clay minerals.		0894	855.0	860.0	5.0	Tr		0.05
				0895	860.0	865.0	5.0	Tr		0.02
				0896	865.0	870.0	5.0	Nil		0.02
				0897	870.0	873.0	3.0	Nil		<0.01
				0898	873.0	876.0	3.0	Nil		<0.01
		591.5' - 598.5': Contorted chloritic schist. Rock is chloritic, schistose with scattered remnants (pseudomorphs) of pyroxene and contains a few scattered stringers of calcite. The last 1.5' of this section is clayey.								
		598.5' - 603.0': Ground-up pieces of a fine grained, hard, basic rock, extremely fractured and mineralized in po and py. Great amount of slickensiding.								
		603.0' - 607.0': Clayey schist. Section is consolidated mud with a stress induced schistosity. Where the schistosity is developed it is at 50° W.C.A.								
607.0	656.5	Basic Lava: Silicified, fractured, fine-medium grained rock, basaltic in composition. In areas of intense silicification the host rock indicates biotite enrichment. Mineralization is sparse in po and py.								
		643.0' - 648.0': Rock has been extensively fractured and the voids infilled with sulfides including po, py and cpy.								
		633.0' - 645.0': Many of the silicified zones and quartz veins contain K-feldspar and plagioclase.								
		628.0' - 630.0': Fine-grained porphyritic basalt. Two feet of crystallite rich lava. The white phenocrysts of feldspar are approximately 1/16" long.								
		Schistosity at 649.0' - 35° W.C.A..								

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
656.5	659.5	Felsic Lava or Tuff: Rock is silicic, fine-grained, banded and purplish in color. Banding is at 20° W.C.A. The lower 1.0' of this section contains anhedral to subhedral phenocrysts of feldspar scattered in a random manner. Upper contact is sharp at 30° W.C.A. Bottom contact is at 10° W.C.A.						
659.5'	690.6'	Basic Lava or Tuff: The rock is black, fine-grained and basic. Unit is compositionally homogeneous and shows vague bedding at 682 - 60° W.C.A. and at 685 - 70° W.C.A. Mineralization consists of pyrite and pyrrhotite and minor cpy, associated with silicification zones and quartz veins. 670.5' - 671.8': Felsic Lava or Tuff - Same as 656.5 - 659.5. The rock is silicified, buff color and weakly mineralized with disseminated pyrite. 677.0' - 678.0': Silicified breccia (?). This one foot section is about 80% green quartz with sharp fragments of country rock aoccupying the lower portion of the quartz vein. The country rock fragments are not crushed or ground-up. Some K-spar salteration surrounds some of the fragments.						
690.6'	740.0'	Basic Lava: A massive, fine-grained, basic unit characterized by its black core surface sprinkled with minute white phenocrysts of feldspar randomly scattered. The white crystallites (phenocrysts) are on average 1/16" in length and orientated in a haphazard manner. Mineralization is very poor and consists of only scattered blebs of po. Silicification and quartz veining is virtually absent from this section. Schistosity is not developed, feldspars are not lineated.						
740.0'	769.0'	Basic Lava: Compositionally basaltic-andesitic. Differing from previous section in that the feldspar content is greater and feldspars are homogeneously spread through the rock. The rock is coarser grained but the fabric of the rock is diffuse. Mineralization picks up considerably in this section as po constitutes 10-15% of the rock primarily as blebs with the long axis parallel with the direction of schistosity. Schistosity is very nearly perpendicular with the core axis. Unit is weakly fractured.						
769.0'	779.8'	Basic Lava: Basaltic volcanic, same as 690.6' - 740.0'. This section has no feldspar crystallites and is mineralized in pyrrhotite approximately 7%.						
779.8'	790.76'	Basic Lava: Basaltic - andesitic in composition. Same as 740.0' - 769.0' This unit is mineralized in po 15-20% with traces of cpy and some pyrite. Very little silicification and quartz veining. Unit is weakly fractured.						

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

PROPERTY DETOUR LAKE HOLE NO. 38-9 Page 6

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
790.6	849.5	Leuco-Andesite - Dacite: Compositionally the rock is feldspar rich (andesine), contains free quartz and minor altered Fe-Mgs such as biotite, pyroxene and amphibole. Rock is medium grained. The rock has distinct flow features. Bedding at 811.0' is 30° W.C.A. and at 815.5' is 35°. Mineralization consisting of pyrrhotite, pyrite and chalcopyrite is concentrated in areas of silicification and quartz veining and occurs in several modes. It occurs in close pros proximity with the Fe-Mgs, as veinlets conformable with bedding and as fracture fillings. Bottom contact is sharp at 50° is finer grained and not mineralized.						
849.5'	876.0'	Basic Intrusive: Pyroxenite-Gabbro. Very coarse grained basic intrusive rock, green color and hardness ~ 5.0. The intrusive is not magnetic and carries some po and cpy mineralization in feldspar veinlets which are orientated in various directions but the prominent veinlets are very nearly parallel with the core axis. The principle direction of shearing is parallel with the core axis. The rock contains greenish phenos of pyroxene approximately $\frac{1}{4}$" in diameter.						
	876.0	END OF HOLE.						

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

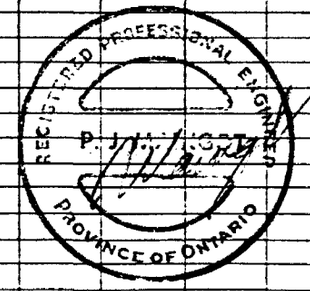
PROPERTY	DETOUR LAKES	LATITUDE	L206E	STARTED	February 23rd, 1975
HOLE NO.	DLO - 38 - 14	DEPARTURE	200 + 00N	FINISHED	February 28th, 1975
BEARING	GRID NORTH (O)	ELEVATION		LENGTH	767.0'
DIP-COLLAR	- 45°	SECTION		LOGGED BY	W. MELNYK

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	41°	767'	39°		
400'	40°				
600'	39°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	133.0	CASING	
133.0	141.7	ULTRABASIC INTRUSIVE: A medium grained, soft, schistose, basic rock composed of the alteration minerals, actinolite - tremolite, chlorite and serpentine. On core surface and broken surface the rock is green in colour. The initial 1.5' is well slickensided and broken-up, the slickensiding is at a small angle with the core axis often parallel thereto. Coarseness of the rock increases towards the bottom of the section with phenocrysts of hornblend and pyroxene up to 1/8" in length. The rock is neither magnetic nor mineralized. Bottom contact 70°. Hardness 3.0.	
141.7	143.5	BASIC DIKE: A black medium grained basic rock, hardness 6.0, characterized by intense fracturing and fracture filling of light yellowish green epidote, calcite, feldspar and secondary k-spar. Mineralogically the rock is a mixture of equigranular pyroxene, hornblend and calcic plagioclase. The rock is weakly pyritized. Fracturing is at 30° W.C.A.	
143.4	163.0	ULTRABASIC INTRUSIVE: Similar to 133.0 - 141.7. Mineralogically the rock is composed of actinolite - tremolite, chlorite and serpentine. The rock is medium green to light green in colour on core surface and is distinguished by the presence of large serpentine pseudo phenocrysts of pyroxene. The phenocrysts range in size up to ½" in diameter and usually occur as dark semi-circular "blotches' on the core surface and are recognised as pyroxene because of the diallage. Unit is weakly pyritized. Hardness 2.5 146.5 - 148.0: This section contains a great deal of veining - epidote, calcite and k-spar. 150.0 - 152.0: Erratic fracturing, infilled with orange-reddish k-spar. Some fracturing is parallel W.C.A. 159.0 - 163.0: Rock is well ground-up and slickensided at 20° W.C.A.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au,
A0338	360.0	365.0	5.0	N
A0339	365.0	370.0	5.0	N
A0340	370.0	375.0	5.0	N
A0341	375.0	380.0	5.0	N
A0342	380.0	385.0	5.0	N
A0343	385.0	388.2	3.2	N
A0344	388.2	392.5	4.3	N
A0345	392.5	395.0	2.5	N
A0346	395.0	400.0	5.0	N
A0347	400.0	405.0	5.0	N
A0348	405.0	407.8	2.8	N
A0349	407.8	410.0	2.2	T
A0350	410.0	415.0	5.0	T
A0351	415.0	420.0	5.0	.05
A0352	420.0	425 0	5.0	T
A0353	425.0	430.0	5.0	T
A0354	430.0	435.0	5.0	T
A0355	435.0	440.0	5.0	T
A0356	440.0	445.0	5.0	T
A0357	445.0	450.0	5.0	.01
A0358	450.0	455.0	5.0	.10
A0359	455.0	460.0	5.0	.01
A0360.	460.0	465.0	5.0	Tr
A0292	133.0	135.0	2.0	N
A0293	135.0	140.0	5.0	N
A0294	140.0	145.0	5.0	N
A0295	145.0	150.0	5.0	N
A0296	150.0	155.0	5.0	N
A0297	155.0	160.0	5.0	N
A0298	160.0	165.0	5.0	T
A0299	165.0	170.0	5.0	N
A0300	170.0	175.0	5.0	N
A0301	175.0	180.0	5.0	N
A0302	180.0	185.0	5.0	N
A0303	185.0	190.0	5.0	N
A0304	190.0	195.0	5.0	N
A0305	195.0	200.0	5.0	T
A0306	200.0	205.0	5.0	T



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	SZn.	Pb.
163.0	170.0	BASIC DIKE: Compositionally, this unit doesn't vary a great deal from the ultrabasic intrusive except that it is finer-grained, has a grey colour on the core surface, is pyritized and is extensively fractured. Fractures are infilled with calcite, epidote and contains k-spar alteration. Alteration of this unit is not as intense as of intrusive. Hardness 6.0.		A0307	205.0	210.0	5.0	N				
				A0308	210.0	215.0	5.0	N				
				A0309	215.0	220.0	5.0	N				
				A0310	220.0	225.0	5.0	N				
				A0311	225.0	230.0	5.0	N				
				A0312	230.0	235.0	5.0	N				
				A0313	235.0	240.0	5.0	N				
170.0	188.9	Ultrabasic Intrusive: A coarse grained rock with scattered large phenocrysts of subhedral - euhedral pyroxene. Rock is extremely altered to actinolite - tremolite, serpentine and chlorite. This unit is not mineralized and not magnetic. 178.0 - 181.0: Minor slickensiding at 20° W.C.A. - parallel W.C.A. Hardness 3.0.		A0314	240.0	245.0	5.0	N				
				A0315	245.0	250.0	5.0	N				
				A0316	250.0	255.0	5.0	N				
				A0317	255.0	260.0	5.0	N				
				A0318	260.0	265.0	5.0	N				
				A0319	265.0	270.0	5.0	N				
				A0320	270.0	275.0	5.0	N				
188.9	191.0	BASIC DIKE: Similar to 141.7 - 143.5. This unit is not as intensely altered as the previous dike. Feldspar content is approximately 30 - 40% intermixed with altered mafics. The rock is fine-grained greyish in colour and weakly mineralized in disseminated pyrite. Fractures near the bottom of interval contain k-spar alteration. Top and bottom contacts at 60° W.C.A.		A0321	275.0	280.0	5.0	N				
				A0322	280.0	285.0	5.0	T				
				A0323	285.0	290.0	5.0	T				
				A0324	290.0	295.0	5.0	T				
				A0325	295.0	300.0	5.0	N				
				A0326	300.0	305.0	5.0	T				
				A0327	305.0	310.0	5.0	T				
191.0	195.0	ULTRABASIC INTRUSIVE: Similar to 170.0 - 188.9. Contains scattered remnants of pyroxene phenocrysts set in an altered matrix. Schistosity at 191.0 - 45° W.C.A.		A0328	310.0	315.0	5.0	.01				
				A0329	315.0	320.0	5.0	N				
				A0330	320.0	325.0	5.0	N				
				A0331	325.0	330.0	5.0	N				
195.0	200.0	BASIC DIKE: Similar to 188.9 - 191.0. The rock could be termed a fine-medium grained Diorite. This unit has been subjected to weak alteration as the mafics have been altered to chlorite and epidote, and the plagioclase shows traces of k-spar alteration. K-spar alteration is particularly prominent along fractures. Top contact is at 20° W.C.A. Bottom contact is at 90° W.C.A.		A0332	330.0	335.0	5.0	N				
				A0333	335.0	340.0	5.0	N				
				A0334	340.0	345.0	5.0	N				
				A0335	345.0	350.0	5.0	T				
				A0336	350.0	355.0	5.0	T				
				A0337	355.0	360.0	5.0	T				
				A0361	465.0	470.0	5.0	T				
200.0	388.2	ULTRABASIC INTRUSIVE: Typical, coarse-grained, well altered intrusive, containing pseudo phenocrysts of pyroxene and amphibole. The matrix of the rock is a mixture of the alteration minerals; actinolite - tremolite, chlorite and serpentine. Hardness 3.0. 200.0 - 202.0: Brecciated coarse grained intrusive. Fragments of intrusive are cemented together with material of the same composition. This 2.0 section has been fractured and these have been infilled with epidote feldspar and minor calcite. The feldspar veinlets have been altered to k-spar extensively.		A0362	470.0	475.0	5.0	T				
				A0363	475.0	480.0	5.0	T				
				A0364	480.0	485.0	5.0	T				
				A0365	485.0	490.0	5.0	T				
				A0366	490.0	495.0	5.0	T				
				A0367	495.0	500.0	5.0	T				
				A0368	500.0	505.0	5.0	T				
				A0369	505.0	510.0	5.0	T				
				A0370	510.0	515.0	5.0	T				
				A0371	515.0	520.0	5.0	.005				
				A0372	520.0	525.0	5.0	tr				
		254.8 - 256.0: Coarse grained Diorite. Large crystals of pyroxene and hornblend - to ¼" in size - are set in a matrix of feldspar and minor chlorite.		A0373	525.0	530.0	5.0	tr				
				A0374	530.0	535.0	5.0	tr				
				A0375	535.0	540.0	5.0	0.14				
				A0376	540.0	545.0	5.0	0.04				
		295.0 - 302.5: Basic Dike. An equigranular rock of dioritic composition. Rock is mineralized in disseminated pyrite.		A0377	545.0	550.0	5.0	0.18				
				A0378	550.0	552.9	2.9	0.005				
				A0379	552.9	554.0	1.1	0.15		.07		
				A0380	554.0	558.0	4.0	0.03		.15		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
200.0	388.2	CONTD.	
		302.5 - 314.0: Ultrabasic intrusive. Soft, schistose, grey, evidence of coarse granular intrusive is non-existent. Schistosity at 25° W.C.A.	
		314.0 - 347.0: Medium - coarse grained ultrabasic Intrusive.	
		347.0 - 358.0: Ultrabasic intrusive. Soft, schistose, grey. Matty association of actinolite - tremolite, chlorite and serpentine. Schistosity at 40° W.C.A. Slickensiding at 355.0 parallel W.C.A.	
		358.0 - 378.0: Coarse grained Ultrabasic Intrusive. The coarse grained nature of this unit diminishes at about 378.0. The resulting rock, a finer grained non-porphyritic ultrabasic rock looks the same as the coarse grained intrusive and is of the same composition.	
		378.0 - 388.2: Fine grained Ultrabasic intrusive, non-porphyritic and not mineralized. The rock is a matty confusion of actinolite - tremolite, chlorite and serpentine. There is a gradual increase in biotite toward the bottom of the section. At 381.5 - 382.5: 1.0' section of intrusive that has been weakly silicified and consequently weakly mineralized in po and py combined 5%.	
388.2	393.3	INTERMEDIATE INTRUSIVE: Grey, fine-grained, dacitic rock weakly mineralized in disseminated po (2-3%). The bottom contact is particularly indicative of this unit's intrusive origin as its contact is irregular and cuts into the tuffaceous unit below. Top contact is at 70° W.C.A. Bottom contact is at 50° W.C.A. and irregular.	
393.3	407.9	FELSIC TUFF: A purplish, silicic unit with fragments forming intermittent bands and ranging in size from very fine to 4mm in size. The fragments are all milky white in colour and occur in a wide variety of shapes but all are streamlined with their long axis' perpendicular to the core axis. The tuff is very weakly mineralized in disseminated biotite in the matrix. Bottom contact is at 70° W.C.A. and is sharp.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.	Ag.	Cu.	SZn.	Pb.
A0381	558.0	562.0	4.0	0.02		.22		
A0382	562.0	565.0	3.0	0.005		.39		
A0383	565.0	569.0	4.0	0.09		.66		
A0384	569.0	570.0	1.0	0.17		.32		
A0385	570.0	572.0	2.0	0.19		.38		
A0386	572.0	576.0	4.0	0.01		.07		
A0387	576.0	580.0	4.0	tr		.09		
A0388	580.0	583.0	3.0	0.03		.18		
A0389	583.0	586.0	3.0	0.10		.17		
A0390	586.0	590.0	4.0	0.03		.27		
A0391	590.0	593.0	3.0	tr		.09		
A0392	593.0	598.0	5.0	0.005		.08		
A0393	598.0	603.0	5.0	0.22		.49		
A0394	603.0	608.0	5.0	0.06		.25		
A0395	608.0	613.0	5.0	0.01		.07		
A0396	613.0	618.0	5.0	0.01		.06		
A0397	618.0	620.0	2.0	0.09		.74		
A0398	620.0	625.0	5.0	0.02		.08		
A0399	625.0	630.0	5.0	0.005		.05		
A0400	630.0	635.0	5.0	0.02		.10		
A3001	635.0	640.0	5.0	tr				
A3002	640.0	645.0	5.0	tr				
A3003	645.0	649.0	4.0	tr				
A3004	649.0	652.0	3.0	0.01				
A3005	652.0	654.5	2.5	tr				
A3006	654.5	660.0	5.5	tr				
A3007	660.0	665.0	5.0	0.02				
A3008	665.0	670.0	5.0	0.03				
A3009	670.0	675.0	5.0	0.01				
A3010	675.0	680.0	5.0	nil				
A3011	680.0	685.0	5.0	nil				
A3012	685.0	690.0	5.0	N				
A3013	690.0	695.0	5.0	N				
A3014	695.0	700.0	5.0	T				
A3015	700.0	705.0	5.0	T				
A3016	705.0	710.0	5.0	N				
A3017	710.0	715.0	5.0	N				
A3018	715.0	720.0	5.0	N				
A3019	720.0	725.0	5.0	N				
A3020	725.0	730.0	5.0	T				
A3021	730.0	735.0	5.0	N				
A3022	735.0	740.0	5.0	N				
A3023	740.0	745.0	5.0	N				
A3024	745.0	750.0	5.0	N				
A3025	750.0	755.5	5.5	N				
A3026	755.5	758.9	3.4	N				
A3027	758.9	762.0	3.1	.005				
A3028	762.0	767.0	5.0	N				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
407.9	424.7	BASIC TUFF: Well bedded, mineralized basic rock, locally containing odd fragments to 1½" in size. Unit is generally fine grained and thinly bedded with a stress induced schistosity. Core surface is generally a light green colour and is soft - hardnes 3.0. Minor short silicification zones contain sulfides including chalcopyrite and pyrrhotite. Bedding at 408.0 - 80° W.C.A. Schistosity at 413.0 - 20° to parallel W.C.A.						
424.7	535.5	BASIC PILLOWED LAVA: Green, soft basic lava, weakly mineralized in pyrite and pyrrhotite, and is characterized by numerous and frequent coarse biotite zones which extend from ½" - 2". The biotite rich zones are the boundaries between the pillows and as a result occur in various orientations. A stress induced schistosity is very irregular. 497.8 - 500.0: Porphyritic black fine-grained intermediate dike. 415.0 - 450.0: This section is slickensided moderately at a very small angle with the core axis.						
535.5	632.0	INTERMEDIATE TUFFS AND LAVA: This is a distinct section in that it contains a great deal of silicification and quartz veining, whereas previous sections were totally 'dry'. Sulfide mineralization related to the silicification and quartz veining also increases noticeably. Biotization is very prominent particularly in close proximity to silicious enrichment. Non - schistose Hardness 6.0. 535.5 - 540.0: Intermediate Tuff. Brown, biotite rich, pyrrhotite mineralization, and massive. Unit turns fairly felsic toward the centre portion. Bedding at 540.0 - 60° W.C.A. 540.0 - 543.0: Similar to above section except that this unit is thinly bedded. Sulfide mineralization is in veinlet form and is conformable with bedding. Slight increase in chalcopyrite. 543.0 - 548.8: Intermediate Tuff: This unit contains lenses of brownish cherty material and the pyrrhotite content increases substantially. Bedding is well developed at 546.0 - 65° W.C.A. 548.8 - 550.2: Basic Lava. Medium grained, altered, greenish rock of basaltic to andesitic composition. Unit is massive and barren. Top contact is at 70° W.C.A. 550.2 - 560.0: Intermediate cherty tuff: A biotite rich intermediate rock, inhomogeneous, with cherty lenses throughout. The final three feet are cherty.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
535.5	632.0	CONTD.						
		560.0 - 572.9: Intermediate - basic Tuff: an inhomogeneous rock varying from intermediate - basic in composition. The biotite and epidote content vary substantially giving the rock a scrambled brownish - green appearance. Bedding is ill-defined for the most part of the rock, except that near the bottom bedding is present at 60° W.C.A. Sulfide mineralization is poor consisting of chalcopyrite and pyrrhotite related to silicification.						
		572.9 - 579.4: Basic Lava: A green, porphyritic, basic lava with randomly scattered phenocrysts of feldspar approximately 1/8" in size. Section is fairly homogeneous, massive and poorly bedded. Bottom contact is 70° W.C.A. Mineralization consists of weakly disseminated pyrrhotite.						
		579.4 - 592.5: Mixture of intermediate and basic material, mainly of the former however. This section contains the greatest concentration of mineralization of this sulfide zone. Bedding is very irregular and there is a great deal of biotization of the intermediate and basic material.						
		583.0 - 586.0: Silicified zone containing pyrrhotite (15%) and chalcopyrite (1%). The remainder of the zone contains good sections of po mineralization. A 3 inch section at 585.0 is a garnetiferous chloritic schist with almandite garnets reaching 1/8" in diameter.						
		592.5 - 608.7: Mixture of basic and intermediate tuffs both of which contain cherty sections. Sulfide mineralization is erratic with the ratio of chalcopyrite to pyrrhotite increasing significantly. Minor quartz veining contains weak sulfide mineralization. This section is weakly biotized but increases in intensity near silification.						
		608.7 - 632.0: Basic Tuffs: Green, non-schistose andesite - basaltic tuffs weakly mineralized in po and very weak cpy. Biotization is again of minor significance as there is very little silicification and quartz veining.						
632.0	652.0	BASIC TUFF: Weakly altered and biotized basic tuffs of basaltic - andesitic composition. Bedding is irregular through the section and sulfide mineralization is extremely poor consisting only as weak disseminations of po. Silicification is present but not of major significance.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
652.0	654.2	INTERMEDIATE INTRUSIVE: (Dike): Typical intermediate material, Biotite rich, silicious, sugary texture, brown, massive. Mineralization consists of disseminated po (3%). Both contacts are sharp at 50° W.C.A. There are thin (1/8" - ¼") chill margins at either end of this unit.						
654.2	663.9	BASIC - INTERMEDIATE TUFFS: A varied section of tuffs which range in composition from dark green basic to spotty, light coloured, silicious sections of felsic material. Bedding is irregular and the unit is weakly pyrrhotized and biotized. Only minor silicification present.						
663.9	758.9	BASIC TUFFS: Compositionally a fairly consistent unit of basaltic - andesitic origin. Irregular bedding and disrupted appearance suggests a tuffaceous origin. Biotization is very minor as is the sulfide mineralization.						
		708.0 - 755.3: A distinct tuffaceous unit in that the core surface is marked by white accumulations of fragments of approximately 2", spaced at intervals of 6". The rock is weakly altered; the mafics consists of green alteration products whereas the feldspars are relatively unaltered. This unit increases in coarseness toward the bottom and appears to grade into a medium-coarse grained ultrabasic intrusive.						
		755.3 - 757.8: Silicified breccia. Angular fragments of volcanic material are cemented by a bluish-green granular quartz. Many of the fragments are long and splintary. Interval is weakly mineralized in po. Bottom contact is sharp and perpendicular W.C.A.						
758.9	767.0	ULTRABASIC INTRUSIVE: Rock is composed of coarse phenocrysts (crystals) of hornblend and pyroxene (1/8" diameter). The rock is weakly altered, particularly the matrix which is a matty mixture of actinolite - tremolite, chlorite, and epidote. Mineralization is poor consisting of pyrite, pyrrhotite as fracture fillings.						
		Hardness 6.0.						
	767.0	END OF HOLE.						

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE	L210E	STARTED	March 2nd, 1975						
HOLE NO.	DLO - 38 - 17	DEPARTURE	203 + 00N	FINISHED	March 6th, 1975	200'	41°				
BEARING	GRID NORTH (0°)	ELEVATION		LENGTH	655.0'	400'	37°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	W. MELNYK	600'	34°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	ASSAYS Pb.
0	78.0	CASING		A3029	78.0	83.0	5.0	0.05				
				A3030	83.0	88.0	5.0	0.10				
78.0	93.5	ULTRABASIC INTRUSIVE: Soft, schistose, green basic rock mineralogically composed of actinolite-tremolite, serpentine, chlorite and calcite. The rock is light green on core surface and varies from grey to green on broken surface. The schistosity is generally from 10° to parallel with the core axis.		A3031	88.0	93.5	5.5	0.09				
				A3032	93.5	98.0	4.5	T				
				A3033	98.0	102.4	4.4	0.005				
				A3034	102.4	106.0	3.6	0.005				
				A3035	106.0	109.1	3.1	0.11				
				A3036	109.1	112.3	3.2	0.01				
				A3037	112.3	114.3	2.0	0.01	.094			
				A3038	114.3	119.2	4.9	0.16	23.0			
				A3039	119.2	124.1	4.9	T				
				A3040	124.1	129.0	4.9	0.20				
				A3041	129.0	133.4	4.4	T				
				A3042	133.4	135.0	1.6	0.06				
93.5	102.3	INTERMEDIATE LAVA: A homogeneous unit, fine grained, siliceous, dark brown-black on core surface and broken surface. Sulfide mineralization consists of fine grained disseminated po. The unit is competent and poorly fractured except for the top 0.7' where the unit is fractured moderately and subsequently mineralized with chalcopyrite and pyrrhotite.		A3043	135.0	140.0	5.0	T				
				A3044	140.0	145.0	5.0	T				
				A3045	145.0	150.0	5.0	T				
				A3046	150.0	155.0	5.0	T				
				A3047	155.0	158.0	3.0	T				
				A3048	158.0	161.9	3.9	N				
				A3049	161.9	165.0	3.1	N				
				A3050	165.0	170.0	5.0	N				
102.3	106.0	FELSIC LAVA: A greyish-purplish, fine grained rock mineralized in disseminated pyrrhotite and traces of chalcopyrite along fractures. The core surface is distinctly white-bleached, blotchy. The top 0.3' is irregularly fractured (shattered) and mineralized in po and cpy.		A3051	170.0	175.0	5.0	N				
				A3052	175.0	180.0	5.0	N				
				A3053	180.0	185.0	5.0	0.03				
				A3054	185.0	188.0	3.0	0.04				
				A3055	188.0	191.5	3.5	0.01				
				A3056	191.5	196.6	5.1	0.01				
				A3057	196.6	201.0	4.4	N				
				A3058	201.0	205.0	4.0	T				
				A3059	205.0	210.0	5.0	0.03				
				A3060	210.0	215.0	5.0	0.02				
				A3061	215.0	220.0	5.0	0.01				
				A3062	220.0	225.0	5.0	.32				
				A3063	225.0	230.0	5.0	0.01				
				A3064	230.0	235.0	5.0	T				
				A3065	235.0	240.0	5.0	0.04		0.13		

Weak k-spar alteration is related to fractures which are parallel with the core axis.
The bottom contact is sharp at 40° W.C.A.

REGISTERED PROFESSIONAL ENGINEER
P. J. MARINGOLA
PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
106.0	112.0	BASIC LAVA: Soft, schistose, weakly mineralized rock composed of the alteration minerals actinolite - tremolite, chlorite and serpentine. Unit is grey on broken surface and light green on core surface. Probably a lava because of its homogeneity and evidence of flow banding near the bottom of the interval. Sulfide mineralization consists of weakly disseminated pyrrhotite. Schistosity is at 60° W.C.A. Bottom contact is at 70° W.C.A. Hardness 3.0		A3066	240.0	243.0	3.0	0.01		0.05		
				A3067	243.0	245.9	2.9	T		0.03		
				A3068	245.9	249.0	3.1	N		0.017		
				A3069	249.0	252.0	3.0	T		0.026		
				A3070	252.0	256.5	4.5	T		0.026		
				A3071	256.5	259.2	2.7	T		0.023		
				A3072	259.2	261.4	2.2	0.01		0.22		
				A3073	261.4	265.0	3.6	0.05		0.15		
				A3074	265.0	267.0	2.0	0.03		0.13		
				A3075	267.0	270.0	3.0	T		0.05		
112.0	114.2	INTERMEDIATE AGGLOMERATE: An agglomeratic unit of intermediate to felsic composition with fragments of up to 3 inches in diameter. The matrix is biotite rich and contains some sulfide mineralization concentrated in the intersticies amongst the fragments. Bottom contact is approximately 40° W.C.A. Hardness 5.5.		A3076	270.0	275.0	5.0	T		0.020		
				A3077	275.0	280.0	5.0	T		0.06		
				A3078	280.0	285.0	5.0	0.01		0.14		
				A3079	285.0	290.0	5.0	T		0.11		
				A3080	290.0	295.0	5.0	0.02		0.11		
				A3081	295.0	298.0	3.0	0.01		0.18		
				A3082	298.0	300.2	2.2	0.22		0.17		
114.2	124.1	BASIC TUFFS: Soft, schistose, green basic rock composed of the alteration minerals, actinolite-tremolite chlorite and serpentine. Identified as a tuff because of irregular bedding and erratic sulfide content. At 114.2: The tuff is thinly bedded and disrupted at the contact probably due to the agglomeratic material tumbling onto a partially fluid tuff. At 117.0 - 118.0: Sulfide mineralization consisting of pyrrhotite (8%) and chalcopyrite (trace). Schistosity is at 30° W.C.A. through section Bedding at 117.0 - 60° W.C.A.		A3083	300.2	305.0	4.8	0.04		0.18	.116	
				A3084	305.0	310.0	5.0	0.04		0.12	17.0	
				A3085	310.0	315.0	5.0	0.22		0.13		
				A3086	315.0	320.0	5.0	0.02		0.07		
				A3087	320.0	325.0	5.0	T		0.03		
				A3088	325.0	330.0	5.0	0.08		0.08	.09	
				A3089	330.0	335.0	5.0	0.10		0.08	10	
				A3090	335.0	340.0	5.0	0.02		0.26		
				A3091	340.0	342.0	2.0	T		0.42		
				A3092	342.0	344.2	2.2	T		0.19		
				A3093	344.2	348.0	3.8	0.01		0.31		
				A3094	348.0	350.0	2.0	0.06		0.40		
124.1	125.0	INTERMEDIATE INTRUSIVE: Typical intermediate mineralogical constitution and appearance, homogeneous. Sulfide mineralization consists of disseminated pyrrhotite (5%). Bottom contact at 70° W.C.A.		A3095	350.0	355.0	5.0	0.08		0.07		
				A3096	355.0	360.0	5.0	T				
				A3097	360.0	365.0	5.0	T				
				A3098	365.0	370.0	5.0	0.07				
				A3099	370.0	375.0	5.0	0.01				
125.0	129.3	BASIC LAVA: A soft schistose, light green, basic rock. Unit is inhomogeneous with short biotite rich sections which may be contacts between pillows. The biotite is brown and coarse grained. Weak sulfide mineralization is related to 'slip' surfaces and includes chalcopyrite and pyrrhotite. Bottom contact is at 30° W.C.A. Hardness 3.0.		A3100	375.0	380.0	5.0	0.02				
				A3101	380.0	385.0	5.0	0.01				
				A3102	385.0	390.0	5.0	0.04				
				A3103	390.0	395.0	5.0	T				
				A3104	395.0	400.0	5.0	T				
				A3105	400.0	405.0	5.0	T				
				A3106	405.0	410.0	5.0	T				
				A3107	410.0	415.0	5.0	T				
129.3	133.2	INTERMEDIATE LAVA: Typical intermediate rock. The top 1.5' may be a flow breccia as angular fragments to 4" are cemented with a coarse biotite rich matrix of intermediate material. The bottom of the interval is also brecciated containing short sections of pyrrhotite enrichment.		A3108	415.0	420.0	5.0	N				
				A3109	420.0	425.0	5.0	N				
				A3110	425.0	430.0	5.0	N				
				A3111	430.0	435.0	5.0	N				
				A3112	435.0	440.0	5.0	N				
				A3113	440.0	445.0	5.0	N				
				A3114	445.0	450.0	5.0	N				
				A3115	450.0	455.0	5.0	N				
				A3116	455.0	460.0	5.0	N				
				A3117	460.0	465.0	5.0	N				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
133.2	134.0	FELSIC LAVA: A siliceous, fine grained porphyritic rock with phenocrysts of feldspar up to 1/8" in length. There are scattered laths of greenish mafic material. Sulfide mineralization consists of disseminated pyrrhotite (1-2%). Top contact is granulated.		A3118	465.0	470.0	5.0	T				
				A3119	470.0	475.0	5.0	T				
				A3120	475.0	480.0	5.0	T				
				A3121	480.0	485.0	5.0	T				
				A3122	485.0	490.0	5.0	T				
				A3123	490.0	495.0	5.0	N				
134.0	158.0	BASIC INTRUSIVE: Soft, schistose, green rock composed of actinolite-tremolite, chlorite and serpentine. The rock is light greenish-grey on core surface to grey on broken surface. Unit is homogeneous with a few zones of banded, contorted chloritic material. Rock is magnetic after disseminated pyrrhotite. Schistosity is 10° - 30° W.C.A. Unit gets appreciably harder toward bottom of the section. Hardness 3.0.		A3124	495.0	500.0	5.0	N				
				A3125	500.0	505.0	5.0	N				
				A3126	505.0	510.0	5.0	N				
				A3127	510.0	515.0	5.0	N				
				A3128	515.0	520.0	5.0	N				
				A3129	520.0	525.0	5.0	T				
				A3130	525.0	530.0	5.0	T				
				A3131	530.0	535.0	5.0	T				
158.0	162.0	ULTRABASIC INTRUSIVE: A hard basic, fine-grained rock weakly altered. On core surface the rock is dark-green to black, same on broken surface. Unit is mineralized in disseminated pyrrhotite (4%). This fine-grained rock grades into the coarse grained unit below. Hardness 6.0.		A3132	535.0	540.0	5.0	T				
				A3133	540.0	545.0	5.0	T				
				A3134	545.0	550.0	5.0	T				
				A3135	550.0	555.0	5.0	T				
				A3136	555.0	560.0	5.0	N				
				A3137	560.0	565.0	5.0	N				
162.0	189.1	ULTRABASIC INTRUSIVE: Large crystals of pyroxene and amphibole are set in a matrix of alteration minerals including chlorite and serpentine. The rock has been uralitized extensively making indentification of the large crystals difficult. Unit is massive and homogeneous. Feldspar content increases near the bottom and the rock is not as altered as above. At 164.5: A 2" section of feldspar enrichment which has been subjected to k-spar alteration. Minor chalcopyrite and pyrrhotite is related to a quartz vein. Bottom contact is sharp at 30° W.C.A.		A3138	565.0	570.0	5.0	N				
				A3139	570.0	575.0	5.0	N				
				A3140	575.0	580.0	5.0	T				
				A3141	580.0	585.0	5.0	N				
				A3142	585.0	590.0	5.0	T				
				A3143	590.0	595.0	5.0	N				
				A3144	595.0	600.0	5.0	N				
				A3145	600.0	605.0	5.0	N				
				A3146	605.0	610.0	5.0	N				
				A3147	610.0	615.0	5.0	N				
				A3148	615.0	620.0	5.0	N				
189.1	191.5	BASIC LAVA: Grey, soft, schistose basic rock weakly mineralized with disseminated pyrrhotite. Top 1.0' of section is hard, slickensided and mineralized in pyrrhotite. Succeeding unit is soft and exhibits flow features at 35° W.C.A.		A3149	620.0	625.0	5.0	N				
				A3150	625.0	630.0	5.0	N				
				A3151	630.0	635.0	5.0	N				
				A3152	635.0	640.0	5.0	N				
				A3153	640.0	645.0	5.0	N				
191.5	196.6	INTERMEDIATE LAVA: Typical intermediate material, fine-grained, massive, brown on core surface and broken surface. Sulfide mineralization consists of disseminated pyrrhotite (1-2%). The top 1.0' is a a flow-top breccia with fragments partially resorbed in the biotite rich cementing material. The bottom contact is very sharp at 60° W.C.A. and has a chill margin of ½" with an associated increase of biotite. 194.5 - 195.5: Unit is porphyritic with phenocrysts of feldspar 1/16" long scattered randomly.		A3154	645.0	650.0	5.0	T				
				A3155	650.0	655.0	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
196.6	205.5	FELSIC LAVA: A porphyritic, grey, fine-grained siliceous unit, massive and homogeneous. On broken surface the rock has a brownish cast as a result of finely disseminated biotite in the matrix. The phenocrysts have been sericitized extensively, consequently only white circular blotches to 1/10" diameter remain. The rock is mineralized in disseminated pyrrhotite (3%).						
		At 197.0: A 3" section of intermediate material, intrusive with respect to the felsic unit.						
		Top and bottom contacts are at 60° W.C.A.						
205.5	244.5	BASIC TUFFS: A varied unit consisting of basic tuffs which for the most part are thinly bedded, biotite rich and sparsely mineralized in pyrrhotite and chalcopyrite. Unit is soft and green except for a section from 220.0 - 222.0 where the unit is hard due to metamorphism.						
		Bedding: 210.0 - 90° W.C.A.; 228.0 - 60° W.C.A.						
		Schistosity 213.0 - 15° W.C.A.; 226.0 - 30° W.C.A.						
		227.1 - 228.0: Felsic lava - Similar to 196.5 - 205.5. Faint sericitic remnants of feldspar phenocrysts and mineralized in disseminated po and py. Flow features indicate bedding at 60° W.C.A.						
244.5	245.9	DIABASE DIKE: Medium grained, unaltered, weakly mineralized in disseminated pyrrhotite.						
245.9	246.3	FELSIC LAVA OR INTRUSIVE: A whitish-grey siliceous rock. Fabric of the rock is clouded by minute flakes of chlorite and biotite.						
		Both contacts at 50° W.C.A.						
246.3	247.2	BASIC INTRUSIVE - DIKE: An equigranular intrusive rock of quartz dioritic composition. Rock is medium to coarse grained containing free quartz and is weakly altered.						
		Contacts are vague.						
		Hardness 6.0.						
247.2	252.0	BASIC LAVA OR TUFF: A medium grained unit, hard, black on core surface, same on broken surface. Core surface is 'sprinkled' with clusters of minute crystals of feldspar to 1/16" in size.						
		Mineralization consists of disseminated pyrrhotite.						
252.0	256.5	FELSIC LAVA OR TUFF: A greyish-black-purplish, siliceous unit. The rock is porphyritic with phenocrysts of feldspar reaching to 1/8" in length. Sulfide mineralization consists of disseminated pyrrhotite and chalcopyrite.						
		Top contact is at 40° W.C.A.						
		Bottom contact is at 50° W.C.A.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
256.5	350.0	BASIC TUFFS: Silicified and mineralized basic tuffs. Tuffs are thinly and irregularly bedded over the entire length. Biotization is very prominent particularly near quartz veining. 259.3 - 261.3: Two quartz veins with associated massive pyrrhotite and trace of chalcopyrite near bottom. Pyrrhotite contains fragments of tuff to 2" in size near bottom. 261.3 - 350.0: Sulfide mineralization consists of blebs and lenses of pyrrhotite and chalcopyrite. There is a small increase in the chalcopyrite - pyrrhotite ratio toward the bottom of section. Hardness 6.0.						
350.0	407.0	BASIC TUFFS: Compositionally these tuffs are the same as the previous unit except that these tuffs are very poorly mineralized with odd blebs and fracture fillings of chalcopyrite and pyrrhotite. Silicification drops off drastically with only a few scattered quartz vein. Similarly biotization is very minor. Hardness 6.0.						
407.0	414.0	TUFFITE: Rock is distinct in that it contains interlayered bands of feldspar and mafic material. Mafic material consists of pyroxene, epidote, hornblend and chlorite. Sulfide mineralization consists of disseminated pyrrhotite. Hardness 6.0.						
414.0	483.5	BASIC LAVA: Fine-medium grained andesitic- basaltic lava. This weakly altered rock is composed of feldspar, pyroxene, hornblend and chlorite. Rock is magnetic only in the presence of pyrrhotite occurring in disseminated form. The core surface is characterized by the presence of small (to ¼" diameter) spherical silicified 'blotchs'. This unit is thoroughly homogeneous over its entire length. Hardness 6.0.						
483.5	507.9	PORPHYRITIC BASIC LAVA: Essentially same as previous section except that this section contains 30 - 40° white phenocrysts of feldspar uniformly distributed through the rock. Rock is weakly altered and poorly mineralized in disseminated pyrrhotite.						
507.9	523.9	BASIC LAVA: Probably the same type of rock as the two previous sections except that this section has undergone dynamic reworking thus inducing schistosity to the rock and partially promoting metamorphism of the mineralogy. Bedding 524.0 - 60° W.C.A. Schistosity 513.8 - 70° W.C.A.						
523.9	540.0	BASIC LAVA: Weakly altered basic rock of andesitic - basaltic composition. Constituents include pyroxene, amphibole and feldspar. The feldspars are clouded and greenish. Sulfide mineralization consists of disseminated po (2-3%) Bottom contact is at 40° W.C.A. Hardness 6.0.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
540.0	549.5	DIABASE DIKE: Mafic, fine-grained rock composed of pyroxene, amphibole and calcic plagioclase. Unit increases in coarseness toward bottom of interval. Sulfide mineralization consists of disseminated pyrite and pyrrhotite (5% combined). Bottom contact is gradational. Grain size continually increases and blends into the coarse grained ultrabasic intrusive. Unit is weakly shattered.						
549.5	592.0	ULTRABASIC INTRUSIVE: Unit is uniform with large crystals of pyroxene and hornblende set in a matrix of chlorite and fibrous amphibole. On core surface the rock is dark-green to grey in colour and is neither mineralized nor magnetic. This intrusive unit contains small feldspar rich blotches which have been subjected to potash enrichment. 562.5 - 565.0: Remobilized Intrusive. Fragments of coarse grained intrusive to 2" in diameter are welded in a greyish fine-grained ultrabasic matrix mineralized in disseminated pyrrhotite; as a result the rock is weakly magnetic.						
592.0	604.5	DIABASE DIKE: Similar to 540.0 - 549.5 except that the feldspar content increases substantially to 25%. Rock is not altered and is medium grained, composed of pyroxene, amphibole and feldspar. Sulfide mineralization consists of 3% disseminated pyrrhotite. Top contact is at 15° W.C.A. Hardness 6.0.						
604.5	606.0	ULTRABASIC INTRUSIVE: Similar to coarse grained interval except that this portion has been stressed and only large rounded pyroxene crystals remain intact in a matty matrix. Rock contains a great deal of chlorite and serpentine. Top contact is at 70° W.C.A. Hardness is 5.0 - 5.5.						
606.0	611.5	BASIC LAVA:- INTRUSIVE: Shattered, weakly altered rock of doubtful origin. This unit is similar to some of the previous weakly altered lavas except that some ultrabasic material may be intermixed. Major fractures are at 30° W.C.A., same as the schistosity. Sulfide mineralization is related to fracturing and includes pyrite and pyrrhotite. Bottom contact is at 50° W.C.A. Hardness 6.0.						
611.5	618.8	INTERMEDIATE TUFF: Siliceous, dark brown to black on core surface and broken surface. Minute flakes of biotite in this fine grained unit give the rock a brown colour. This unit is banded and contains two narrow cherty sections at 615.0. Bedding at 615.5 - 50° W.C.A.						

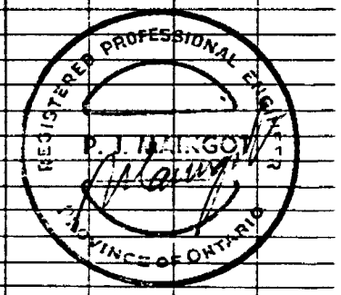
FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
618.8	636.7	BASIC LAVA - INTRUSIVE: Similar to 606.0 - 611.5. This section contains feldspar veinlets, some of which have been altered to k-spar sulfide mineralization consists of disseminated po and py.						
636.7	638.5	ULTRABASIC INTRUSIVE: Same as 604.5 - 606.0. Top contact at 60° W.C.A. Bottom contact at 30° W.C.A.						
638.5	655.0	BASIC LAVA: Andesitic rock, shattered, dark green on core surface and greyish-green on broken-surface. Unit is weakly altered and sparsely mineralized in disseminated pyrrhotite and pyrite. Pyrite is mainly concentrated along fractures. Minor k-spar alteration is associated with feldspar veinlets. 653.3 - 653.6: Silicification containing pyrite and epidote.						
	655.0	END OF HOLE.						

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

				DIP TEST					
PROPERTY	DETOUR LAKES	LATITUDE L214E	STARTED March 29th, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	38 - 25	DEPARTURE 206+ 00N	FINISHED April 4th, 1975	200'	$45\frac{1}{2}^{o}$				
BEARING	GRID NORTH (360°)	ELEVATION	LENGTH 527.0'	400'	$39\frac{1}{2}^{o}$				
DIP-COLLAR	-45°	SECTION	LOGGED BY W. MELNYK						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	116.0	CASING	
116.0	228.0	BASIC LAVA: A series of recrystallized basic lavas varying considerably in sulfide content, quartz veining, biotite alteration, colour and grain size. These lavas are predominantly hard but there are sections which have a hardness of 5.0.	
		116.0 - 169.0: These rocks are a varying green colour dependant on the extent of chloritization. Short intervals of this section are porphyritic containing both feldspar and pyroxene phenocrysts. The prominant features of this section are the sulfide content and biotite alteration. Sulfide mineralization consists of fracture fillings of pyrite, pyrrhotite and chalcopyrite. Pyrite is the most prominant sulfide in this section whereas chalcopyrite is related to quartz veining. Biotite alteration is particularly common near quartz veining and silicification. A short schistose section from 148.0 - 150.0 contains subhedral - anhedral reddish - brown garnets to 1/8" in diameter. This unit is thoroughly fractured. Metamorphic lineation and quartz veining is consistantly at 50° W.C.A. Hardness: 5.5 - 6.0.	
		169.0 - 207.0: This section is medium grained, lineated, contains minor biotite alteration, and is mineralized to a lesser extent than previous section. Pyrite is the dominant sulfide. One false feature of this section is a colour banding resulting from drilling abraisve action which may be mistaken for tuffaveous bedding. Prominent lineation at 50° W.C.A. Hardness 4.5 - 6.0.	
		207.0 - 228.0: This section is massive, vaguely lineated, and varies in colour from a predominent dark greenish-black to a light green. Unit is fine-medium grained and contains small crystals of feldspar randomly	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
A5106	116.0	120.0	4.0	0.01
A5107	120.0	125.0	5.0	Tr
A5108	125.0	130.0	5.0	0.02
A5109	130.0	135.0	5.0	0.02
A5110	135.0	140.0	5.0	0.01
A5111	140.0	145.0	5.0	0.01
A5112	145.0	150.0	5.0	0.17
A5113	150.0	155.0	5.0	0.02
A5114	155.0	160.0	5.0	0.04
A5115	160.0	165.0	5.0	0.10
A5116	165.0	170.0	5.0	0.09
A5117	170.0	175.0	5.0	0.03
A5118	175.0	180.0	5.0	0.32
A5119	180.0	185.0	5.0	0.005
A5120	185.0	190.0	5.0	0.01
A5121	190.0	195.0	5.0	0.01
A5122	195.0	200.0	5.0	0.01
A5123	200.0	205.0	5.0	0.02
A5124	205.0	210.0	5.0	Tr
A5125	210.0	215.0	5.0	Tr
A5126	215.0	220.0	5.0	0.03
A5127	220.0	225.0	5.0	Tr
A5128	225.0	230.0	5.0	Tr
A5129	230.0	235.0	5.0	Tr
A5130	235.0	240.0	5.0	Tr
A5131	240.0	245.0	5.0	Tr
A5132	245.0	250.0	5.0	Tr
A5133	250.0	255.0	5.0	Tr
A5134	255.0	260.0	5.0	Tr
A5135	260.0	265.0	5.0	Tr
A5136	265.0	270.0	5.0	0.01
A5137	270.0	275.0	5.0	0.01
A5138	275.0	280.0	5.0	0.01
A5139	280.0	285.0	5.0	Tr
A5140	285.0	290.0	5.0	Tr
A5141	290.0	295.0	5.0	Tr
A5142	295.0	300.0	5.0	Tr



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
		207.0 - 228.0: CONTD. scattered through the section. Sulfide mineralization consists of fracture fillings of pyrite and disseminations of pyrrhotite. Silicification and quartz veining are minor. Hardness 6.5.		A5143	300.0	305.0	5.0	0.04
				A5144	305.0	310.0	5.0	Tr
				A5145	310.0	315.0	5.0	Tr
				A5146	315.0	320.0	5.0	0.005
				A5147	320.0	325.0	5.0	0.005
				A5148	325.0	330.0	5.0	0.01
				A5149	330.0	335.0	5.0	Tr
228.0	228.8	FELSIC TUFF: This unit is purplish, fine grained, and contains a scattering of white fragments (1-2%) reaching to 1/16" in length. Some of the fragments are a reddish-pink colour. Unit is massive and poorly fractured. Top and bottom contacts at 50° W.C.A.		A5150	335.0	340.0	5.0	Tr
				A5151	340.0	345.0	5.0	0.02
				A5152	345.0	350.0	5.0	Tr
				A5153	350.0	355.0	5.0	Tr
				A5154	355.0	360.0	5.0	Tr
				A5155	360.0	365.0	5.0	Tr
228.8	265.0	BASIC LAVAS: These lavas are hard, medium grained, dark green to black in colour on core surface and are generally lineated. The grain size, texture and colour vary somewhat in this section as short intervals of lava may be finer grained and lighter in colour than the rest of the sequence. Lineation is of two types: Altered feldspar material and blebs of elongated pyrrhotite. Sulfide mineralization consists of blebs of pyrrhotite and smears of pyrite related to fractures. On dry core surface the rock is distinguished by the pressence of large white clots of altered feldspar material. Lineation varies from 40° - 50° W.C.A. Hardness 5.5 - 6.0.		A5156	365.0	370.0	5.0	Tr
				A5157	370.0	375.0	5.0	Tr
				A5158	375.0	380.0	5.0	Tr
				A5159	380.0	385.0	5.0	Tr
				A5160	385.0	390.0	5.0	Tr
				A5161	390.0	395.0	5.0	Tr
				A5162	395.0	400.0	5.0	Tr
				A5163	400.0	405.0	5.0	Tr
				A5164	405.0	410.0	5.0	NIL
				A5165	410.0	415.0	5.0	Tr
				A5166	415.0	420.0	5.0	NIL
				A5167	420.0	425.0	5.0	NIL
				A5168	425.0	430.0	5.0	NIL
				A5169	430.0	435.0	5.0	NIL
265.0	265.5	CHERTY TUFF: A cherty, purplish-orangish rock, fine grained and banded crudely at 30° W.C.A. Orange tinge is due to k-spar alteration. Sulfide mineralization is nil. Bottom contact is at 30° W.C.A.		A5170	435.0	440.0	5.0	NIL
				A5171	440.0	445.0	5.0	NIL
				A5172	445.0	450.0	5.0	NIL
				A5173	450.0	455.0	5.0	NIL
				A5174	455.0	460.0	5.0	NIL
265.5	267.1	BASIC TUFF: A thinly bedded, light green-grey basic rock with bedding at 30° W.C.A. Pyrrhotite is the main sulfide present occurring as blobs and thin lensoid inclusions generally conformable with bedding. Top and bottom contacts at 30° W.C.A.		A5175	460.0	465.0	5.0	0.01
				A5176	465.0	470.0	5.0	Tr
				A5177	470.0	475.0	5.0	Tr
				A5178	475.0	480.0	5.0	Tr
				A5179	480.0	485.0	5.0	NIL
267.1	269.9	FELSIC TUFF: A purplish, in part bleached felsic rock containing minute flakes of biotite in the matrix to give the rock a purplish-brownish colour. The core surface is speckled by white crystals-fragments reaching to 1/16" in size. Rock is massive and homogeneous. 268.7 - 269.1: Basic and cherty inclusion. Bottom contact at 50° W.C.A.		A5180	485.0	490.0	5.0	Tr
				A5181	490.0	495.0	5.0	Tr
				A5182	495.0	500.0	5.0	Tr
				A5183	500.0	505.0	5.0	Tr
				A5184	505.0	510.0	5.0	Tr
				A5185	510.0	515.0	5.0	0.02
				A5186	515.0	520.0	5.0	0.01
269.9	296.8	BASIC LAVAS: A thoroughly inhomogeneous assortment of lavas, ranging from fine-medium grained, massive to lineated, and varying in colour from grey to dark green. Sulfide mineralization is poor with only fracture fillings of pyrite and disseminations pyrrhotite. Silicification and quartz veining is very poor. Hardness 6.0.		A5187	520.0	525.0	5.0	Tr
				A5188	525.0	527.0	2.0	Tr

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
296.8	368.0	BASIC LAVAS: For the most part a sequence of medium-coarse grained basic flows, homogeneous, massive, locally weakly lineated. The top portion is a dark green colour while the bottom section is a lighter green colour. The core surface is blotchy - white feldspar alteration products to $\frac{1}{4}$" in diameter. Sulfide mineralization is very poor. Minor silicification and quartz veining. Hardness 6.0.						
368.0	375.2	BASIC LAVA: A distinct flow in that this unit is medium to coarse grained, light green in colour and contains 20% leucocratic minerals byvolume. The rock is massive, uralitized and chloritized. The feldspars have undergone minor k-spar alteration. Hardness 3.5.						
375.2	453.5	BASIC LAVA: A homogeneous, black dark grey, fine grained basic lava. Rock is massive and is neither lineated nor schistose. Sulfide mineralization consists of blebs and disseminations of pyrrhotite and odd fracture fillings of pyrite. Silicification and quartz veining is extremely poor. Hardness 6.0.						
453.5	458.0	BASIC LAVA: A soft, schistose, light green basic rock altered very well to the common green alteration minerals - chlorite, actinolite-tremolite. Schistosity is constant at 30° W.C.A. Unit is homogeneous. Some slickensiding at 457' is parallel W.C.A. Hardness 3.5.						
458.0	476.5	BASIC LAVA: A fine medium grained, black-dark green, massive. Vaguely lineated basic lava. Sulfide content is nil. Top 1.0' of this unit contains a quartz vein and is mineralized in pyrite. Hardness 6.0.						
476.5	487.5	BASIC - INTERMEDIATE LAVA: A fine grained, siliceous, hard, grey, competent unit, grain size increasing toward middle of section. Pink alteration material is associated with the coarsening of unit. Unit has been weakly shattered but is wholely competent. Top contact is at 50° W.C.A. Bottom contact is irregular. Hardness 6.0.						
487.5	527.0	BASIC LAVA: This lava is distinct because it contains up to 40% by volume leuco minerals. Unit is medium coarse grained, very weakly lineated and is dark green in colour except where leuco content increases. Hardness 6.0.						
	527.0	END OF HOLE.						

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

PROPERTY	DETOUR LAKES	LATITUDE	198 + 00 N	STARTED	JULY 16th, 1975
HOLE NO.	DLO - 38 - 57	DEPARTURE	152 + 00 E	FINISHED	JULY 21st, 1975
BEARING	180°	ELEVATION		LENGTH	747 FEET
DIP-COLLAR	- 50°	SECTION		LOGGED BY	BABU GAJARIA

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	49°	747'	31°		
400'	46°				
No Test at 600'					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
				A6870	[illegible].0	110.0	4.0	.01				
0	106.0	CASING		A6871	110.0	115.0	5.0	T				
				A6872	115.0	117.0	2.0	T				
106.0	239.4	MAFIC LAVA FLOW (la)		A6873	117.0	118.0	1.0	.01		.91		whole core
		Green in colour, medium grained, amphibolised, moderately schistose,		A6874	118.0	120.0	2.0	T				
		characteristically contains carbonate blebs. Numerous quartz veins are		A6875	120.0	125.0	5.0	T				
		present, which lie parallel to the schistosity, and average a total of 7"		A6876	125.0	130.0	5.0	.01				
		of quartz veinlets per any 10 foot section. Some biotite alteration is		A6877	130.0	135.0	5.0	T				
		associated with quartz veining.		A6878	135.0	140.0	5.0	.01				
		106: Schistosity/core axis angle is 50°		A6879	140.0	142.0	2.0	T				
		126: Schistosity/core axis angle is 47°		A6880	142.0	143.5	1.5	1.19				V.G.
				A6881	143.5	145.0	1.5	.02				
		106.8: 2 $\frac{1}{2}$" quartz veinlets with diss. py and cpy		A6882	145.0	150.0	5.0	.02				
		110.1: $\frac{1}{2}$" quartz vein with lenticular po and tr cpy.		A6883	150.0	155.0	5.0	T				
		117.2 - 117.4: Quartz vein - 1/3 of which is infilled with		A6884	155.0	160.0	5.0	T				
		chalcopyrite, and some pyrrhotite.		A6885	160.0	165.0	5.0	T				
		122.1: 1" quartz vein with lenticular pyrite.		A6886	165.0	170.0	5.0	T				
		123.3: 1/8" quartz veinlet infilled with chalcopyrite.		A6887	170.0	175.0	5.0	T				
		135.7: 1" quartz vein - barren		A6888	175.0	180.0	5.0	T				
		142.8: $\frac{1}{2}$" quartz vein, cross-cutting schistosity -	2 specks V.G.	A6889	180.0	185.0	5.0	T				
		30% of the vein is infilled with cpy.		A6890	185.0	190.0	5.0	.09				
		146.0: 1" quartz vein, $\frac{1}{4}$ filled with pyrite.		A6891	190.0	195.0	5.0	.22	.155 / 10			
		220.0: Schistosity/core axis angle is 50°.		A6892	195.0	200.0	5.0	T				
		205.7: 1" Quartz vein, $\frac{1}{2}$ filled with pyrite and $\frac{1}{4}$		A6893	200.0	205.0	5.0	T				
		with chalcopyrite.		A6894	205.0	206.0	1.0	T				w/core
		206.3: 1$\frac{1}{2}$" quartz vein - barren.		A6895	206.0	210.0	4.0	T				
				A6896	210.0	215.0	5.0	N				
		219.4 - 227.9: MAFIC TUFF (lc): Fine grained, green in		A6897	215.0	220.0	5.0	T				
		colour, well schistose, numerous carbonate		A6898	220.0	225.0	5.0	T				
		blebs, appears to show alternate beds.		A6899	225.0	230.0	5.0	T				
		227.9 - 229.0: FLOW BRECCIA: Light green, intermixed	3% py	A6900	230.0	235.0	5.0	T				
		flow and fragments, concentration of pyrite.		A6901	235.0	240.0	5.0	.005				
				A6902	240.0	245.0	5.0	T				
239.4	257.0	MAFIC LAVA FLOW (la)		A6903	245.0	250.0	5.0	T				
		This unit is characteristically different from above in that it shows an		A6904	250.0	255.0	5.0	T				
		abundance of carbonate blebs (30%), the rock is well schistose and shows		A6905	255.0	257.0	2.0	T				
		good flow features. The rock is even grained. Gradational contact with		A6906	257.0	258.0	1.0	.03				V.G.
		the mafic flow below. No sulphides.		A6907	258.0	260.0	2.0	T				
		245: Schistosity/core axis angle is 65°.		A6908	260.0	265.0	5.0	T				
				A6909	265.0	270.0	5.0	T				

REGISTERED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO P.J. MARCOTTE

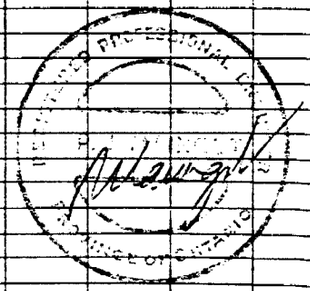
FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.	Ag.	Cu.	Zn.	
				A6910	270.0	275.0	5.0	T				
257.0	294.9	MAFIC LAVA FLOW (1a)		A6911	275.0	280.0	5.0	T				
		Medium grained, green in colourm amphibolised, characteristically		A6912	280.0	285.0	5.0	T				
		contains carbonate blebs, but fewer than above, the rock is well schistose.		A6913	285.0	290.0	5.0	T				
		Gradational contact with intermediate tuff below.		A6914	290.0	295.0	5.0	T				
				A6915	295.0	300.0	5.0	.02				
294.9	318.9	INTERMEDIATE TUFF (2c)		A6916	300.0	305.0	5.0	T				
		Light green to buff brown in colour, well bedded, alternation of chlorite	½% po, ¼% py	A6917	305.0	310.0	5.0	.01				
		and biotite rich bands. Contains blebs of pyrrhotite.		A6918	310.0	315.0	5.0	T				
		Quartz - carbonate veinlets are parallel to the schistosity.		A6919	315.0	320.0	5.0	T				
		312: Bedding/core axis angle is 60°.		A6920	320.0	325.0	5.0	.05				
		257.3: 3/4" quartz vein, parallel to the schistosity,	V.G.(?)	A6921	325.0	330.0	5.0	T				
		containing pyrite, po and possibly 1 speck of V.G.		A6922	330.0	335.0	5.0	T				
		260.0: 3/4" quartz vein, po and py and cpy.		A6923	335.0	340.0	5.0	T				
		304.2: ¼" quartz vein with lenticular cpy.		A6924	340.0	345.0	5.0	T				
		313.5 - 318.9:	3% py, 1%po, ¼% cpy	A6925	345.0	347.0	2.0	T				
				A6926	347.0	348.0	1.0	T				whole core
318.9	327.0	INTERMEDIATE TO FELSIC TUFF (2c to 4C)		A6927	348.0	350.0	2.0	T				
		Light green to purple in colour, thinly bedded, highly siliceous, cherty		A6928	350.0	355.0	5.0	N				
		in places.		A6929	355.0	360.0	5.0	N				
		319.3 - 320.1: Quartz vein	1% py	A6930	360.0	365.0	5.0	N				
		321.4 - 322.9: Concentration of pyrite in host rock not in vein.		A6931	365.0	370.0	5.0	N				
		Quartz vein.		A6932	370.0	375.0	5.0	N				
327.0	328.7	FELSIC TUFF (4c) - Cherty:		A6933	375.0	380.0	5.0	N				
		Dark grey purple in colour, highly siliceous, thinly bedded.	1% py, ¼% cpy	A6934	380.0	385.0	5.0	N				
				A6935	385.0	390.0	5.0	N				
328.7	332.1	INTERMEDIATE FLOW (2a)		A6936	390.0	395.0	5.0	N				
		Light green in colour at core surface, on broken surface it is purple in	tr py	A6937	395.0	400.0	5.0	N				
		colour and highly siliceous, characteristically it contains tiny criss-cross		A6938	400.0	405.0	5.0	N				
		veinlets, showing heavy fracturing of the rock.		A6939	405.0	410.0	5.0	N				
				A6940	410.0	415.0	5.0	N				
332.1	333.3	FELSIC TUFF (4c) - Cherty:		A6941	415.0	420.0	5.0	T				
		Light purple in colour, thinly bedded. No sulphides.		A6942	420.0	425.0	5.0	no assay				
				A6943	425.0	430.0	5.0	T				
333.3	377.7	CHLORITE ALTERATION ZONE (5a)		A6944	430.0	435.0	5.0	T				
		Light green in colour, well schistose, slightly talcose. The chlorite	tr pyrite	A6945	435.0	440.0	5.0	T				
		grades into dark green to black variety.		A6946	440.0	445.0	5.0	T				
		336.0 - 337.0: FELSIC DYKE (4a)		A6947	445.0	450.0	5.0	T				
		Massive purple to apple green in colour.		A6948	450.0	455.0	5.0	N				
		No sulphides.		A6949	455.0	460.0	5.0	N				
		339.8 - 343.2: MAFIC LAVA FLOW (1a)		A6950	460.0	465.0	5.0	N				
		Grey green in colour massive, fine grained.	No sulphides	A6951	465.0	470.0	5.0	N				
		342.2 - 342.3: Quartz vein - barren.		A6952	470.0	475.0	5.0	N				
		343.2 - 344.2: Quartz vein - barren.		A6953	475.0	480.0	5.0	T				
		347.8: 1" quartz vein - trace chalcopyrite.		A6954	480.0	485.0	5.0	T				
		369.0 - 371.0: FELSIC DYKE: (4a)		A6955	485.0	490.0	5.0	N				
		Massive, purplish green in colour. No		A6956	490.0	495.0	5.0	N				
		sulphides.		A6957	495.0	500.0	5.0	N				
				A6958	500.0	505.0	5.0	N				
377.7	398.0	MAFIC TUFF (1c)		A6959	505.0	510.0	5.0	N				
		Dark purple grey in colour on core surface and black on broken surface.	½% Py	A6960	510.0	515.0	5.0	N				
		Well bedded and schistose. Sharp contact to the north with chlorite		A6961	515.0	520.0	5.0	N				
		alteration zone.		A6962	520.0	525.0	5.0	N				
		397.0 - 398.1: Int. Tuff (2c): L. green, banded, assoc. q.v.	1% py	A6963	525.0	530.0	5.0	N				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
				A6964	530.0	535.0	5.0	N			
398.0	442.5	CHLORITE ALTERATION ZONE (5a):		A6965	535.0	540.0	5.0	N			
		Light green in colour, essentially well schistose, slightly talcy, non-mag-		A6966	540.0	545.0	5.0	N			
		netic. No sulphides.		A6967	545.0	550.0	5.0	N			
		398.1 - 402.6: INTERMEDIATE TUFF (2c) INT. FLOW (2a)	½% py	A6968	550.0	555.0	5.0	N			
		Light green, thinly bedded to massive.		A6969	555.0	560.0	5.0	N			
		407.9 - 410.1: FELSIC TUFF (4c)		A6970	560.0	565.0	5.0	T			
		Light purple grey in colour, thinly bedded,	½% py	A6971	565.0	570.0	5.0	N			
		sharp contacts on either side with chlorite		A6972	570.0	575.0	5.0	N			
		alteration zone.		A6973	575.0	580.0	5.0	N			
		408: Schistosity/core axis angle is 70°.		A6974	580.0	585.0	5.0	N			
		426.4 - 427.0: INTERMEDIATE TUFF (2c)		A6975	585.0	590.0	5.0	N			
		Buff brown in colour, bedded, quartz-carbon-	1% py	A6976	590.0	595.0	5.0	N			
		ate veinlets are parallel to the schistosity.		A6977	595.0	600.0	5.0	N			
		434.4 - 435.0: Quartz vein, disseminated py and cpy.		A6978	600.0	605.0	5.0	N			
		435.0 - 437.7: MAFIC TUFF (1c)		A6979	605.0	610.0	5.0	N			
		Fine grained, schistose, biotite rich bands.		A6980	610.0	615.0	5.0	N			
		437.7 - 440.1: MAFIC DYKE (1a)		A6981	615.0	620.0	5.0	N			
		Medium grained, non-schistose, biotite rich.		A6982	620.0	625.0	5.0	T			
		No sulphides.		A6983	625.0	630.0	5.0	N			
				A6984	630.0	635.0	5.0	N			
442.5	453.3	MAFIC TUFF (1c)		A6985	635.0	640.0	5.0	N			
		Dark grey brown, schistose, occasional carbonate lenses. No sulphides.		A6986	640.0	645.0	5.0	N			
				A6987	645.0	650.0	5.0	N			
453.3	747.0	INTERMEDIATE TUFFITE (2c): Intermixed sediments and tuffs.		A6988	650.0	655.0	5.0	N			
		Light buff brown in colour, well bedded, alternation of biotite rich beds	tr py	A6989	655.0	660.0	5.0	N			
		and feldspar rich beds. Carbonate lenses are parallel to the bedding.		A6990	660.0	665.0	5.0	N			
		The rock shows slump features, and contains occasional quartz veins.		A6991	665.0	670.0	5.0	N			
		505: Bedding /core axis angle is 60°.		A6992	670.0	675.0	5.0	N			
		695: Bedding/core axis angle is 65°.		A6993	675.0	680.0	5.0	N			
		745: Bedding/core axis angle is 55°.		A6994	680.0	685.0	5.0	N			
				A6995	685.0	690.0	5.0	N			
				A6996	690.0	695.0	5.0	N			
	747.0	END OF HOLE		A6997	695.0	700.0	5.0	N			
				A6998	700.0	705.0	5.0	T			
				A6999	705.0	710.0	5.0	T			
				A7000	710.0	715.0	5.0	T			
				A8001	715.0	720.0	5.0	N			
				A8002	720.0	725.0	5.0	N			
				A8003	725.0	730.0	5.0	N			
				A8004	730.0	735.0	5.0	N			
				A8005	735.0	740.0	5.0	.01			
				A8006	740.0	745.0	5.0	T			
				A8007	745.0	747.0	2.0	T			

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE	199 + 50 NORTH	STARTED	JULY 6th, 1975						
HOLE NO.	DLO-38-54	DEPARTURE	156 + 00 EAST	FINISHED	JULY 13th, 1975	200'	49°				
BEARING	180°	ELEVATION		LENGTH	666'	400'	47½°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	A. JACKSON	600'	47°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
0.0	166	CASING		A6767	166.0	171.0	5.0	.01			
				A6768	171.0	176.0	5.0	.06			
166	194	FELSIC - INTERMEDIATE TUFF (4c)		A6769	176.0	181.0	5.0	T			
		Fine grained, light brown - grey, well bedded at 45°, more felsic than		A6770	181.0	186.0	5.0	T			
		intermediate with narrow felsic beds 1" interbedded with phlogpite -		A6771	186.0	191.0	5.0	.01			
		biotite rich beds;		A6772	191.0	196.0	5.0	T			
		Several quartz carbonate veins parallel to bedding throughout.		A6773	196.0	201.0	5.0	T			
		2-3% py along bedding throughout, traces cpy	2-3% py, tr. cpy	A6774	201.0	206.0	5.0	T			
		181 - 189: Mafic tuff, medium - dark green, well		A6775	206.0	211.0	5.0	.01			
		bedded at 45°; 1% py	1% py	A6776	211.0	216.0	5.0	.01			
				A6777	216.0	221.0	5.0	T			
194	243	INTERMEDIATE TUFF (2c)		A6778	221.0	226.0	5.0	T			
		Fine grained, medium - dark green, well bedded at 45°, moderate phlog-		A6779	226.0	231.0	5.0	T			
		opite - biotite and quartz carbonate stringers throughout.		A6780	231.0	236.0	5.0	T			
		227 - 243: Appears more massive, probably flow.		A6781	236.0	241.0	5.0	T			
				A6782	241.0	246.0	5.0	.01			
243	508	MAFIC FLOW (1A)		A6783	246.0	251.0	5.0	T			
		Upper 10' fine grained then becomes coarse grained, dark green, upto		A6784	251.0	252.0	1.0	.62		.87	
		10% of rock is 1/8" crystals of stubby hornblende; foliation developed		A6785	252.0	257.0	5.0	T			
		at 45°		A6786	257.0	262.0	5.0	.02			
		251 - 252: 5% po, ½% cpy in stringers and blebs and	5% po, ½% cpy	A6787	262.0	267.0	5.0	T			
		along 2 narrow quartz veins.		A6788	267.0	272.0	5.0	T			
		Becomes slightly finer grained from 270'.		A6789	272.0	277.0	5.0	.02			
		273 - 278: Felsic - Intermediate tuff, bedded at 40°.		A6790	277.0	282.0	5.0	.03			
		278 - 283: Inter. - mafic tuff, bedded at 40°, 3 quartz		A6791	282.0	287.0	5.0	.01			
		veins, 1"-6" several narrow quartz carb.		A6792	287.0	292.0	5.0	.005			
		stringers.		A6793	292.0	297.0	5.0	T			
		290 - 350: 1-3 quartz veins every 5', only traces po.		A6794	297.0	302.0	5.0	.01			
		345.5 - 348: FELSIC DIKE. ?		A6795	302.0	307.0	5.0	T			
		348 - 442: Becomes more foliated, more biotite - phlog	1-2% po, py, tr cpy	A6796	307.0	312.0	5.0	.01			
		developed along the quartz veins, which		A6797	312.0	317.0	5.0	T			
		average 2-3 every 5', 1/8" minor po, cpy		A6798	317.0	322.0	5.0	T			
		associated; 1-2% po, py, tr cpy overall.		A6799	322.0	327.0	5.0	.01			
		Foliation at 45°.		A6800	327.0	332.0	5.0	T			
		Numerous quartz carb. blebs along foliation		A6801	332.0	337.0	5.0	T			
		and has irregular stringers. The phlogopite		A6802	337.0	342.0	5.0	T			
		-biotite alteration decreases in intensity after		A6803	342.0	347.0	5.0	.02			
		360, but still have 1-3 q.v. every 5', (1/8")		A6804	347.0	352.0	5.0	.01			
		minor po, cpy.		A6805	352.0	357.0	5.0	T			



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.	Ag.	Cu.	Zn.
				A6806	357.0	362.0	5.0	.02			
243	508	CONTD.		A6807	362.0	367.0	5.0	.02			
		348 - 442: CONTD.		A6808	367.0	369.0	2.0	.02			
		369 - 370: 3 narrow quartz veins, (1/8"), with 3" sections	V.G.	A6809	369.0	370.0	1.0	.18			
		2 specks V.G., minor po, cpy.		A6810	370.0	375.0	5.0	.02			
		378 - 380: 4 narrow 1/8" quartz veins.		A6811	375.0	380.0	5.0	.01			
		The quartz vein decreases after 380 to 1-2		A6812	380.0	385.0	5.0	.01			
		every 5', (1/8") but phlogopite-biotite		A6813	385.0	390.0	5.0	T			
		alteration is still fairly prominent.		A6814	390.0	395.0	5.0	T			
		1-2% po traces cpy along fractures and in	1-2% po, tr cpy.	A6815	395.0	400.0	5.0	T			
		blebs.		A6816	400.0	405.0	5.0	T			
		420 - 442: Highly foliated, possibly tuffaceous, at 45°.		A6817	405.0	410.0	5.0	T			
		High biotite - phlogopite - chlorite throughout		A6818	410.0	415.0	5.0	T			
		1-2 quartz veins every 5', with minor po, cpy.		A6819	415.0	420.0	5.0	T			
		po increases from 430 to 1-2% in blebs and		A6820	420.0	425.0	5.0	T			
		along foliation.		A6821	425.0	430.0	5.0	T			
		442 - 508: Fine grained mafic, quite massive but slight		A6822	430.0	435.0	5.0	T			
		foliation developed at 50°, occ. section 1-4'		A6823	435.0	440.0	5.0	T			
		well foliated, tuffaceous; slightly-mod., chloritic		A6824	440.0	445.0	5.0	.01			
		throughout, minor phlogopite - biotite.		A6825	445.0	450.0	5.0	.005			
		1-2 quartz veins (1/8") every 5', minor po,		A6826	450.0	455.0	5.0	T			
		traces cpy.		A6827	455.0	460.0	5.0	T			
		469 - 508: More tuffaceous, chloritic and biotitic, with		A6828	460.0	465.0	5.0	T			
		1-2% py, po, tr cpy along carbonate stringers.		A6829	465.0	470.0	5.0	T			
				A6830	470.0	475.0	5.0	T			
508	541	INTERMEDIATE - MAFIC TUFF (2c, 1c)		A6831	475.0	480.0	5.0	T			
		Fine grained, medium - dark green, well bedded at 45°, abundant quartz-		A6832	480.0	485.0	5.0	T			
		carbonate bands and stringers along bedding; high amount of biotite-		A6833	485.0	490.0	5.0	T			
		phlogopite and chlorite developed throughout along bedding. Occasional		A6834	490.0	495.0	5.0	T			
		narrow quartz veins as most veining is quartz carb; 3-5% py, po, minor	3-5% py. po.	A6835	495.0	500.0	5.0	T			
		cpy throughout in bands and stringers along bedding and in blebs.	minor cpy	A6836	500.0	505.0	5.0	T			
				A6837	505.0	510.0	5.0	T			
541	553	CHERTY - FELSIC TUFF (3, 4c)		A6838	510.0	515.0	5.0	T			
		Fine grained, light medium grey, occasionally purplish tint; mainly felsic		A6839	515.0	520.0	5.0	T			
		tuff with cherty sections, as in 552 - 553; bedding at 50°. Upper contact		A6840	520.0	525.0	5.0	T			
		has 3" quartz veins, with 5-7% py, minor po, cpy from 541 - 542.	5-7%py, po, minor cpy	A6841	525.0	530.0	5.0	.01			
		548.5 - 551: Mafic flow, moderate chloritic..		A6842	530.0	535.0	5.0	.02			
				A6843	535.0	540.0	5.0	.02			
553	562	MAFIC FLOW (1A)		A6844	540.0	545.0	5.0	.02			
		Fine grained, slightly chloritic, occasional section has moderately-high		A6845	545.0	550.0	5.0	T			
		phlogopite with foliation at 50°; Upper 2' are mafic tuff with 10-15% phog.		A6846	550.0	555.0	5.0	T			
		along bedding at 45°.		A6847	555.0	560.0	5.0	T			
				A6848	560.0	565.0	5.0	T			
562	573	CHERTY TUFF' FELSIC TUFF (3,4c)		A6849	565.0	570.0	5.0	T			
		Fine grained, light grey-creamy; core highly ground		A6850	570.0	573.0	3.0	T			
		* possible error in footage and length.		A6851	573.0	578.0	5.0	T	.02		
				A6852	578.0	583.0	5.0	T			
573	578	SERPENTINIZED ZONE (6A, B)		A6853	583.0	588.0	5.0	T			
		Fine grained, medium dark green, mod. chloritic, and tremolitic through-		A6854	588.0	593.0	5.0	T			
		out, fairly massive unit, mod. talcy, schistose, mod. magnetic.		A6855	593.0	598.0	5.0	T			
		Light silver grey metallic (silver?) occurs diss. in prominent traces		A6856	598.0	603.0	5.0	T			
		through section 576-577.5.	Ag?	A6857	603.0	608.0	5.0	T			
				A6858	608.0	613.0	5.0	T			
				A6859	613.0	618.0	5.0	T			

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

PROPERTY DETOUR LAKES HOLE NO. DLO-38-54 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
				A6860	618.0	623.0	5.0	T			
578	587	CHERTY FELSIC TUFF (3,4c)		A6861	623.0	628.0	5.0	T			
		Light creamy green, purplish, bedding at 40°, - becomes quite sericitic		A6862	628.0	633.0	5.0	T			
		from 579 - 587.		A6863	633.0	638.0	5.0	T			
				A6864	638.0	643.0	5.0	T			
587	590	SERPENTINIZED ZONE (6A,B)		A6865	643.0	648.0	5.0	T			
		Fine-medium green, moderately talcy, quite massive with tremolite-		A6866	648.0	653.0	5.0	T			
		actinolite developed; fine silvery mineral in trace amounts; lower	Ag?	A6867	653.0	658.0	5.0	T			
		contact has 4" quartz vein.		A6868	658.0	663.0	5.0	N			
				A6869	663.0	668.0	5.0	N			
590	599	MAFIC TUFF (1c)									
		Fine grained, dark green, well bedded at 45°, occ. quartz carbonate									
		veins throughout, occ. narrow 1/8" felsic bands;									
		593 - 594: Felsic tuff, well bedded at 50° with narrow minor po, cpy.									
599	666	SERPENTINIZED ZONE (6A, 1c)									
		Generally interbedded mafic tuff and massive ultramafics, fine grained.									
		The ultramafics are talc-tremolite rich, the mafic tuffs are mod. talcy.-									
		605 - 626: Mafic - ultramafic tuff. Bedding at 30-40°, mod. talcy, slightly talcy, magnetic.									
		626 - 637: Mafic tuff. Well bedded at 40°, non-magnetic not talcy, high phlogopite throughout 10-20%.									
		650 - 655: Mafic tuff. Same as 626 - 637.									
		660 - 666: Mafic tuff. Same as 626 - 637.									
	666	END OF HOLE									

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

						DIP TEST					
PROPERTY	DETOUR LAKES	LATITUDE	199 + 50N	STARTED	June 27th, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	DLO - 38 - 52	DEPARTURE	160 E	FINISHED	July 3rd, 1975	200'	42°				
BEARING	180°	ELEVATION		LENGTH	637'	400'	44°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	A. Jackson, P. Brown	647'	41°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
				6659	114.0	119.0	5.0	.005			
0	114	CASING		6660	119.0	124.0	5.0	T			
				6661	124.0	129.0	5.0	T			
114	133	MAFIC FLOW (1a)		6662	129.0	134.0	5.0	T			
		Fine grained, dark green, foliation at 50°, moderately chloritic, occasional carbonate veinlets throughout, minor disseminated Py.		6663	134.0	139.0	5.0	.01			
				6664	139.0	144.0	5.0	.01			
				6665	144.0	149.0	5.0	.02		.05	
133	245	FELSIC - INTERMEDIATE TUFF (4c, 2c)		6666	149.0	154.0	5.0	T			
		Medium gray brown, well bedded 45-60° to C.A. High phlogopite content throughout, concentrated in bands along bedding; more felsic tha.. inter.; minor carbonate veinlets throughout; Occasional narrow quartz vein ~ ¼", 1 or 2 every 5'.		6667	154.0	159.0	5.0	.01			
				6668	159.0	164.0	5.0	T			
				6669	164.0	169.0	5.0	T			
				6670	169.0	174.0	5.0	T			
		148 - 152: Mafic tuff		6671	174.0	179.0	5.0	.01			
		157 - 162: Mafic tuff		6672	179.0	184.0	5.0	.01			
		133 - 235: 3% Py, occasional 3-5% Py minor cpy throughout, sulfides conc. along bedding.	2-3-5% py Minor cpy	6673	184.0	189.0	5.0	T			
				6674	189.0	194.0	5.0	T			
		203 - 209: Felsic tuff		6675	194.0	199.0	5.0	T			
		235 - 245: 1% Py.		6676	199.0	204.0	5.0	T			
				6677	204.0	209.0	5.0	T			
245	270	INTERMEDIATE TUFF		6678	209.0	214.0	5.0	T			
		Medium - dark brown, green, bedding at 50-60°, minor felsics. < 1% Py.		6679	214.0	219.0	5.0	T			
				6680	219.0	224.0	5.0	T			
270	274	FELSIC TUFF		6681	224.0	229.0	5.0	T			
				6682	229.0	234.0	5.0	.005			
274	281	INTERMEDIATE - MAFIC FLOW		6683	234.0	239.0	5.0	T			
				6684	239.0	244.0	5.0	T			
281	284	FELSIC TUFF		6685	244.0	249.0	5.0	.005			
				6686	249.0	254.0	5.0	T			
284	310	INTERMEDIATE - MAFIC TUFF (2c, 1c)		6687	254.0	259.0	5.0	T			
		Medium brown-green, numerous quartz-carbonate veinlets throughout.		6688	259.0	264.0	5.0	.04			
		280 - 310: Numerous quartz veins, ¼" - ½", 4-5 every 5', barren.		6689	264.0	269.0	5.0	T			
				6690	269.0	274.0	5.0	T			
		301 - 304: Felsic tuff, 3-4% Py, ½% cpy.	3-4% py, ½% cpy	6691	274.0	279.0	5.0	.01			
				6692	279.0	284.0	5.0	T			
[redacted]	360	MAFIC FLOW (1a)		6693	284.0	289.0	5.0	.02			
		Fine grained, dark green, numerous narrow ¼" - ½" quarts veins, 5 in 5', but are barren mod. phlogopite alteration throughout.		6694	289.0	294.0	5.0	T			
				6695	294.0	299.0	5.0	.02			
		316 - 321: Felsic tuff, 3-4% cpy ½% cpy.	3-4% Py, ½% cpy	6696	299.0	301.0	2.0	T			
				6697	301.0	304.0	3.0	.02		.17	
				6698	304.0	309.0	5.0	.02			

REGISTERED PROFESSIONAL ENGINEER
P. J. MORGOT
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.
				6699	309.0	314.0	5.0	.05			
360	390	MAFIC TUFFS.		6700	314.0	316.0	2.0	.02			
		Fine grained, dark green-brown, abundant phlogopite throughout,		6701	316.0	319.0	3.0	.02		.26	
		foliation at 45°. Quartz veining same as 310 - 360, no sulphides.		6702	319.0	324.0	5.0	.01			
		367 - 375: Slightly talcy		6703	324.0	329.0	5.0	N			
		378.5 - 380.5: Felsic Dike? Light gray, purple.		6704	329.0	334.0	5.0	T			
				6705	334.0	339.0	5.0	.01			
390	455	MAFIC FLOW		6706	339.0	344.0	5.0	T			
		Medium grained, dark green, carbonate blebs throughout. give rock a		6707	344.0	349.0	5.0	T			
		"streaky" appearance, foliation at 40°. Quartz veins not common,		6708	349.0	354.0	5.0	T			
		numerous quartz carbonate in narrow veinlets and blebs.		6709	354.0	359.0	5.0	T			
		397 - 425: 1-2% py, po, minor cpy along narrow quartz veins and fractures.	1-2% py, minor cpy	6710	359.0	364.0	5.0	.01			
				6711	364.0	369.0	5.0	T			
		425 - 455: Only rare cpy, along quartz, but po is common, 1-2%.		6712	369.0	374.0	5.0	.01			
				6713	374.0	379.0	5.0	T			
				6714	379.0	384.0	5.0	T			
455	528	INTERMEDIATE TUFF		6715	384.0	389.0	5.0	T			
		Light - medium green fine grained, well bedded at 45 - 50°. Occasional		6716	389.0	394.0	5.0	.01			
		short 1' - 3' section of mafic flow; minor quartz vein, 1 or 2 every 5',		6717	394.0	399.0	5.0	T			
		1/8 - ¼", with minor po, cpy, 1% po, traces cpy along fractures and		6718	399.0	404.0	5.0	.005			
		quartz veins throughout.	1% po, trace cpy.	6719	404.0	409.0	5.0	T			
		511 - 517: INTERMEDIATE FLOW (DIKE)?		6720	409.0	414.0	5.0	T			
		Fine grained, medium dark grey, 3-5% diss.		6721	414.0	419.0	5.0	T			
		biotite, occasional small quartz eyes;		6722	419.0	424.0	5.0	T			
		1-2% diss. py, minor cpy.	1-2% py, minor cpy.	6723	424.0	429.0	5.0	T			
		¼" vein mag. py, cpy at 515.		6724	429.0	434.0	5.0	N			
		519 - 528: 3% py, po, minor cpy along fractures and stringers throughout.	3% po, py, minor cpy	6725	434.0	439.0	5.0	N			
				6726	439.0	444.0	5.0	T			
				6727	444.0	449.0	5.0	T			
528	530	CHERTY TUFF (FELSIC TUFF) (3)		6728	449.0	454.0	5.0	T			
		Light medium grey, well bedded at 50°, 1-2% py, minor cpy.	1-2% py, minor cpy.	6729	454.0	459.0	5.0	T			
				6730	459.0	464.0	5.0	T			
530	534	MAFIC FLOW		6731	464.0	469.0	5.0	T			
				6732	469.0	474.0	5.0	.01			
534	541	CHERTY TUFF		6733	474.0	479.0	5.0	T			
		Same as above, grades into felsic tuff,		6734	479.0	484.0	5.0	T			
		534 - 536: 2-3% py, minor cpy, also a 4" quartz vein, Parallel to bedding.	2-3% py, minor cpy	6735	484.0	489.0	5.0	.01			
				6736	489.0	494.0	5.0	.01			
		536 - 541: Traces py.		6737	494.0	499.0	5.0	T			
				6738	499.0	504.0	5.0	T			
541	548	INTERMEDIATE - MAFIC TUFF		6739	504.0	509.0	5.0	T			
		Slightly mod. chloritic, dark green, foliation at 70°.		6740	509.0	514.0	5.0	.005			
				6741	514.0	519.0	5.0	.01			
548	558	CHLORITE ALTERATION		6742	519.0	524.0	5.0	.01			
		Dark green, mod. heavily chloritic.		6743	524.0	528.0	4.0	.005			
				6744	528.0	530.0	2.0	.005		.15	
558	564	FELSIC TUFF		6745	530.0	534.0	4.0	.005		.006	
		Light grey, bedded at 65°, occasional "quartz eyes", minor diss. Py		6746	534.0	535.0	1.0	.22		.20	
				6747	535.0	540.0	5.0	T			
564	574.5	TALC - CARBONATE ALTERATION (6a)		6748	540.0	545.0	5.0	.01			
		Dark grey, mod. altered to talc - carbonate, well bedded at 50°,		6749	545.0	550.0	5.0	T			
		slightly magnetic.		6750	550.0	555.0	5.0	.005			
				6751	555.0	560.0	5.0	T			

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

PROPERTY DETOUR LAKES HOLE NO. DLO - 38-52 Page 3

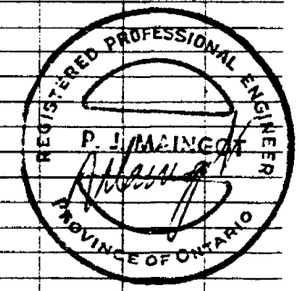
FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
574.5	583.5	CHERTY TUFF		6752	560.0	565.0	5.0	.01			
		Light grey - cream colour, occasional brownish streaks of phlogopite;		6753	565.0	570.0	5.0	T			
		High sericite content along bedding. Well bedded at 45°. No sulfides.		6754	570.0	575.0	5.0	T			
		580.5 - 581.5: TALC - CARBONATE		6755	575.0	580.0	5.0	N			
		582 - 582.5: TALC - CARBONATE		6756	580.0	585.0	5.0	T			
				6757	585.0	590.0	5.0	T			
583.5	602	TALC - CARBONATE ALTERATION		6758	590.0	595.0	5.0	T			
		Same as above, well bedded at 45° - 50°.		6759	595.0	600.0	5.0	T			
				6760	600.0	605.0	5.0	N			
602	626	MAFIC FLOW		6761	605.0	610.0	5.0	T			
		Fine grained, medium green, mod. chloritic, occasionally slightly		6762	610.0	615.0	5.0	N			
		talcy, slight foliation at 45°.		6763	615.0	620.0	5.0	N			
				6764	620.0	625.0	5.0	N			
626	637	MAFIC FLOW		6765	625.0	630.0	5.0	N			
		Coarse grained, dark green, high hornblende, occasional quartz-carbon-		6766	630.0	637.0	7.0	N			
		ate veinlets.									
	637	END OF HOLE									

TROPARI	DIP.	AZ.
1000'	17°	196°
500'	38°	191°

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

						DIP TEST					
PROPERTY	DETOUR LAKES	LATITUDE	202 NORTH	STARTED	September 6th, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	DLO-38 - 80	DEPARTURE	176 EAST	FINISHED	September 11th, 1975	200'	44½°	800'	25½°		
BEARING	180°	ELEVATION		LENGTH	1013 FEET	400'	39½°	1000'	17½°		
DIP-COLLAR	-50°	SECTION		LOGGED BY	A. JACKSON	600'	34°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
				15848	78.0	83.0	5.0	.002		
0	50.0	CASING		15849	83.0	88.0	5.0	.07		
				15850	88.0	93.0	5.0	.005		
50.0	78.0	INTERMEDIATE FLOW (2a)		15851	93.0	98.0	5.0	.015		
		Medium grey, fine grained, massive. 1-2 quartz veins/5', tr py assoc.		15852	98.0	103.0	5.0	N		
		73.0 - 78.0: Felsic tuff, bedded at 45°.		15853	103.0	108.0	5.0	.005		
				15854	108.0	113.0	5.0	.005		
78.0	247.0	MAFIC FLOW (1a)		15855	113.0	118.0	5.0	.002		
		Fine grained, medium green, mod. highly cut by quartz-carb. veins		15856	118.0	123.0	5.0	.005		
		and stringers. Foliation and veining at 35° - 40°.		15857	123.0	128.0	5.0	N		
		78.0 - 90.0: 5% po, py, minor cpy in stringers blebsveins	5% po, py, tr cpy	15858	128.0	133.0	5.0	.015		
		90.0 - 120.0: 3-4% po, py, minor cpy in blebs.	3-4% po, py, minor cpy	15859	133.0	138.0	5.0	.005		
		120.0 - 127.0: Intermediate flow		15860	138.0	143.0	5.0	N		
		127.0 - 159.5: Appears quite well foliated in places, poss-		15861	143.0	148.0	5.0	.002		
		ibly mafic tuff, foliation at 40°, high quartz-		15862	148.0	153.0	5.0	.002		
		carbonate as veins and blebs along foliation.		15863	153.0	158.0	5.0	.01		
		Minor py, po to 150', then 3-4% py, po,		15864	158.0	163.0	5.0	.002		
		minor cpy.	3-4% py, po, cpy	15865	185.0	190.0	5.0	.002		
		154.0 - 159.0: Intermediate		15866	190.0	195.0	5.0	.005		
		159.5 - 186.0: Dark green, massive, mafic flow, very		15867	195.0	200.0	5.0	.002		
		minor quartz-carbonate veins, occ. quartz		15868	200.0	205.0	5.0	.002		
		vein.		15869	205.0	210.0	5.0	.002		
		186.0 - 191.0: Intermediate tuff		15870	210.0	215.0	5.0	.04		
		Medium brown, biotitic, mod. well bedded		15871	215.0	220.0	5.0	N		
		at 45-50°, mod. quartz-carbonate veins and		15872	247.0	252.0	5.0	.002		
		stringers. 3-4% py, po, tr cpy.	3-4% py, po, tr cpy	15873	252.0	257.0	5.0	.005		
		191.0 - 210.0: Mafic flow, mod, X-cut by quartz-carb. veins		15874	257.0	262.0	5.0	.002		
		1-2% py, po in blebs.	1-2% py, po	15875	262.0	267.0	5.0	.002		
		210.0 - 215.0: INT. TUFF. flow		15876	267.0	272.0	5.0	.002		
		Medium brown, biotitic, poorly bedded at		15877	272.0	277.0	5.0	.005		
		60°, 1% py, throughout.		15878	277.0	282.0	5.0	.01		
		211.0: 1"quartz vein, 1 speck V.G.	1 speck V.G.	15879	300.0	305.0	5.0	.015		
		215.0 - 247.0: Massive, mafic flow		15880	305.0	310.0	5.0	.02		
				15881	310.0	315.0	5.0	.005		
247.0	350.0	INTERMEDIATE FLOW (2a)		15882	315.0	320.0	5.0	.205	.125	
		Fine grained, grey-green, occ. short tuffaceous section, bedding at		15883	320.0	325.0	5.0	.045	10'	
		60°, 1-2 quartz vein every 5', ½". Mod. quartz-carb. veins & blebs.		15884	325.0	330.0	5.0	.005		
		2-3% py, minor po, traces cpy in blebs	2-3% py, po, tr cpy	15885	330.0	335.0	5.0	.01		
		282.0 - 300.0: Mafic flow		15886	335.0	340.0	5.0	.045		
				15887	340.0	345.0	5.0	.025		



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.		
				15888	345.0	350.0	5.0	.10				V.G.
247.0	350.0	CONTD.		15889	350.0	355.0	5.0	.002				
		317.0 - 341.0: 5-6% py, minor po, cpy in blebs and stringers and occ. quartz vein.	5-6% py, po, tr cpy	15890	375.0	380.0	5.0	.005				
				15891	380.0	385.0	5.0	.225				V.G.
		341.0 - 348.0: Mafic flow		15892	385.0	390.0	5.0	.03				
		348.0 - 350.0: Int. Flow		15893	428.0	433.0	5.0	.025				
		349.0: 1" quartz vein, 1 flake V.G.	1 flake V.G.	15894	433.0	438.0	5.0	.015				
				15895	495.0	500.0	5.0	.005				
350.0	906.0	MAFIC FLOW		15896	500.0	505.0	5.0	.010				
		Fine - medium grained, grey-green, minor quartz vein, minor quartz-carbonate.		15897	505.0	510.0	5.0	.005				
				15898	536.0	541.0	5.0	.005				
		354.0 - 358.0: Felsic tuff		15899	541.0	546.0	5.0	.08				
		367.0 - 373.0: felsic tuff, numerous small feldspar and carb. crystals throughout.		15900	595.0	600.0	5.0	T				
				15901	600.0	605.0	5.0	T				
		382.0: 3" quartz vein, very minor po, 1 flake and 3-5 specks V.G.	1 flake and 3-5 specks V.G.	15902	605.0	610.0	5.0	T				
				15903	610.0	615.0	5.0	T				
		385.0 - 450.0: Rare quartz vein, 2"-3" barren.		15904	654.0	659.0	5.0	T				
		450.0 - 465.0: Quartz vein, increases to 3-4/5', barren.		15905	659.0	665.0	6.0	T				
		465.0 - 495.0: Rare quartz vein.		15906	665.0	670.0	5.0	.02				
		495.0 - 665.0: 2-3 quartz vein/5', most are barren except at 502' 2 quartz veins with biotite selvage, po, cpy.		15907	670.0	675.0	5.0	T				
				15908	675.0	680.0	5.0	T				
				15909	680.0	685.0	5.0	T				
		596.0 - 615.0: Minor po, cpy in quartz vein		15910	685.0	690.0	5.0	T				
		654.0 - 665.0: Minor py, in quartz vein.		15911	690.0	695.0	5.0	T				
		665.0 - 715.0: Minor po, cpy in quartz vein and fractures. 2-3/5'.		15912	695.0	700.0	5.0	.02				
				15913	700.0	705.0	5.0	.025				
		715.0 - 745.0: Minor quartz vein.		15914	705.0	710.0	5.0	T				
		745.0 - 760.0: Biotitic, occ. foliated at 45°. 2% po, minor cpy in blebs, stringers and along		15915	710.0	715.0	5.0	T				
				15916	745.0	750.0	5.0	T				
		quartz vein. 2 quartz veins/5'.	2% po, minor cpy	15917	750.0	755.0	5.0	T				
		760.0 - 795.0: 2% po, minor cpy, 2 quartz veins /5'.		15918	755.0	760.0	5.0	T				
		783.0 - 792.0: 5% po, minor cpy in blebs and stringers.	5% po, minor cpy	15919	760.0	765.0	5.0	T				
		792.0 - 795.0: Creamy grey, cherty felsic.		15920	765.0	770.0	5.0	.09				
		795.0 - 840.0: Quartz vein decreases to 1-2/5', with po, cpy.		15921	770.0	775.0	5.0	T				
		814.3: ¼" vein of py, quartz-carbonate, assoc., 6 flakes V.G.	6 flakes V.G.	15922	775.0	780.0	5.0	T				
				15923	780.0	785.0	5.0	T				
		840.0 - 904.0: 2-3 quartz veins/5', ¼"-2", with po, py traces cpy.	2-3% po, minor cpy	15924	785.0	790.0	5.0	.005				
				15925	790.0	795.0	5.0	.01				
				15926	795.0	800.0	5.0	.01				
906.0	913.2	MAFIC TUFF		15927	800.0	805.0	5.0	T				
		Dark green, slightly - mod. foliated at 70°. Minor quartz vein, mod. quartz-carb, mod. biotitic, 1-2% po.		15928	805.0	810.0	5.0	.01				
				15929	810.0	815.0	5.0	.274				V.G.
				15930	815.0	820.0	5.0	T				
913.2	915.0	CHERTY TUFF		15931	820.0	825.0	5.0	T				
		Med. grey, well bedded at 70°, upper 1' is 50% po, ½% cpy surrounding quartz lapilli.	50% po, ½% cpy	15932	825.0	830.0	5.0	T				
				15933	830.0	835.0	5.0	.005				
				15934	835.0	840 0	5.0	.005				
915.0	931.0	FELSIC TUFF		15935	840.0	845.0	5.0	.115	.108			
		Medium grey, mod. foliated at 60°, traces py, except 920.5 - 921.0 - 5 - 10% py.		15936	845.0	850.0	5.0	.10	.10'			
				15937	850.0	855.0	5.0	.03				
				15938	855.0	860.0	5.0	T				
				15939	860.0	865.0	5.0	.025				

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

PROPERTY DETOUR LAKES HOLE NO DLO-38-80 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.		
				15940	865.0	870.0	5.0	.38				
931.0	936.0	MAFIC TUFF Mod. foliated at 60-70°.		15941	870.0	875.0	5.0	.020	.11			whole core
				15942	875.0	880.0	5.0	.045	~~.25~~			"
				15943	880.0	885.0	5.0	.015				"
936.0	944.0	FELSIC TUFF		15944	885.0	890.0	5.0	.11			V.G.?	"
				15945	890.0	895.0	5.0	.010				"
944.0	985.0	TALC - CARBONATE		15946	895.0	900.0	5.0	.005				"
		Dark grey-green, highly altered to talc, carb. occ. chloritic section.		15947	900.0	905.0	5.0	.108				"
		956.0 - 965.0: Felsic tuff		15948	905.0	910.0	5.0	T				"
				15949	910.0	915.0	5.0	.055				"
985.0	1013.0	MAFIC FLOW		15950	915.0	920.0	5.0	T				"
		Dark green, upper 5' appear tuffaceous, or foliated.		15951	920.0	925.0	5.0	.035				
				15952	925.0	930.0	5.0	T				
				15953	930.0	935.0	5.0	T				
	1013	END OF HOLE		15954	935.0	940.0	5.0	T				
				15955	940.0	945.0	5.0	T				
				15956	945.0	950.0	5.0	T				
				15957	950.0	955.0	5.0	T				
				15958	955.0	960.0	5.0	T				
				15959	960.0	965.0	5.0	T				
				15960	965.0	970.0	5.0	T				
				15961	970.0	975.0	5.0	T				
				15962	975.0	980.0	5.0	T				
				15963	980.0	985.0	5.0	T				

TROPARI

	AZ.	DIP.
797'	183°	22°

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE	199 + 00 NORTH	STARTED	August 31st, 1975	200'	44½°				
HOLE NO.	DLO - 38 - 77	DEPARTURE	172 + 00 EAST	FINISHED	September5 th, 1975	400'	35½°				
BEARING	180°	ELEVATION		LENGTH	797 FEET	600'	30°				
DIP-COLLAR	-45°	SECTION		LOGGED BY	A. JACKSON						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
				11759	104.0	109.0	5.0	.01			.08	
0	104	CASING		11760	109.0	114.0	5.0	.01			.04	
				11761	114.0	119.0	5.0	T				
104.0	133.0	INTERMEDIATE TUFF (2c)		11762	119.0	124.0	5.0	T				
		Medium grey-brown well bedded and mod. bedded at 50°-60°.		11763	124.0	129.0	5.0	T				
		Mod. biotite throughout. Upper 10' contains felsic - intermediate material		11764	129.0	134.0	5.0	.028				V.G.
		remainder is inter. - mafic. Numerous quartz-carbonate veins		11765	134.0	139.0	5.0	T				
		throughout, 1-2 quartz veins/5'.		11766	139.0	144.0	5.0	.015				
		104.0 - 114.0: 5% py, traces cpy as blebs and along bedding		11767	144.0	149.0	5.0	T				
		114.0 - 133.0: 1-2% py, traces cpy.		11768	149.0	154.0	5.0	T				
		132.0: ¼" quartz-carbonate vein, py, cpy and		11769	154.0	159.0	5.0	.025				
		1 speck of V. G.	1 speck V.G.	11770	255.0	260.0	5.0	.005				
				11771	260.0	265.0	5.0	T				
133.0	155.0	INTERMEDIATE FLOW (2a)		11772	265.0	270.0	5.0	.20				V.G.
		Dark grey-green, massive mod. biotitic, mod. quartz-carb. stringers		11773	270.0	275.0	5.0	T				
		throughout. 1 quartz vein/5', minor py.		11774	285.0	290.0	5.0	.03				
		140.0 - 145.0: Mafic flow		11775	290.0	295.0	5.0	T				
		Coarse grained, foliated at 60°.		11776	295.0	300.0	5.0	.02				
				11777	325.0	330.0	5.0	.015				
155.0	590.0	MAFIC FLOW (1a)		11778	330.0	335.0	5.0	.010				V.G.
		Dark green, coarse grained, massive, slightly - mod. biotitic throughout		11779	335.0	340.0	5.0	T				
		1-2 quartz veins every 5', ¼" - 1" barren.		11780	340.0	345.0	5.0	T				
		208.2 - 212.0: Felsic tuff		11781	345.0	350.0	5.0	.005				
		213.5 - 221.0: Felsic tuff		11782	350.0	355.0	5.0	.027				V.G.
		241.5 - 243.0: Felsic tuff - becomes fine grained from 240'		11783	355.0	360.0	5.0	.015				
		260.0 - 270.0: Quartz vein increase to 2-3/5' but are very		11784	360.0	365.0	5.0	.010				
		very narrow - 1/8" - ¼", almost all are		11785	365.0	370.0	5.0	T				
		barren except one ¼" at 267' - 1 speck V.G.	1 speck V.G.	11786	370.0	375.0	5.0	T				
		no sulfide.		11787	375.0	380.0	5.0	T				
		285.0 - 300.0: 3-4 narrow quartz veins/5', barren.		11788	380.0	385.0	5.0	T				
		300.0 - 348.0: Very minor quartz vein.		11789	385.0	390.0	5.0	T				
		334.5: ½" quartz vein, minor py, cpy, 1speck V.G.	1 speck V.G.	11790	390.0	395.0	5.0	T				
		348.0 - 457.5: Quartz vein increases again to 3/5' from		11791	395.0	400.0	5.0	T				
		¼" - 2", half are barren, others contain		11792	400.0	405.0	5.0	T				V.G.
		cpy, po, occ. V.G.		11793	405.0	410.0	5.0	.528				V.G.
		351.0: ¼" quartz vein, 2 specks V.G.	2 specks V.G.	11794	410.0	415.0	5.0	.005				
		353.0: ¼" quartz vein, 3 specks V.G., no sulfide	3 specks V.G.	11795	415.0	420.0	5.0	T				
		400.5: 1" quartz vein, cpy, po, 1 speck V.G.	1 speck V.G.	11796	420.0	425.0	5.0	T				
		407.3: ¼" quartz vein, no sulfide, 5-6 specks V.G.	5-6 specks V.G.	11797	425.0	430.0	5.0	T				
		414.0 - 417.5: Mafic dike, highly biotitic, 2% diss. py	2% py	11798	430.0	435.0	5.0	.015				

REGISTERED PROFESSIONAL ENGINEER
P. J. MACCOTT
PROVINCE OF ONTARIO

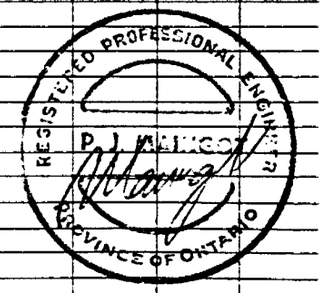
FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	
				11799	435.0	440.0	5.0	T				
155.0	590.0	CONTD.		11800	440.0	445.0	5.0	T				
		457.5 - 460.5: Felsic Dike, grey white - reddish brown, slightly brecciated.		15801	445.0	450.0	5.0	T				
				15802	450.0	455.0	5.0	.010				
		460.5 - 485.0: Very minor quartz vein		15803	455.0	460.0	5.0	.18				
		485.0-491.0: 7 or 8, $\frac{1}{4}$" - $\frac{1}{2}$" quartz vein, with po, cpy,		15804	460.0	465.0	5.0	T				
		one at 488.5 with 1 speck of V.G.	1 speck V.G.	15805	465.0	470.0	5.0	T				
		491.0 - 525.0: Minor quartz vein, 1/5'.		15806	470.0	475.0	5.0	.005				
		525.0 - 540.0: 2-3 quartz vein /5', usually with po, cpy.		15807	475.0	480.0	5.0	T				
		540.0 - 575.0: Rare quartz vein.		15808	480.0	485.0	5.0	T				
		575.0 - 587.0: 8-10 quartz vein, 1/8" - $\frac{1}{4}$" , usually with		15809	485.0	490.0	5.0	.017				V.G.
		minor po, cpy.		15810	490.0	495.0	5.0	T				
		577.5 - $\frac{1}{2}$" quartz vein, 1 possible speck V.G.	1 possible speck V.G.	15811	495.0	500.0	5.0	.14				
				15812	500.0	505.0	5.0	.01				
590.0	611.0	MAFIC TUFF		15813	505.0	510.0	5.0	.06				
		Dark green, mod. well bedded at 60° - 70°, mod. biotitic, minor quartz-carb. veinlets (1/8") and blebs parallel to bedding throughout.		15814	510.0	515.0	5.0	.010				
				15815	515.0	520.0	5.0	.020				
		590.0 - 609.0: 2% po, minor py, tr cpy in blebs	2% po, minor py, tr cpy.	15816	520.0	525.0	5.0	T				
				15817	525.0	530.0	5.0	T				
		609.0 - 611.0: 2% po, $\frac{1}{2}$% cpy.		15818	530.0	535.0	5.0	T				
				15819	535.0	540.0	5.0	T				
611.0	614.3	CHERTY TUFF		15820	540.0	545.0	5.0	T				
		Light creamy grey, very well laminated at 70° - 80°, 2-3% py, po	2-3% py, po, tr cpy	15821	545.0	550.0	5.0	T				
		traces cpy overall, but lower 1' has 5-10% py, po, traces cpy.		15822	550.0	555.0	5.0	T				
				15823	555.0	560.0	5.0	T				
614.3	632.0	FELSIC TUFF		15824	560.0	565.0	5.0	T				
		Medium grey, quite massive, generally only traces py overall.		15825	565.0	570.0	5.0	T				
		618.0 - 618.7: Biotitic, well bedded at 80°, contains		15826	570.0	575.0	5.0	T				
		several quartz lapilli, or "bombs"		15827	575.0	580.0	5.0	.040				V.G.
		10 - 15% py, po.	10-15% py, po	15828	580.0	585.0	5.0	T				
		618.7 - 621.5: Mafic tuff		15829	585.0	590.0	5.0	T				
				15830	590.0	595.0	5.0	T				
632.0	635.0=	CHLORITE ALTERATION		15831	595.0	600.0	5.0	.04				
		Dark green, highly chloritic, minor py, po.		15832	600.0	605.0	5.0	T				
				15833	605.0	610.0	5.0	N				
635.0	680.5	TALC-TREMOLITE - CARBONATE		15834	610.0	615.0	5.0	T				
		Medium green, massive, mod. altered to talc-carb. minor po in blebs throughout.		15835	615.0	620.0	5.0	N				
				15836	620.0	625.0	5.0	T				
		647.0 - 648.1: Felsic tuff, well bedded at 80°		15837	625.0	630.0	5.0	T				
		648.1 - 651.0: Mod. chloritic		15838	630.0	635.0	5.0	T				
		677.5 - 678.5: Felsic dike.		15839	635.0	640.0	5.0	T				
				15840	640.0	645.0	5.0	T				
680.5	695.0	MAFIC TUFF		15841	645.0	650.0	5.0	T				
		Dark green, mod. biotitic, well bedded at 70°. Highly amphibolitic.		15842	650.0	655.0	5.0	T				
		$\frac{1}{2}$-1% diss. py.	1% py	15843	655.0	660.0	5.0	T				
				15844	660.0	665.0	5.0	T				
695.0	797.0	MAFIC FLOW		15845	665.0	670.0	5.0	T				
		Dark green, highly amphibolitic, mod. foliated at 70°-80°. Numerous		15846	670.0	675.0	5.0	T				
		hematite lenses and blebs throughout. 1% py diss. throughout.		15847	675.0	680.0	5.0	T				
		710.5 - 711.5: Fine grained granitic dike.										
		747.0 - 749.0: Felsic tuff, 1% py										
		752.0 - 754.5: Highly brecciated flow, with several red chert fragments.										
		754.5 - 755.0: Cherty tuff, reddish, 758-765: Chert, cherty tuff, occ	massive, 1% py. bedding, appears quite									

TROPARI	DIP.	AZ.
400 '	34°	188°
700 '	23°	188°

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

						DIP TEST					
PROPERTY	DETOUR LAKES	LATITUDE	199 + 00 NORTH	STARTED	August 25th, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	DLO-38-76	DEPARTURE	174 + 00 EAST	FINISHED	August 30th, 1975	200'	40½°				
BEARING	180°	ELEVATION		LENGTH	714 FEET	400'	33°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	A. JACKSON	600'	27°				

FOOTAGE From	FOOTAGE To	DESCRIPTION		% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.		
					11677	137.0	142.0	5.0	.01				
0	90.0	CASING			11678	142.0	143.0	1.0	.554				V.G.
					11679	143.0	148.0	5.0	T				
90.0	553.0	MAFIC LAVA (1a)			11680	190.0	195.0	5.0	T				
		Fine-medium grained, dark green, massive, minor quartz - carbonate, rar			11681	195.0	200.0	5.0	T				
		rare quartz vein, traces py, po.			11682	200.0	202.0	2.0	2.15	.10			V.G.
		126.5 - 130.0:	Felsic tuff. Medium grey, well bedded 60° - 70°.		11683	202.0	203.0	6.0	.015		.15 / 18'		
					11684	203.0	213.0	5.0	T				
		133.0 - 137.0:	Felsic tuff		11685	213.0	217.0	4.0	.03				
		142.2:	1" quartz vein, trace py, 3 specks V.G.	3 specks V.G.	11686	217.0	218.0	1.0	.532	.06			V.G.
		142.5 - 143.5:	Felsic Dyke? or Crystal Tuff		11687	218.0	223.0	5.0	T				
			Medium grey, numerous feldspar laths throughout; contacts at 45°.		11688	223.0	228.0	5.0	.005				
					11689	228.0	233.0	5.0	T				
		152.0 - 153.0:	Felsic Dyke? - as above.		11690	233.0	238.0	5.0	T				
		160.0 - 380.0:	Flows become medium - coarse grained.		11691	238.0	243.0	5.0	.065				
			Quartz veining increases from 190 on, about 2-4/5', usually with very little or no		11692	243.0	248.0	5.0	T				
					11693	248.0	253.0	5.0	T				
			alteration associated. Very few have any		11694	253.0	258.0	5.0	T				
			sulfides, but some bare V.G.		11695	258.0	263.0	5.0	T				
		198.0 - 201.0:	Intermediate flow		11696	263.0	265.0	2.0	.02				
		200.8:	¼" quartz vein, 1 speck V.G.	1 speck V.G.	11697	265.0	266.0	1.0	.148	.02			V.G.
		202.0:	¼" quartz vein with numerous specks and		11698	266.0	271.0	5.0	T				
			flakes of V.G. several specks silver.	>20 specks V.G., Ag	11699	271.0	276.0	5.0	.005				
		217.2:	½" quartz vein - 5-6 specks V.G.	5-6 specks V.G., Ag	11700	276.0	281.0	5.0	T				
		265.6:	1" quartz vein, traces po, 3 specks V.G.	3 specks V.G., Ag	11701	281.0	286.0	5.0	.01				
			2 or 3 silver		11702	286.0	291.0	5.0	T				
		380.0 - 553.0:	Py, po, traces cpy begin to appear in the quartz vein.		11703	291.0	296.0	5.0	T				
					11704	385.0	390.0	5.0	.085				
		399.0 - 404.0:	Mafic Int. Dike? Medium grey-black, high biotite content, 2% py, diss. throughout.		11705	390.0	395.0	5.0	.015				
					11706	395.0	400.0	5.0	T				
		404.0 - 436.0:	Quartz vein, decreases to <1/5', usually with po, minor cpy		11707	400.0	405.0	5.0	.015				
					11708	405.0	410.0	5.0	T				
		430.0:	1" quartz vein, good po, cpy		11709	SKIPPED							
		436.0 - 439.0:	Felsic tuff, chert, light reddish grey, massive, slight bedding at 60°.		11710	410.0	415.0	5.0	T				
					11711	415.0	420.0	5.0	T				
		439.0 553.0:	Quartz vein increases again to 2-3/5' usually with py, po, minor cpy.		11712	420.0	425.0	5.0	.02				
					11713	425.0	430.0	5.0	.04				
		476 - 477.5:	Well brecciated, flow breccia.		11714	430.0	435.0	5.0	.015				
		493.8:	½" quartz vein, po, cpy, 1 speck V.G.	1 speck V.G.	11715	435.0	440.0	5.0	.04				
					11716	440.0	445.0	5.0	.015				



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	
				11717	445.0	450.0	5.0	T			
553.0	561.0	INTERMEDIATE FLOW, TUFF (2a, 6)		11718	450.0	455.0	5.0	T			
		Medium green - grey, fine grained, upper 4' are flow breccia, lower		11719	455.0	460.0	5.0	T			
		4' are tuff, well bedded at 80°, minor quartz vein.		11720	460.0	465.0	5.0	T			
		1-2% py, po, tr cpy.	1-2% py, po, tr cpy	11721	465.0	470.0	5.0	.005			
				11722	470.0	475.0	5.0	.005			
561.0	569.0	CHERTY TUFF		11723	475.0	480.0	5.0	T			
		Light creamy grey, very well laminated at 70-80°, upper 4" has 10% py		11724	480.0	485.0	5.0	.03			
		tr cpy	10% py, tr cpy	11725	485.0	490.0	5.0	T			
		562.8 - 563.5: Numerous quartz bombs, upto 2", with		11726	490.0	493.0	3.0	T			
		5-7% py, tr cpy.	5-7% py, tr cpy	11727	493.0	494.0	1.0	.257			V.G.
		564.0 - 566.5: Felsic tuff - med. grey, massive, tr cpy		11728	494.0	499.0	5.0	.02			
		568.0 - 569.0: 5-10% py, tr cpy, sphal	5-10% py, tr cpy, sphal	11729	499.0	504.0	5.0	.02			
				11730	504.0	509.0	5.0	T			
569.0	580.0	MAFIC FLOW		11731	509.0	514.0	5.0	T			
		Medium-coarse grained, dark green, only slightly chloritic, tr py.		11732	514.0	519.0	5.0	.01			
		571.0 - 572.0: Felsic tuff, well bedded at 70-80°.		11733	519.0	524.0	5.0	T			
				11734	524.0	529.0	5.0	T			
580.0	586.0	FELSIC TUFF		11735	529.0	534.0	5.0	T			
		Medium grey, well bedded at 80°		11736	534.0	539.0	5.0	T			
				11737	539.0	544.0	5.0	T			
586.0	596.0	CHLORITE ALTERATION		11738	544.0	549.0	5.0	.03			
		Dark green, highly chloritic, minor po, py cpy		11739	549.0	554.0	5.0	.01			
				11740	554.0	559.0	5.0	.005			
596.0	615.0	CHLORITE - BIOTITE ALTERATION (INT. TUFF)		11741	559.0	564.0	5.0	.112			
		Varies from med. brown - grey to med. green with alternate sections		11742	564.0	569.0	5.0	.025			
		of biotite and chlorite, usually 2-5'.		11743	569.0	574.0	5.0	T			
		596.0 - 599.5: Biotite alteration.		11744	574.0	579.0	5.0	T			
		599.5 - 600.5: Cherty tuff		11745	579.0	584.0	5.0	.04			
		600.5 - 603.0: Biotitic		11746	584.0	589.0	5.0	.01			
		603.0 - 610.0: Chloritic		11747	589.0	594.0	5.0	.015			
		610.0 - 615.0: Biotitic		11748	594.0	599.0	5.0	.005			
				11749	599.0	604.0	5.0	T			
615.0	646.0	TALC-CARBONATE (6a)		11750	604.0	609.0	5.0	T			
		Dark green, black, highly altered to talc - carbonate.		11751	609.0	614.0	5.0	.005			
		636.0 - 646.0: appears foliated, or bedded at 45o-50°.		11752	614.0	619.0	5.0	T			
				11753	619.0	624.0	5.0	T			
646.0	654.0	INT. FELSIC TUFF		11754	624.0	629.0	5.0	T			
		Grey - green, well bedded at 70°, upper 5' are more intermediate,		11755	629.0	634.0	5.0	T			
		lower 3' are felsic, 1% py along bedding.		11756	634.0	639.0	5.0	T			
				11757	639.0	644.0	5.0	T			
654.0	714.0	MAFIC TUFF		11758	644.0	649.0	5.0	T			
		Dark green, well bedded at 70°, numerous stringers and blebs of k-feld-									
		spar throughout. 1% py diss. and along bedding.									
		690.0 - 698.0: Felsic tuff									
		700.0 - 705.0: Felsic tuff									
		705.0 - 714.0: Int.-Felsic tuff . 1-2% py									
	714.0	END OF HOLE									

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

PROPERTY	DETOUR LAKES	LATITUDE	199 + 00 N	STARTED	August 19, 1975
HOLE NO.	DLO - 38 = 72	DEPARTURE	176 + 00 E	FINISHED	August 24th, 1975
BEARING	180°	ELEVATION		LENGTH	728'
DIP-COLLAR	-45°	SECTION		LOGGED BY	A. JACKSON

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	44°				
400'	34½°				
600'	32°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	60.0	CASING	
60.0	531.0	MAFIC FLOWS (1a)	
		Medium grained, grey- dark green, high amphibole content; occ. narrow quartz veins throughout, usually barren;	
		Schistosity developed at 60° to C.A.	
		164 - 168.0: Felsic tuff, or dike? massive, medium grey.	
		169.0: 1" quartz vein with good cpy po.	
		210.0: 4" quartz vein - po, cpy	
		220.0 - 375.0: Quartz vein increases, 1-2 every 5', usually 1½ -1"; almost all are barren.	
		225.0 - 235.0: 1% po, minor cpy along fractures	1% po, cpy
		245.0 - 247.0: 3 quartz veins with minor po, cpy	
		298.0: 2" quartz vein, po, cpy	
		318.0 - 323.0: mafic int. dike? 1-2% diss. py	
		375.0 - 420.0: Quartz vein increases to 2-3 every 5', with po, minor cpy. assoc.	
		391.0 - 394.5: Mafic - int. dike as above.	
		397.5: ½" quartz vein with 1 bleb of V.G., with silver	1 bleb V.G.
		423.5 - 428.0: Felsic dike?, massive	
		428.0 - 506.0: Very coarse grained, mod. carbonaceous in blebs throughout; po, cpy increases, quartz veins and in blebs and stringers throughout. 1-2%. 1-2 quartz veins every 5', with po, minor cpy.	1-2% po, cpy
		506.0 - 531.0: Fine grained, numerous narrow quartz veins, 5-6 every 5', 1/8" usually with po, cpy, 3-4% po, cpy in blebs and along q. vein.	3-4% po, cpy
531.0	565.0	INTERMEDIATE TUFF (2c)	
		Light grey - green, int. tuff - felsic tuff, well bedded at 50°. The majority of rock is int. and felsic beds with some chloritic fragments included. The last 10' have some cherty material interbedded; 5-7% po, cpy and py along bedding and in blebs throughout and long occ. quartz vein.	5-6% po, cpy py

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	pulp	pulp metallics
11616	60.0	65.0	5.0	T				
11617	65.0	70.0	5.0	T				
11618	70.0	75.0	5.0	.025				
11619	75.0	80.0	5.0	T				
11620	167.0	172.0	5.0	.01				
11621	208.0	213.0	5.0	.01				
11622	213.0	218.0	5.0	T				
11623	218.0	223.0	5.0	.01				
11624	223.0	228.0	5.0	.01				
11625	228.0	233.0	5.0	.005				
11626	233.0	238.0	5.0	.005				
11627	238.0	243.0	5.0	T				
11628	243.0	248.0	5.0	T				
11629	295.0	300.0	5.0	T				
11630	376.0	381.0	5.0	T				
11631	381.0	386.0	5.0	T				
11632	386.0	391.0	5.0	.005				
11633	391.0	396.0	5.0	.005				
11634	396.0	397.0	1.0	T				
11635	397.0	398.0	1.0	.763	.06		.750	
11636	398.0	403.0	5.0	.005				
11637	403.0	408.0	5.0	T				
11638	408.0	413.0	5.0	.005	.051			
11639	413.0	418.0	5.0	.025	36'			
11640	418.0	423.0	5.0	T				
11641	423.0	428.0	5.0	T				
11642	428.0	433.0	5.0	.18				.225
11643	433.0	438.0	5.0	T				
11644	438.0	443.0	5.0	T				
11645	443.0	448.0	5.0	T				
11646	448.0	453.0	5.0	T				
11647	453.0	458.0	5.0	.045				
11648	458.0	463.0	5.0	T				
11649	463.0	468.0	5.0	.02				
11650	468.0	473.0	5.0	.025				
11651	473.0	478.0	5.0	.025				
11652	478.0	483.0	5.0	.04				
11653	483.0	488.0	5.0	.005				
11654	488.0	493.0	5.0	.03				
11655	493.0	498.0	5.0	T				

REGISTERED PROFESSIONAL ENGINEER
P. J. MANSON
PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS pulp metallics
				11656	498.0	503.0	5.0	T			
565.0	578.0	FELSIC TUFF (4c)		11657	503.0	508.0	5.0	.005			
		Light grey-white, mod. bedding at 50°; 2% py, minor cpy along		11658	508.0	513.0	5.0	T			
		bedding and in occ. quartz vein.		11659	513.0	518.0	5.0	T			
				11660	518.0	523.0	5.0	T			
578.0	600.0	CHLORITE ALTERATION (5a)		11661	523.0	528.0	5.0	.015			
		Dark green, highly chloritic, quite massive, occ. stringer of po, cpy.		11662	528.0	533.0	5.0	T			
		583.5 - 585.0: Felsic tuff.		11663	533.0	538.0	5.0	T		.08	
				11664	538.0	543.0	5.0	T		.12	
600.0	635.0	TALC - CARBONATE (6a)		11665	543.0	548.0	5.0	T		.09	
		Dark green, highly altered to talc - carb., massive, slightly chloritic.		11666	548.0	553.0	5.0	.12		.10	
		607.0 - 614.5: Felsic tuff, upper portion biotitic		11667	553.0	558.0	5.0	.01	.055	.06	
		631.5 - 632.5: Felsic - cherty tuff.		11668	558.0	563.0	5.0	.015	25¹	.06	
				11669	563.0	568.0	5.0	.025		.06	
635.0	721.0	MAFIC TUFF (1c)		11670	568.0	573.0	5.0	.11			.08
		Dark green, quite well bedded at 50°; occ. section inter-felsic tuff, as		11671	573.0	578.0	5.0	.01			
		649.0 - 653.0, 1% py throughout.		11672	578.0	583.0	5.0	.005			
		635.0 - 645.0: Mod. chloritic.		11673	583.0	588.0	5.0	.005			
		682.0 - 683.4: Cherty tuff, well bedded at 80°.		11674	588.0	593.0	5.0	.005			
		698.0 - 709.0: Felsic tuff, occ. cherty sections reddish,		11675	593.0	598.0	5.0	.01			
		1 - 2% py.	1-2% py	11676	598.0	603.0	5.0	.01			
		710.0 - 711.0: Felsic tuff									
		713.0 - 714.0: Felsic tuff									
		718.0 - 721.0: Occ. felsic "bombs", 1/8" - ¼".									
721.0	728.0	FELSIC AGGLOMERATE (4b)									
		Dark green matrix, upto 30% creamy felsic "bombs" throughout.									
		722.5 - 724.0: Cherty tuff.									
		Light grey-reddish, well bedded at 60°.									
	728.0	END OF HOLE									

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE	168 + 00 EAST	STARTED	June 13th, 1975						
HOLE NO.	DLO - 38 - 49	DEPARTURE	196 + 50 NORTH	FINISHED	June 16th, 1975	200'	43°				
BEARING	180°	ELEVATION		LENGTH	566 FEET	400'	40°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	BABU GAJARIA	566'	37°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
0	100	CASING		A6438	100.0	105.0	5.0	T				
				A6439	105.0	110.0	5.0	T				
100	272.3	MAFIC TUFF (1c) WITH INTERCALATED SECTIONS OF INT. TUFF (2C)		A6440	110.0	111.0	1.0	.01				
		Greyish - green in colour, well bedded, schistose, contains carbonate		A6441	111.0	112.0	1.0	.01		.03		whole core
		lenses. The biotite rich sections are intermediate in composition.		A6442	112.0	115.0	3.0	T				
		Contains occasional bleb of pyrite and pyrrhotite.		A6443	115.0	120.0	5.0	T				
		151.7 - 155.6: FELSIC FLOW (Cherty): Mauve-green in	No sulphides	A6444	120.0	125.0	5.0	T				
		colour, massive, sharp contacts on either		A6445	125.0	130.0	5.0	.005				
		side with mafic tuff.		A6446	130.0	133.5	3.5	T				
		107.6 - 107.7: Quartz vein - barren		A6447	133.5	135.0	1.5	T				whole core
		111.3 - 111.5: Quartz vein	½% Cpy	A6448	135.0	140.0	5.0	.01				
		113.5 - 113.6: Quartz vein - barren		A6449	140.0	145.0	5.0	T				
		133.9 - 134.1: Quartz veinlets	Pyrrhotite & Pyrite	A6450	145.0	147.0	2.0	T				
		147.6 - 147.7: Quartz veinlets	Diss. pyrrhotite	A6451	147.0	148.0	1.0	T				whole core
		156.6 - 156.8: Carbonate stringers	1½% cpy 1% Po	A6452	148.0	150.0	2.0	T				
		158.3 - 158.4: Carbonate veinlet	¼% Cpy	A6453	150.0	155.0	5.0	T				
		173.0 - 173.1: Quartz vein	Diss. Py & Pyrrhotite	A6454	155.0	156.0	1.0	T				
		192.0 - 192.1: Quartz vein with a bleb of pyrrhotite.		A6455	156.0	157.0	1.0	.01				whole core
		132.0': Schistosity/core axis angle is 70°		A6456	157.0	158.0	1.0	T				
				A6457	158.0	159.0	1.0	.01				whole core
272.3	310.8	INTERMEDIATE TO MAFIC TUFF (2C to 1C)		A6458	159.0	160.0	1.0	T				
		Light green, well schistose, more siliceous than above, composition		A6459	160.0	165.0	5.0	T				
		probably intermediate to mafic. Sulfide concentration increases.		A6460	165.0	170.0	5.0	T				
		Contains characteristics carbonate blebs.		A6461	170.0	172.5	2.5	T				
		215.5: Quartz veinlet (¼") peppered with diss. py		A6462	172.5	173.5	1.0	.005				whole core
		and pyrrhotite		A6463	173.5	175.0	1.5	T				
		215.5 - 217.0:	1% Py, 1% Po	A6464	175.0	180.0	5.0	.01				
		217.3 - 217.4: Quartz vein - barren		A6465	180.0	185.0	5.0	.005				
		226.2 - 226.4: Quartz - carbonate veinlets	1% Po, 1% py	A6466	185.0	190.0	5.0	T				
		237.7: Quartz veinlet (½")	2% Po, ¼% cpy	A6467	190.0	195.0	5.0	T				
		246.0: Quartz vein (½")	1% Po	A6468	195.0	200.0	5.0	T				
		260.0: 1" Quartz vein with diss. pyrrhotite & pyrite,		A6469	200.0	205.0	5.0	.01				
		trace cpy		A6470	205.0	210.0	5.0	T				
		271.5: ¼" quartz vein with py		A6471	210.0	215.0	5.0	T				
		272.5 - 277.1: INTERMEDIATE FLOW (2A) Medium grained	3/4% chalcopyrite	A6472	215.0	216.0	1.0	T				w/core
		not schistose, enrichment of chalcopyrite		A6473	216.0	217.0	1.0	.01				w/core
				A6474	217.0	220.0	3.0	.005				
				A6475	220.0	226.0	6.0	.005				
				A6476	226.0	227.0	1.0	T				w/core

REGISTERED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
272.3	310.8	CONTD.		A6477	227.0	230.0	3.0	T				
		279.0: 1" quartz vein with diss. py and po		A6478	230.0	235.0	5.0	T				
		286.3 - 287.0:	4% Po, 2% py, ¼% cpy	A6479	235.0	237.5	2.5	T				
		288.6 - 290.0:	2% py, 1% po, tr cpy	A6480	237.5	238.5	1.0	.01		.03		whole core
		293.5 - 295.5:	1% py, ½% Po	A6481	238.5	240.0	1.5	T				
		303.7 - 304.0:	4% Py, 1% po, ¼% cpy	A6482	240.0	245.5	5.5	T				
				A6483	245.5	246.5	1.0	.01				
310.8	317.2	CHERTY FELSIC TUFF (3) Main mineralised horizon.		A6484	246.5	250.0	3.5	T				
		Purplish grey in colour, bedded, slightly cherty, mineralized	1% py, ¼% cpy	A6485	250.0	255.0	5.0	T				
		313.2 - 314.7: INTERMEDIATE TUFF (2C): Composition of character as of section (272 - 310)		A6486	255.0	259.5	4.5	T				
				A6487	259.5	260.5	1.0	T				whole core
				A6488	260.5	265.0	4.5	T				
317.2	330.6	CHLORITE ALTERATION ZONE (5B)		A6489	265.0	270.0	5.0	T				
		Light pastel green in colour, well schistose, containing dark green chlorite	trace pyrite	A6490	270.0	271.0	1.0	T				
				A6491	271.0	272.0	1.0	T				
330.6	360.3	FELSIC TUFF (4C)		A6492	272.0	277.0	5.0	.01		.11		whole core
		Essentially light purple in colour, extremely siliceous, fine grained and thinly bedded. Contains some intermixed felsic flow. It is intermediate in composition in places.	trace pyrite	A6493	277.0	280.0	3.0	.19				
				A6494	280.0	285.0	5.0	T				
				A6495	285.0	290.0	5.0	T		.06		w/core
		336': Bedding/core axis angle is 60°.		A6496	290.0	295.0	5.0	T				w/core
				A6497	295.0	300.0	5.0	.005				
360.3	376.6	CHLORITE ALTERATION ZONE (5B)		A6498	300.0	305.0	5.0	T		.09		w/core
		Dark green in colour, essentially made up of chlorite, well schistose.	trace sulphides	A6499	305.0	310.0	5.0	T				
		367.2 - 373.5: Serpentinized Zone: (6A)		A6500	310.0	313.0	3.0	.005		.10		w/core
		Soft schistose, essentially made up of talc -		A6501	313.0	315.0	2.0	T				
		carbonate, serpentine and some chlorite,		A6502	315.0	317.5	2.5	T		.01		w/core
		moderately magnetic. Gradational contact		A6503	317.5	320.0	2.5	.01				
		with chlorite alteration zone.		A6504	320.0	325.0	5.0	T				
				A6505	325.0	330.0	5.0	.01				
376.6	406.7	INTERMEDIATE TUFFITE (2C)		A6506	330.0	335.0	5.0	.01				
		Well bedded, light green to bugg white in colour, shows rheomorphic		A6507	335.0	340.0	5.0	T				
		folding. These sections are rich in biotite. It contains some small	½% Pyrite	A6508	340.0	345.0	5.0	.01				
		intercalated sections of amphibolised mafic flow and some intermixed		A6509	345.0	350.0	5.0	T				
		mafic tuff. Pyrite is bedded and lenticular.		A6510	350.0	355.0	5.0	N				
				A6511	355.0	360.0	5.0	T				
406.7	439.8	MAFIC TUFF (Lc)		A6512	360.0	365.0	5.0	.01				
		Light green in colour, well bedded and schistose, contains some carbonate	trace sulphides	A6513	365.0	370.0	5.0	.01				
		veinlets and pods. The south contact contains some c felsic fragments		A6514	370.0	375.0	5.0	.01				
		and is therefore agglomeratic.		A6515	375.0	380.0	5.0	.02				
		413.7 - 414.9: Felsic to intermediate tuff (4C to 2C)		A6516	380.0	385.0	5.0	.005				
		Dark purple in colour, bedded, medium	no sulphides	A6517	385.0	390.0	5.0	.005				
		grained fragments.		A6518	390.0	395.0	5.0	T				
		417.9 - 420.7: Felsic to intermediate tuff (4C to 2C)		A6519	395.0	400.0	5.0	T				
		Similar in composition and character as above.		A6520	400.0	405.0	5.0	T				
		Sharp contacts on either side with mafic tuff.	Trace sulphides	A6521	405.0	410.0	5.0	T				
		Contains some intermixed felsic flow which		A6522	410.0	415.0	5.0	T				
		shows flow banding.		A6523	415.0	420.0	5.0	.01				
				A6524	420.0	425.0	5.0	T				
439.8	444.7	FELSIC FLOW (4A)		A6525	425.0	430.0	5.0	T				
		Purplish grey in colour, shows good flow banding, massive. Contains	½% pyrite	A6526	430.0	435.0	5.0	T				
		epidote veinlets. Contains euhedral disseminated pyrite. It has a sharp		A6527	435.0	440.0	5.0	N				
		contact with the felsic agglomerate at the south.		A6528	440.0	445.0	5.0	N				
				A6529	445.0	450.0	5.0	N				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
406.7	439.8	CONTD.		A6530	450.0	455.0	5.0	N			
		380': Bedding/core axis angle is 60°		A6531	455.0	460.0	5.0	N			
		417': Contact/core axis angle is 70°		A6532	460.0	465.0	5.0	N			
				A6533	465.0	470.0	5.0	T			
439.7	520.4	FELSIC AGGLOMERATE (4b)		A6534	470.0	475.0	5.0	T			
		The matrix is mafic, fragments are flattened ellipsoids, and felsic in		A6535	475.0	480.0	5.0	T			
		composition. Fragments occupy 30% of the rock. It contains intercala-		A6536	480.0	485.0	5.0	T			
		ted sections of felsic flow.		A6537	485.0	490.0	5.0	T			
		Some of the felsic fragments are hematitic.		A6538	490.0	495.0	5.0	N			
		The rock contains occasional blebs of pyrite.		A6539	495.0	500.0	5.0	N			
		481.5 - 496.3: FELSIC FLOW (4A)		A6540	500.0	505.0	5.0	N			
		Pink and massive at the north contact,		A6541	505.0	510.0	5.0	.005			
		becoming tuffaceous, thinly bedded and dark		A6542	510.0	515.0	5.0	N			
		purple in colour to the south. Contains	Trace diss. py	A6543	515.0	520.0	5.0	N			
		epidote in places.		A6544	520.0	525.0	5.0	N			
		504.7 - 507.1: FELSIC FLOW (4A) Tuffaceous		A6545	525.0	530.0	5.0	T			
		Thinly banded greyish purple in colour,	½% Pyrite	A6546	530.0	535.0	5.0	T			
		contains disseminated pyrite		A6547	535.0	540.0	5.0	T			
				A6548	540.0	545.0	5.0	N			
520.4	566.0	MAFIC TUFF (1C)		A6549	545.0	550.0	5.0	N			
		Light green to buff white in colour. Well bedded and schistose, fine		A6550	550.0	555.0	5.0	N			
		grained fragments, contains some intermixed mafic flow.		A6551	555.0	560.0	5.0	N			
		524.5 - 528.3: TUFFACEOUS FELSIC FLOW: (4C + 4A)		A6552	560.0	566.0	6.0	T			
		Purple grey in colour, siliceous, thinly	⅓% pyrite								
		bedded in places, but shows flow features.									
		530.4 - 531.9: FELSIC FLOW (4A) Greyish purple in									
		colour, massive, shows flow banding.	1% pyrite								
		533.8 - 534.7: Felsic flow (4A)									
		536.8 - 537.3: Felsic flow (4A)									
		539.9 - 540.9: Felsic flow (4A)									
		542.1 - 543.0: Felsic flow (4A)									
		534.0: Schistosity/core axis angle is 55°									
	566	END OF HOLE									

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE	172 + 00 EAST	STARTED	7th June, 1975						
HOLE NO.	DLO - 38 - 47	DEPARTURE	196 + 00 NORTH	FINISHED	10th June, 1975	200'	45°	601'	Az. 193° Dip 41°		
BEARING	180°	ELEVATION		LENGTH	601 FEET	400'	43°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	BABU GAJARIA	600'	41°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
0	81	CASING		A6322	81.0	83.0	2.0	N				
				A6323	83.0	84.0	1.0	T				whole core
81	219.0	INTERMEDIATE TUFF (2c) WITH SOME INTERCALACTED MAFIC TUFF		A6324	84.0	87.5	3.5	N				
		(1c)		A6325	87.5	88.5	1.0	.01				whole core
		Light grey-green in colour, well schistose, segregation into dark ferro-magnessian and feldspar rich sections. Characteristically contains carbonate blebs. Some sections are rich in biotite.	⅓% diss. pyrite + ⅓% pyrrhotite	A6326	88.5	90.0	1.5	N				
				A6327	90.0	95.0	5.0	T				
				A6328	95.0	100.0	5.0	N				
		81.0 - 89.0: Mafic flow + mafic tuff (1a + 1c)		A6329	100.0	105.0	5.0	N				
		83.5 - 83.7: Quartz vein	1% py + po trace cpy	A6330	105.0	110.0	5.0	T				
		87.9 - 88.0: Quartz vein	1% Po ⅓% cpy along wall	A6331	110.0	111.0	1.0	T				whole core
				A6332	111.0	115.0	4.0	N				
		99.1 - 102.0: Cherty felsic flow (4a): Light purple, highly siliceous	trace sulphides	A6333	115.0	120.0	5.0	N				
				A6334	120.0	125.0	5.0	T				
		110.3 - 110.4: Quartz vein	trace cpy	A6335	125.0	128.5	3.5	T				
		114.3 - 114.4: Quartz vein	trace pyrite	A6336	128.5	130.0	1.5	.05				whole core
		114.4 - 116.9: Cherty felsic tuff (3): light purple in colour, highly siliceous.	trace sulphides	A6337	130.0	135.0	5.0	.01				
				A6338	135.0	140.0	5.0	.06				
		128.9 - 129.1: Quartz vein	¼% cpy	A6339	140.0	145.0	5.0	.07				
		130.0 - 135.0:	1% Po, ½% Py, tr cpy	A6340	145.0	150.0	5.0	.02				
		170.8 - 170.9: Quartz vein	1% pyrite	A6341	150.0	155.0	5.0	.01				
				A6342	155.0	160.0	5.0	.01				
219.0	252.0	TUFFACEOUS MAFIC FLOW (1c + 1a)		A6343	160.0	165.0	5.0	.005				
		Similar in texture to above, but becoming finer grained and mafic.	1% diss. pyrite	A6344	165.0	170.0	5.0	T				
		Sulphide content increases.	1% diss. pyrrhotite.	A6345	170.0	175.0	5.0	.005				
		194.3 - 194.5: Quartz vein	trace pyrite	A6346	175.0	180.0	5.0	T				
		194.7 - 194.8: Quartz vein	⅓% chalcopyrite	A6347	180.0	185.0	5.0	T				
		240.9 - 241.1: Quartz vein - barren		A6348	185.0	190.0	5.0	T				
		241.9 - 242.4: Quartz vein - barren		A6349	190.0	194.0	4.0	.005				
		243.0 - 245.0: Quartz stringers:	3% cpy, 4% pyrite	A6350	194.0	195.0	1.0	.26				whole core
		248.0 - 248.2: Quartz vein with flakey pyrite		A6351	195.0	200.0	5.0	.03				
		130.0: Schistosity/core axis angle is 58°		A6352	200.0	205.0	5.0	T				
		114.0: Contact/core axis angle is 60°		A6353	205.0	210.0	5.0	T				
		122.0: Bedding/core axis angle is 65°		A6354	210.0	215.0	5.0	N				
		227.0: Schistosity/core axis angle is 55°		A6355	215.0	220.0	5.0	N				
				A6356	220.0	225.0	5.0	N				
				A6357	225.0	230.0	5.0	N				
				A6358	230.0	235.0	5.0	T				
				A6359	235.0	240.0	5.0	T				

REGISTERED PROFESSIONAL ENGINEER P. J. MILLIGOT PROVINCE OF ONTARIO

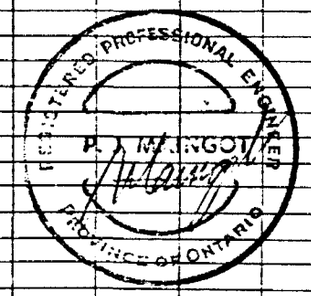
FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	
252.0	266.3	INTERMEDIATE TUFF (2c): "MAIN CONDUCTOR"		A6360	240.0	243.0	3.0	T				
		Light green-grey in colour with biotite rich and carbonate rich bands.	3½% pyrite	A6361	243.0	245.0	2.0	T				whole core
		The tuff is slightly cherty in places and contains a total of 2, 1" quartz	½% Pyrrhotite	A6362	245.0	248.0	3.0	N				
		veins. The sulphide is essentially pyrite with some pyrrhotite and traces	¼% chalcopyrite	A6363	248.0	250.0	2.0	N				whole core
		of chalcopyrite.		A6364	250.0	252.0	2.0	T				w/core
				A6365	252.0	255.0	3.0	T		0.17		W/core
266.3	269.5	CHERTY FELSIC TUFF (3): Main mineralized marker horizon		A6366	255.0	260.0	5.0	.02		0.08		w/core
		Highly siliceous, thinly bedded, purple to light green in colour, contain-	3% pyrite	A6367	260.0	265.0	5.0	T		0.12		w/core
		ing pyrite along the bedding plane.		A6368	265.0	266.0	1.0	T		0.09		
				A6369	266.0	269.5	3.5	.07		0.06		
269.5	279.0	FELSIC TUFF (4c):		A6370	269.5	275.0	5.5	T		0.006		
		Light purple grey in colour, containing fine grained felsic fragments, it	¼% pyrite	A6371	275.0	279.0	4.0	N		0.014		
		is highly siliceous.	trace cpy	A6372	279.0	280.0	1.0	T				
				A6373	280.0	285.0	5.0	T				
279.0	407.9	CHLORITE ALTERATION ZONE (5b)		A6374	285.0	290.0	5.0	.01				
		The rock largely consists of green chlorite, slightly talcy and well	trace sulphides	A6375	290.0	295.0	5.0	.01				
		schistose. Numerous carbonate veinlets.		A6376	295.0	300.0	5.0	T				
		288.1 - 291.3: FELSIC TUFF (4c): Dark purple in colour,	trace sulphides	A6377	300.0	305.0	5.0	T				
		with medium grained felsic fragments.		A6378	305.0	310.0	5.0	T				
		Highly siliceous.		A6379	310.0	315.0	5.0	T				
		306.0 - 309.0: INTERMEDIATE TUFF (2c): Greyish green	trace sulphides	A6380	315.0	320.0	5.0	T				
		in colour and biotite rich.		A6381	320.0	325.0	5.0	T				
		309.0 - 316.5: FELSIC TUFF (4c): Greyish purple in colour,		A6382	325.0	330.0	5.0	T				
		thinly bedded, trace pyrite. Medium grained		A6383	330.0	335.0	5.0	T				
		fragments, finer grained to the north.		A6384	335.0	340.0	5.0	T				
		318.7 - 326.8: INTERMEDIATE TUFF (2c): Greenish grey		A6385	340.0	345.0	5.0	T				
		in colour, dirty appearance, well bedded,		A6386	345.0	350.0	5.0	T				
		medium grained, biotite rich. Sharp contact		A6387	350.0	355.0	5.0	N				
		to the south with chlorite alteration zone.		A6388	355.0	360.0	5.0	N				
		339.5 - 343.8: INTERMEDIATE TUFF (2c)		A6389	360.0	365.0	5.0	N				
		Biotite rich ± some epidote, essentially it is	3% diss. pyrite	A6390	365.0	370.0	5.0	N				
		chloritic with carbonate veinlets.		A6391	370.0	375.0	5.0	N				
		267.0: Bedding/core axis angle is 60°		A6392	375.0	380.0	5.0	N				
		326.6: Contact/core axis angle is 55°		A6393	380.0	385.0	5.0	N				
		312.0: Bedding/core axis angle is 60°		A6394	385.0	390.0	5.0	N				
				A6395	390.0	395.0	5.0	N				
364.6	399.9	INTERMEDIATE TO MAFIC TUFF: (2c to 1c)		A6396	395.0	400.0	5.0	T				
		Greenish grey in colour, slightly cherty in places, fine grained at the	trace sulphides	A6397	400.0	405.0	5.0	N				
		north contact. Well banded.		A6398	405.0	410.0	5.0	N				
				A6399	410.0	415.0	5.0	N				
399.9	408.4	MAFIC FLOW (1a)		A6400	415.0	420.0	5.0	N				
		Fine grained, dark green on colour, thinly schistose.	trace pyrite	A6401	420.0	425.0	5.0	.01				
				A6402	425.0	430.0	5.0	T				
408.4	442.0	FELSIC AGGLOMERATE (4b)		A6403	430.0	435.0	5.0	T				
		Greyish purple in colour, fragments are medium to coarse grained mafic	trace sulphides	A6404	435.0	440.0	5.0	T				
		matrix, trace pyrite within the matrix fragments occupy 30% of the rock.		A6405	440.0	445.0	5.0	T				
		The south contact with tuffaceous felsic flow is devoid of any fragments		A6406	445.0	450.0	5.0	N				
		and is mafic in composition.		A6407	450.0	455.0	5.0	N				
				A6408	455.0	460.0	5.0	T				
				A6409	460.0	465.0	5.0	T				
				A6410	465.0	470.0	5.0	T				
				A6411	470.0	475.0	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
				A6412	475.0	480.0	5.0	N			
442.0	447.4	FELSIC FLOW - tuffaceous - cherty (4a + 4c)		A6413	480.0	485.0	5.0	N			
		Dark reddish purple in colour, highly siliceous, thinly banded. Fine grained felsic fragments.	½% pyrite	A6414	485.0	490.0	5.0	N			
				A6415	490.0	495.0	5.0	T			
				A6416	495.0	500.0	5.0	N			
413.0:		413.0: Schistosity/core axis angle is 60°		A6417	500.0	505.0	5.0	N			
		442.0: Contact/core axis angle is 70°		A6418	505.0	510.0	5.0	N			
				A6419	510.0	515.0	5.0	N			
447.4	466.0	MAFIC TUFF (1c): Highly chloritic (may be chlorite altered zone)	trace sulphides	A6420	515.0	520.0	5.0	N			
		Light green, bedded, schistose.		A6421	520.0	525.0	5.0	N			
		455.5 - 457.8: FELSIC TUFFACEOUS FLOW: Cherty - siliceous. Dark purple grey in colour, banded.	trace sulphides	A6422	525.0	530.0	5.0	N			
				A6423	530.0	535.0	5.0	T			
		461.9 - 463.1: FELSIC TUFFACEOUS FLOW - CHERTY - Similar to above.	1% diss. pyrite	A6424	535.0	540.0	5.0	T			
				A6425	540.0	545.0	5.0	T			
		464.5 - 465.2: Felsic tuffaceous flow - cherty, similar to above.		A6426	545.0	550.0	5.0	T			
			1% diss. pyrite.	A6427	550.0	555.0	5.0	T			
				A6428	555.0	560.0	5.0	N			
466.0	470.4	FELSIC TUFF (4c)		A6429	560.0	565.0	5.0	N			
		Purple grey in colour, highly siliceous, well banded.	½% diss. pyrite.	A6430	565.0	570.0	5.0	N			
				A6431	570.0	575.0	5.0	N			
470.4	601.0	MAFIC FLOW AND MAFIC TUFF - INTERMIXED (1a + 1c)		A6432	575.0	580.0	5.0	N			
		Light green in colour, well schistose, contains carbonate blebs. Contains intercalacted sections of tuffaceous felsic flow. In places the mafic flow is amphibolised, especially at the south end.		A6433	580.0	585.0	5.0	N			
				A6434	585.0	590.0	5.0	N			
				A6435	590.0	595.0	5.0	N			
		466.0: Bedding/core axis angle is 60°		A6436	595.0	600.0	5.0	N			
		470.4: Contact/core axis angle is 60°		A6437	600.0	601.0	1.0	N			
		546.8 - 551.8: Felsic flow - cherty: Light purple in colour, brecciated at the north end, breccia cemented by epidote.	1% diss. pyrite								
	601.0	END OF HOLE									

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

PROPERTY	DETOUR LAKE	LATITUDE	192 + 00N	STARTED	April 1st, 1975	DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	38 - 26	DEPARTURE	186 + 00E	FINISHED	April 6th, 1975	0	-45°	600'	-31°		
BEARING	360°	ELEVATION	-	LENGTH	757'	200'	-40°	745'	Tropar -27 /N7E		
DIP-COLLAR	-45	SECTION	-	LOGGED BY	Terry Gates	400'	-34°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
0	120	CASING (112 OVB)		13420	120	122	2.0	Tr
				13421	122	127	5.0	Tr
120	202.3	INTERBEDDED MAFIC LAPILLI TUFF AND FELSIC TO INTERMEDIATE		13422	127	132	5.0	Tr
		TUFF AND TUFFITE..		13423	132	137	5.0	Tr
		Lapilli tuff is characterized by 1-10mm subrounded to angular grey white,		13424	137	142	5.0	Tr
		greenish cream coloured and light pinkish red feldspar fragments in a		13425	142	146	4.0	Tr
		felty looking matrix composed of amphibole, pyroxene, feldspar and/or		13426	146	151	5.0	Tr
		quartz. The feldspar fragments have been broken up partially disolved		13427	151	156	5.0	Tr
		and intruded by the matrix. In many instances feldspar fragments are		13428	156	161	5.0	Tr
		zoned k-spar in middle surrounded by plagioclase? shell. Fragments		13429	161	166	5.0	Tr
		generally elongated ll to schistosity.		13430	166	171	5.0	Tr
		Felsic units are grey to dark grey well bedded fine grained, and		13431	171	177	5.0	Tr
		sericitic. They vary from a few inches to 5' in length.		13432	177	182	5.0	Tr
		Schistosity and bedding is 50 - 55° to C.A.		13433	182	187	5.0	Tr
		120 - 131: Fine grained mafic tuff with scattered felsic		13434	187	192	5.0	Tr
		fragments. Schistosity/bedding is 50° to C.A.		13435	192	197	5.0	Tr
		130 - 131: 5 - 10% felsic fragments. Brown biotite		13436	197	202	5.0	0.01
		and epidote? stringers prominent.		13437	202	207	5.0	0.005
		131 - 152.5: Lapilli tuff contains wisps of biotite that surround		13438	207	212	5.0	0.02
		felsic fragments.		13439	212	217	5.0	Tr
		Felsic tuff bedded at 60° to C.A.		13440	217	222	5.0	Tr
		152.5 - 155.2: Felsic Tuffite. Contains white mica as micro		13441	222	227	5.0	Tr
		lineations 50° to C.A. Minor black biotite. Top		13442	227	232	5.0	Tr
		contact has sec k-spar. Sharp at 55° to C.A..		13443	232	237	5.0	Tr
		Bottom contact has secondary k-spar, quartz		13444	237	242	5.0	Tr
		veining 1-2% py cubes.		13445	242	247	5.0	Tr
		155.2 - 172: Mafic Lapilli Tuff. Rock schistose at 50° to C.A.		13446	247	252	5.0	Tr
		Some fracturing showing movement. K-spar		13447	252	257	5.0	Tr
		especially evident around fractures in feldspar		13448	257	262	5.0	Tr
		fragments. Bottom contact has 10 - 15% biotite		13449	262	267	5.0	NIL
		stringers. Fragments vague and distorted.		13450	267	272	5.0	NIL
		172 - 178: Felsic Tuff. Dark grey, fine grained, sericitic		13451	272	277	5.0	NIL
		Bedding is 50° to C.A. Top has few 1-2mm		13452	277	282	5.0	NIL
		pinkish red blebs. Minor py.		13453	282	287	5.0	Tr
		178 - 187: Similar to 155.2 - 172.		13454	287	292	5.0	Tr
		187 - 202.3: Mafic tuff. Fine grained. Schistose at 50° to C.A.		13455	292	297	5.0	Tr
		Has add feldspar fragment.		13456	297	302	5.0	Tr



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
202.3	258	MAFIC VOLCANIC TUFF		13457	302	307	5.0	NIL
		Generally fine grained, dark greyish green, schistose unit. H≃4.0.		13458	307	312	5.0	NIL
		Minerals - feldspar/quartz, amphibole, biotite. Schistosity is 55°-60°		13459	312	317	5.0	NIL
		to C.A. Bedding evident in places but usually non-existent. Few quartz		13460	317	322	5.0	NIL
		veins parallel to schistosity. Light fracturing quartz/feldspar 11 to 15°		13461	322	327	5.0	NIL
		to C.A. Movement along some.		13462	327	332	5.0	NIL
		202.3 - 207.5: Intermediate Tuff. Bedded 55° to C.A. Contains		13463	332	337	5.0	Tr
		2-3% diss py and ≃1 quartz eyes.		13464	337	342	5.0	Tr
		221 - 227: Granular. May be either tuff or lava flow. Grain		13465	342	347	5.0	Tr
		size consistent (1mm) throughout - Pyroxene,		13466	347	352	5.0	Tr
		amphibole crystals in a feldspar rich matrix.		13467	352	357	5.0	Tr
				13468	357	362	5.0	Tr
258	296	MAFIC VOLCANIC:		13469	362	367	5.0	Tr
		Similar to 221-227. Generally medium grained 1-4mm amphibole-		13470	367	372	5.0	Tr
		pyroxene Xtls in a feldspar rich matrix. Schistose being 55° to C.A.		13471	372	377	5.0	Tr
		Dark greyish green (C.S.) dark green black (D.S.) There is a slight		13472	377	382	5.0	Tr
		increase in quartz veining and sulphides (py). Few narrow zones of quartz		13473	382	387	5.0	0.01
		chlorite banding, crenulations adj. to fine grained areas. May be flow		13474	387	392	5.0	Tr
		banding and as such a vague indication that bed tops are to the north.		13475	392	397	5.0	Tr
		262 - 265: Micro-folding, parallel to C.A.		13476	397	402	5.0	Tr
		272: Fe stain on fracture surface.		13477	402	407	5.0	Tr
		277: Schistosity is 55° to C.A.		13478	407	412	5.0	Tr
		290 - 296: Mov. Schistose, some micro folding especially		13479	412	417	5.0	0.02
		at bottom contact. Increase to 5% of brown biotite.		13480	417	422	5.0	Tr
		Occurs as fragment looking patches.		13481	422	427	5.0	0.01
				13482	427	432	5.0	0.01
296	327.5	INTERBEDDED MAFIC LAVA FLOWS AND FELSIC TUFFS		13483	432	437	5.0	0.01
		AND/OR TUFFITE		13484	437	442	5.0	0.01
		Mafics are fine grained, schistose, dark green. H:3-4. The felsic is		13485	442	447	5.0	Tr
		similar to tuffite at 152.5 - 155.2 i.e. dark brownish grey, schistose,		13486	447	452	5.0	Tr
		bedded with micro sericitic lineations separated by 1-4mm of fine		13487	452	457	5.0	Tr
		grained siliceous fine grained rock H:6.0. In general top contact of		13488	457	462	5.0	Tr
		felsic is either contorted ragged or shows a glassy chill zone and also		13489	462	464.5	2.5	Tr
		occasional quartz eyes. They contain the odd k-spar phenocryst. Both		13490	464.5	468.5	4.0	0.12
		rock types are weakly mineralized with py.		13491	468.5	472	3.5	Tr
		296 - 298.2: Felsic. Schistosity changes from 55° to 30° to C.A.		13492	472	477	5.0	0.01
		300 - 304.3: Felsic. Schistosity (bedding) is 40° to C.A.		13493	477	480	3.0	Tr
		304.3 - 309.5: Mafic rock fractured and contorted. Original		13494	480	483	3.0	0.01
		texture destroyed. Fractures filled with calcite		13495	483	488	5.0	0.08
		(5-10%).		13496	488	492	4.0	0.01
		320: Schistosity is 45° to C.A.		13497	492	497	5.0	0.18
				13498	497	502	5.0	0.04
327.5	362	MAFIC TO INTERMEDIATE TUFF		13499	502	507	5.0	0.03
		(Biotite, Amphibole - Quartz/feldspar Schist)		13500	507	512	5.0	Tr
		Greyish green to brownish green (C.S.) Fine grained. Schistosity 55°-		13501	512	517	5.0	0.02
		60° to C.A. Banded brown biotite - quartz/feldspar - amphibole		13502	517	522	5.0	Tr
		Chloritic generally restricted adjacent to quartz/feldspar. There are		13503	522	527	5.0	Tr
		sporadic, occurrences of pyrite.		13504	527	532	5.0	Tr
		356 - 362: Mixture of altered mafic rock with two short lenses		13505	532	537	5.0	Tr
		of cherty rock. Some silicification adjacent to		13506	537	542	5.0	0.005
		cherty rock. H:4-6. Pyrite stringers on top		13507	542	547	5.0	Tr
		contact of cherty tuff.		13508	547	552	5.0	Tr

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
362	389	META MAFIC TUFF- LAPILLI TUFF Soft H:2-3, schistose medium grained, grey (C.S.). Minerals: actinolite tremolite, talc, carbonate (10 - 15%) vein and diss.) quartz 1% magnetite, >1% pyrite. Contains occasional soft chloritic fragment. Section micro folded, short section 1"-3" pulverized, granulated. At top and bottom the schistosity is 55°/45° respectively.		13509	552	557	5.0	0.005
				13510	557	560.5	3.5	Tr
				13511	560.5	562	1.5	0.03
				13512	562	567	5.0	Tr
				13513	567	572	5.0	Tr
				13514	572	577	5.0	Tr
				13515	577	582	5.0	Tr
389	413.2	INTERBEDDED INTERMEDIATE TO MAFIC TUFFS AND FELSIC TUFFS. Thin beds of felsic tuff - lapilli tuff: 1mm - 2mm felsic fragments in a fine grained siliceous matrix, grey in colour H 5.0 with beds of intermediate to mafic tuff and lapilli tuff: 1mm felsic fragments in a chloritic (amphibole) and biotitic rich matrix. Intermediate to mafic sections have 1-2mm grey-blue quartz eyes. Bedding planes vary from 45° to 55° to C.A. There are a few short 6" altered actinolite tremolite - biotite sections which were probably mafic tuffs. Section is weakly mineralized with py.		13516	582	587	5.0	Tr
				13517	587	592	5.0	Tr
				13518	592	597	5.0	Tr
				13519	597	602	5.0	0.01
				13520	602	607	5.0	0.005
				13521	607	612	5.0	Tr
				13522	612	617	5.0	Tr
				13523	617	622	5.0	Tr
				13524	622	627	5.0	Tr
				13525	627	632	5.0	Tr
413.2	428.5	META MAFIC VOLCANIC Fine grained, greyish green (C.S.) tending towards pistachio green (B.S.), schistose to felty looking texture. ≃H 3.0. Has few shear faces with slickensides at low < to C.A. Minor silicification, py. 417 - 418: Intermediate tuff.		13526	632	637	5.0	Tr
				13527	637	642	5.0	Tr
				13528	642	647	5.0	Tr
				13529	647	652	5.0	Tr
				13530	652	657	5.0	Tr
				13531	657	662	5.0	Tr
428.5	436	INTERMEDIATE TUFF Grey to dark brownish grey, generally fine grained. Contains 1-2% lapilli fragments. Gradational from a felsic rock to intermediate downhole. Felsic unit is sericitic. Bedding is 45° - 50° to C.A. 1% po, py. Contacts sharp at 50° to C.A.		13532	662	667	5.0	Tr
				13533	667	672	5.0	Tr
				13534	672	677	5.0	Tr
				13535	677	682	5.0	Tr
				13536	682	687	5.0	1.32
				13537	687	692	5.0	0.01
436	452.5	MAFIC VOLCANIC Fine to medium grained, grey green to dark green (C.S.) Felty looking texture H:3-4. Top 5' are similar to 413.2 - 428.5. This is gradational into a fairly massive unit which predominantly consists of amphibole. Bottom 3' have some microfolding, quartz veining with py, cpy and biotite rich bands.		13538	692	697	5.0	Tr
				13539	697	702	5.0	Tr
				13540	702	707	5.0	Tr
				13541	707	712	5.0	Tr
				13542	712	717	5.0	0.01
				13543	717	722	5.0	Tr
				13544	722	727	5.0	Tr
452.5	470	FELSIC TO INTERMEDIATE TUFF. Similar to 428.5 - 436. Top 12' weakly mineralized with py. Top contact vague, fractured, silicified, biotite rich. Has 2-3% diss. and stringer po, py. 464 - 470: 5-15% stringer and vein type po, py. Pyrite on top gradational to po. Section banded silicified, biotitized with few cherty looking sections. Parts mincrofolded. Bands 50° to C.A. Bottom contact sharp at 90° to C.A.		13545	727	732	5.0	Tr
				13546	732	737	5.0	Tr
				13547	737	742	5.0	Tr
				13548	742	747	5.0	Tr
				13549	747	752	5.0	Tr
				13550	752	757	5.0	Tr
[illegible]0	498.5	MAFIC VOLCANIC Greyish green to brownish green, fine grained. Hardness varies from 4-5. Characteristic of this section is its inhomogeneity i.e. silicification banding (biotite - amphibole), sulphide veining calcite veining and blebs (5-10%). The sulphides po, py - occur as veins, stringers, diss. and elongated blebs.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
470	498.5	CONTD. 470 - 472: Rock severely altered. 10% Po, py, cpy, crenulated, biotitized, sausserite, calcite blebs and veins. 472 - 480.5: Fairly massive, fine grained, hard. 1-3% calcite blebs and stringers. Few sulphide zones 1-3" wide. Pyrite main sulphide. 480.5 - 488: 3-5% py, po 5-10% calcite stringers veins, and blebs. Brown biotite common. 488 - 498.5: Similar to 480.5 - 488 but decrease in calcite and py, po. Schistosity for section varies 45° - 55° to C.A.						
498.5	577.5	MAFIC LAVA Medium grained, greyish green (C.S.), dark green (B.S.) massive to coarsely schistose. Little silicification or sulphides. Minor calcite - stringer and blebs except 574 - 577.5 where it increases to 2-3%. Main minerals are amphibole, feldspar quartz, biotite. H≃4.0. 534.8 - 536.7: Intermediate to mafic. Fine grained, massive. Greenish grey in colour. 561: 3" quartz, py, unidentified mineral (marcasite?). Schistosity for section vague 50-55° to C.A.						
577.5	586.5	MAFIC ROCK Fine grained, greenish grey, H≃3.0. Minerals are amphibole (actinolite tremolite), biotite, chlorite carbonate (sericite?), massive to schistose with schistosity changing from 40° ⟶ 0 ⟶ -30°. 581 - 582: Quartz - CO_3 vein, chloritic alteration in and around vein. Contacts gradational, fractured with CO_3 stringers.						
586.5	654.5	MAFIC LAVAS Similar to 498.5 - 577.5. Calcite blebs, stringers common in top half of sequence. Section massive to coarsely schistose: 55 - 60° to C.A. Minor silicification, sulphides. Quartz veins usually zoned by CO_3. There is a vague indication that tops are to the north.						
654.5	668.5	PYRITIC MAFIC TUFF - LAPILLI TUFF Fine to medium grained, grey black (C.S.) Massive to schistose (60-65°) Has grey to white translucent plagioclase (and quartz?) .5 - 1mm, 5-15% fragments in a slightly finer grained matrix of biotite, amphibole feldspar. H:3-4. Section carries 2-3% crystaline disseminated pyrite which appears to be primary. Fair degree of fracturing, generally parallel to Schistosity. Fragments increase in size (1-2mm) downhole.						
668.5	757	MAFIC TUFFS AND LAVA FLOWS Generally fine to medium grained lava flows with narrow sections which look tuffaveous. Varies from greyish green to dark green depending on felsic content. There is a noticeable decrease in calcite and increase in silicification and sulphides particularly cpy and the unidentified mineral (marcasite). Schistosity (and bedding) avg. 60-65° to C.A. Fracturing more prominent usually at 5-20° to C.A. Quartz veining 50-65° to C.A.						

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

PROPERTY DETOUR LAKE HOLE NO. 38 - 26 Page 5

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
668.5	757	CONTD.						
		668.5 - 690: Fine grained with silicification and fracturing,						
		685: 3" - crenulated, veined, chloritic alteration						
		cpy and marcasite?						
		Minor disseminations of po, py throughout.						
		HOLE ENDED AT 757.0'						

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

PROPERTY	DETOUR LAKE	LATITUDE	190 + 00E	STARTED	January 26th, 1975
HOLE NO.	38 - 8	DEPARTURE	195 + 50N	FINISHED	February 4th, 1975
BEARING	360°	ELEVATION		LENGTH	996.0'
DIP-COLLAR	-47	SECTION		LOGGED BY	TERRY GATES

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
0	-47°	600	47°		
200	49°	800	48°		
400	48°	995	46°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	173	OVERBURDEN	
0	180	CASING	
180	198.1	MAFIC LAVA	
		Dark green black, fine to medium grained H:5 Minerals, Hornblende, pyroxene, Plag feldspar minor quartz. Calcite stringers throughout. Bottom contact fairly sharp at 50° to core axis. Contact characterized by gradual increase in biotite content (plus fragment? - faint, white, poikilitic'. Minor pyrite.	
		182 - 184: Broken core	
		186.5 - 187: Biotite alteration	
		188 - 189.5: 1% Pyrite disseminations	
		189: <1% white anhedral feldspar phenocrysts.	
198.1	226	MAFIC VOLCANIC - possibly tuffaceous	
		Fine grained, grey green (C.S.) greyish black (B.S.) Minerals - Amphibole, feldspar, quartz. Upper contact has calcite and quartz veining.	
		Parts of section may be mylonitic? Banded cherty fractured and brecciated.	
		202 - 206.5: Gradual increase in biotite content 60% at 206.5. Fairly sharp contact at 206.5 with non-biotite mafic.	
		207 - 208.5: granulated siliceous matrix	
		208.5 - 211: Feldspar, anhedral phenocrysts <1% rock highly fractured	
		211 - 212.5: Fine grain, grey green volcanic sucrosic texture distinct change to medium grained andesite at 213.	
		216.5 - 223: Mylonitic? Probably agglomerate., Has streaked appearance. Brecciated. Some appears insitu. Few calcite porphyroblasts. Calcite stringers usually running at 40° to 50° to core axis. Minor diss. Po. Py.	
226	255.2	AGGLOMERATE - MAFIC VOLCANIC	
		Fragments (if they are) are usually more felsic than matrix and indistinct, va gue.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
4179	280	285	5.0	NIL				
4180	285	290	5.0	Tr				
4181	290	295	5.0	NIL				
4182	295	300	5.0	NIL				
4183	300	305	5.0	NIL				
4184	305	310	5.0	NIL				
4185	310	315	5.0	0.02				
4186	315	320	5.0	Tr				
4187	320	325	5.0	0.01				
4188	325	330	5.0	NIL				
4189	330	335	5.0	NIL				
4190	335	340	5.0	NIL				
4191	340	345	5.0	NIL				
4192	345	350	5.0	NIL		0.03		
4193	350	355	5.0	NIL		0.01		
4194	355	360	5.0	NIL		0.01		
4195	360	365	5.0	Tr		0.03		
4196	365	370	5.0	NIL				
4197	370	375	5.0	NIL		0.02		
4198	375	378	3.0	NIL		0.03		
4199	378	383	5.0	NIL		0.01		
4200	383	388	5.0	NIL		0.01		
4201	388	390.5	2.5	NIL		0.02		
4202	390.5	394	3.5	NIL		0.06		
4203	394	398	4.0	Tr		0.04		
4204	398	403	5.0	Tr		0.02		
4205	403	408	5.0	Tr		0.06		
4206	408	412	4.0	Tr		0.02		
4207	412	415	3.0	Tr		0.28		
4208	415	420	5.0	Tr		0.02		
4209	420	423.5	3.5	NIL		0.01		
4210	423.5	428	4.5	0.11		0.07		
4211	428	433	5.0	0.005		0.02		
4212	433	438	5.0	Tr		0.01		
4213	438	441	3.0	NIL		0.02		
4214	441	446	5.0	NIL		0.03		
4215	446	451	5.0	Tr		0.02		
4216	451	456	5.0	NIL		0.02		

11 / 4.5

REGISTERED PROFESSIONAL ENGINEER P. M. MacGOT 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.	ASSAYS Pb.
226	255.2	CONTD.		4217	456	461	5.0	NIL		0.03		
				4218	461	466	5.0	NIL		0.06		
		235.5 - 238: Large 1" - 2" Medium grained, grey black fragments surrounded by biotitic matrix. 5% Calcite stringers varying from 75° to 30° to core axis.		4219	466	469	3.0	NIL		0.02		
				4220	469	472.5	3.5	Tr		0.14		
				4221	472.5	476	3.5	0.05		0.05		
				4222	476	479.5	3.5	NIL		0.02		
		238 - 244: Still fragmental but fragments very vague. Few porphyroblasts of calcite with minor quartz and feldspar..		4223	479.5	483	3.5	.17		0.08		
				4224	483	488	5.0	0.10		0.06		
				4225	488	493	5.0	NIL		0.01		
		244 - 245: Amphibolite. Minor pyroxene. Tr Cpy - along fracture plane..		4226	493	496	3.0	NIL		0.05		
				4227	496	499	3.0	NIL		0.07		
		245 - 251: Brecciated and fractured. Minor Po and Py disseminated and in fractures Anesite/basalt to amphibolite in composition		4228	499	502	3.0	0.01		0.11		
				4229	502	507	5.0	Tr		0.05		
				4230	507	512	5.0	NIL		0.01		
		251 - 255: Amphibolite. Tremolite - actinolite from 253 to 255.		4231	512	517	5.0	NIL		0.01		
				4232	517	522	5.0	Tr		0.01		
				4233	522	527	5.0	Tr		0.02		
255	275.2	MAFIC VOLCANIC PROBABLY LAVA Fine grained, grey black (C.S.) green black (B.S.) Few Calcite stringers		4234	527	532	5.0	Tr		0.02		
				4235	532	533	1.0	Tr		0.02		
				4236	533	538	5.0	1.39		0.10		
		265.5 - 266: Fragmental - Volcanic breccia? Vague Elongated 40° to core axis.		4237	538	543	5.0	0.01		0.02		
				4238	543	548	5.0	Tr		0.03		
				4239	548	553	5.0	0.005		0.04		
275.2	656	FINE TO MEDIUM ANDESITE Grey green (C.S.) greyish green black (B.S.) Usually medium grained with feldspar showing preferred orientation. Subophitic when massive. Sometimes schistose with both feldspar and amphibole lineated. Biotite rich sections occur throughout most prominent adjacent to quartz veining. Carries disseminated po.		4240	553	558	5.0	0.01		0.08		
				4241	558	563	5.0	Tr		0.01		
				4242	563	568	5.0	NIL		0.03		
				4243	568	573	5.0	0.04		0.04		
				4244	573	578	5.0	NIL		0.01		
				4245	578	583	5.0	NIL		0.02		
				4246	583	588	5.0	NIL		0.01		
		278 - 281: 3-5% brown biotite with 1% diss. Po, TrCpy		4247	588	593	5.0	NIL		0.02		
		281 - 282: fine grained. Calcite stringers 60° to core.		4248	593	598	5.0	NIL		0.07		
		282.2 - 285: Core broken. Much hairline fracturing		4249	598	603	5.0	Tr		0.03		
		285.5: Feldspar lineation 65° to core axis.		4250	603	608	5.0	Tr		0.01		
		290 - 301.5: Fine grained.		4251	608	612	4.0	NIL		0.02		
		298 - 300: Broken core. Much hairline fracturing. 15% calcite stringers.		4252	612	615.2	3.2	Tr		0.11		
				4253	615.2	618	2.8	Tr		0.01		
		294.5 - 295: 7% biotite with 1-2% Po, Py, TrCpy		4254	618	623	5.0	Tr		0.01		
		308.7 - 311.5: Spotty biotite rich areas with diss. Po		4255	623	628	5.0	NIL		0.01		
		314.5 - 315.5: 5% calcite porphyroblasts		4256	628	633	5.0	Tr		0.07		
		318 - 321: Fine grained. Lighter colour silification?		4257	633	638	5.0	Tr		0.01		
		323.5 - 325.5: 2-3% biotite with minor diss Po		4258	638	643	5.0	NIL		0.01		
		337.5: 4" fine grained green black. Sharp contacts at 50°		4259	643	648	5.0	NIL		0.02		
		350 - 351: Similar to 337.5 sucrosic texture.		4260	648	653	5.0	0.01		0.02		
		362 - 362.8: Biotite - Po - Py		4261	653	658	5.0	NIL		0.05		
		367 - 368.5: 3 - 4% irregular calcite stringers		4262	658	663	5.0	Tr		< 0.01		
		374 - 378: Biotite - 1% diss Po		4263	663	668	5.0	NIL		0.01		
		390 - 393: Gradual increase in biotite alteration culminating in schistose banding with 50% biotite.		4264	668	673	5.0	NIL		0.01		
		393 - 398.5: Gradual decrease in biotite then increase to 396.5 then decrease again		4265	673	678	5.0	NIL		< 0.01		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
275.2	656	CONTD.		4266	678	683	5.0	Tr		0.01		
				4267	683	688	5.0	NIL		0.01		
		412 - 415: Silification and biotization. Up to 20% diss Po on each side of 5" quartz vein. More prevalent up hole.		4268	688	693	5.0	NIL		< 0.01		
				4269	693	695.5	2.5	NIL		0.06		
				4270	695.5	698	2.5	NIL		0.01		
		423 - 427.5: Sparse to complete biotization with 5 - 10% Po in latter		4271	698	700	2.0	Tr		0.01		
				4272	700	704	4.0	0.02		0.20		
		441 - 446: Biotization with 2 - 5% diss Po.		4273	704	709	5.0	Tr		0.01		
		458.5 - 459: Po, MrPy, Tr Cpy along fracture plane		4274	709	714	5.0	0.20		0.06		
		469 - 477: Gradual increase in biotite approaching quartz at 468. 5 - 10%.		4275	714	719	5.0	Tr		0.02		
				4276	719	724	5.0	Tr		0.01		
		479.5 - 487.5: Varying degrees of biotitization associated with quartz veining with 1- 10% diss. Po. Minor to 1% Cpy		4277	724	726	2.0	NIL		0.02		
				4278	726	729.5	3.5	0.20		0.20		
				4279	729.5	734	4.5	Tr		0.06		
		494 - 495: Similar to 479.5 - 487.5.		4280	734	739	5.0	0.01		0.07		
		496 - 498: " " " "		4281	739	744	5.0	NIL		0.02		
		501.5 - 505.5: " " " "		4282	744	749	5.0	NIL		0.05		
		515.4 - 516: Amphibolite		4283	749	754	5.0	0.01		0.01		
		516 - 517.5: Dark black green, fine grained. Very chloritic Calcite stringers		4284	754	759	5.0	Tr		0.01		
				4285	759	764	5.0	NIL		0.05		
		533.7 - 537.2: 60t % quartz veining with intervening areas biotitized carrying 30% Po, minor Cpy. Quartz cut by calcite filled fractures.		4286	764	769	5.0	Tr		0.04		
				4287	769	773.5	4.5	Tr		0.04		
				4288	773.5	778.5	5.0	0.17		0.22		
		520 - 656: Rock more schistose		4289	778.5	783	4.5	0.09		0.39		
		527 - 572: Blotchy biotitization with diss Po.		4290	783	786	3.0	NIL		0.01		
		542 - 552: Schistose tending to a Biotite - Amphibole - Feldspar schist. Streaky. Contains short zones of silification with 2-5% Po in stringers parallel to schistosity. Tr Cpy. Calcite and less frequently quartz stringers (hairline) Sucrosic texture.		4291	786	788.5	2.5	0.09		0.46		
				4292	788.5	793	4.5	0.09		0.06		
				4293	793	798	5.0	Tr		0.01		
				4294	798	803	5.0	0.02		0.12		
				4295	803	808	5.0	Tr		0.01		
		584 - 656: Blotchy biotitization with diss Po		4296	808	813	5.0	Tr		0.02		
		591 - 595.2: Biotitization, silification with Po, Tr Cpy diss and in stringers		4297	813	818	5.0	Tr		0.02		
				4298	818	823	5.0	Tr		0.02		
		598.1 - 598.8: Biotite 5 - 10% diss Po minor Cpy		4299	823	828	5.0	NIL		0.01		
		612 - 616.2: Quartz veining and some silification. Up to 15% Po Minor Cpy.		4300	828	833	5.0	NIL		0.01		
				4301	833	838	5.0	0.04		0.13		
		620 - 632: Fine → Medium → fine grained more schistose		4302	838	843	5.0	Tr		0.05		
		630.5: Fractures running parallel to core axis Contains Po, Cpy		4303	843	848	5.0	0.02		0.09		
				4304	848	853	5.0	Tr		0.04		
		649.5: 3" slightly finer grained with biotite alteration on either side.		4305	853	858	5.0	0.03		0.05		
				4306	858	863	5.0	Tr		0.02		
		653 - 654.5: 7" quartz veining with complete biotitization on FW for 4". 2-5% Po Minor - 1% Cpy.		4307	863	868	5.0	Tr		0.02		
				4308	868	873	5.0	Tr		0.02		
				4309	873	878	5.0	Tr		0.01		
				4310	878	882	4.0	Tr		0.04		
				4311	882	887	5.0	Tr		0.06		
				4312	887	892	5.0	Tr		0.05		
				4313	892	897	5.0	Tr		0.02		
				4314	897	902	5.0	NIL		0.01		
				4315	902	907	5.0	NIL		0.01		
				4316	907	912	5.0	NIL		0.01		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu	ASSAYS Zn.	ASSAYS Pb.
656	663.5	MAFIC		4317	912	917	5.0	NIL		0.03		
		Possible shallow Intrusive: Granular, Hypidiomorphic		4318	917	922	5.0	Tr		0.09		
		Minerals Pyroxene, Hblde, Biotite, Plag Feldspar,, Fine grained		4319	922	927	5.0	Tr		0.01		
		Brown black (F.S.) Fairly Massive. Little tremolite.		4320	927	932	5.0	NIL		0.01		
				4321	932	937	5.0	0.01		0.01		
663.5	665	Andesite		4322	937	942	5.0	Tr		0.02		
		Similar 275 - 656		4323	942	947	5.0	NIL		0.01		
				4324	947	952	5.0	0.01		0.02		
665.5		Similar to 656 - 663.5		4325	952	957	5.0	NIL		0.01		
		Sharp contacts at 50° to core axis		4326	957	962	5.0	Tr		0.05		
				4327	962	967	5.0	0.01		0.03		
665.5	671	Andesite		4328	967	972	5.0	0.01		0.06		
				4329	972	977	5.0	Tr		0.03		
671	692.8	Similar to 656 - 663.5		4330	977	982	5.0	Tr		0.02		
		668 - 672.5: Streaky with some silification. 1-2% Po, Cpy,		4331	982	987	5.0	Tr		0.04		
		688 - 692.8: Soft felty. Biotite - tremolite schist.		4332	987	992	5.0	Tr		0.08		
				4333	992	996	4.0	NIL		0.02		
692.8	699	Andesite										
699	700	Similar to 656 - 663.5										
700	754	MEDIUM GRAINED ANDESITE										
		700 - 704: Biotitization, silicification. Up to 20% Po minor to 1% Cpy in veins and disseminated										
		726 - 729.5: Alteration halo around 1.5' Quartz with Po and Cpy restricted primarily to mafic										
		738 - 739: 70% biotite over 1", Minor Cpy Po										
		747: Hairline fractures parallel to core with Po, Cpy										
754	755.5	Similar to 671 - 692.8?? (Vague)										
		Soft, schistose. Talc on shear faces (Serpentine?)										
		Top contact banded - Biotite - chlorite - Sericite - (feldspar)?										
		at 55° to core axis. Adjacent andesite is medium grained with biotitization. Bottom contact fairly sharp with 1/8" chlorite.										
755.5	762	Andesite										
		760: Cpy and Py in quartz (not usual)										
762	762.5	Similar to 754.5 - 755.5										
		Soft, Talcose										
762.5	772	Andesite										
772	773.8	Similar to 754.5 - 755.5										
		Texturally resemblance, Soft, granular except at contacts.										
		Bottom contact against 7" quartz then medium grained andesite.										
773.8	778.2	Andesite										

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
778.2	781	Similar to 772.773.8 grey black (F.S.) Top contact fairly sharp at 60° to core axis but Andesite appears metamorphosed. Bottom contact again adjacent to quartz with Po & Cpy.						
781	782	Andesite						
782	782.5	Similar to 772 - 772.8						
782.5	782.9	Andesite						
782.9	783.4	Similar to 772 - 773.8						
783.4	788.5	MEDIUM GRAINED ANDESITE Quartz veining with silification and biotitization, disseminated Po, Cpy Po and Cpy also in veins and stringers parallel to schistosity						
788.5	799.7	INTERMEDIATE LAVA 3½' at top: Streaky dark green black, highly chloritic at very top to chlorite amphibole - biotite banding to fine grained sucrosic grey black middle section fairly massive H. < 5.0 Bottom contact fairly sharp at 75° to core axis.						
799.7	802	ANDESITE Medium grained with quartz veining. Heavily chloritized and biotitized.						
802	807.5	Similar to 788.5 - 799.7 Fragmental top? Vague - 1" - 2" intermediate "fragment" in medium grained andesite. Both fragments and matrix biotitized - matrix more so Grain size - Vf gr → m.gr → f.gr . Bottom contact fairly sharp at 65° (with fragment of Andesite??)						
807.5	809.4	ANDESITE M. gr.						
809.4	829	Similar to 802 - 807.5 Contains short sections of mod. gr. andesite						
829	394	Medium grained ANDESITE 830 - 832: Fracturing parallel to core axis. Talcose faces 836: 4½" quartz Tr sulphides 843.7 - 845: Quartz veining with Po, Cpy 845 - 845: Up to 20% Po, 1% Cpy. Sulphides confined largely to mafic 847.5 - 849: Biotitization with 2" quartz vein. 5% diss. Po Mr Cpy. Most alteration occurs up dip of quartz vein. 858.4 - 867: Increase in Femg content. Slightly coarser grained H > 5.0. 856: Ptygmatic folding of quartz with axis at 60° to C.A. 868: 2 - 3% biotite in chlorite - amphibole schist at 65° to C.A.						

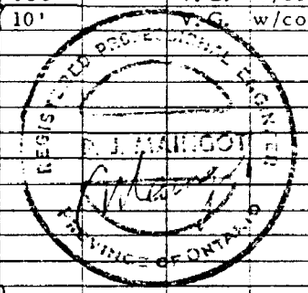
FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
829	894	CONTD.						
		867 - 880: Possible bed top and bottom More mafic to less with grain size m.gr -fgr - mgr						
		880 - 894: Biotite and chlorite alteration accompanying silification and quartz veining (1/8" - 4½" wide). Disseminated Po with biotite, minor Cpy.						
894	899.4	Volcanic?? Fine grained, grey green (F.S.) Fairly hard - 5.0. Tremolite feldspar, hblde. Vaguely similar on core surface to 671 - 693. Sparse feldspar anhedral phenocrysts. Diss. Po <1%. Bottom contact sharp at 50°.						
904	910.5	MAFIC VOLCANIC Top very f.gr. to fine grained downhole. Grey brownish black (C.S.) Top contact displays 1/16" felsic - grey white bands usually parallel to schistosity.						
910.5	996	Fine to medium Grained Mafic Lava						
		910.5 - 925: Medium grained andesite 10 - 15% quartz veining, stringers and silification with biotitization. Banded appearance.						
		912 - 917: Hairline fracturing shearing with talcose faces						
		919: Two andesitic fragments? or dikes?						
		920.2: 2-3% Cpy over 3"						
		948.5 - 996: Finer grained mafic lava						
		953 - 955: Amphibolite, medium grained.						
		959.5 - 965: Quartz veining, silification biotite alteration banded appearance. Possible breccia very vague.						
		961: 3 - 5% Cpy along shear face.						
		970.5 - 977: Massive amphibolite						
		972: 1" mass Po						
		988 - 991: 5% Po minor Cpy, disseminated and in stringers with quartz. Minor calcite.						
		991 - 996: fine grained black H>5.0 predominantly amphibole.						

TROPARI	DIP.	AZ.
300'	59°	173°
700'	57°	177½°
1200'	59°	158°

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	206 NORTH	STARTED	15th October, 1975						
HOLE NO.	38 - 92A	DEPARTURE	188 EAST	FINISHED	24th October, 1975	200'	59°	800'	54°	1400'	58°
BEARING	180°	ELEVATION	-	LENGTH	1551 FEET	400'	59°	1000'	56°		
DIP-COLLAR	- 63°	SECTION	188 EAST	LOGGED BY	J. KORENIC	600'	57°	1200'	56½°		

FOOTAGE From	FOOTAGE To	DESCRIPTION		% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.		
					9721	75.0	80.0	5.0	.025				
0	72.0	CASING			9722	80.0	85.0	5.0	.825	.25			
					9723	94.0	99.0	5.0	.115	19'			
72.0	362.2	MAFIC AND INTERMEDIATE LAVA FLOWS.			9724	115.0	120.0	5.0	.04			V.G.	w/core
		Green and buff brown. Medium grained, biotite rich. Mixed in compo-			9725	120.0	125.0	5.0	.04				
		sition between mafics and Intermediate. Numerous ¼-3/4" quartz veins-			9726	125.0	130.0	5.0	.03				
		orientated at low angle to the C.A. (≤20-25° C.A.) bearing V.G.)			9727	130.0	135.0	5.0	.005				
		72.0 - 94.5:	Mafic Lava Flow - mixed in composition,		9728	135.0	140.0	5.0	.49	.30		V.G.	w/core
			predominantly mafic, Green to a buff brown.		9729	140.0	145.0	5.0	.11	10'		V.G.	w/core
			Biotite rich. Minor diss. po and py.		*9730	145.0	152.5	5.0	T				
		76.7:	Quartz vein (3/4") - 8° to C.A. contains		9731	275.0	280.0	5.0					
			2% po, 1% py.		9732	320.0	325.0	5.0	.010				
		94.5 - 137.0:	Intermediate to mafic flow/tuff - highly		9733	325.0	330.0	5.0	.005				
			intermixed in composition - similar to above		9734	330.0	335.0	5.0	.030				
			except more intermediate. Light green -		9735	335.0	340.0	5.0	.040				
			buff brown. Several thin tuffaceous beds,		9736	355.0	360.0	5.0	.010				
			orientated at 40° to C.A.		9737	410.0	415.0	5.0	.045				
		95.0:	Quartz vein - (¼"), 7° to C.A. 50% po, 30%py		9738	435.0	440.0	5.0	.045				
		96.3:	Quartz vein - (1¼"), 60° to C.A. - barren		9739	440.0	445.0	5.0	T				
		102.0:	Quartz vein (1 3/4") 75° to C.A. tr po		9740	460.0	465.0	5.0	.37	.22	.20		
		118.5:	Quartz vein (1"), 75° to C.A. 1% py, po.		9741	465.0	470.0	5.0	.075	10'	.26		
		119.2:	Quartz vein (¼"), 8° to C.A. 1% py. po. V.G.	V.G. (1 speck)	9742	470.0	475.0	5.0	.02		.04		
		125.0:	Quartz vein (1"), 75° to C.A. tr po		9743	485.0	490.0	5.0	T				
		127.0:	Quartz vein (½"), 20° to C.A. 5% po. 2% py	5% po, 2% py, tr cpy	9744	490.0	495.0	5.0	.030				
			tr cpy. Several quartz/carbonate veins -		9745	495.0	500.0	5.0	.005				
			½"-1"/5'.		9746	500.0	505.0	5.0	.005				
		135.8:	Quartz vein (½") 20° to C.A., 9 specks V.G.	V.G. 9 specks.	9747	505.0	510.0	5.0	.041			V.G.	w/core
			throughout vein (including one large speck)		9748	510.0	515.0	5.0	.005				
		136.4:	Quartz vein (¼") 25° to C.A. - barren.		9749	515.0	520.0	5.0	.005				
		137.0 - 143.0:	Mafic flow.		9750	520.0	525.0	5.0	.005				
			Intermediate concentrations, green,		9751	525.0	530.0	5.0	T		.03		
			medium grained, slightly foliated at 25° C.A.		9752	530.0	535.0	5.0	.005		.17		
		137.1:	Quartz vein (1/8") 20° to C.A. V.G. 1 speck	V.G. 1 speck	9753	535.0	540.0	5.0	.020		.04		
		138.0:	Quartz vein (¼"), 25° to C.A. V.G. 1 speck	V.G. 1 speck	9754	560.0	565.0	5.0	.035		.15		
			Py and tr cpy found along fractures		9755	580.0	585.0	5.0	.02		.03		
					9756	585.0	590.0	5.0	.04		.04		
					9757	590.0	595.0	5.0	.04		.05		
					9758	595.0	600.0	5.0	.045				
					9759	600.0	605.0	5.0	.155		.06	V.G.?	w/core
					9760	605.0	610.0	5.0	.06		.03		



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.	Ag.	Cu.		
				9761	622.0	627.0	5.0	.02				
72.0	362.2	CONTD.		9762	645.0	650.0	5.0	.01				
		143.0 - 210.0: Mafic flow		9763	650.0	655.0	5.0	.02				
		Green, fine to medium grained carbonate		9764	685.0	690.0	5.0	.005				
		blebs found within top 2-3' of flow. Very		9765	690.0	695.0	5.0	T				
		massive, few quartz veins. Tiny fractures		9766	695.0	700.0	5.0	.005				
		appear to have a general trend of 25° to C.A.		9767	700.0	705.0	5.0	.12				
		1% po, py, tr cpy along fractures. Amphibo-		9768	705.0	710.0	5.0	.035				
		lised. Foliation 60° to C.A.		9769	710.0	715.0	5.0	T				
		Ground core(147½ - 150') - 2½'		9770	780.0	785.0	5.0	.01				
		203.0: Quartz vein (½") 55° to C.A. - barren		9771	785.0	790.0	5.0	T				
		203.7: Quartz vein (1¼") 80° to C.A. - barren		9772	805.0	810.0	5.0	.15	.30	.37		
		210.0 - 222.5: Intermediate flow (Slightly mafic),		9773	840.0	845.0	5.0	.449	10'	.05	V.G.	w/core
		gradational contact.		9774	845.0	850.0	5.0	.005		.02		
		211.8: Quartz vein (3/4") - 75° to C.A. - barren		9775	850.0	855.0	5.0	.005				
		222.5 - 263.0: Intermediate flow.		9776	880.0	885.0	5.0	.005				
		Mafics interbedded within. Slightly foliated		9777	885.0	890.0	5.0	T				
		at 75° to C.A. Numerous (1"/5') quartz/		9778	905.0	910.0	5.0	.025				
		carbonate veins. Buff brown - colour,		9779	910.0	915.0	5.0	T				
		biotite rich. Tuffaceous in places. Bedding		9780	915.0	920.0	5.0	T				
		at 40°.		9781	920.0	925.0	5.0	.01				
		238.3: Quartz vein (½") 75° to C.A. -barren.		9782	925.0	930.0	5.0	.01				
		263.0 - 274.5: Mafic flow. Gradational contact. Green,		9783	930.0	935.0	5.0	.01				
		medium grained. 1-2% diss. py within. Py		9784	935.0	940.0	5.0	.333		.17	V.G.	w/core
		increases in size with depth (upto ¼" in size)		9785	940.0	945.0	5.0	T				
		Large k-spar (feldspar) blebs (upto 1/8").		9786	960.0	965.0	5.0	.03				
		Generally restricted to the upper part of the		9787	------	------	----	----	----	----		
		flow.		9788	990.0	995.0	5.0	.08				
		274.5 - 339.5: Intermediate flow and tuff. Medium grained,		9789	995.0	1000.0	5.0	.005				
		mixed with mafics. Diss. py (2%) Tuffs		9790	1000.0	1005.0	5.0	.02				
		bedded at 30° to C.A.		9791	1005.0	1010.0	5.0	.006				
		274.7: Quartz vein (1"), 70° to C.A. Barren		9792	1015.0	1020.0	5.0	T				
		275.5: Quartz vein (1"), 60° to C.A. barren.		9793	1020.0	1025.0	5.0	.02		.20		
		277.0: Quartz vein, (3/4"), 10° to C.A. - ½% po	½% po, py and tr cpy	9794	1025.0	1030.0	5.0	T		.01		
		and py, tr cpy.		9795	1030.0	1035.0	5.0	.025		.06		
		282.0 - 287.0: Intermediate tuff - carbonate veining -		9796	1035.0	1040.0	5.0	.117				
		biotite rich, 2% py, po, Minor quartz vein		9797	1040.0	1045.0	5.0	.06				
		and pods.		9798	1045.0	1050.0	5.0	.07				
		287.3: Quartz vein - 70° to C.A. (½"). Tr py, po		9799	1069.0	1074.0	5.0	.285				
		303.3: Quartz vein (1"), 80° to C.A., 1% po, py.		9800	1074.0	1079.0	5.0	.015				
		Numerous bluish-grey carbonate veins, 1		20901	1100.0	1105.0	5.0	T				
		1½"/5'. Considerable (1-2%)py diss. and		20902	1105.0	1110.0	5.0	.242			V.G.	w/core
		along carbonate veins.		20903	1110.0	1115.0	5.0	.055	.318			
		313.5: Carbonate/quartz vein (½") 60° to C.A. tr py		20904	1115.0	1120.0	5.0	.035	25'			
		317.1: Quartz vein (3/4"), 25° to C.A. 1% py, po		20905	1120.0	1125.0	5.0	3.325		.24	V.G.	w/core
		323.1: Quartz vein and carb. /quartz vein, (45° to		20906	1125.0	1130.0	5.0	.26				
		C.A.) 0.8" in width. Minor py, po. Biotite		20907	1130.0	1135.0	5.0	.01				
		alteration along vein.		20908	1135.0	1140.0	5.0	.015				
		325.5: Quartz vein (½") 10o to C.A.		20909	1140.0	1145.0	5.0	.03				
		335.5: Quartz vein (extends from 333.5 - 337.2,		20910	1145.0	1150.0	5.0	.005				
		337.2, orientated at 5-10o to C.A. Consid-	15% po, 5% py, tr cpy	20911	1150.0	1155.0	5.0	T				
		erable carbonate, chlorite and biotite. 1%		20912	1155.0	1160.0	5.0	T				
		po, py.		20913	1160.0	1165.0	5.0	.01				
				20914	1165.0	1170.0	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION		% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.	Ag.	Cu.		
					20915	1170.0	1175.0	5.0	.365	.31	.26	V.G.	w/core
72.0	362.2	CONTD.			20916	1175.0	1180.0	5.0	.255	10'			
		339.5 - 345.2:	Mafic flow		20917	1180.0	1185.0	5.0	.005		.06		
			Green, medium grained. Biotite rich,		20918	1185.0	1190.0	5.0	.015		.07		
			numerous carbonate veins (2"/5') above		20919	1190.0	1195.0	5.0	.005				
			contact orientated at 75° to C.A.		20920	1195.0	1200.0	5.0	.010				
		345.2 - 362.2:	Intermediate flow.		20921	1200.0	1205.0	5.0	.167				
			Coarse grained, brown, numerous carbonate		20922	1205.0	1210.0	5.0	.010				
			quartz veins. Contact with above flow at		20923	1210.0	1215.0	5.0	.005				
			60° to C.A.		20924	1215.0	1220.0	5.0	.045		.05		
		358.0:	Quartz vein ½" 15° to C.A. 1% po, py		20925	1220.0	1225.0	5.0	.281		.14	V.G.	w/core
			tr cpy.		20926	1225.0	1230.0	5.0	.01		.07		
					20927	1230.0	1235.0	5.0	T		.09		
362.2	417.0	MAFIC LAVA FLOW			20928	1235.0	1240.0	5.0	.015		.05		
		Medium to fine grained, green quartz eyes, slightly amphibolised.			20929	1240.0	1245.0	5.0	.02		.03		
		364.3:	Flow contact, attitude undeterminable.		20930	1245.0	1250.0	5.0	.01		.04		
			Contains quartz eyes and is slightly amphi-		20931	1250.0	1255.0	5.0	.01		.04		
			bolised.		20932	1255.0	1260.0	5.0	.02		.05		
		370.0 - 371.0:	Flow contact with mafic flow - fine grained,		20933	1260.0	1265.0	5.0	.01				
			lacks quartz eyes not amphibolised.		20934	1265.0	1270.0	5.0	.01				
		371.0 - 377.3:	Mafic flow contact, at 30° to C.A. slightly		20935	1270.0	1275.0	5.0	.005				
			intermediate biotite rich. Green-buff brown,		20936	1275.0	1280.0	5.0	.03				
		377.3 - 417.0:	Mafic flow. gradational contact biotite rich,		20937	1280.0	1285.0	5.0	.138			V.G.	w/core
			amphibolised. Minor diss. py		20938	1285.0	1290.0	5.0	.02				
		411.0:	Quartz vein (3/4" - 20° to C.A.	5% po, ½% py, ¼% cpy	20939	1290.0	1295.0	5.0	T				
			¼% cpy, 5% po, ½% py.		20940	1295.0	1300.0	5.0	T				
					20941	1300.0	1305.0	5.0	.04				
417.0	471.0	MAFIC AND INTERMEDIATE FLOWS			20942	1305.0	1310.0	5.0	.03				
		Series of intermediate and mafic flows interbedded, generally mafic.			20943	1310.0	1315.0	5.0	.015				
		Green - buff brown. Medium grained.			20944	1315.0	1320.0	5.0	.11		.36		"
		417.0 - 425.8:	Mafic and intermediate flows interbedded.		20945	1320.0	1325.0	5.0	.16	.35	.55		"
			Foliated at 20° to C.A. pitted surface.		20946	1325.0	1330.0	5.0	1.31	25'	1.02		"
			Elongated blebs of quartz/carbonate.		20947	1330.0	1335.0	5.0	.355	(41 unit)	.83		"
			Stringers of po parallel to foliation -		20948	1335.0	1340.0	5.0	.124	.24	.2	V.G.	"
		417.8:	Quartz vein - 3/4" - 20° to C.A. tr py, po.		20949	1340.0	1345.0	5.0	.026	40'	.08		"
		425.8 - 429.0:	Mafic flow.		20950	1345.0	1350.0	5.0	.075	(28 unit)	.05		"
			Coarse grained, olive green, biotite rich.		20951	1350.0	1355.0	5.0	.065		.10		"
			Contact at 25° to C.A.		20952	1355.0	1360.0	5.0	.02				
		429.0 - 432.0:	Mafic to intermediate flow. Contact 35°C.A.		20953	1360.0	1365.0	5.0	.015				
		432.0 - 435.0:	Intermediate		20954	1365.0	1370.0	5.0	.02				
		435.0 - 459.4:	Mafic flow. Slightly intermediate, biotite		20955	1370.0	1375.0	5.0	.01				
			rich, green - buff brown. Thin carbonate		20956	1375.0	1380.0	5.0	.005				
			and quartz veinlets and veins throughout.		20957	1380.0	1385.0	5.0	T				
			1½"/5'.		20958	1385.0	1390.0	5.0	.015				
		435.0:	Quartz vein (½") tr cpy, ½% po		20959	1390.0	1395.0	5.0	T				
		445.0:	Quartz vein (½") ½% po, tr cpy		20960	1395.0	1400.0	5.0	.01				
		449.5:	Quartz vein (½") 25° to C.A. - barren.		20961	1400.0	1405.0	5.0	T				
		459.4 - 471.0:	Intermediate flow with mafic interbedded.		20962	1405.0	1410.0	5.0	.01				
			Buff-brown -green, biotite rich.		20963	1410.0	1415.0	5.0	.005				
		459.7:	Quartz vein (½") 50% py, tr cpy. Orientated	50% py, tr cpy	20964	1415.0	1420.0	5.0	.035				
			at 25° to C.A.		20965	1420.0	1425.0	5.0	.005				
		461.9:	Quartz vein (½") 30° to C.A. 5% po, tr cpy.		20966	1425.0	1430.0	5.0	.015				
		464.0:	Stringer of cpy, minor po, along fracture	stringer of cpy	20967	1430.0	1435.0	5.0	T				
			(thin).		20968	1435.0	1440.0	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	
				20969	1410.0	1415.0	5.0	.010			
417.0	471.0	CONTD.		20970	1415.0	1420.0	5.0	.005			
		464.6: Quartz vein/carbonate vein, ($\frac{1}{2}$") 15° to C.A. 30% po, $\frac{1}{8}$% cpy, py	30% po, $\frac{1}{2}$% cpy, py	20971	1420.0	1425.0	5.0	.010			
				20972	1425.0	1430.0	5.0	.035			
		465.9: Quartz vein (3/4") 70° to C.A. $\frac{1}{4}$% cpy, 1%po	1% po, $\frac{1}{4}$% cpy	20973	1430.0	1435.0	5.0	.010			
		466.8: Quartz vein ($\frac{1}{4}$") 10% po, $\frac{1}{4}$% cpy	10% po, $\frac{1}{4}$% cpy	20974	1435.0	1440.0	5.0	.005			
		467.0 - 471.0: Quartz vein (series) 60% po, $\frac{1}{4}$% cpy, py	60% po, $\frac{1}{4}$% cpy, py	20975	1440.0	1445.0	5.0	.048		V.G.	w/core
				20976	1445.0	1450.0	5.0	.015			
471.0	519.0	MAFIC FLOW		20977	1450.0	1455.0	5.0	.015			
		Darkish green, brown. Medium grained. Very biotite rich, Minor diss.		20978	1455.0	1460.0	5.0	.010			
		po carbonate along thin fractures at 20° to C.A.		20979	1460.0	1465.0	5.0	.005			
		476.6: Quartz/carbonate vein ($\frac{1}{4}$") 60° to C.A. barren.		20980	1465.0	1470.0	5.0	.06			
				20981	1470.0	1475.0	5.0	.015			
		486.6: Quartz vein and pods of quartz - barren.		20982	1475.0	1480.0	5.0	.010			
		490.9: Quartz vein (1") 25° to C.A. 10% po		20983	1480.0	1485.0	5.0	.005			
		505.6: Quartz vein ($\frac{1}{2}$") 45° to C.A. minor po, Large speck V.G.	V.G. 1 speck	20984	1485.0	1490.0	5.0	.005			
				20985	1490.0	1495.0	5.0	.005			
		514.3: Quartz vein (2") 30° to C.A. Minor sulfides.		20986	1495.0	1500.0	5.0	T			
				20987	1500.0	1505.0	5.0	.015			
519.0	536.0	INTERMEDIATE AND MAFIC FLOWS		20988	1505.0	1510.0	5.0				
		Intermediate to mafic flows. Mixed composition. Buff brown to green		20989	1510.0	1515.0	5.0				
		Coarse, medium grained, carbonate rich.		20990	1515.0	1520.5	5.5				
		519.0 - 530.0: Intermediate - mafic flow. buff brown, Inclusions ($\frac{1}{2}$"-1") of mafics.									
		530.0 - 536.0: Intermediate flow. Brown coarse grained biotite rich, slightly foliated, $\frac{1}{4}$% cpy, py.									
		535.8: Quartz vein ($\frac{1}{2}$") 15° to C.A. 30% po, 5% py tr cpy	30% po, 5% py, tr cpy								
				NOTE:							
536.0	1021.0	MAFIC LAVA FLOW		*9730 = 2$\frac{1}{2}$ Ground core therefore length of sample is 5.0'.							
		Dark green, medium grained, slightly amphibolised. very, very massive									
		Biotite rich, quartz/carbonate veins - $\frac{1}{2}$"/5'.									
		536.0 - 693.5: Mafic flow									
		558.6: Quartz vein ($\frac{1}{2}$") 70° to C.A. - barren.									
		563.7: Quartz vein (1.0') 45° to C.A. tr po, py cpy									
		568.1: Quartz vein, (1") 45° to C.A. tr po									
		577.4: Quartz vein ($\frac{1}{2}$") 25° to C.A. 1% po									
		579.1: Quartz vein ($\frac{1}{2}$") 20° to C.A. minor sulfides.									
		582.0: Quartz vein (1") 40° to C.A. minor sulfides	5% po, 2% cpy, 1% py								
		585.0: Quartz vein ($\frac{1}{2}$") 15° to C.A. 1% py, 5% po, 2% cpy.									
		591.3: Quartz/carbonate - 50° to C.A. 30% po, biotite rich.									
		600.6: Quartz/carbonate vein (2") 45° to C.A., 15% 15% po, 2% py. V.G. (possible speck)	15% po, 2% py, V.G. ?								
		603.0: Mafic flow contact 35° to C.A.									
		607.4: Quartz vein ($\frac{1}{2}$"), 80° to C.A. - barren									
		609.2: Quartz/carbonate vein ($\frac{1}{2}$") 40% po, 10% py									
		622.4: Quartz vein ($\frac{1}{2}$") 20° to C.A., 1% po									
		625.2: Quartz vein ($\frac{1}{4}$") 40° to C.A. tr cpy, po. Foliation of flow at 631' is 30° to C.A.									
		Quartz vein < $\frac{1}{2}$" /5'.									

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
536.0	1021.0	CONTD,						
		651.8: Quartz vein (¼"), minor carb. py, cpy, 1%po						
		653.7: Quartz vein (3/4") 70° to C.A. - barren						
		687.6: Carbonate/quartz filling, along fracture (20° to C.A.) 15% po, ½% cpy, py						
		693.5 - 698.0: Mafic flow. Light green, coarser grained 20° to C.A. Contact.						
		698.0 - 940.5: Mafic flow. Dark green, medium grained. Vague contact with above flow.						
		698.1: Quartz vein (.7' along C.A.), 0° - C.A. Biotite alteration surrounds vein, 3% po, 1½% py, cpy.	3% po, 1½% py, cpy					
		702.6: Quartz vein (2") 45° to C.A. tr sulfides						
		706.9: Quartz vein (3/4") 25° to C.A. 1% po, tr cpy						
		780.7: Quartz vein (¼") 20° to C.A. - barren						
		783.5: Quartz vein (3/4") 10% po, 2% py, tr cpy						
		793.6: Quartz vein (5½") 80° to C.A. barren.						
		807.0: Quartz vein (807.0 - 809.6 along axis) 2% po, 1% cpy						
		842.2: Quartz vein, (1.6' along axis) 15° to C.A. Mixed in with mafics. 2% po, tr cpy, py.						
		842.7: Flake (1/10") of C.V.G.	V.G. (flake) 1/10"					
		847.3: Quartz vein (1") 35° to C.A. ½% py, po, cpy						
		867.8: Quartz vein (½") 60° to C.A. - barren						
		880.2: Quartz vein (½") - 30° to C.A. - 2% po.tr py						
		883.4: Quartz vein (¼") 60° to C.A. 2% py, tr cpy						
		905.6: Quartz vein (1") 20° to C.A., 1% po, py, tr cpy						
		907.1: Quartz vein (3") 40° to C.A. 3% po, 1% py						
		911.0 - 912.0: tiny carbonate needles present.						
		927.0: Quartz vein (½") 35° to C.A. 40% py						
		929.5: Quartz vein (3/4") 60° to C.A. 10% po, 1% py tr cpy						
		933.3: Quartz vein, (½") 35° to C.A. ½% po, cpy						
		936.5: Quartz vein, (1¼") 50° to C.A. 1% po, 4 specks of V.G.	V.G. (4 specks)					
		938.0: Quartz vein (2") 50° to C.A. 10% po						
		938.2: Quartz vein (¼") 50° to C.A. 2% po, cpy, 1%py						
		940.5 - 945.0: Mafic flow. Biotite rich, coarse grained. Slightly fractured with biotite in filling near the top of the flow.						
		945.0 - 972.2: Mafic flow. Dark green, fine grained, massive. Minor quartz veining - ½"/5'.						
		961.9: Quartz vein (½") 45° to C.A. 1% po, tr cpy.						
		972.2 - 1021.0: Mafic flow. Green, medium fine grained. Slightly foliated at 40o Amphibolised, less so at depth. Diss. carbonate blebs observed from 991 along with several narrow carbonate veinlets at 1000. po assoc. with the veinlets.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
536.0	1021.0	CONTD.						
		972.2 - 1021.0: CONTD.						
		978.6: Quartz vein (1") 60° to C.A. 1% po. tr cpy						
		991.0: Quartz vein (4") 40° to C.A. 2% po. tr cpy						
		1000.8: Quartz vein (1") 50° to C.A. 60% po. 2% cpy	60% po. 2% cpy					
		1002.5: Quartz vein (3/4") 20° to C.A. 2% po. py						
		1014.5 - 1016.7: Mafic dike. Coarse grained, green and white in colour. Feldspar/quartz rich. Sharp contacts at 60°.						
1021.0	1032.6	INTERMEDIATE LAVA FLOW						
		Brownish-green in colour, slightly mafic in composition - fine -medium grained. Contact with above mafic flow : irregular. Biotite rich.						
		1021.2: Quartz vein (2") 45° to C.A. 2% po. py ½% cpy	2% po. py. ½% cpy					
		1021.7: Quartz vein (1") 60° to C.A. tr sulfides						
		1024.2: Quartz vein (2") 60° to C.A. Minor po. py cpy						
		1031 - 1032.4: Intermediate dike. Grey, medium - coarse grained, biotited rich, foliated at 40° C.A.						
		Contact of dike is at 40° to C.A. underlying the dike is a quartz vein (2"), 50° to C.A. Contains 1% po, ½% py, tr cpy.						
1032.6	1209.6	MAFIC LAVA FLOW - BIOTITE RICH						
		Medium, coarse grained, buff brown - green. Minor diss. po. Slightly pitted surface texture. Several high concentrations of V.G. in a couple of quartz veins carbonate rich.						
		1032.6 - 1043.3: Mafic flow. Contact at 45° to C.A.						
		1035.5: Quartz vein (1") 2% po. py, tr cpy						
		1039.8: Quartz vein (9") 50° to C.A. tr sulfides. High biotite alteration along margins						
		1043.3 - 1046.0: Felsic tuff. Biotite concentrations present.						
		Brownish - violet in colour, Medium - fine grained. Contact at 60°. Bedding at 50°C.A.						
		1% diss. po and py, tr cpy.						
		1046.0 - 1054.7: Mafic - intermediate flow. Extremely biotite rich. Brown - green in colour. Mixed						
		with intermediate diss. 2% py, po and cpy ½%.						
		Foliation at 35° to C.A. quartz vein - 1½"/5'.						
		1054.7 - 1188.0: Mafic flow.						
		Gradational contact with above flow. Pitted surface very biotite rich. Considerable CO_3 throughout. Quartz vein - 1½"/5'. Slightly foliated at 70° to C.A.						
		1069.8: Quartz vein (1") tr po. py. cpy						
		1076.0: Quartz vein (5") 60° to C.A. 1% po. tr cpy						
		1109.6: Quartz vein (1") 50° to C.A. Thin stringer of cpy just above vein. Minor sulfides within it. 5 large specks V.G. present.	V.G. 5 specks					
		1122.8: Quartz vein (series of quartz vein 10"): 45° C.A. 3% cpy. 7% po. 1 speck V.G. at 1122.9.	3% cpy. 7% po. V.G. 1					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1032.6	1209.6	CONTD.						
		1123.2: Quartz vein (1") the vein is saturated with V.G. (>50 specks and flakes) some of the flakes range in size up 1/10". The flow beneath the above vein is massive with quartz vein - 1"/5'. Slightly amphibolised. Foliation at 1157' - 40°.	A qtz. vein (1" across) saturated with V.G. (flks. in size upto1/10")					
		1158.7: Quartz vein (8") 45° to C.A. - barren	2% po, cpy.					
		1164.5: Quartz vein (1") 40° to C.A. - 2% po, cpy	V.G. 3 specks					
		1173.5: Quartz vein (9½") 60° to C.A. - top 5" only tr sulfides, lower half: 2% po, py and 3 specks V.G.						
		1175.5: Quartz vein (7") 50° to C.A., 2% po, 1% cpy. A number of large veins (quartz)(>5") appear to have similar charac. The upper ⅓-2/3 of the vein is virtually barren with only minor sulfides. The lower 1/3 - ½ is intermixed with mafics and contains upto 10% po, and 3% cpy. Minor py. V.G. is also sometimes present (i.e. 1173.5).						
		1188.0 - 1191.0: Mafic tuff. Considerable quartz vein - 7 veins (average ¼") Very rich in biotite. Bedding at - 60° 2% po, ¼-⅓% cpy.						
		1191.0 - 1206.2: Mafic flow Dark green, slightly amphibolised. Contact with above unit at 50° to C.A. Biotite rich especially in the upper part of the unit.						
		1206.2 - 1209.6: Mafic flow - sharp contact with above at 50° to C.A.						
1209.6	1216.7	FELSIC TUFF						
		Grey, bedded at 80° to C.A. - 3"/5' quartz vein - only tr sulfides present in quartz vein. The orientation of the quartz vein - at 80° to C.A. (same as bedding). Slightly magnetic. Minor diss. po and cpy throughout.						
1216.7	1289.8	MAFIC FLOWS						
		Biotite rich green - buff, brown. Medium grained, slightly foliated and pitted.						
		1216.7 - 1244.8: Mafic flow. Sharp contact at 50°. Foliated at 50° to C.A.						
		1218.0 - Quartz vein (2") 70° to C.A., tr sulfides.						
		1220.9: Quartz vein (¼") 70° to C.A. 3 specks V.G. Cpy and py diss. with the mafic for an inch beneath the quartz vein.	V.G. 3 specks					
		1222.8: Quartz vein (1/8") 25° to C.A. 10% po, 5%cpy Quartz veining within the flow - 1½"/5', orientated at 70° to C.A. 10% po, 2% py, cpy.						
		1244.8 -1245.5: Felsic dike. Grey, biotite rich, foliated at 60°. Dike truncates a quartz vein. Contact a q.v. Contact with flows at 60° to C.A.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1216.7	1289.8	CONTD.						
		1245.5 - 1263.0: Mafic flow. Tr diss. po, cpy.						
		1261.0: Quartz vein (2½") 30° to C.A. tr sulfides.						
		1263.0 - 1263.8: Felsic Dike. Biotite rich, grey. Contact with mafics at 50° to C.A. Dike has intruded the mafics, more in form of infilling along fractures.						
		1263.0 - 1289.8: Mafic flow. Fine grained, green. Contact with above flow at 50° to C.A. ¼% cpy. ¼% py ½% po throughout flow, princpally in fractures.	¼% cpy, ¼% py, ½% po					
		1269.2: Quartz vein (1") 60° to C.A., tr sulfides						
		1275.2: Quartz vein (2") 60° to C.A., tr sulfides						
		1278.1: Quartz vein (¼") 50° to C.A. 10% po, ½% cpy tr py.						
		1284.4: Quartz vein (2") tr sulfides, 1 speck V.G. Good biotite alteration alongside.	V.G. 1 speck					
		1284.8: Quartz vein (18") 60° to C.A., tr sulfides along sides, barren elsewhere.						
1289.8	1294.4	FELSIC FLOW						
		Grey, hard, fine grained, sharp contact with above flow at 60° to C.A. Small feldspar phenocrysts present. Quartz vein 2"/5', only minor sulfides associated.						
		1290.4 - 1290.9: Mafic flow, contact with felsic flow beneath at 50° to C.A.						
1294.4	1316.5	MAFIC LAVA FLOW						
		Dark green - greyish green. Contains thin flakes of biotite at - 80° C.A. (foliated 1% po, py, tr cpy. Quartz vein - 2"/5'.						
		1302.2: Quartz vein (3") 40° to C.A. with tr sulfides						
1316.5	1333.7	INTERMEDIATE LAVA FLOW						
		Buff brown, mixed with minor mafics. Fine grained. Considerable po and py diss. throughout (2% py, po, ½% cpy) Quartz vein 2"/5'	2% po, py, ½% cpy					
		1317.4: Quartz vein (3") 60° to C.A., 5% py, po						
		1327.6: Quartz vein (4") 45° to C.A. 2% py, po, Minor cpy.						
1333.7	1338.8	CHERT						
		Smoky grey in colour, very hard, very fine grained, 1% diss. po, py and cpy (total) - 3½"/5' quartz veins, minor sulfides associated.						
		V.G. found within the chert	V.G. 2 specks					
		1337.6 - V.G. 1 large speck						
		1338.3: V.G. 1 speck.						
[illegible]8	1394.2	CHLORITE ALTERATION ZONE						
		Green, medium grained. Biotite rich in places. Appears to be chloritized mafic becoming more chloritic with depth. Minor q.v. - ½"/5'. Minor sulfides. Virtually no q.v. below 1360'. Slightly magnetic. 60° to C.A. Still chlorite beneath. Minor actinolite needles present.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1394.2	1399.4	CHERT Grey, very hard, foliated at 60°, contact is irregular and at 30°. Sharp lower contact at 30° to C.A. Tr sulfides - po, py and found elongated along foliation. No quartz vein.						
1399.4	1403.0	CHLORITE ALTERATION ZONE Similar to above chlorite zone except that it is here. Magnetic and has a composition slightly more ultramafic. Predominantly it is chloritic. Contact with underlying ultramafics is very gradational.						
1403.0	1501.2	TALC - CARBONATE SERPENTINIZED ZONE Greyish green in colour, very soft. Magnetic. Minor quartz vein - no sulfides. Foliated at 60° to C.A. Below 1442'. Schistosity well developed and at 30° to C.A. Carbonate veining (¼" average in width) ½"/5'. Only tr py present. 1461.0: Quartz/carbonate vein (½") 20° to C.A. Tr cpy, ½% po, and py. Minor fracturing present. Beneath 1455' tr py diss. throughout. 1465.0: Quartz vein (9") 80° to C.A. tr sulfides 1470.1: Quartz vein (18"), intermixed with mafics ½% cpy, 1% po, py. 1470.2: V.G. (1 speck) In the lower 5' of the unit large (1/8") diss. py present.	V.G. (1 speck)					
1501.2	1509.3	FELSIC TUFF Buff brown to grey, very hard, bedding at 60° to C.A. contact with above. From 1506.8 - 1507.9 the tuff is fractured and infilled by chlorite (or carbonate).						
1509.3	1514.1	TALC - CARBONATE SERPENTINIZED ZONE Similar to above talc/carbonate unit. Foliated at 45°. Slightly chloritic Only slightly - mod. magnetic, ½% diss. py.						
1514.1	1551.0	MIXED ZONE - FELSIC TUFF - TALC/CARBONATE Thin units of felsic/intermediate tuff and talc - carbonate zone. The felsic tuff is fractured and brecciated. Minor quartz vein or mineralization. 1514.1 - 1514.2: Intermediate tuff 1514.2 - 1514.45: Felsic tuff. Chloritic and biotite alteration Along both contacts. Sharp contact 75° to C.A. (lower contact). 1514.45 - 1514.7: Chloritic/Biotite alteration zone 1514.7 - 1515.2: Intermediate tuff - brown, 1% diss. py Bedded at 60° to C.A. 1515.2 - 1517.0: Talc/carbonate zone. 1517.0 - 1519.2: Brecciated felsic tuff, slightly foliated at 45° to C.A. Brecciated and fractured. Chloritic matrix along sulfides, only 1 (½") q.v. present - barren. 1519.7 - 1525.7: Talc/carbonate zone. Intermixed with black chlorite.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1514.1	1551.0	CONTD.						
		1525.7 - 1533.5: Felsic tuff and chert. The chert lies between 1529.6 - 1532.0 - it grades above and below into the felsic unit. Highly fractured and brecciated, infilled by chlorite. Minor quartz vein, lack of sulfides. The chert unit is infilled by chlorite and quartz. It has a whitish (grey) to orange color.						
		1533.5 - 1543.5: Talc/carbonate zone. Contact with above felsic at 55° to C.A. Rich in quartz on the top two feet. Schistosity at 80° to C.A. Tr py, po diss. throughout - ½%.						
		1537.7: Quartz vein (1') mixed carbonate and chlorite, tr py.						
		1543.1: Quartz vein (4") mixed with carbonate and chlorite, 1% cpy, 1% py, 1% po.						
		1543.5 - 1544.5: Intermediate tuff, grey bedded at 60°. Contact at 75° with mafics below.						
		1544.5 - 1545.0: Mafic tuff.						
		1545.0 - 1551.0: Talc/carbonate zone. 1% diss. pyrite.						
	1555.0	END OF HOLE						

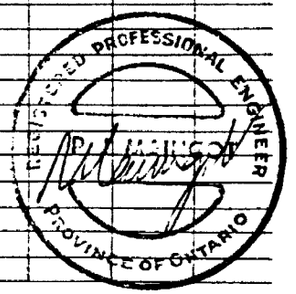
TROPARI	DIP.	AZ.
300'	60°	165°
700'	60°	169°
1050'	59°	168°

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

						DIP TEST					
PROPERTY	DETOUR LAKE	LATITUDE	205+ 00 NORTH	STARTED	September 14th, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	38 - 84	DEPARTURE	190+ 00 EAST	FINISHED	September 25th, 1975	200'	61½°	800'	59°		
BEARING	180°	ELEVATION		LENGTH	1382 FEET	400'	58°	1000'	59°		
DIP-COLLAR	- 60°	SECTION		LOGGED BY	A. Jackson, P. Brown	600'	58°	1200'	59°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	70.0	CASING	
70.0	101.0	MAFIC FLOWS (1a)	
		Fine grained, dark green, massive. No quartz vein or quartz -carb.	
101.0	198.0	INTERMEDIATE FLOW (2a)	
		Medium grey brown, fine grained, several slightly chloritic or mafic sections throughout giving a mixed appearance, occ. short 1-2' sections	
		appear int. felsic. Foliation developed 30° - 40°.	1-2% po, tr py, cpy
		1-2% po, tr py and cpy throughout in stringers and blebs.	
		150.0 - 160.0: Mainly mafic	
		168.0 - 178.0: Mafic flow	
		179.0 - 179.6: Quartz vein, po and cpy	
198.0	267.7	MAFIC FLOW (1a)	
		Fine grained dark green, slightly biotitic, foliation at 50° to C.A.	
		Numerous dark grey quartz carbonate veins usually with po and occ. tr cpy. Minor quartz veins.	
		1-2% po, tr py and cpy in blebs and quartz-carbonate veins.	
		222.0 - 222.5: 6" quartz vein - barren	
		231.5 - 231.8: 3" quartz vein - barren.	
267.7	306.0	FINE GRAINED GRAYISH BROWN INTERMEDIATE FLOW (2a)	
		With a few short more mafic sections, which at times appear slightly	
		tuffaceous with fragments usually < 1mm.	
		Abundant biotite phlogopite alteration.	
		Quartz veining is usually 4"-5'5'. The sulfides consist of po and py	
		with tr cpy. Foliation about 45° to C.A.	
		267.0 - 306.0:	2% po, py combined
		267.7 - 281.0: Intermediate flow	
		281.0 - 289.0: Int. to mafic flow	
		289.0 - 289.6: Quartz vein, minor po	
		289.6 - 306.0: Intermediate flow	
		398.2 - 399.2: Quartz vein with po and py and minor cpy about ½% over the 1'.	
		300.0: ½" lens of po and a few specks of cpy.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.
9370	100.0	105.0	5.0	N		
9371	105.0	110.0	5.0	.02		
9372	110.0	115.0	5.0	.02		
9373	115.0	120.0	5.0	T		
9374	120.0	125.0	5.0	.01		
9375	125.0	130.0	5.0	.03		
9376	130.0	135.0	5.0	.02		
9377	135.0	140.0	5.0	T		
9378	140.0	145.0	5.0	.03		
9379	145.0	150.0	5.0	.02		
9380	150.0	155.0	5.0	.02		
9381	155.0	160.0	5.0	.01		
9382	160.0	165.0	5.0	.01		
9383	165.0	170.0	5.0	.01		
9384	170.0	175.0	5.0	T		
9385	175.0	180.0	5.0	.02		
9386	180.0	185.0	5.0	.01		
9387	185.0	190.0	5.0	.01		
9388	190.0	195.0	5.0	.01		
9389	195.0	200.0	5.0	T		
9390	200.0	205.0	5.0	.02		
9391	205.0	210.0	5.0	T		
9392	210.0	215.0	5.0	N		
9393	215.0	220.0	5.0	N		
9394	220.0	225.0	5.0	N		
9395	225.0	230.0	5.0	T		
9396	230.0	235.0	5.0	.01		
9397	235.0	240.0	5.0	T		
9398	240.0	245.0	5.0	T		
9399	245.0	250.0	5.0	T		
9400	250.0	255.0	5.0	T		
9401	255.0	260.0	5.0	N		
9402	260.0	265.0	5.0	.01		
9403	265.0	270.0	5.0	.02		
9404	270.0	275.0	5.0	.01		
9405	275.0	280.0	5.0	T		
9406	280.0	285.0	5.0	T		
9407	285.0	290.0	5.0	T		
9408	290.0	295.0	5.0	T		
9409	295.0	300.0	5.0	.06		



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
306.0	337.0	FINE GRAINED BROWNISH GREEN INTERMEDIATE TO MAFIC FLOW (2a-1a) Foliation changes from 40° to C.A. at 333.0' to 20° to C.A. 336.0'. Bi - phlogopite and chlorite alteration are present throughout this section but chlorite predominates in the more mafic sections. 328.0 - 328.5: Quartz vein barren except for a few specks of cpy. The abundance of quartz veins has decreased in this section as well as the amount of mineralization.	
337.0	433.0	FINE GRAINED DARK GREEN MASSIVE MAFIC FLOW (1a) There are also a few short intermediate to felsic sections which appear to be dykes. One occurs at 383.5 - 385.0: and the other one occurs at405.0 - 406.0: The upper contacts of these units are about 45° to C.A. The mafic flow is fine to medium grained and quite chloritic as well as having abundant streaky quartz carbonate blebs and veinlets. Bi-phlogopite alteration is light to nil throughout. Quartz veins larger than $\frac{1}{4}$"are very minor and when present are usually barren. Quartz veining not greater than 1"/5'. Bedding is about 40°-45° to C.A. Foliation varies but generally is as a low angle to the C.A. Mineralization is practically nil.	
433.0	700.0	FINE GRAINED DARK GREYISH GREEN MASSIVE MAFIC FLOW 434.5 - 445.0: The rock looks tuffy and is very highly chloritic. Foliation varies but is usually at a low angle to the C.A., between 20-30°. Except for a few short sections there is an abundance of carbonate blebs and streaks from 433.0 - 700.0. Quartz veining is just about non-existant and consists of about 1"-2"/10'. 3 larger than normal quartz veins occur at 463.5 - 463.7; 463.9 - 464.0; and 469.3 - 469.6. The two upperr quartz veins are barren while the lower one has minor po and py with tr cpy. 474.0: Foliation is about 20° to C.A. 482.0 - 484.0: Discontinuous and irregular quartz veins running parallel to the C.A. and is about $\frac{1}{2}$" wide. The only mineralization present in this vein is minor po and py. 493.5: 1mm lens of cpy in a very thin quartz vein. 499.3: 1" quartz vein barren. 507.4 - 507.7: $3\frac{1}{2}$" quartz vein with a few specksof py. 538.0 - 538.5 and 539.2 - 540.0: Two irregular and discontinuous quartz veins that contain about 10% po, py combined and $\frac{1}{2}$-1% cpy. 566.0: $\frac{1}{2}$" quartz vein barren. 606.0: 1" quartz vein with about $\frac{1}{4}$ filled with po and a few grains of py. 623.6 - 624.2: 8" quartz vein - barren.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	Au.	Ag.	Cu.		
9410	300.0	305.0	5.0	.06				
9411	305.0	310.0	5.0	.01				
9412	310.0	315.0	5.0	T				
9413	315.0	320.0	5.0	T				
9414	320.0	325.0	5.0	T				
9415	325.0	330.0	5.0	T				
9416	330.0	335.0	5.0	T				
9417	335.0	340.0	5.0	T				
9418	340.0	345.0	5.0	.01				
9419	345.0	350.0	5.0	.02				
9420	350.0	355.0	5.0	.02				
9421	355.0	360.0	5.0	.09				
9422	535.0	540.0	5.0	.115				
9423	540.0	545.0	5.0	.010				
9424	605.0	610.0	5.0	.040				
9425	665.0	670.0	5.0	T		.02		
9426	670.0	675.0	5.0	.14		.13		
9427	680.0	685.0	5.0	.010		.06		
9428	715.0	720.0	5.0	.015		.15		
9429	720.0	725.0	5.0	T				
9430	725.0	730.0	5.0	T		.01		
9431	800.0	805.0	5.0	T		.01		
9432	805.0	810.0	5.0	T		.02		
9433	825.0	830.0	5.0	T		.06		
9434	830.0	835.0	5.0	T		.02		
9435	900.0	905.0	5.0	T		.01		
9436	905.0	910.0	5.0	T		.05		
9437	910.0	915.0	5.0	.05				
9438	915.0	920.0	5.0	.025				
9439	920.0	925.0	5.0	.040				
9440	925.0	930.0	5.0	T				
9441	930.0	935.0	5.0	T				
9442	935.0	940.0	5.0	T				
9443	940.0	945.0	5.0	T				
9444	945.0	950.0	5.0	T				
9445	950.0	955.0	5.0	T				
9446	955.0	960.0	5.0	.030				
9447	960.0	965.0	5.0	.035				
9448	965.0	970.0	5.0	.010				
9449	970.0	975.0	5.0	.020				
9450	975.0	980.0	5.0	.020		.11		w/core
9451	980.0	985.0	5.0	.035		.13		"
9452	985.0	990.0	5.0	.069		.17	V.G.	"
9453	990.0	995.0	5.0	.035		.18		"
9454	995.0	1000.0	5.0	.015		.07		"
9455	1000.0	1005.0	5.0	.005				
9456	1005.0	1010.0	5.0	.040				
9457	1010.0	1015.0	5.0	.015				
9458	1015.0	1020.0	5.0	.020				
9459	1020.0	1025.0	5.0	.84				
9460	1025.0	1030.0	5.0	T				
9461	1030.0	1035.0	5.0	.030				
9462	1035.0	1040.0	5.0	.020				
9463	1040.0	1045.0	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.	Ag.	Cu.		
				9464	1045.0	1050.0	5.0	.030				
433.0	700.0	CONTD.		9465	1050.0	1055.0	5.0	T				
		654.0: 3/4" quartz vein barren.		9466	1055.0	1060.0	5.0	.065		.08	V.G.	w/core
		670.0 - 671.0: 1' that contains several irregular quartz veins with about 5% po and 2% cpy over the one foot.		9467	1060.0	1065.0	5.0	.010				
				9468	1065.0	1070.0	5.0	.020				
				9469	1070.0	1075.0	5.0	T				
		682.0: 1" quartz vein with po and minor cpy		9470	1075.0	1080.0	5.0	T				
		683.0: Foliation 40° to C.A.		9471	1080.0	1085.0	5.0	30				
				9472	1085.0	1090.0	5.0	.03				
700.0	896.0	CONTINUATION OF THE DARK GREEN MASSIVE MAFIC FLOW (1a)		9473	1090.0	1095.0	5.0	.05	.09			
		The rocks are usually fine grained, however, in places they may be medium grained. There are also a few short 1'-2' usually fine to medium grained mafic tuff sections as well as several short sections of completely chlorite altered rock. Chlorite alteration is moderately developed throughout.		9474	1095.0	1100.0	5.0	.02	30'	.11		
				9475	1100.0	1105.0	5.0	.095		.46		
				9476	1105.0	1110.0	5.0	.055		.15		
				9477	1110.0	1115.0	5.0	.010				
				9478	1115.0	1120.0	5.0	.020				
		Foliation is not very well developed everywhere however, it is still about 40° to C.A.		9479	1120.0	1125.0	5.0	.07				
				9480	1125.0	1130.0	5.0	.020		.12		
		700.0 - 728.0: Mafic flow		9481	1130.0	1135.0	5.0	T		.09		
		728.0 - 729.0: Mafic tuff		9482	1135.0	1140.0	5.0	T		.42		
		729.0 - 760.0: Mafic flow		9483	1140.0	1145.0	5.0	.005				
		760.0 - 761.0: Mafic tuff		9484	1145.0	1150.0	5.0	.080				
		761.0 - 770.0: Mafic flow		9485	1150.0	1155.0	5.0	.412		.12	V.G.	w/core
		770.0 - 773.0: Chlorite alteration		9486	1155.0	1160.0	5.0	.035				
		773.0 - 776.0: Mafic flow		9487	1160.0	1165.0	5.0	.06		.11		"
		776.0 - 781.0: Chlorite alteration		9488	1165.0	1170.0	5.0	.301		.26		"
		781.0 - 795.0: Mafic tuff and chlorite alteration mainly		9489	1170.0	1175.0	5.0	.093		.25	V.G.	"
		795.0 - 795.4: Chlorite alteration		9490	1175.0	1180.0	5.0	.03		.33		"
		795.4 - 817.0: Mafic flow		9491	1180.0	1185.0	5.0	.453	.180	.33		"
		817.0 - 818.0: Chlorite alteration		9492	1185.0	1190.0	5.0	.06	.06	.22	.26	"
		818.0 - 819.0: Chlorite alteration		9493	1190.0	1195.0	5.0	.02		.24	65'	"
		819.0 - 854.0: Mafic flow		9494	1195.0	1200.0	5.0	.084		.18		"
		854.0 - 855.0: Chlorite alteration		9495	1200.0	1205.0	5.0	.086		.40		"
		855.0 - 874.6: Mafic flow		9496	1205.0	1210.0	5.0	.531		.41	V.G.	"
		874.6 - 876.6: Mafic tuff		9497	1210.0	1215.0	5.0	.040		.43		"
		876.6 - 893.0: Mafic flow		9498	1215.0	1220.0	5.0	T				
		893.0 - 894.2: Mafic tuff		9499	1220.0	1225.0	5.0	.040				
		894.2 - 896.0: Mafic flow.		9500	1225.0	1230.0	5.0	.055				
		Quartz veins are extremely scarce, not more than 1"-2"/10' and most of these are barren. 2-3 small quartz veins contain some mineralization such as 3/4" one at 721.0 which has po and minor cpy.		9501	1230.0	1235.0	5.0	.015				
				9502	1235.0	1240.0	5.0	.015				
				9503	1240.0	1245.0	5.0	.040				
		827.0: 2" bed of 80% po.		9504	1245.0	1250.0	5.0	.010				
				9505	1250.0	1255.0	5.0	.010				
896.0	931.0	FINE TO SLIGHTLY MEDIUM GRAINED MASSIVE DARK GREEN MAFIC FLOW (1a)		9506	1255.0	1260.0	5.0	.005				
				9507	1260.0	1265.0	5.0	.015				
		Foliation about 35° to C.A. Between 907 and 913 the unit is a fine grained mafic tuff. There are several short < 1' sections of almost completely chlorite alteration. Quartz veining has increased to about 2-3"/5'. There are also numerous quartz carbonate veinlets as well as minute carbonate blebs.		9508	1265.0	1270.0	5.0	.02				
				9509	1270.0	1275.0	5.0	.045				
		Mineralization consist of po in quartz veins and as stringer ore, minor cpy in quartz vein and in places as stringer ore as well.										
		896.0 - 931.0:	3% po, minor cpy									
		Large quartz vein occurs at 911.2 - 911.9; 20% filled with po.										

(cont'd. next page ---,)

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
				9510	1275.0	1280.0	5.0	.32		
931.0	941.0	CHLORITE ALTERATION ZONE (5'		9511	1280.0	1285.0	5.0	.08		
		Fine grained and light greyish-green in colour. The original rock was		9512	1285.0	1290.0	5.0	.11		
		most likely a mafic flow. Bi-alteration has increased somewhat in this		9513	1290.0	1295.0	5.0	.13	.237	
		section.		9514	1295.0	1300.0	5.0	.09	35'	.198
		Minor quartz-carbonate veining and minor diss. sulfides.		9515	1300.0	1305.0	5.0	.63		45'
				9516	1305.0	1310.0	5.0	.30		
941.0	941.7	941.0': 8" quartz vein - barren.		9517	1310.0	1315.0	5.0	.035		
				9518	1315.0	1320.0	5.0	.09		
941.7	952.0	Fine grained intermediate mafic grayish green tuff. Possible bedding		9519	1320.0	1325.0	5.0	.02		
		45° to C.A.		9520	1325.0	1330.0	5.0	T		
		Two barren quartz veins at 942.7 and 944.0:								
		Mineralization consist of minor diss. py and po.								
952.0	956.0	Medium grained dark green amphibolitized mafic flow (1a)								
956.0	968.0	MEDIUM TO COARSE GRAINED DARK GREY MAFIC FLOW (1a)								
		This unit has abundant carbonate in the form of blebs, pods and as								
		veinlets.								
		Foliation is about 45° to C.A.								
		Numerous $\frac{1}{4}$"-$\frac{1}{8}$" blebs of chlorite alteration. One $2\frac{1}{2}$" quartz vein at								
		967.0 barren.								
		Mineralization consist of diss. po and py as well as tr cpy.								
968.0	981.0	CONTINUATION OF MEDIUM GRAINED DARK GREEN AMPHIBOLITIZED								
		MAFIC FLOW (1a)								
		Carbonate blebs and streaks remain abundant throughout this unit.								
		Two quartz veins with minor po and cpy, one occurs at 994.6' 5" vein								
		the other as 995.5 and is $2\frac{1}{2}$" wide.								
981.0	996.0	SECTION OF MIXED MAFIC FLOW AND TUFF' MAINLY FLOW (1a-1c)								
		This section has about 15% po and py about 90% of this is po, $\frac{1}{2}$-1% cpy	15% po, py, $\frac{1}{2}$-1% cpy							
		and 1 V.G. at 986.7.	V.G. 986.7.							
		Po, py and cpy occur both as vein material and as stringer ore, however,								
		most of the cpy occurs as vein material.								
		4"-5" of quartz-carbonate per 5'.								
		Foliation about 40o to C.A.								
		Most of the quartz veins have fragments of the mafic rock enclosed								
		within them.								
996.0	1067.0	CONTINUATION OF DARK GREEN MAFIC FLOW (1a								
		Mostly fine grained but has a few medium grained sections.								
		Mod. chlorite alteration and diss. po throughout.								
		Tr cpy in several places, mainly associated with quartz veins.								
		Quartz veining about 1"-2" per 5'. Mod. quartz carbonate veinlets								
		and some carbonate as small blebs throughout. Foliation about 35° C.A.								
		Quartz veins at 1048.4 - 1048.7 Minor po and tr cpy.								
		V.G. 1058 - 1058.3, 2-3 specks in quartz vein.	V.G. 2-3 specks.							
		1050.0: Foliation about 45° to C.A.								
		Chlorite alteration is very well developed. Quartz-carbonate veinlets								
		are low to mod. in abundance.								

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1067.0	1075.0	FINE GRAINED LIGHT GREY FELSIC TUFF (4c) Bedding 45° to C.A. and in places the bedding appears to be Fragments usually upto 1mm however, a few are larger. Quartz vein at 1074.6 - 1075.0, minor po.						
1075.0	1172.0	FINE TO MEDIUM GRAINED DARK GREEN MAFIC FLOW (1a) 1089.0 - 1118.0: Fine grained intermediate to mafic and mafic flow intermixed. There are several short more tuffy looking sections as well as a <1' felsic section and several short short chloritic sections. Foliation about 25°-30° to C.A. The abundance of quartz-carbonate veinlets is low throughout this section. Biotite-phlogopite alteration is common adjacent to quartz veins. Chlorite alteration is common throughout and in places the whole core has been completely altered to chlorite. 1035.0 - 1139.0:	7-10% po					
		At 1103.2 - 1103.5 a 3" section of 50% po and 10-15% cpy. At 1137.5 a 6" vein which has a $\frac{1}{2}$" lense of cpy. Cpy is found from 1085.0 - 1139.0 as small blebs and as irregular stringers filling small quartz carbonate veinlets, as well as in the larger quartz veins. Po is found in blebs throughout but has greater concentration in quartz veins. 1030.0 - 1031.5: 18" quartz vein barren. There are about 3"-5" of quartz veining per 5' interval. 1153.0: 2" quartz vein with po and tr cpy and 1 speck of V.G.	1 speck of V.G.					
1172.0	1201.0	FINE GRAINED BROWNISH GREEN INTERMEDIATE FLOW AND TUFF 1172.0 - 1177.0: 2a 1177.0 - 1186.0: 2c 1186.0 - 1201.0: 2a Foliation is about 45° to C.A. Biotite alteration is dominant throughout this section, however, chlorite is present. The intermediate flow displays typical flow features. Abundant quartz veins occur throughout this zone. 6"-8"/5'. Mineralization consist of po, py and cpy mainly concentrated in quartz veins, however, all three occur in blebs and veinlets away from the quartz veins. 1172.0 - 1212.0:	(2a + 2c 7-10% po, py, 1-1$\frac{1}{2}$% cpy					
		V.G. occur at 1172.8; 1181.6 numerous specks. 1183.0 = 1 speck. 1205.5 = 1 to 2 specks.	V.G. V.G.					
1201.0	1207.5	COMBINATION OF CHERT, CHERTY TUFF AND QUARTZ VEINING (3+3c) The chert is light grayish in color and is a very short zone and not very well bedded. This zone is mineralized the same as above. V.G. occur in this zone and is mentioned above.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1207.5	1212.0	FINE GRAINED GRAYISH TO GRAYISH GREEN INT. TO SLIGHTLY MORE FELSIC FLOW OR VERY FINE GRAINED TUFF (2a, c) Abundant biotite alteration. Foliation not well developed. Mineralization same as intermediate rocks above. The cherty unit.						
1212.0	1251.0	CHLORITE ALTERATION ZONE, WITH SOME TALC-CARBONATE AND ACTINOLITE-TREMOLITE. The chlorite alteration is light green in colour and well foliated at 45° to C.A. Quartz carbonate veining is quite low 1"/5'. The only mineralization is a few scattered pods of cpy. and some diss. po. 1221.0 - 1226.0: The rock is mainly chlorite alteration but it also contains abundant actinolite shards.						
1251.0	1255.5	FINE GRAINED LIGHT GRAYISH BROWN INT. & SLIGHTLY FELSIC TUFF (2c, 4c) No significant quartz veining or sulfide mineralization.						
1255.5	1290.0	TALC-CARBONATE AND CHLORITE ALTERATION TRANSITIONSZONE (5+6) In this section the rock feels somewhat talcy but has abundant chlorite. Minor quartz veining and minor diss. sulfides po and py tr cpy. 1284.0: ¼" lens of po 1287.5: Short 4" felsic section.						
1290.0	1319.0	DARK GREEN TALC-CARBONATE (6a) The surface of the core is pitted and has a somewhat hackly surface. Foliation about 50° C.A. There is also abundant chlorite alteration within the talc-carbonate section. Quartz carbonate veining is low and only 4 large veins occur in the whole section. 3" vein 1302.0' with minor py and cpy 1303.5: irregular 6" vein with minor po, py and cpy. 1309.6: 3" vein with minor py and cpy 1319.0: 3-4" vein with tr py. Bottom contact about 80° to C.A.						
1319.0	1381.0	FINE GRAINED LIGHT GRAY FELSIC TUFF & FLOW (4a and 4c) There are also a few intermediate sections and two cherty tuff sections. The intermediate tuff is fine grained greenish brown in colour - brown colour to abundant biotite. The cherty tuff is light greenish purple in colour and is banded at at 45° to C.A. There isn't any qtz. veining and only tr sulfides. 1319.0 - 1321.0: Intermediate tuff 1321.0 - 1327.0: Felsic tuff 1327.0 - 1328.0: Intermediate tuff 1328.0 - 1335.0: Felsic tuff 1335.0 - 1339.0: Intermediate tuff 1339.0 - 1349.5: Felsic tuff 1349.5 - 1350.5: Cherty tuff 1350.5 - 1351.5: Felsic tuff 1351.5 - 1362.0: Intermediate tuff 1362.0 - 1366.0: Felsic tuff 1366.0 - 1367.0: Cherty tuff 1367.0 - 1381.0: Felsic tuff 1381.0 = END OF HOLE						

TROPARI

	DIP.	AZ.
1200'	23°	154°
600'	31°	192°

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	205 NORTH	STARTED	September 4th, 1975	200'	45½°	800'	27°		
HOLE NO.	DLO-38-78	DEPARTURE	184 EAST	FINISHED	September 10th, 1975	400'	40½°	1000'	28½°		
BEARING	180°	ELEVATION		LENGTH	1287 FEET	600'	31½°	1200'	23½°		
DIP-COLLAR	-45o	SECTION		LOGGED BY	A. JACKSON						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	16.0	CASING	
16.0	222.5	MAFIC FLOW	
		16.0 - 34.0: Fine grained, dark grey-green, massive.	
		34.0 - 140.0: Coarse grained, amphibolitic mafic flow, very sharp upper flow contact. Rare quartz vein, but usually with po, py tr cpy.	
		41.0 - 45.0: 4 quartz veins, ¼" po, py cpy assoc.	po, cpy
		45.0 - 140.0: Very rare quartz vein, 1/15', almost all are barren.	
		140.0 - 222.5: Fine - medium grained, rare quartz vein.	
		174.0 - 180.0: Couple of narrow quartz veins with po, cpy assoc. also occ. cpy along fractures.	
		180.0 - 222.5: 1-2 quartz vein /5', usually with po, cpy assoc. 1/8" -¼" veins. Lower 1' is quartz vein, with minor po, cpy.	po, cpy in quartz vs.
222.5	369.0	INTERMEDIATE TUFF. FLOW	
		Medium brown - green, fine grained, mod. biotitic, quite well bedded 45°	
		2-3 narrow quartz veins /5', usually with po, py , tr cpy	
		222.5 - 230.0: 1-2% po, py, tr cpy	1-2% po, py, tr cpy
		224.0 - 227.0: Traces sphal. with po, minor cpy	tr sphal.
		230.0 - 285.0: INT. FLOWS - occ. narrow tuffs, mod. quartz.-carb. content in stringers and veins, 2-3% po, py, occ. tr cpy	2-3% po, py, tr cpy
		256.0 - 263.0: Mafic flow, tr py	
		285.0 - 304.0: Slight banding at 40-45°, mod. quartz-carb. throughout. 2-4% po, py, tr cpy along banding and in blebs.	2-4% po, py, tr cpy
		304.5 - 306.5: Mafic dike, mod. biotitic, 1-2% diss. py	1-2% diss. py
		306.5 - 337.0: Interbedded mafic flows and inter. tuffs, flows and 4-5' wide, tuff 1-2'. 4-5% po, py, occ. tr cpy in blebs, rare q.v.	4-5% po, py, tr cpy
		337.0 - 369.0: Intermediate flow - massive, rare quartz vein, tr py.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.
18487	41.0	46.0	5.0	.07		
18488	46.0	51.0	5.0	T		
18489	170.0	175.0	5.0	.005		
18490	175.0	180.0	5.0	T		
18491	180.0	185.0	5.0	T		
18492	185.0	190.0	5.0	T		
18493	190.0	195.0	5.0	T		
18494	195.0	200.0	5.0	.005		
18495	200.0	205.0	5.0	.09		
18496	205.0	210.0	5.0	T		
18497	210.0	215.0	5.0	T		
18498	215.0	220.0	5.0	T		
18499	220.0	225.0	5.0	.035		.15
18500	225.0	230.0	5.0	.030		.02
18501	230.0	235.0	5.0	.02		
18502	235.0	240.0	5.0	.015		
18503	240.0	245.0	5.0	.01		
18504	245.0	250.0	5.0	.045	.112	
18505	250.0	255.0	5.0	.18	10'	
18506	255.0	260.0	5.0	N		
18507	260.0	265.0	5.0	.01		
18508	265.0	270.0	5.0	.02		
18509	270.0	275.0	5.0	.03		
18510	275.0	280.0	5.0	.025		
18511	280.0	285.0	5.0	.005		
18512	285.0	290.0	5.0	.035		
18513	290.0	295.0	5.0	.02		
18514	295.0	300.0	5.0	.005		
18515	300.0	305.0	5.0	.005		
18516	305.0	310.0	5.0	.005		
18517	310.0	315.0	5.0	.01		
18518	315.0	320.0	5.0	.01		
18519	320.0	325.0	5.0	.005		
18520	325.0	330.0	5.0	.005		
18521	330.0	335.0	5.0	.01		
18522	335.0	340.0	5.0	.01		
18523	370.0	375.0	5.0	.005		
18524	375.0	380.0	5.0	.025		
18525	380.0	385.0	5.0	.005		
18526	385.0	390.0	5.0	.005		

REGISTERED PROFESSIONAL ENGINEER
P. J. MAINGOT
PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.	Ag.	Cu.		
				18527	390.0	395.0	5.0	.035				
369.0	492.0	INTERMEDIATE - MAFIC FLOW		18528	395.0	400.0	5.0	.12				
		Fine grained, medium grey-green, mod. quartz-carbonate throughout.		18529	400.0	405.0	5.0	.01				
		4-5% py, po, tr cpy in blebs throughout. Very sharp lower contact.	4-5% py, po, tr cpy	18530	405.0	410.0	5.0	.03				
		490.0 - 491.0: 3 veinlets of po, cpy, $\frac{1}{4}$" with quartz, one		18531	410.0	415.0	5.0	.005				
		veinlet has 6-8 specks, flakes and streaks	6-8 specks, flakes V.G.	18532	415.0	420.0	5.0	.01				
		of V.G. another veinlet has 2-3 specks of		18533	420.0	425.0	5.0	.005				
		V.G. in the po.		18534	425.0	430.0	5.0	.005				
				18535	430.0	435.0	5.0	.002				
492.0	1142.0	MAFIC FLOW		18536	435.0	440.0	5.0	.002				
		Fine grained, dark green, massive. minor py along fractures.		18537	440.0	445.0	5.0	.015				
		504.0 - 545.0: Med. grey-green, fine grained, sulfide rich		18538	445.0	450.0	5.0	.33				
		mafic flow (as 369-492) Mod. quartz-carb.		18539	450.0	455.0	5.0	.005				
		throughout, 1-2 quartz vein every 5'.		18540	455.0	460.0	5.0	.005				
		4-5% py, po, tr cpy throughout in blebs.		18541	460.0	465.0	5.0	.002				
		545.0 - 595.0: Massive, fine grained, mafic flow, occ.		18542	465.0	470.0	5.0	.002				
		narrow 1/8" quartz vein, po, assoc.		18543	470.0	475.0	5.0	.005				
		1% po, py in blebs.	1% po, py	18544	475.0	480.0	5.0	.015				
		595.0 - 642.0: Quartz vein increases to 3-5/5' most are		18545	480.0	485.0	5.0	.002				
		1/8" - $\frac{1}{4}$" but also 1/5' is 1"-3".		18546	485.0	490.0	5.0	.002				
		Mod. quartz-carb. veins, slightly - mod.		18547	490.0	495.0	5.0	.99	.49			V.G.
		biotitic; the quartz veins are low in sulfide		18548	495.0	500.0	5.0	.005	15'			
		but have minor py, cpy, po and some have VG.		18549	500.0	505.0	5.0	.48				
		613.0 - 614.5: 5 narrow, 1/8" quartz vein, one has 1 spk VG.	1 speck V.G.	18550	505.0	510.0	5.0	.025				
		624.0:- 3" quartz vein, 2 specks V.G.	2 specks V.G.	18551	510.0	515.0	5.0	.035				
		630.5: 3 quartz veins adjacent, each 1", with		18552	515.0	520.0	5.0	.002				
		3 specks of V.G.	3 specks V.G.	18553	520.0	525.0	5.0	.01				
		633.5 - 638.0: Felsic tuff		18554	525.0	530.0	5.0	.005				
		642.0 - 662.0: Quartz vein, decrease to 1-2/5', py, po		18555	530.0	535.0	5.0	.035				
		associated, minor quartz-carb. more		18556	535.0	540.0	5.0	.03				
		massive.		18557	540.0	545.0	5.0	.015				
		662.0 - 688.0: Quartz vein increases to 3-5/5' again mod.		18558	600.0	605.0	5.0	.01				
		quartz-carb. appears mafic - inter. 3-4%		18559	605.0	610.0	5.0	.002				
		po, py, tr cpy in blebs and minor amount in		18560	610.0	615.0	5.0	.705	.338			V.G.
		quartz vein.	3-4% po, py	18561	615.0	620.0	5.0	.015	15'			
		674.0: 1" quartz vein, 2 flakes V.G.	2 flakes V.G.	18562	620.0	625.0	5.0	.295		.226		V.G.
		676.5 - 677.0: 2 quartz veins 4" wide, minor py,		18563	625.0	630.0	5.0	.015		25'		
		10 - 15 specks and flakes V.G.	10-15 spks, flakes V.G.	18564	630.0	635.0	5.0	.10				V.G.
		688.0 - 732.0: Becomes more mafic, less quartz-carb.,		18565	635.0	640.0	5.0	.005				
		sulfide decreases to 1% py, minor cpy along		18566	640.0	645.0	5.0	.005				
		quartz vein and fractures. First 5' have 3		18567	645.0	650.0	5.0	.005				
		wide, 3-4" quartz vein which are barre, but		18568	650.0	655.0	5.0	.015				
		also 3 narrow quartz vein with cpy, py.		18569	655.0	660.0	5.0	.005				
		2-3 quartz veins/5' overall ($\frac{1}{4}$") with minor		18570	660.0	665.0	5.0	.01				
		po, cpy, assoc. occ. large quartz vein.		18571	665.0	670.0	5.0	.16				
		705.0 - 708.0: Quartz vein, virtually barren except for one		18572	670.0	675.0	5.0	.705	.622			V.G.
		stringer of po, cpy.		18573	675.0	680.0	5.0	1.08	15'			V.G.
		708.0 - 714.0: 4 quartz veins, 1"-3" minor po, cpy		18574	680.0	685.0	5.0	.005				
		720.7 - 722.0: Quartz vein, barren.		18575	685.0	690.0	5.0	.002				
				18576	690.0	695.0	5.0	.08				
				18577	695.0	700.0	5.0	.005				
				18578	700.0	705.0	5.0	.05				
				18579	705.0	710.0	5.0	.03				
				18580	710.0	715.0	5.0	.005				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.	Ag.	Cu.	
				18581	715.0	720.0	5.0	N			
492.0	1142.0	CONTD.		18582	720.0	725.0	5.0	N			
		870.0 - 966.0: Coarse grained massive, 1 quartz vein/5', ¼" with po, tr cpy.		18583	725.0	730.0	5.0	N			
				18584	730.0	735.0	5.0	.025			
		903.0 - 907.0: 7 quartz veins, ¼"-1", most with po, cpy associated.		18585	747.0	752.0	5.0	.025			
				18586	752.0	757.0	5.0	.002			
		956.0 - 961.0: 3 quartz veins, minor po, cpy.		18587	767.0	772.0	5.0	.025			
		966.0 - 1020.0: virtually no quartz veins, or 1/15'.		18588	772.0	777.0	5.0	.01			
		1020.0 - 1031.0: 10 quartz veins, 1/8"-¼" only traces po,cpy		18589	777.0	782.0	5.0	T			
		1040.0 - 1110.0: Becomes fine-medium-grained, occ. blebs quartz carbonate, occ. stringer of po, cpy as at 1048. 1 quartz vein /15' - 20'.	occ. po, cpy	18590	793.0	798.0	5.0	.015			
				18591	815.0	820.0	5.0	.07			
				18592	820.0	825.0	5.0	.01			
		1110.0 - 1142.0: 1% po, tr cpy in blebs throughout.		18593	825.0	830.0	5.0	.005			
				18594	898.0	903.0	5.0	T			
1142.0	1155.5	INTERMEDIATE TUFF		18595	903.0	908.0	5.0	T			
		Medium grey-green, well bedded at 50°. Grades down to int.-felsic tuff. 3% po, py, minor cpy in blebs, stringers and bands along bedding.		18596	908.0	913.0	5.0	T			
				18597	956.0	961.0	5.0	T			
		1148.0 - 1152.0: Cherty tuff. Creamy grey, massive, 3% po, minor cpy.	3% po, py, minor cpy	18598	961.0	966.0	5.0	T			
				18599	1010.0	1015.0	5.0	T			
				18600	1015.0	1020.0	5.0	T			
1155.5	1163.5	CHERTY TUFF		18601	1020.0	1025.0	5.0	.035			
		Light grey, well bedded at 80°, upper 1½' have 10% po, ½% cpy, also 6" band of quartz lapilli, with po, cpy surrounding them.		18602	1025.0	1030.0	5.0	.01			
				18603	1030.0	1035.0	5.0	T			
		1158.0 - 1160.0: Felsic tuff, minor py, po.		18604	1040.0	1045.0	5.0	T			
		1160.0 - 1163.5: 15-20% py, po, minor cpy, some very well bedded py.	15-20% py, po	18605	1045.0	1050.0	5.0	T			
				18606	1050.0	1055.0	5.0	T			
				18607	1055.0	1060.0	5.0	.010			
1163.5	1170.0	FELSIC TUFF		18608	1070.0	1075.0	5.0	.020			
		Medium grey, quite well bedded at 45°, occ. cherty section, tr py		18609	1105.0	1110.0	5.0	.03			
				18610	1110.0	1115.0	5.0	T			
1170.0	1176.0	MAFIC FLOW		18611	1115.0	1120.0	5.0	T			
		Dark green, slightly foliated at 45°, separated from chloritic zone, felsic tuff.		18612	1120.0	1125.0	5.0	T			
				18613	1125.0	1130.0	5.0	T			
				18614	1130.0	1135.0	5.0	.035			
1176.0	1183.5	CHLORITE ALTERATION		18615	1135.0	1140.0	5.0	.085			
		Medium green, highly chloritic, foliated at 45°.		18616	1140.0	1145.0	5.0	T			w/core
				18617	1145.0	1150.0	5.0	.055			"
1183.5	1287.0	TALC-CARBONATE		18618	1150.0	1155.0	5.0	.040			"
		Dark grey-green, highly altered to talc-carb, much of it very well bedded at 40° - 45°, with several large 1" fragments. Minor po throughout, with 1-2 % po, cpy from 197 - 198.		18619	1155.0	1160.0	5.0	.120	.12		"
				18620	1160.0	1165.0	5.0	.120	10'		"
			1-2% po, cpy	18621	1165.0	1170.0	5.0	T			"
		1191.0 - 1195.0: Felsic tuff		18622	1170.0	1175.0	5.0	T			
		1222.0 - 1252.0: felsic tuff, foliation at 45°.		18623	1175.0	1180.0	5.0	T			
		1252.0 - 1287.0: Appears more massive, less foliation or bedding.		18624	1180.0	1185.0	5.0	T			
				18625	1185.0	1190.0	5.0	T			
				18626	1190.0	1195.0	5.0	T			
				18627	1195.0	1200.0	5.0	.040			
	1287.0	END OF HOLE		18628	1200.0	1205.0	5.0	T			
				18629	1205.0	1210.0	5.0	T			
				18630	1210.0	1215.0	5.0	T			
				18631	1215.0	1220.0	5.0	T			

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

PROPERTY DETOUR LAKE HOLE NO. DLO-38 - 78

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
				18632	1255.0	1260.0	5.0	T		
				18633	1260.0	1265.0	5.0	T		
				18634	1265.0	1270.0	5.0	.010		
				18635	1270.0	1275.0	5.0	T		
				18636	1275.0	1280.0	5.0	T		
				18637	1280.0	1287.0	7.0	.010		

TROPARI	DIP.	AZ.
300'	59°	173°
700'	52°	160°
1100'	50°	182½°
1630'	49°	186⅓°

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

						DIP TEST					
PROPERTY	DETOUR LAKES	LATITUDE	210 + 50 NORTH	STARTED	October 10th, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	DLO - 38 - 94	DEPARTURE	190 + 00 EAST	FINISHED	October 21st, 1975	200'	61°	800'	52°	1400'	47°
BEARING	180°	ELEVATION		LENGTH	1651 FEET	400'	57°	1000'	49½°	1600'	46°
DIP-COLLAR	- 65°	SECTION		LOGGED BY	BABU GAJARIA	600'	53°	1200'	50½°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	
				A17242	45.0	50.0	5.0	T			
0	40.0	CASING		A17243	50.0	55.0	5.0	T			
				A17244	55.0	60.0	5.0	.053			V.G.
40.0	413.2	MAFIC LAVA FLOW (1a)		A17245	60.0	65.0	5.0	.005			
		Grey-green in colour, characteristically contains carbonate blebs and		A17246	65.0	70.0	5.0	T			
		veinlets, while felsic blebs and veinlets are present on and off. Some		A17247	70.0	75.0	5.0	T			
		biotite alteration. It is important to note that majority of the minerali-	tr po and py	A17248	75.0	80.0	5.0	T			
		sed quartz veins associated with this sequence, makes low angles		A17249	80.0	85.0	5.0	T			
		(20°-30°), indicating the veins to be vertically dipping, or dipping south.		A17250	85.0	90.0	5.0	T			
		45.0: Schistosity/core axis angle is 50°.		A17251	90.0	95.0	5.0	T			
		52.4: ¼" quartz vein, po and py		A17252	95.0	100.0	5.0	T			
		59.1 - 59.5: Quartz vein, 30% po, tr cpy and V.G. 1 spk.	1 speck V.G.	A17253	100.0	105.0	5.0	T			
		74.8: 2" quartz vein - barren		A17254	105.0	110.0	5.0	N			
		75.2: Quartz pod tr blebs of po		A17255	120.0	125.0	5.0	N			
		81.5: ¼" quartz vein, diss. po and py		A17256	125.0	130.0	5.0	T			
		83.6: ½" quartz vein, po and tr py		A17257	130.0	135.0	5.0	T			
		98.7: ½" quartz vein po (30% py and tr cpy		A17258	135.0	140.0	5.0	T			
		103.4: ½" quartz vein, po, py and tr cpy		A17259	140.0	145.0	5.0	T			
		121.8: ½" quartz vein, 20° C.A., po and py		A17260	145.0	150.0	5.0	T			
		139.0: 2" quartz vein, po and cpy		A17261	160.0	165.0	5.0	T			
		146.5 - 147.0: Quartz vein, tr po and cpy		A17262	215.0	220.0	5.0	T			
		162.8: ¼" quartz vein, po and tr cpy		A17263	220.0	225.0	5.0	T			
		219.2: ¼" po, cpy, lense, assoc. with chlorite		A17264	225.0	230.0	5.0	T			
		224.0: 1" quartz vein, po, py and tr cpy		A17265	285.0	290.0	5.0	T			
		243.7 - 245.8: DIORITIC DYKE (2)		A17266	315.0	320.0	5.0	T			
		Medium grained, sharp contacts on either	1% py	A17267	320.0	325.0	5.0	T			
		side with mafic flow charac. contains		A17268	325.0	330.0	5.0	T			
		euhedral diss. pyrite.		A17269	455.0	460.0	5.0	T			
		249.0 - 251.4: FELSIC DYKE (4)		A17270	460.0	465.0	5.0	.020			
		Fine grained, grey-green in colour, occ.	tr sulfides	A17271	465.0	470.0	5.0	T			
		medium grained felsic crystals.		A17272	485.0	490.0	5.0	T			
		289.0: ¼" quartz vein parallel to C.A. po and cpy		A17273	490.0	495.0	5.0	T			
		315.1: 3/4" quartz vein - po		A17274	635.0	640.0	5.0	.010			
		322.0: ½" quartz vein - barren		A17275	640.0	645.0	5.0	.005			
		330.0: ½" quartz vein - po and cpy		A17276	660.0	665.0	5.0	.005			
				A17277	700.0	705.0	5.0	T			
413.2	437.0	INTERMEDIATE LAVA FLOW (2a)		A17278	705.0	710.0	5.0	T			
		Light buff grey in colour, biotite rich; siliceous, fine grained.	½% pyrite	A17279	710.0	715.0	5.0	T			
		2" quartz vein /10' section.		A17280	715.0	720.0	5.0	T			
				A17281	810.0	815.0	5.0	T			

REGISTERED PROFESSIONAL ENGINEER
P. J. MANGOT
PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.		
				A17282	815.0	820.0	5.0	T				
437.0	533.4	MAFIC LAVA FLOW (1a)		A17283	820.0	825.0	5.0	T				
		Grey-green in colour, biotite alteration in places giving it a buff brown		A17284	825.0	830.0	5.0	T				
		appearance contains charac. carbonate blebs and veinlets.	tr po and py	A17285	830.0	835.0	5.0	.01			V.G.	w/core
		459.1: ¼" quartz vein, po and py and cpy		A17286	835.0	840.0	5.0	T				
		470.0: 3" quartz carbonate vein po, py and cpy		A17287	840.0	845.0	5.0	.005				
		488.0: 3/4" quartz vein 30% po, tr cpy		A17288	845.0	850.0	5.0	T				
		492.0 - 493.0: Quartz carbonate vein, po, py and tr cpy		A17289	850.0	855.0	5.0	T				
				A17290	855.0	860.0	5.0	T				
533.4	592.6	MAFIC LAVA FLOW (1a)		A17291	860.0	865.0	5.0	.01			V.G.	w/core
		Grey-green in colour, medium grained, charac. amphibolised.	tr sulfides	A17292	865.0	870.0	5.0	T				
				A17293	870.0	875.0	5.0	.010				
592.6	667.7	MAFIC LAVA FLOW AND INT. LAVA FLOW: (1a+2a)		A17294	875.0	880.0	5.0	T				
		Alteration of mafic and intermediate flow, light grey-green in colour,	tr sulfides	A17295	880.0	885.0	5.0	.51			V.G.	w/core
		fine grained, to schistose in places. Biotite rich in places.		A17296	885.0	890.0	5.0	.010				
		637.0: ¼" quartz vein 10° C.A. po, py, and cpy		A17297	890.0	895.0	5.0	T				
		640.0: ¼" quartz vein parallel to C.A. po, py, cpy		A17298	895.0	900.0	5.0	.08				
		642.0: 3/4" quartz vein, po, py and cpy		A17299	900.0	905.0	5.0	.09				
		651.8 - 662.0: INTERMEDIATE TUFF (2c)		A17300	925.0	930.0	5.0	.01				
		Light grey in colour, schistose, bedded	tr cpy	A17301	930.0	935.0	5.0	T				
		Bedding/C.A. angle is 65°		A17302	935.0	940.0	5.0	.005				
		663.0: ¼" quartz vein po, tr cpy		A17303	975.0	980.0	5.0	.005				
				A17304	990.0	995.0	5.0	T				
667.7	847.0	MAFIC LAVA FLOW (1a)		A17305	1035.0	1040.0	5.0	T				
		Grey-green in colour, medium grained, charac. amphibolised.		A17306	1060.0	1065.0	5.0	T				
		705.5: ½" quartz vein parallel to C.A. 10% po,		A17307	1065.0	1070.0	5.0	T				
		2% cpy, 1% py		A17308	1070.0	1075.0	5.0	T				
		708.0: 2" quartz vein, po and py		A17309	1075.0	1080.0	5.0	T				
		716.0: ½" quartz vein, 10° C.A. po, py and cpy		A17310	1080.0	1085.0	5.0	.005				
		789.1: ¼" quartz vein, 15° C.A. po and py		A17311	1085.0	1090.0	5.0	T				
		833.4: ½" quartz vein, 40° C.A.	po, py, cpy + 1 V.G.	A17312	1110.0	1115.0	5.0	T				
		834.1: ⅛" quartz vein, po and py.		A17313	1115.0	1120.0	5.0	T				
				A17314	1145.0	1150.0	5.0	T				
847.0	1482.0	INTERMIXED MAFIC TUFF AND MAFIC FLOW (1c + 1a)		A17315	1150.0	1155.0	5.0	T				
		Grey-green to buff brown in colour, medium to fine grained, schistose		A17316	1155.0	1160.0	5.0	T				
		and amphibolised.	½% pyrite	A17317	1160.0	1165.0	5.0	T				
		850.0: Schistosity/C.A. angle is 30°		A17318	1165.0	1170.0	5.0	T				
		861.3: Quartz vein - 20° to C.A.	10% po, 5% cpy and	A17319	1170.0	1175.0	5.0	T				
		862.0: Schistosity/C.A. angle is 35°	1 speck V.G.	A17320	1175.0	1180.0	5.0	T				
		871.5: ½" quartz vein - 30% po, tr py, and cpy		A17321	1180.0	1185.0	5.0	T				
		879.7: 3½" quartz vein - 25% py		A17322	1280.0	1285.0	5.0	T				
		881.8: 3" quartz vein - 20% py, 10% po, 10% cpy		A17323	1285.0	1290.0	5.0	T				
		882.3: 2" quartz vein - 10% py, 10% po, 10% cpy		A17324	1290.0	1295.0	5.0	.045				
		883.0: 6" quartz vein - 90° C.A.	10% po, 10% cpy +	A17325	1295.0	1300.0	5.0	.035				
		899.8 - 900.5: Massive po, tr cpy	3 specks V.G.	A17326	1300.0	1305.0	5.0	.58				
		901.3: Quartz vein, po and py		A17327	1305.0	1310.0	5.0	.005				
		926.0: 3/4" quartz vein, po, py and cpy		A17328	1310.0	1315.0	5.0	.010				
		935.5: 2" quartz vein, po and cpy		A17329	1315.0	1320.0	5.0	.010				
		936.8: ⅛" quartz vein, po and py		A17330	1320.0	1325.0	5.0	.040				
		976.5: 2" quartz vein, po, py and cpy		A17331	1325.0	1330.0	5.0	.020				
		992.8: ½" quartz vein, po and cpy		A17332	1330.0	1335.0	5.0	.327				V.G.
		1038.0: 1½" quartz vein, py and cpy		A17333	1335.0	1340.0	5.0	.005				
		1039.4: ½" quartz vein, py and tr cpy		A17334	1340.0	1345.0	5.0	.030				
		1064.7: ⅛" quartz vein, po and cpy		A17335	1345.0	1350.0	5.0	.040				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.		
				A17336	1350.0	1355.0	5.0	.005				
847.0	1482.0	CONTD.		A17337	1355.0	1360.0	5.0	.01				
		1070.2: ¼" quartz pod, tr po and cpy		A17338	1375.0	1380.0	5.0	T				
		1072.5: Po, cpy, quartz stringers		A17339	1380.0	1385.0	5.0	.015				
		1078.0: Po, cpy, stringers		A17340	1385.0	1390.0	5.0	.045				
		1087.6: 1¼" quartz vein, po and cpy		A17341	1390.0	1395.0	5.0	.02				
		1111.5: 3/4" quartz vein, po and cpy		A17342	1395.0	1400.0	5.0	T				
		1112.5: ½" quartz vein, po and cpy.		A17343	1400.0	1405.0	5.0	.01				
		1144.0: ¼" quartz vein, po and tr cpy		A17344	1405.0	1410.0	5.0	.005				
		1149.2: ¼" quartz vein, po, tr cpy		A17345	1410.0	1415.0	5.0	.015				
		1152.6: ¼" quartz vein, po and cpy		A17346	1415.0	1420.0	5.0	.065				
		1162.0: ½" quartz vein, po and cpy		A17347	1420.0	1425.0	5.0	T				
		1170.0 - 1182.0: 3-4 quartz veins, ½" -1" with minor po, cpy		A17348	1425.0	1430.0	5.0	.005				
		1182.0 - 1290.0: 1 quartz vein/5', ½" minor po		A17349	1430.0	1435.0	5.0	.185				
		1290.0 - 1305.0: Quartz vein increases to 2-3/5', 1"-2" with po, minor cpy	2-3% po, minor cpy	A17350	1435.0	1440.0	5.0	.015				
				A17351	1440.0	1445.0	5.0	.01				
		1305.5 - 1318.0: Fine grained, biotitic intermediate flow, with good contacts at 50°, minor po		A17352	1445.0	1450.0	5.0	.005				
				A17353	1450.0	1455.0	5.0	.01				
		1318.0 - 1361.0: Coarse grained, mafic flow, amphibolised,		A17354	1455.0	1460.0	5.0	.04				
		3-4% po, minor cpy in stringers and blebs throughout.		A17355	1460.0	1465.0	5.0	.01				
				A17356	1465.0	1470.0	5.0	T				
		1323.0 - 1329.0: Felsic tuff, mod. bedded at 50° tr po.		A17357	1470.0	1475.0	5.0	.005				
		1334.0: ½" quartz vein, po, cpy 2 flakes V.G.	2 flakes V.G.	A17358	1475.0	1480.0	5.0	.095				
		1337.0 - 1338.0: Felsic tuff, bedded at 50°		A17359	1480.0	1485.0	5.0	.081				w/core
		1338.5 - 1339.5: Felsic tuff, bedded at 50°		A17360	1485.0	1490.0	5.0	.005		.10		"
		1342.0 - 1361.0: Quartz vein begins, 2-3/5', most are ½"-2" with po, cpy assoc.		A17361	1490.0	1495.0	5.0	.01		.05		"
				A17362	1495.0	1500.0	5.0	.01		.06		"
		1361.0 - 1376.0: Fine grained, mafic flow, characterized by distinctive blebs of quartz-carbonate,		A17363	1500.0	1505.0	5.0	.065	.082	.26	V.G.	
				A17364	1505.0	1510.0	5.0	.015	55'	.07		"
		¼" in diameter, 3-4% of the rock.		A17365	1510.0	1515.0	5.0	.025		.05		"
		1376.0 - 1420.0: Fine grained, mafic flow, occ. carb. blebs		A17366	1515.0	1520.0	5.0	.07		.18		"
		1-2 quartz veins/5', 1-3% po, minor cpy		A17367	1520.0	1525.0	5.0	.388	.26	.20	.57	V.G.
		in quartz veins and in stringers, 2% po,	1-3% po, minor cpy	A17368	1525.0	1530.0	5.0	.138	10'	15'	.29	"
		minor cpy.		A17369	1530.0	1535.0	5.0	.005				
		1420.0 - 1431.0: Fine grained, only minor sulfides.		A17370	1535.0	1540.0	5.0	.005				
		1431.0 - 1482.0: 1-2 quartz vein/5', 2-3% po, minor cpy	2-3% po, minor cpy	A17371	1540.0	1545.0	5.0	.152				
		along quartz vein and in stringers and blebs.		A17372	1545.0	1550.0	5.0	.03				
				A17373	1550.0	1555.0	5.0	T				
1482.0	1498.0	INTERMEDIATE TUFF ZONE		A17374	1555.0	1560.0	5.0	.015				
		Fine grained, dark grey-green, generally massive but slight bedding at		A17375	1560.0	1565.0	5.0	.02				
		60°-70°, mod. biotitic. Contains 6 quartz veins, 1-3" most in upper 7'.		A17376	1565.0	1570.0	5.0	.02				
		4% po, py, minor cpy in quartz vein and stringer and blebs.	4% po, cpy.	A17377	1570.0	1575.0	5.0	.005				
				A17378	1575.0	1580.0	5.0	.005				
1498.0	1501.5	CHERTY TUFF		A17379	1580.0	1585.0	5.0	.005				
		Fine grained, dark grey, quite well bedded at 70°, 10% po, minor cpy		A17380	1585.0	1590.0	5.0	.015				
		along bedding. Lower 6" quartz vein, with po, cpy, overlain by 6"		A17381	1590.0	1595.0	5.0	.025				
		of quartz lapilli in po matrix.		A17382	1595.0	1600.0	5.0	.015				
		1500.3: ½" of quartz, 1 speck V.G.	1 speck V.G.	A17383	1600.0	1605.0	5.0	.015				
				A17384	1605.0	1610.0	5.0	.198	.183		V.G.	
1501.5	1539.0	MAFIC FLOW		A17385	1610.0	1615.0	5.0	.168	10'			
		Med. grained, trem., slightly -mod. chloritic, biotitic.		A17386	1615.0	1620.0	5.0	.02				
		3-4% po, cpy in stringers and blebs.		A17387	1620.0	1625.0	5.0	.02				
		1521.0 - 1523.0: Quartz vein, po, cpy, 1 speck V.G.	1 speck V.G.	A17388	1625.0	1630.0	5.0	.07				
		1525.0 - 1526.0: Quartz vein, po, cpy		A17389	1630.0	1635.0	5.0	.005				

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

PROPERTY DETOUR LAKE HOLE NO. DLO-38-94 Page 4

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
				A17390	1635.0	1640.0	5.0	.005		
1539.0	1627.0	TALC-CARBONATE SERPENTINIZED ZONE		A17391	1640.0	1645.0	5.0	T		
		Fine grained, dark green, highly magnetic throughout; slight foliation developed at 50°.		A17392	1645.0	1651.0	5.0	.005		
		Upper 10' have 2% po, minor cpy diss. and in a couple of narrow quartz veins. Minor po to 1% po throughout remainder of rock.								
		1587.0 - 1615.0: Slight increase in po, cpy, increasing to 3-4% between 1605 - 1615 as stringers and blebs.								
		1606.0: Stringer of cpy, po with 4-5 specks V.G.	4-5 specks V.G.							
1627.0	1651.0	FELSIC TUFF								
		Medium grey, massive, upper 5' are slightly biotitic. tr py throughout.								
	1651.0	END OF HOLE								

TROPARI	DIP	AZ
300'	62°	180½°
700'	60°	181°
1100'	58°	173°

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

PROPERTY	DETOUR LAKE	LATITUDE	211 + 00 NORTH	STARTED	September 30th, 1975
HOLE NO.	DLO- 38 - 90	DEPARTURE	186 + 00 EAST	FINISHED	October 13th, 1975
BEARING	180°	ELEVATION		LENGTH	1957 FEET
DIP-COLLAR	-65°	SECTION		LOGGED BY	A. Jackson, P. Brown

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	62°	800'	59°	1400'	57°
400'	61°	1000'	58°	1600'	56°
600'	60°	1200'	55°	1800'	59°

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	
				30001	95.0	100.0	5.0	.005			
0	54.0	CASING		30002	100.0	105.0	5.0	T			
				30003	115.0	120.0	5.0	.005			
54.0	1645.0	MAFIC LAVAS		30004	120.0	125.0	5.0	T			
		Fine grained to medium grained, dark green, massive flows.		30005	125.0	130.0	5.0	.025			
		98.0 - 105.0: Intermediate flow. Light to medium green,		30006	240.0	245.0	5.0	T			
		appears brecciated, as flow breccia, surr-		30007	245.0	250.0	5.0	.005			
		ounded by light creamy feldspar; flow banding		30008	250.0	255.0	5.0	T			
		at 60°; 2-3% po, minor cpy.		30009	255.0	260.0	5.0	.005			
		115.0 - 150.0: Distinctive mafic flows with streaks and		30010	320.0	325.0	5.0	.01			
		blebs of creamy feldspar throughout.		30011	325.0	330.0	5.0	.035		V.G.	w/core
		1-2% po, tr cpy to 128.0:	1-2% po, tr cpy	30012	330.0	335.0	5.0	T			
		128.0 - 129.0: Calcite filled breccia zone, with po, cpy		30013	420.0	425.0	5.0	.03			
		associated.		30014	475.0	480.0	5.0	.005			
		129.0 - 150.0: Minor creamy feldspar, minor sulfides,		30015	480.0	485.0	5.0	.19	.19/5'		
		banding at 30°.		30016	485.0	490.0	5.0	T			
		157.0 - 158.0: Felsic - int. tuff, well bedded at 30°.		30017	490.0	495.0	5.0	.02			
		161.0 - 163.0: Felsic tuff. Light grey, very well bedded		30018	495.0	500.0	5.0	.005			
		at 50°.		30019	500.0	505.0	5.0	.005			
		163.0 - 239.0: Fine grained, mafic mod - carb. and quartz		30020	505.0	510.0	5.0	T			
		carbonate veins throughout, often at 40-50°		30021	515.0	520.0	5.0	.015			
		along foliation.		30022	670.0	675.0	5.0	.005			
		239.0 - 386.0: Creamy feldspar streaks, as in 115 - 150.		30023	675.0	680.0	5.0	.005			
		Foliated at 50°.		30024	680.0	685.0	5.0	.01			
		1% po, tr cpy throughout to 270, then ½-1%.	1% po, tr cpy.	30025	750.0	755.0	5.0	T			
		260.0 - 268.0: Felsic tuff		30026	755.0	760.0	5.0	.005			
		285.0 - 293.0 Tuffaceous with felsic lapilli, 1/8" throughout,		30027	760.0	765.0	5.0	.02			
		well bedded at 60°.		30028	765.0	770.0	5.0	T			
		325.0 - 326.0: ½" quartz vein, along C.A. po, cpy, 1 V.G.	1 speck V.G.	30029	770.0	775.0	5.0	.04			
		375.0 - 386.0: Porphyritic mafic flow, 1/16" feldspar		30030	775.0	780.0	5.0	T			
		phenocrysts throughout.		30031	780.0	785.0	5.0	.01			
		386.0 - 815.0: Mafic flows fine grained, numerous flow		30032	785.0	790.0	5.0	.265	.265/5'	V.G.	w/core
		contacts, or pillows throughout; occ.		30033	790.0	795.0	5.0	.04			
		quartz-carb. occ. quartz veins. Flows		30034	795.0	800.0	5.0	T			
		marked by numerous carb.-filled amygdules		30035	800.0	805.0	5.0	T			
		throughout.		30036	805.0	810.0	5.0	.03			
		445.0 - 815.0: Becomes highly X-cut by quartz-carb. veins		30037	810.0	815.0	5.0	.02			
		475.0 - 520.0: Occ. quartz veins 1/5', 1/8" with po, tr cpy		30038	815.0	820.0	5.0	T			
		assoc. quartz vein become wider from		30039	925.0	930.0	5.0	T			
		500-520. 1"-2".		30040	930.0	935.0	5.0	T			

REGISTERED PROFESSIONAL ENGINEER
P. J. MASINGDT
PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.		
				30041	935.0	940.0	5.0	.02				
54.0	1645.0	CONTD:		30042	940.0	945.0	5.0	T				
		386.0 - 815.0: CONTD.		30043	945.0	950.0	5.0	T				
		520.0 - 670.0: Mainly quartz-carbonate, minor quartz vein		30044	950.0	955.0	5.0	T				
		foliated at 30° to C.A.		30045	955.0	960.0	5.0	T				
		670.0 - 750.0: Occ. quartz vein 1/5', mod. biotitic,		30046	960.0	965.0	5.0	.03				
		1-2% po, tr cpy.	1-2% po, tr cpy	30047	965.0	970.0	5.0	T				
		750.0 - 765.0: Quartz vein increases to 2-3/5', with po,		30048	970.0	975.0	5.0	.04				
		tr cpy associated.		30049	975.0	980.0	5.0	T				
		765.0 - 815.0: Very minor quartz vein, quartz-carbonate		30050	980.0	985.0	5.0	T				
		decreases also.		30051	985.0	990.0	5.0	.01				
		1% po, tr cpy.	1% po; tr cpy	30052	1015.0	1020.0	5.0	T				
		787.5: Quartz-carbonate vein, po, cpy, 2 spks, V.G.	2 specks V.G.	30053	1040.0	1045.0	5.0	T				
		815.0 - 1202.0: Mafic lavas, massive, very minor quartz-		30054	1045.0	1050.0	5.0	T				
		carbonate or quartz vein, minor po.		30055	1060.0	1065.0	5.0	T				
		856.0 - 858.0: Two quartz veins, 2-3" minor po, tr cpy.		30056	1065.0	1070.0	5.0	T				
		927.0 - 977.0: Intermediate flow. Medium grey-green,		30057	1070.0	1075.0	5.0	T				
		chloritic blebs in intermediate ground mass;		30058	1075.0	1080.0	5.0	T				
		foliated at 30-40°.		30059	1080.0	1085.0	5.0	T				
		Mod. cross-cut by quartz-carbonate through-		30060	1085.0	1090.0	5.0	T				
		out, 1-2% po, tr cpy.	1-2% po, tr cpy	30061	1090.0	1095.0	5.0	.09				
		1009.0 - 1011.0: Inter. tuff, well bedded at 60-70°, 1-2% po,		30062	1095.0	1100.0	5.0	T				
		tr cpy.		30063	1100.0	1105.0	5.0	T				
		1016.0 - 1018.0: Int. felsic dike? 2-3% po, minor cpy.		30064	1105.0	1110.0	5.0	T				
		1035.0 - 1038.0: Felsic tuff, well bedded at 50°.		30065	1110.0	1115.0	5.0	T				
		1045.0 - 1048.0: Int. flow, 2% po, minor py, cpy, tr sphal.	2% po, py cpy.	30066	1115.0	1120.0	5.0	T				
		1072.0 - 1078.0: Int. mafic, biotitic, chloritic, 2-3% po,		30067	1120.0	1125.0	5.0	.01				
		tr cpy.	2-3% po, tr cpy	30068	1125.0	1130.0	5.0	T				
		1085.0 - 1110.0: Foliation at 20-30° to C.A. Occ. quartz		30069	1130.0	1135.0	5.0	T				
		vein, 1/5' with po, tr cpy.		30070	1135.0	1140.0	5.0	.12				
		1096 - 1102: Mafic dike, biotitic, slightly magnetic.		30071	1175.0	1180.0	5.0	.01				
		1110.0 - 1164.0: Highly cross-cut by quartz-carbonate (10-15%)		30072	1180.0	1185.0	5.0	T				
		mod. biotitic throughout, occ. grades to inter.		30073	1213.0	1218.0	5.0	.01				
		1-3% po, tr cpy, mainly in quartz-carb.		30074	1340.5	1346.0	5.5	T				
		1164.0: Massive, virtually no quartz-carbonate.		30075	1412.0	1417.0	5.0	.18	.18/5'			
		1185.0: 2" quartz vein, stringer of po, cpy.		30076	1480.0	1485.0	5.0	.015				
		1202.0 - 1250.0: Continuation of the fine grained dark green,		30077	1485.0	1490.0	5.0	.01				
		mafic flow (1a)		30078	1667.0	1672.0	5.0	.01				
		Moderate chlorite alteration.		30079	1687.0	1692.0	5.0	.01				
		strong foliation 40° to C.A.		30080	1730.0	1735.0	5.0	T				
		Very little quartz or quartz-carb. veining.		30031	1735.0	1740.0	5.0	T				
		3/4" quartz vein at 1214.0 which is 30-40°		30032	1740.0	1745.0	5.0	T				
		filled with po and py.		30083	1745.0	1750.0	5.0	T				
		1250.0 - 1420.0: Fine grained, dark green, mafic flow (1a)		30084	1750.0	1755.0	5.0	T				
		Foliation strong at 40° to C.A.		30035	1755.0	1760.0	5.0	T				
		There are a few sections upto 10' in length		30036	1760.0	1765.0	5.0	T				
		that are medium grained. Numerous flow		30037	1765.0	1770.0	5.0	T				
		contacts. Chlorite alteration is moderate		30088	1770.0	1775.0	5.0	.005				
		throughout. Quartz veining is <1"/5'. The		30039	1775.0	1780.0	5.0	T				w/core
		little sulfides that are present are restricted		30090	1780.0	1785.0	5.0	.015				"
		to the qtz. and qtz. carb. veining and are		30091	1785.0	1790.0	5.0	T				"
		mainly po, py and tr cpy.		30092	1790.0	1795.0	5.0	T				"
				30093	1795.0	1800.0	5.0	.025		.10		w/core
				30094	1800.0	1805.0	5.0	.164		.27	V.G.	"

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.		
				30095	1805.0	1810.0	5.0	T		.01		w/core
54.0	1645.0	CONTD.		30096	1810.0	1815.0	5.0	.045		.04		"
		1252.0: 1' mafic dike contact sharp at 30-35° to C.A.		30097	1815.0	1820.0	5.0	.03		.02		"
		1259.5: 1' mafic dike contact sharp at 45° to C.A.		30098	1820.0	1825.0	5.0	.03		.05		"
		1261.0: 6" mafic dike contact sharp at 45° to C.A.		30099	1825.0	1830.0	5.0	.015		.15		
		1304.0: 1' mafic dike contact sharp at 60° to C.A.		30100	1830.0	1835.0	5.0	.04				
		1251.0 - 1300.0: Minor quartz and quartz-carbonate veining		11948	1835.0	1840.0	5.0	.075		.13		w/core
		and nil to tr sulfides.		11949	1840.0	1845.0	5.0	.147		.44		"
		1342.0 + 1345.0: Two 18" sections of mafic tuff, bedding		11950	1845.0	1850.0	5.0	.068	.106	.11		
		40° to C.A.	10-15% po, py	11951	1850.0	1855.0	5.0	.023	20'	.15		"
		Abundant chlorite alteration and a couple of		11952	1855.0	1860.0	5.0	.177		.23		"
		2-3" sections are completely chlorite.		11953	1860.0	1865.0	5.0	.015	.076			
		Moderate Bi alteration.		11954	1865.0	1870.0	5.0	.01	65'	.19		"
		10 - 15% sulfides over the 3'.		11955	1870.0	1875.0	5.0	.005		.25	V.G.	"
		1335.0: Foliation 25° to C.A.		11956	1875.0	1880.0	5.0	.01		.29		"
		1347.0 - 1367.0: Light Bi alteration with moderate chlorite		11957	1880.0	1885.0	5.0	.157		.30		
		alteration.		11958	1885.0	1890.0	5.0	.025	.114	.24		"
		1373.0 - 1373.3: Quartz-carbonate vein partly filled with py.		11959	1890.0	1895.0	5.0	.163	20'	.33	V.G.	"
		1408.0: Cpy in quartz-carbonate stringer.		11960	1895.0	1900.0	5.0	.111		.20		"
		1413.0 - 1418.0: Fine grained, medium green int. to mafic		11961	1900.0	1905.0	5.0	.015				
		flow.	10% py, po, 1% cpy	11962	1905.0	1910.0	5.0	T				
		10% sulfides over the 5'. Moderate Bi		11963	1910.0	1915.0	5.0	.010				
		alteration adjacent to quartz vein.		11964	1915.0	1920.0	5.0	T				
		Foliation 45° to C.A.		11965	1920.0	1925.0	5.0	T				
		1420.0 - 1541.0: Fine to medium grained, dark green, mafic		11966	1925.0	1930.0	5.0	T				
		flow (la) Minor interbedded mafic tuff.		11967	1930.0	1935.0	5.0	T				
		Chlorite alteration is moderate throughout.	tr sulfides	11968	1935.0	1940.0	5.0	T				
		There are a few short usually <1' sections		11969	1940.0	1945.0	5.0	.005				
		of fine grained mafic dikes scattered through-		11970	1945.0	1950.0	5.0	T				
		out. These dikes have short contact with the		11971	1950.0	1955.0	5.0	T				
		mafic flow.		11972	1955.0	1960.0	5.0	T				
		Biotite alteration is very light except		11973	1960.0	1962.0	2.0	T				
		adjacent to quartz veins, where it is mod.										
		Quartz veining is about 1"/5' interval upto										
		1476' Light quartz-carbonate veining.										
		1476.0 - 1492.0: Quartz veining has picked up to 2½"/5'.										
		Minor po, py.										
		1492.0 - 1541.0: Quartz veining has dropped to 1"/5'. Minor										
		quartz-carbonate veining and tr sulfides.										
		Fine grained, dark green mafic flow (la)										
		Mod. chlorite alter. throughout.										
		Foliation at 45° to C.A.										
		Few fine grained lighter green mafic dikes										
		(usually <1' in length) scattered throughout.										
		The contact between these mafic dikes and										
		mafic flow varies from 45° to C.A. to 75°										
		to 80° to C.A.										
		Quartz carbonate veining and carb. blebs										
		are abundant in all this section except for the										
		mafic dikes. Quartz veining is relatively low										
		1"-1½"/5' interval.										

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
54.0	1645.0	CONTD.						
		1541.0 - 1562.0: Mafic flow						
		1562.0 - 1563.3: Mafic dike						
		1563.3 - 1565.5: Int. flow						
		1565.5 - 1567.0: Mafic flow						
		1567.0 - 1567.6: Int. flow						
		1567.6 - 1575.0: Mafic flow						
		1575.0 - 1581.0: Int. flow						
		1581.0 - 1592.0: Mafic flow						
		1592.0 - 1593.0: Int. flow						
		1593.0 - 1645.0: Mafic flow.						
1645.0	1660.0	FINE GRAINED, LIGHT GREYISH GREEN INTERMEDIATE TO SOMEWHAT FELSIC FLOW (2a) Low Biotite and chlorite alteration. Several 1" quartz veins scattered throughout but all are barren or have just a few specks of sulfides. Contact sharp at 35° to C.A. for the upper contact and 45° for the lower contact.						
1660.0	1673.0	FINE GRAINED DARK BROWNISH GREEN MAFIC TO INTER. TUFF(1c-2c) Possible bedding 45° to C.A. Abundant biotite and chlorite alteration throughout. Quartz veining 1½"/5'. 1" quartz vein at 1660.1 tr sulfides 1½" quartz vein at 1671.9 minor sulfides.						
1673.0	1679.0	FINE GRAINED, DARK GREEN MAFIC FLOW (1a) Moderate chlorite alteration. No quartz veining and no mineralization.						
1679.0	1722.0	FINE TO MEDIUM GRAINED, DARK BROWNISH GREEN MAFIC TUFF Bedding 30° to C.A. Biotite and chlorite alteration well developed throughout. Quartz-carb. veinlets is low throughout. Abundance of carbonate blebs is moderate. Quartz veining is very low, except between 1688 and 1691. Within these 3' there are 12.5" of quartz veining. These veins contain about 20-25% po minor py and tr cpy.						
1722.0	1753.5	FINE GRAINED, DARK GREEN, INT. TO MAFIC FLOW (2a, 1a) Foliation 40° to C.A. Low abundance of quartz-carb. veinlet and no quartz veining and tr sulfides. Upto 1737.5'. 1735.5 - 1753.5: Carbonate content picks up, however, quartz veining is still practically Nil. ½" barren. Quartz vein at 1748.4:						
1753.5	1757.5	MEDIUM GRAINED, MASSIVE DARK GREENISH BROWN INT. FLOW (2a) Upper contact 65° to C.A. Lower contact 70° to C.A. ½" quartz vein at 1755' barren. Foliation not well defined. Abundant Biotite alteration and moderate chlorite alteration. This intermediate zone has no sulfides at all.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1757.5	1778.0	FINE GRAINED, DARK BROWNISH GREEN MAFIC TUFF (1c) Foliation about 65° to C.A. Biotite and chlorite alteration. Abundant throughout. Low quartz carbonate veining. Two ½" quartz veins with minor sulfides.						
1778.0	1802.0	FINE GRAINED, GREENISH BROWN INTERMEDIATE FLOW (2a) Extremely Biotite rich. Chlorite alteration tends to be concentrated around the abundant quartz-carb. veins. Foliation is well developed at 60° to C.A. Abundant irregular quartz-carb. veins throughout. These veins contain minor po, py and tr cpy. Large quartz veins at 1780, 3" vein with tr sulfides. 2" quartz vein at 1799 - barren. 1798.7: Irregular 2" vein 30% filled with cpy. 1778.0 - 1802.0: Upto 3-5% po, py and tr cpy	3-5% po, py, tr cpy					
1802.0	1805.0	CRYPTOCRYSTALINE DARK GREY BEDDED CHERT (3) Bedding 55° to C.A. Bedded Po, py and minor M shaped folding. The chert section contains 3 V.G.. These V.G. have 2-3 specks of V.G. occur at 1802, 1803.3 and 1804.45.	V.G. at 1802, 1803.3 + 1804.45. 10% po, py combined and 1% cpy					
1805.0	1857.0	CHLORITE ALTERATION ZONE (5) Fine to medium grained, dark green in colour. Maybe originally an ultramafic - mafic tuff. The first 20' have little in the way of quartz veining, quartz-carb. veins or mineralization. 1827.0 - 1852.0: Has about 5-6" of quartz and quartz-carb. veining per 5' interval. 5-7% po, py and 1% cpy. Foliation 65° to C.A. Minor talc carb. and actinolite-tremolite in places in the chlorite zone. V.G. occurs in quartz veins at 1844 - 1 speck, 1845.2 - 2 specks, and 1855.5 - 1 speck.	5-7% po, py, 1% cpy V.G. at 1844, 1845.2 and 1855.5.					
1857.0	1910.0	FINE TO MEDIUM GRAINED, LIGHT GREEN TALC-CARBONATE (6a) Minor actinolite-tremolite rich sections (6b) The talc-carbonate contains about 3"-4" of quartz veining per 5', as well as minor quartz-carbonate stringers. Mineralization consist of po, py and cpy which are mainly restricted to these quartz veins, however, minor amounts can be found in the quartz carbonate stringers. Bi and chlorite alteration are present adjacent to the quartz veins, while bi alteration is absent elsewhere and chlorite can be found to a minor degree throughout. 1900.0 - 1910.0: 50% chlorite alteration and 50% talc-carb. Large quartz veins occur at: 1871.0: 6" vein with minor sulfides, 2 specks V.G. 1875.0: 4" vein with 10% sulfides. 1881.2: 6" vein with 20% sulfides 1884.0: 6" vein with 10 - 15% sulfides 1885.0: 3" vein with minor sulfides. 1887.0 2" vein with minor sulfides	5% po, py combined + ½-1% cpy 1871 - 2 spks V.G. 1894 - 3 spks V.G.					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS				
1857.0	1910.0	CONTD.										
		1894.0: 8" vein with 30-40% sulfides, 3 specks V.G.										
		1895.0: 3" vein with minor sulfides.										
1910.0	1957.0	COARSE GRAINED, DARK GREEN GABBROIC TEXTURED ULTRAMAFIC ROCK (6c) The rock consist mainly of a mush of pyroxene grains which are upto ¼" in diameter. The whole section is weakly magnetic. Chlorite alteration is moderately developed throughout. Minor quartz carbonate veinlets. No quartz veining and only tr mineralization which is po.										
	1957.0	END OF HOLE										

TROPARI	DIP.	AZ.
300'	58°	175°
700'	49°	174°
1100'	46°	176°
1530'	43°	182°

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE	211 + 00 NORTH	STARTED	7th September, 1975	200'	59°	800'	47½°	1400'	44°
HOLE NO.	DLO- 38 - 81	DEPARTURE	188 + 00 EAST	FINISHED	20th September, 1975	400'	53°	1000'	44½°	1600'	42½°
BEARING	180°	ELEVATION		LENGTH	1780 FEET	600'	51°	1200'	44½°		
DIP-COLLAR	- 60°	SECTION		LOGGED BY	A. Jackson BABU GAJARIA						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS AU.	ASSAYS Ag.	ASSAYS Cu.	
				A16891	49.0	54.0	5.0	T			
0	49.0	CASING		A16892	54.0	59.0	5.0	T			
				A16893	94.0	99.0	5.0	T			
49.0	52.2	FELSICTUF F (4c)		A16894	112.0	117.0	5.0	N			
		Buff brown in colour, siliceous, biotite rich, bedded and schistose.	¼% po, trcpy	A16895	135.0	140.0	5.0	N			
		Bedding/C.A. angle is 70°.		A16896	140.0	145.0	5.0	N			
		49.3: ½" quartz vein, 5% po, 5% cpy		A16897	150.0	155.0	5.0	T			
				A16898	200.0	205.0	5.0	T			
52.2	196.0	MAFIC TOI INTERMEDIATE LAVA FLOW (1a to 2a)		A16899	205.0	210.0	5.0	T			
		Green in colour, fine grained, schistose in places. Characteristic is		A16900	210.0	215.0	5.0	T			
		the fine grained nature. Quartz veins average 1¼"/10' section. Sulfide		A16901	215.0	220.0	5.0	T			
		mineralisation is localised within quartz and $CO_3^=$ veins only.		A16902		VOID					
		55.5: 3/4" quartz carbonate vein - po and py		A16903	220.0	225.0	5.0	T			
		97.6: 1" quartz vein - 80% po		A16904	225.0	230.0	5.0	T		.012	
		114.6: 1" quartz vein - 30% po		A16905	230.0	235.0	5.0	T		.01	
		137.0: 1¼" quartz vein - 10% po, ½% py		A16906	235.0	240.0	5.0	T		.03	
		140.7: 2" quartz vein - blebs of po		A16907	240.0	245.0	5.0	T			
		150.8: 1" po rich zone		A16908	245.0	250.0	5.0	T			
		152.4: ¼" quartz vein - po and tr cpy		A16909	250.0	255.0	5.0	T			
		167.6: ¼" quartz vein - po and tr cpy		A16910	255.0	260.0	5.0	T			
		172.4 - 175.3: FELSIC TUFF (4c)		A16911	260.0	265.0	5.0	N			
		Purple grey in colour, siliceous, well bedded	¼% po, ¼% py	A16912	265.0	270.0	5.0	N			
		Bedding/C.A. angle is 60°.		A16913	270.0	275.0	5.0	N			
				A16914	275.0	280.0	5.0	T			
196.0	302.2	INTERMEDIATE LAVA FLOW (2a)+some felsic Agglomerate (4b)		A16915	360.0	365.0	5.0	T			
		Gradational contact with above. Light green in colour, siliceous,		A16916	439.0	444.0	5.0	T			
		contains occasional felsic fragment - the rock can probably be corre-	1% po, ¼% cpy	A16917	444.0	449.0	5.0	T			
		latable with felsic agglomerate in d.d.h. 38-79. (566'-677'). The		A16918	449.0	454.0	5.0	T			
		felsic fragments are fewer in no. than 38-79, some po and cpy blebs		A16919	454.0	459.0	5.0	T			
		can be seen within these fragments.		A16920	470.0	475.0	5.0	.010			
		200.0: Quartz pod, po and cpy		A16921	475.0	480.0	5.0	T			
		201.9: 2, ½" quartz veins, po		A16922	480.0	485.0	5.0	.019			V.G.
		207.5: Carbonate pod - po and cpy		A16923	485.0	490.0	5.0	.025			
		211.0: 3" quartz vein - po and cpy		A16924	490.0	495.0	5.0	.083			V.G.
		211.8: 3/4" quartz vein - 10° C.A. - po and cpy		A16925	495.0	500.0	5.0	.013			
		215.5: Felsic fragment - blebs of po and cpy		A16926	500.0	505.0	5.0	T			
		236.0: 6" section - felsic agglomerate with po		A16927	505.0	510.0	5.0	T			
		and cpy blebs		A16928	510.0	515.0	5.0	.025			
		239.0 - 241.0: 3, ¼" quartz veins, po and cpy		A16929	515.0	520.0	5.0	.030			
		245.2: ½" quartz vein, po and tr cpy		A16930	540.0	545.0	5.0	N			

REGISTERED PROFESSIONAL ENGINEER
P. J. MAINCOTT
PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	
				A16931	545.0	550.0	5.0	T			
196.0	302.2	CONTD.		A16932	550.0	555.0	5.0	.010			
		248.0: Quartz vein - po and cpy		A16933	555.0	560.0	5.0	.005			
		263.7: Felsic vein - po and cpy		A16934	560.0	565.0	5.0	.020			
		265.8: $\frac{1}{4}$" quartz pod - po and cpy		A16935	565.0	570.0	5.0	T			
		266.3: $\frac{1}{2}$" quartz vein - po and cpy		A16936	570.0	575.0	5.0	T			
		270.4: 1 tiny speck of V.G. assoc. with po and cpy blebs within country rock, no quartz vein.	1 speck of V.G.	A16937	575.0	580.0	5.0	.005			
				A16938	580.0	585.0	5.0	.035			
		296.5 - 302.2: MAFIC DYKE (1) Feldspar matrix - med. to coarse grained amphiboles occupy 70% of the rock.		A16939	585.0	590.0	5.0	T			
				A16940	590.0	595.0	5.0	T			
				A16941	595.0	600.0	5.0	T			
				A16942	600.0	605.0	5.0	T			
302.2	436.0	MAFIC LAVA FLOW (1a)		A16943	605.0	610.0	5.0	.070			V.G.
		Gradational contact with above, grey-green in colour, very fine grained $CO_3^=$ needles surround amphibole grains. Quartz veins average $1\frac{1}{4}$"/10' section.	tr sulfides	A16944	610.0	615.0	5.0	T			
				A16945	625.0	630.0	5.0	T			
				A16946	630.0	635.0	5.0	.010			
		322.4 - 326.5: Mafic Dyke (1) Medium grained, essentially composed of amphiboles.		A16947	635.0	640.0	5.0	T			
				A16948	640.0	645.0	5.0	T			
			tr sulfides	A16949	645.0	650.0	5.0	.020			
		363.5: Po, cpy blebs assoc. with $CO_3^=$ veinlets.		A16950	660.0	665.0	5.0	.010			
				A16951	705.0	710.0	5.0	T			
436.0	510.0	MAFIC AND INTERMEDIATE TUFF (1c + 2c)		A16952	710.0	715.0	5.0	N			
		Gradational contact with above. Grey-green in colour, fine grained, schistose. Characteristically contains $CO_3^=$ blebs and veinlets, biotite rich in places. Quartz veins average 2"/10' section.		A16953	715.0	720.0	5.0	N			
			Tr py and po	A16954	720.0	725.0	5.0	.005			
				A16955	750.0	755.0	5.0	T			
		441.8: Felsic blebs and veinlets containing po & cpy		A16956	755.0	760.0	5.0	T			
		450.8: $\frac{1}{4}$" quartz vein, po and cpy		A16957	760.0	765.0	5.0	T			
		454.4: $\frac{1}{4}$" quartz vein, py and tr cpy		A16958	765.0	770.0	5.0	T			
		481.4: $\frac{1}{2}$" quartz $CO_3^=$ vein, 10° C.A., po, py cpy and 1 speck of V.G.	1 speck of V.G.	A16959	800.0	805.0	5.0	T			
				A16960	805.0	810.0	5.0	T			
		489.7: $\frac{1}{4}$" quartz vein, 10° C.A. - po, py, cpy		A16961	810.0	815.0	5.0	T			
		494.9: $\frac{1}{2}$" quartz vein, po, py, cpy + 2 specks V.G.	2 specks of V.G.	A16962	815.0	820.0	5.0	T			
		496.3: $\frac{1}{2}$" quartz vein, po, py and cpy		A16963	820.0	825.0	5.0	T			
		496.0: Schistosity/C.A. angle is 58°.		A16964	825.0	830.0	5.0	N			
				A16965	830.0	835.0	5.0	N			
510.0	654.8	INTERMEDIATE TUFF (2c)		A16966	835.0	840.0	5.0	N			
		Gradational contact with above. Charac. shows heavy biotization and $CO_3^=$ blebs and veinlets. Well bedded and schistose. In places it is mafic in comp.	3/4% py, $\frac{1}{2}$% po, tr cpy	A16967	840.0	845.0	5.0	N			
				A16968	845.0	850.0	5.0	N			
				A16969	850.0	855.0	5.0	N			
		510.0 - 511.0: 2, $\frac{1}{2}$" carbonate veins, po and py		A16970	855.0	860.0	5.0	N			
		511.7: $\frac{1}{4}$" quartz vein, 10° C.A. po, py		A16971	860.0	865.0	5.0	T			
		514.8: 8" carbonate vein - po and tr cpy		A16972	865.0	870.0	5.0	T			
		517.0: $\frac{1}{2}$" quartz $CO_3^=$ vein - po and cpy		A16973	870.0	875.0	5.0	T			
		518.0 - 520.0: 12, $\frac{1}{2}$" quartz veins, po, py and cpy		A16974	875.0	880.0	5.0	.035			
		524.0: $\frac{1}{2}$" quartz vein, po and py		A16975	895.0	900.0	5.0	T			
		541.0: $\frac{1}{2}$" quartz vein, po and tr cpy		A16976	920.0	925.0	5.0	.010			
		557.0: 3/4" quartz vein, po and cpy		A16977	940.0	945.0	5.0	T			
		564.1: $\frac{1}{2}$" quartz vein, po and tr cpy		A16978	990.0	995.0	5.0	T			
		566.0: $\frac{1}{2}$" quartz vein, po and tr cpy		A16979	995.0	1000.0	5.0	.273			V.G.
		578.8: $\frac{1}{2}$" quartz vein, po		A16980	1000.0	1005.0	5.0	T			
		581.4: 3/4" quartz vein, po and cpy		A16981	1345.0	1350.0	5.0	T			
		603.4: 3/4" quartz vein, po & cpy + 3 specks V.G.	3 specks V.G.	A16982	1350.0	1355.0	5.0	T			
		626.8: $\frac{1}{4}$" quartz vein, po, cpy and py		A16983	1355.0	1360.0	5.0	T			
		645.6: $\frac{1}{2}$" quartz vein, po and cpy		A16984	1360.0	1365.0	5.0	T			

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

PROPERTY DETOUR LAKE HOLE NO. DLO - 38 - 81 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.		
				A16985	1365.0	1370.0	5.0	.015				
684.8	688.3	MAFIC TUFF (1c)		A16986	1370.0	1375.0	5.0	.010				
		Grey-green in colour, well bedded and schistose, heavy biotization.	$\frac{1}{3}$% po	A16987	1375.0	1380.0	5.0	T				
		Quartz veins average $1\frac{1}{4}$"/10' section.		A16988	1380.0	1385.0	5.0	T				
		655.0: Schistosity/C.A. angle is 65°		A16989	1385.0	1390.0	5.0	T				
		662.6: $\frac{1}{2}$" quartz vein, po and py		A16990	1390.0	1395.0	5.0	T				
		676.4: 3/4" quartz vein po.		A16991	1395.0	1400.0	5.0	.020				
				A16992	1400.0	1405.0	5.0	.035				
688.3	802.0	MAFIC LAVA FLOW (1a)		A16993	1405.0	1410.0	5.0	.025				
		Grey-green in colour, amphibolised, biotite rich in places. Quartz veins	$\frac{1}{2}$% po, $\frac{1}{4}$% py	A16994	1410.0	1415.0	5.0	T				
		average $1\frac{1}{2}$"/10' section.		A16995	1415.0	1420.0	5.0	T				
		705.5: $\frac{1}{2}$" quartz vein - po and cpy		A16996	1420.0	1425.0	5.0	T				
		724.2: 3/4" quartz vein - po and tr cpy		A16997	1425.0	1430.0	5.0	.040				
		755.5: $\frac{1}{2}$" quartz vein - po and py		A16998	1430.0	1435.0	5.0	.015				
		767.6 - 768.0: Quartz veins and country rock - po and cpy		A16999	1435.0	1440.0	5.0	.015				
		786.7 - 792.7: Core ground.		A17000	1440.0	1445.0	5.0	T				
		796.5: $\frac{1}{4}$" quartz vein - po.		A17001	1445.0	1450.0	5.0	T				w/core
				A17002	1450.0	1455.0	5.0	T				"
802.0	879.5	INTERMIXED INT. TO MAFIC LAVA FLOW (2a + 1a)		A17003	1455.0	1460.0	5.0	.01				"
		It is charac. rich in biotite, with intercalated unaltered light green int.	1% po, $\frac{1}{2}$% py	A17004	1460.0	1465.0	5.0	T				"
		flow units. The rock is tuffaceous in places. Contains po blebs.	tr cpy	A17005	1465.0	1470.0	5.0	.025				"
		802.0: $\frac{1}{2}$" quartz vein, 20° C.A. - po and cpy		A17006	1470.0	1475.0	5.0	.015				"
		810.6 - 813.8: Felsic tuff (4c)		A17007	1475.0	1480.0	5.0	.035				
		Purple grey in colour, highly siliceous, bedded		A17008	1480.0	1485.0	5.0	.245				
		medium grained quartz fragments.		A17009	1485.0	1490.0	5.0	.045				
		816.0: 2" quartz vein - po and py		A17010	1490.0	1495.0	5.0	T				
		848.4: $1\frac{1}{4}$" quartz vein - po and cpy.		A17011	1495.0	1500.0	5.0	T				
				A17012	1500.0	1505.0	5.0	.015				
879.4	1640.0	MAFIC LAVA FLOW (1a)		A17013	1505.0	1510.0	5.0	.010				
		Grey-green in colour, amphibolized, schistose. Quartz veins average		A17014	1510.0	1515.0	5.0	.035				
		$1\frac{1}{4}$"/10' section.		A17015	1515.0	1520.0	5.0	.025				
		875.1: 1" quartz vein, po and cpy		A17016	1520.0	1525.0	5.0	T				
		876.0: Schistosity/C.A. angle is 60°		A17017	1525.0	1530.0	5.0	T				
		896.3: $\frac{1}{2}$" quartz vein, po and tr cpy		A17018	1530.0	1535.0	5.0	T				
		923.1: 1" quartz vein, po and tr cpy		A17019	1535.0	1540.0	5.0	T				
		941.2: $2\frac{1}{2}$" quartz vein, po and cpy		A17020	1540.0	1545.0	5.0	.025				w/core
		943.1: 1" quartz vein, po and cpy.		A17021	1545.0	1550.0	5.0	.021				"
		Foliation developed at 30° - 40°.		A17022	1550.0	1555.0	5.0	.030				"
		997.5: 2" quartz vein, good po, cpy, 1 speck V.G.	1 speck V.G.	A17023	1555.0	1560.0	5.0	T				"
		998.0 - 1345.0: virtually no quartz veins, or 1/15-20';		A17024	1560.0	1565.0	5.0	T				"
		1050.0 - 1052.5: Felsic dike		A17025	1565.0	1570.0	5.0	T				"
		1035.0 - 1075.0: Fine grained		A17026	1570.0	1575.0	5.0	.160			V.G.	"
		1192.0 - 1196.0: Ground core		A17027	1575.0	1580.0	5.0	.03				"
		1260.0 - 1264.0: Int. flow? grades down into "mafic dike".		A17028	1580.0	1585.0	5.0	T				"
		1264.0 - 1268.0: Mafic "Dike" dark grey - black, mod.		A17029	1585.0	1590.0	5.0	.005				
		biotitic, 1-2% diss. py		A17030	1590.0	1595.0	5.0	.010				
		1285.0 - 1308.0: Becomes slightly - mod. biotitic,		A17031	1595.0	1600.0		GROUND CORE, NO SAMPLE				
		foliated at 30°.		A17032	1600.0	1605.0	5.0	T				
		1345.0 - 1368.0: Quartz vein increases to 1-3/5', $\frac{1}{4}$"-2"		A17033	1605.0	1610.0	5.0	.030				
		1345.0 - 1368.0: Mainly po with the quartz vein.		A17034	1610.0	1615.0	5.0	.055				
				A17035	1615.0	1620.0	5.0	.06				
				A17036	1620.0	1625.0	5.0	.040		.12		
				A17037	1625.0	1630.0	5.0	.010		.04		
				A17038	1630.0	1635.0	5.0	.015		.05		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.		
				A17039	1635.0	1640.0	5.0	.022		.18		w/core
				A17040	1640.0	1645.0	5.0	.02		.16		"
879.4	1640.0	CONTD.		A17041	1645.0	1650.0	5.0	T		.17		"
		1368.0 - 1390.0: 1-2% po, minor cpy along quartz vein, and in stringers, increasing to 3-4% from 1390.0 - 1445, mainly in stringes and along fractures; quartz vein decrease to 1/5'.	1-2% po, cpy	A17042	1650.0	1655.0	5.0	1.154		.43	V.G.	"
				A17043	1655.0	1660.0	5.0	.086	.45 unc	.33	V.G.	"
			3-4% po, cpy	A17044	1660.0	1665.0	5.0	.09	0.40 cut	.22		"
				A17045	1665.0	1670.0	5.0	.218	35'	.26	V.G.	"
		1418.5 - 1424.5: Felsic tuff, minor po		A17046	1670.0	1675.0	5.0	.400		.53		"
		1445.0 - 1490.0: Sulfides occur in both quartz vein and stringers, increasing to 5% mainly po, with minor py, cpy. Quartz vein increase to 2-3/5', usually $\frac{1}{4}$" - 2".		A17047	1675.0	1680.0	5.0	.015		.04		"
			5% po, minor py cpy	A17048	1680.0	1685.0	5.0	1.217		.45	V.G.	"
				A17049	1685.0	1690.0	5.0	.01				
				A17050	1690.0	1695.0	5.0	.02				
		1490.0 - 1521.0: Quartz vein decrease to 1-2/5', with po, minor cpy - 2-3% po, minor cpy		A17051	1695.0	1700.0	5.0	.045	.34 cut			
			2-3% po, cpy	A17052	1700.0	1705.0	5.0	.52	60'			
		1493.0 - 1510.0: numerous quartz-carb. "eyes" or vug fillings		A17053	1705.0	1710.0	5.0	.655				
		1521.0 - 1540.0: 1 quartz vein/5', 1-2% po, cpy	1-2% po, cpy	A17054	1710.0	1715.0	5.0	.10				
		1537.0 - 1540.0: numerous quartz-carb. "eyes"		A17055	1715.0	1720.0	5.0	.095				
		1540.0 - 1585.0: quartz vein increase to 2-3/5', with 2-3% po, minor cpy associated.		A17056	1720.0	1725.0	5.0	.04				
				A17057	1725.0	1730.0	5.0	.045				
		1573.5 - 1574.0: 6" quartz vein, 5% po, cpy and 2 lenses V.G.	2 lenses V.G.	A17058	1730.0	1735.0	5.0	.105				
		1585.0 - 1620.0: Quartz vein decreases to 1-2/5', sulfide decrease to 1-2%.		A17059	1735.0	1740.0	5.0	.165		.66		w/core
			1-2% po, py, cpy	A17060	1740.0	1745.0	5.0	.14		.30	V.G.	"
		1596.0 - 1602.0: Ground core		A17061	1745.0	1750.0	5.0	.125				
		1620.0 - 1640.0: Po, py, minor cpy increasing in fractures and stringers and also along quartz vein which average 2/5', most $\frac{1}{2}$"-1".		A17062	1750.0	1755.0	5.0	.04				
				A17063	1755.0	1760.0	5.0	.030				
				A17064	1760.0	1765.0	5.0	.020				
		3-5% po, py, cpy.	3-5% po, py, cpy	A17065	1765.0	1770.0	5.0	.07				
		1637.0 - 1640.0: Sulfide increases to 5-7%.	5-7% po, py, cpy									
1640.0	1665.5	INTERMEDIATE TUFF (Mineralized zone)										
		Fine grained, med. brown-green, mod.-highly biotitic, foliation developed at 70°, 1$\frac{1}{2}$'-2' of quartz /5', usually in 2 or 3 veins, 5-10% po, py, 1:1, with $\frac{1}{8}$% cpy along quartz vein and as stringers and blebs. py occurs as large $\frac{1}{4}$" - $\frac{1}{2}$" crystals.	5-10% po, py, $\frac{1}{8}$% cpy									
		1652.8 - 1655.0: 1' quartz vein, with po, py, cpy and 10 specks of V.G.	10 specks V.G.									
		1659.5 - $\frac{1}{2}$" quartz vein, 1 speck V.G.	1 speck V.G.									
1665.5	1671.0	CHERTY FELSIC TUFF										
		Fine grained, dark grey, mod.-well bedded at 70°.										
		1667.2: $\frac{1}{2}$" quartz vein, with 1 speck V.G.	1 speck V.G.									
		1667.5:- 1671.0: numerous quartz lapilli, $\frac{1}{2}$" - 2", in diam. surrounded by po, py and cpy. 15% po, py, 1% cpy	15% po, py, cpy									
1671.0	1681.5	MAFIC FLOW										
		Fine-medium grained, med. dark green, mod.-chloritic. 2-3 narrow, 1/8" quartz veins /5', with po, py, minor cpy.										
		1672.0 - 1672.4: 3" quartz vein with py, cpy.										

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1681.5	1687.0	CHERTY FELSIC TUFF						
		Dark grey, poorly bedded at 80°						
		1682.5 - 1683.5: 1' of quartz, with po, cpy.						
		6-10 flakes and specks of V.G.	6-10 V.G.					
1687.0	1693.0	CHLORITE ALTERATION						
		Medium green, highly chloritic, foliated at 45-50°.						
		1% po, cpy in flakes and stringers.						
1693.0	1780.0	TALC-CARBONATE						
		Dark green, highly altered to talc-carb. slightly chloritic, quite massive						
		occ. blebs po, cpy.						
		1720.0 - 1721.0: Ground core						
		1727.0 - 1729.0: Ground core						
		1734.5 - 1738.0: High quartz with 5% po, cpy stringers						
		1737: 1 speck VG.	1 speck V.G.					
		1740.0 - 1742.0: Predom., quartz with 5% po, cpy						
		1742.0: Becoming quite tremolitic.						
		1770.0 - 1780.0: Cherty felsic tuff.						
		Medium grey, well bedded at 45-50°, upper						
		3' cherty, remainder felsic. No sulfides.						
	1780.0	END OF HOLE						

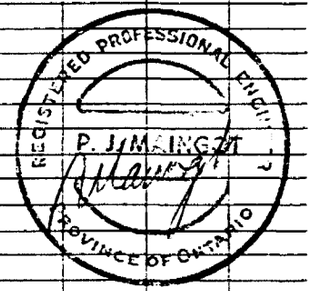
AMOCO CANADA PETROLEUM COMPANY LTD. - MINING DIVISION - DIAMOND DRILL HOLE RECORD

PROPERTY	DETOUR LAKES	LATITUDE	190+ 00 N	STARTED	JULY 14th, 1975
HOLE NO.	DLO - 38 - 56	DEPARTURE	192 + 00 E	FINISHED	JULY 17th, 1975
BEARING	180°	ELEVATION		LENGTH	617'
DIP-COLLAR	-45°	SECTION		LOGGED BY	BABU GAJARIA

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	43°				
400'	32°				
600'	29°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
				A10601	40.0	45.0	5.0	T			
0	40.0	CASING		A10602	45.0	50.0	5.0	T			
				A10603	50.0	55.0	5.0	T			
40.0	41.1	INTERMEDIATE TUFF (2c)		A10604	55.0	60.0	5.0	T			
		Fine grained, light grey in colour, well bedded and schistose, sharp	No sulphides	A10605	60.0	65.0	5.0	T			
		contact with mafic tuff below. Bedding/core axis angle is 35°.		A10606	65.0	70.0	5.0	N			
				A10607	70.0	75.0	5.0	N			
41.1	330.1	MAFIC TUFF: (1c)		A10608	75.0	80.0	5.0	N			
		Fine grained, grey green in colour, thinly bedded, containing character-		A10609	80.0	85.0	5.0	T			
		istic carbonate veinlets which lie parallel to the schistosity.		A10610	85.0	90.0	5.0	T			
		45.0: Schistosity /core axis angle is 40°.		A10611	90.0	95.0	5.0	T			
		54.1 - 87.0: INTERMIXED MAFIC FLOW & TUFF(1a+1c)		A10612	95.0	100.0	5.0	T			
		Light grey green in colour, amphibolised,	Trace diss. py	A10613	100.0	105.0	5.0	.02			
		schistose, chloritic at the north contact.		A10614	105.0	110.0	5.0	T			
		Schistosity/core axis angle is 40°.		A10615	110.0	115.0	5.0	T			
		87.0 - 102.5: INTERMEDIATE TUFF (2c)		A10616	115.0	120.0	5.0	N			
		Light purple grey in colour, well schistose	½% diss. py	A10617	120.0	125.0	5.0	N			
		and bedded, bedding/core axis angle is 60°.		A10618	125.0	130.0	5.0	N			
		188.0 - 189.9: INTERMEDIATE TUFF (2c)		A10619	130.0	135.0	5.0	N			
		Light brown in colour, heavy biotization.		A10620	135.0	140.0	5.0	T			
		Well bedded and schistose.		A10621	140.0	145.0	5.0	T			
		Bedding/core axis angle is 40°		A10622	145.0	150.0	5.0	T			
				A10623	150.0	155.0	5.0	T			
330.1	338.1	INTERMEDIATE TUFF (2c)		A10624	155.0	160.0	5.0	N			
		Light purple grey in colour, well bedded and schistose, alternation of	tr py	A10625	160.0	165.0	5.0	N			
		biotite. Carbonate and chlorite rich bands. Bedding/core axis angle 75°.		A10626	165.0	170.0	5.0	N			
				A10627	170.0	175.0	5.0	N			
338.1	343.3	CHLORITE ALTERATION ZONE (5b)		A10628	175.0	180.0	5.0	N			
		Dark green chlorite alteration zone, well developed Schistosity.		A10629	180.0	185.0	5.0	N			
		Contains some intermixed intermediate tuff.	½% Py	A10630	185.0	190.0	5.0	N			
				A10631	190.0	195.0	5.0	N			
343.3	346.0	FELSIC DYKE: (4a)		A10632	195.0	200.0	5.0	T			
		Purple green in colour, massive and siliceous, sharp contact to the	tr py	A10633	200.0	205.0	5.0	T			
		north with intermediate tuff.		A10634	205.0	210.0	5.0	T			
				A10635	210.0	215.0	5.0	T			
346.0	347.0	MAFIC TUFF (1c)		A10636	215.0	220.0	5.0	T			
		Dark grey in colour, rich in biotite and sericite.	tr py	A10637	220.0	225.0	5.0	N			
				A10638	225.0	230.0	5.0	N			
				A10639	230.0	235.0	5.0	N			
				A10640	235.0	240.0	5.0	N			



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
				A10641	240.0	245.0	5.0	N			
347.0	356.4	MAIN CONDUCTOR		A10642	245.0	250.0	5.0	N			
		The main conductor is extremely siliceous, it contains graphite and	5% py, 4% po	A10643	250.0	255.0	5.0	N			
		mostly pyrrhotite and pyrite, the sulphides show good flow features and	¼% cpy, ¼% sphalerite	A10644	255.0	260.0	5.0	T			
		show rheomorphic folding.		A10645	260.0	265.0	5.0	T			
		354.0 - 355.0:	10% po; 6%py; 1%cpy, ½%sph	A10646	265.0	270.0	5.0	T			
				A10647	270.0	275.0	5.0	T			
356.4	358.0	INTERMEDIATE TUFFITE : (2c)		A10648	275.0	280.0	5.0	T			
		Intermixed sedi. and tuffs. Light green to brown in colour.	tr py	A10649	280.0	285.0	5.0	N			
				A10650	285.0	290.0	5.0	N			
358.0	381.8	MAFIC FLOW (1a)		A10651	290.0	295.0	5.0	N			
		Light green in colour, characteristically contains numerous carbonate		A10652	295.0	300.0	5.0	N			
		blebs, occasional quartz veinlet. Well schistose and amphibolised.		A10653	300.0	305.0	5.0	N			
				A10654	305.0	310.0	5.0	N			
381.8	398.2	INTERMEDIATE TUFFITE (2c)		A10655	310.0	315.0	5.0	N			
		Light green to brown in colour, well bedded and schistose, contains	½% diss. py	A10656	315.0	320.0	5.0	N			
		biotite and chlorite rich zones.		A10657	320.0	325.0	5.0	N			
		390.1 - 395.5: Chlorite rich zone.		A10658	325.0	330.0	5.0	N			
		Light green in colour, heavily chloritized.		A10659	330.0	335.0	5.0	N			
		No sulphides.		A10660	335.0	340.0	5.0	N		.01	.02
				A10661	340.0	345.0	5.0	N		.01	.02
398.2	458.1	INTERMEDIATE TUFF (2c)		A10662	345.0	350.0	5.0	N		.02	.03
		Light buff brown in colour, well bedded, contains carbonate blebs.	tr diss py	A10663	350.0	355.0	5.0	T	.06	.04	.28
		At the south end the rock has a porphyrytic texture, this is due to the fine		A10664	355.0	360.0	5.0	T	.03	.02	.04
		grained 'crystals' of quartz, however the rock shows good bedding		A10665	360.0	365.0	5.0	N		.012	.006
		features and is a tuff.		A10666	365.0	370.0	5.0	N			
		455.6 - 456.4: Quartz carbonate vein - barren.		A10667	370.0	375.0	5.0	N			
				A10668	375.0	380.0	5.0	N			
458.1	462.0	FELSIC TUFF (4c)		A10669	380.0	385.0	5.0	N			
		Light purple grey in colour, characteristically. Contains sericite bands		A10670	385.0	390.0	5.0	N			
		and blue quartz eyes. Highly siliceous.		A10671	390.0	395.0	5.0	N			
				A10672	395.0	400.0	5.0	N			
462.0	520.0	INTERMEDIATE TO MAFIC FLOW (2a to 1a)		A10673	400.0	405.0	5.0	N			
		Light green in colour, rich in biotite and chlorite in places. The rock is	tr diss py	A10674	405.0	410.0	5.0	N			
		extremely fine grained, and gives an overall massive appearance. Some		A10675	410.0	415.0	5.0	N			
		small foot sections show fine grained fragments and are tuffaceous, while		A10676	415.0	420.0	5.0	N			
		others exhibit slump features of a sediment. The rock contains		A10677	420.0	425.0	5.0	N			
		numerous carbonate blebs.		A10678	425.0	430.0	5.0	N			
		504.1 - 504.5: Quartz carbonate vein, containing a few		A10679	430.0	435.0	5.0	N			
		crystals of epidote, chlorite and potassium		A10680	435.0	440.0	5.0	N			
		feldspar.		A10681	440.0	445.0	5.0	N			
		505.3 - 506.0: Quartz carbonate vein, containing chlorite		A10682	445.0	450.0	5.0	N			
		and k-feldspar.		A10683	450.0	455.0	5.0	N			
				A10684	455.0	460.0	5.0	N			
520.0	617.0	INTERMEDIATE TUFFITE: (2c)		A10685	460.0	465.0	5.0	N			
		Intermixed tuffs and sediments. Light buff brown in colour, characteristi-		A10686	465.0	470.0	5.0	N			
		cally contains carbonate veinlets which show ptygmatic type of folding.		A10687	470.0	475.0	5.0	N			
		The rock is thinly bedded, with development of fine grained crystals of		A10688	475.0	480.0	5.0	N			
		garnets. The rock is thinly bedded and may originally have been a		A10689	480.0	485.0	5.0	N			
		siltstone. No sulphides.		A10690	485.0	490.0	5.0	N			
				A10691	490.0	495.0	5.0	N			
				A10692	495.0	500.0	5.0	N			
	617.0	END OF HOLE									

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

PROPERTY DETOUR LAKES HOLE NO. DLO-38 - 56 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
				A10693	500.0	505.0	5.0	N			
				A10694	505.0	510.0	5.0	N			
				A10695	510.0	515.0	5.0	N			
				A10696	515.0	520.0	5.0	N			
				A10697	520.0	525.0	5.0	N			
				A10698	525.0	530.0	5.0	N			
				A10699	530.0	535.0	5.0	N			
				A10700	535.0	540.0	5.0	N			
				A10701	540.0	545.0	5.0	N			
				A10702	545.0	550.0	5.0	N			
				A10703	550.0	555.0	5.0	N			
				A10704	555.0	560.0	5.0	N			
				A10705	560.0	565.0	5.0	N			
				A10706	565.0	570.0	5.0	N			
				A10707	570.0	575.0	5.0	N			
				A10708	575.0	580.0	5.0	N			
				A10709	580.0	585.0	5.0	N			
				A10710	585.0	590.0	5.0	N			
				A10711	590.0	595.0	5.0	N			
				A10712	595.0	600.0	5.0	N			
				A10713	600.0	605.0	5.0	N			
				A10714	605.0	610.0	5.0	N			
				A10715	610.0	615.0	5.0	N			
				A10716	615.0	617.0	2.0	N			

TROPARI

	AZ.	DIP.
300'	178°	58°
600'	182½°	55°
950'	184½°	52°

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

PROPERTY	DETOUR LAKES	LATITUDE	213 + 50 NORTH	STARTED	September 3rd, 1975
HOLE NO.	DLO-38 - 79	DEPARTURE	202 + 00 EAST	FINISHED	September 13th, 1975
BEARING	180°	ELEVATION		LENGTH	1407 FEET
DIP-COLLAR	-55°	SECTION		LOGGED BY	BABU GAJARIA

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	58°	800'	51°		
400'	55°	1000'	50°		
600'	54°	1200'	50°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	120.0	CASING	
120.0	258.4	INTERMEDIATE LAVA FLOW (2a)	
		Light grey-green in colour, siliceous, characteristically shows numerous criss-cross hairline fractures infilled by quartz. Some intercalated amphibolised int. to mafic flow is present.	
		Quartz veins average 1"/10' section. Some k-feldspar veinlets.	
		135.0: Schistosity/C.A. angle is 60°	
		141.0: ⅓" quartz vein - diss. py	
		193.7: 1½" quartz vein - diss. py	
		195.6: 1½" quartz vein - diss. py	
258.4	274.7	INTERMEDIATE TO FELSIC FLOW (2a + 4a)	
		Light purple grey in colour, siliceous, very fine grained non schistose.	tr sulfides
		Quartz veins average 1"/10' section.	
		267.7: 3/4" quartz vein - diss. py	
		271.9: ½" quartz vein - diss. po.	
274.7	391.6	INTERMEDIATE TUFFS AND FLOWS (2c + 2a)	
		Light grey-green in colour, characteristic alternation of felsic (almost cryptocrystalline) and mafic bands. Well schistose, while in places shows evidence of flow banding and flow breccia. Quartz veins average 3/4" every 10' section.	⅓% pyrite
		304.5 - 306.3: Felsic Tuff (4c)	
		Purple grey, siliceous.	¼% cpy
		330.0: Banding/C.A. angle is 65°.	
		337.0: 1" lense - po, cpy, and chlorite	
		345.5: ⅓" lense - po, py and tr cpy with chlorite	
		346.8: 1" lense - po, py and cpy with chlorite	
		362.0: ¼" quartz pod, po, py and cpy associated with quartz and country rock.	
		379.7 - 380.5: Chlorite rich zone, 3% po, with 1" quartz vein, containing diss. pyrite.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.
A8991	139.0	144.0	5.0	T		
A8992	192.0	197.0	5.0	T		
A8993	264.0	269.0	5.0	T		
A8994	269.0	274.0	5.0	T		
A8995	302.0	307.0	5.0	T		
A8996	327.0	332.0	5.0	.010		
A8997	332.0	337.0	5.0	T		
A8998	337.0	342.0	5.0	T		
A8999	342.0	347.0	5.0	T		
A9000	359.0	364.0	5.0	T		
A9301	377.0	382.0	5.0	T		
A9302	439.0	444.0	5.0	N		
A9303	481.0	486.0	5.0	N		
A9304	549.0	554.0	5.0	T		
A9305	560.0	565.0	5.0	N		.001
A9306	565.0	570.0	5.0	N		.003
A9307	570.0	575.0	5.0	.010		.97
A9308	575.0	580.0	5.0	T		.01
A9309	580.0	585.0	5.0	T		
A9310	585.0	590.0	5.0	T		.10
A9311	590.0	595.0	5.0	T		.04
A9312	595.0	600.0	5.0	T		.04
A9313	600.0	605.0	5.0	T		.04
A9314	605.0	610.0	5.0	T		.08
A9315	610.0	615.0	5.0	T		.04
A9316	615.0	620.0	5.0	T		.07
A9317	620.0	625.0	5.0	T		.01
A9318	625.0	630.0	5.0	T		.03
A9319	630.0	635.0	5.0	N		.07
A9320	635.0	640.0	5.0	N		.03
A9321	640.0	645.0	5.0	T		.03
A9322	645.0	650.0	5.0	N		.02
A9323	650.0	655.0	5.0	N		.03
A9324	655.0	660.0	5.0	N		.04
A9325	660.0	665.0	5.0	N		.036
A9326	665.0	670.0	5.0	N		.009
A9327	670.0	675.0	5.0	N		.011
A9328	675.0	680.0	5.0	N		.012
A9329	789.0	794.0	5.0	N		
A9330	903.0	903.0	5.0	N		

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
				A9331	923.0	928.0	5.0	N		
391.6	481.2	MAFIC LAVA FLOW + MAFIC TUFF (1a + 1c)		A9332	944.0	949.0	5.0	N		
		Grey-green in colour, amphibolised, medium grained amphiboles; well developed schistosity. Quartz veins average 3/4"/10' section.	¼% po	A9333	962.0	967.0	5.0	N		
				A9334	975.0	980.0	5.0	T		
		401.7 - 404.4: PYROXENE - AMPHIBOLE RICH FLOWS(6c)		A9335	980.0	985.0	5.0	N		
		Light green in colour, well schistose, with occasional porphyroblasts of pyroxenes within a generally fine grained matrix. The rock has a conformable contact with the mafic flow above, and it is weakly magnetic.		A9336	985.0	990.0	5.0	N		
				A9337	990.0	995.0	5.0	N		
				A9338	995.0	1000.0	5.0	N		
				A9339	1000.0	1005.0	5.0	T		
				A9340	1005.0	1010.0	5.0	N		
		406.9 - 408.3: PYROXENE - AMPHIBOLE RICH FLOWS(6c) Similar to above. Some serpentine.		A9341	1010.0	1015.0	5.0	N		
				A9342	1015.0	1020.0	5.0	N		
		441.0: 1" lense, po rich tr py.		A9343	1020.0	1025.0	5.0	N		
				A9344	1025.0	1030.0	5.0	N		
481.2	529.7	PYROXENE RICH MAFIC - ULTRAMAFIC FLOWS (6c)		A9345	1030.0	1035.0	5.0	N		
		Light green in colour, with well developed schistosity. Coarse grained		A9346	1035.0	1040.0	5.0	T		
		prophyroblasts of pyroxenes, occupy 20% of the rock. The matrix is	tr sulfides	A9347	1040.0	1045.0	5.0	N		
		mafic to ultramafic in composition. Some serpentine is present and the		A9348	1045.0	1050.0	5.0	N		
		rock is weakly magnetic. The rock contains occasional intermediate		A9349	1050.0	1055.0	5.0	T		
		lava bombs - which contain blebs of cpy. No quartz veins.		A9350	1055.0	1060.0	5.0	N		
		490.6 - 507.4: MAFIC LAVA FLOW (1a)		A9351	1060.0	1065.0	5.0	N		
		Light green in colour, med. grained, not schistose.	tr po	A9352	1065.0	1070.0	5.0	N		
				A9353	1110.0	1115.0	5.0	T		
		509.9 - 519.5: MAFIC LAVA FLOW (1a)		A9354	1115.0	1120.0	5.0	T		
		Similar to above.		A9355	1120.0	1125.0	5.0	T		
				A9356	1125.0	1130.0	5.0	T		
529.7	561.6	INTERMEDIATE LAVA FLOW (2a)		A9357	1260.0	1265.0	5.0	.005		
		Light green in colour, siliceous, fine grained, not schistose.	tr sulfides	A9358	1265.0	1270.0	5.0	N		
		Quartz veins average 3/4" / 10' section.		A9359	1270.0	1275.0	5.0	N		
		552.0: ¼" lense, po and cpy blebs.		A9360	1275.0	1280.0	5.0	N		
				A9361	1280.0	1285.0	5.0	T		
561.6	566.3	INTERMEDIATE FLOW (2a)		A9362	1285.0	1290.0	5.0	T		
		Light purple grey in colour, fine grained, medium to fine grained	tr sulfides	A9363	1375.0	1380.0	5.0	T		
		porphyries.		A9364	1380.0	1385.0	5.0	T		
				A9365	1385.0	1390.0	5.0	T		
566.3	677.0	INTERMEDIATE LAVA FLOW (2a) + FELSIC AGGLOMERATE (4b)		A9366	1390.0	1395.0	5.0	T		
		Light green in colour, siliceous, characteristically contains felsic		A9367	1395.0	1400.0	5.0	N		
		fragments in places, while in others it has developed a strange texture,	¼% cpy, ½% po	A9368	1400.0	1405.0	5.0	T		
		which consists of thin alternating felsic and mafic bands. It also shows		A9369	1405.0	1407.0	2.0	N		
		circular mafic blebs surrounded extinrely by a circular rim of felsics.								
		Some felsic bombs carry po and cpy blebs within them.								
		570.5 - 573.0: 3-4% cpy. 5% po, ½% py, associated with country rock and some silicification presence of felsic fragments around the sulfides.								
		581.4 - 585.3: INT. FLOW (2a)								
		Fine grained mafic matrix, containing medium grained felsic 'fragments' - some have definite crystalline form - the rock is ill sorted and unbedded, has a lithic tuff texture but appears to be a crystalline flow mush.								
		588.8 - 591.8: FELSIC AGGLOMERATE (4b)								
		Large felsic and sulfide bombs - the felsic bombs contain diss. po and cpy.	1% po, ½% cpy							

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

PROPERTY DETOUR LAKES HOLE NO. DLO-38 - 79

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
566.3	677.0	CONT'D.						
		592.5 - 593.2: Quartz vein, diss po and cpy						
		601.2: 1½" quartz vein - po and cpy						
		666.5 - 667.0: Fault gouge - some assoc. serpentine and talc.						
677.0	705.4	INTERMEDIATE LAVA FLOW (2a)						
		Light green in colour, siliceous, fine grained. Quartz veins average 2"/10' section.	tr sulfides					
		693.3 - 693.7: FELSIC DYKE (?) Felsic crystalline mush within fine grained mafic matrix - may represent a fault plane and recrystallisation within a cavity.						
		703.7 - 705.4: Flow breccia.						
705.4	802.0	MAFIC LAVA FLOW (1a)						
		Grey-green in colour, medium grained, amphibolised, moderately schistose. Quartz veins average 1½"/10' section.	tr sulfides					
		Contact/C.A. angle is 55°.						
		730.9: 1" quartz vein, diss. py						
		757.0: 2" quartz vein - barren.						
		782.9 - 794.0: FELSIC TUFF (4c) Purple grey in colour, siliceous bedded, medium grained felsic fragments.	tr sulfides					
802.0	806.3	INT. TO MAFIC FLOW (2a + 1a)						
		Light green in colour, siliceous, fine grained.	tr sulfides					
806.3	994.2	MAFIC LAVA FLOW (1a)						
		Grey-green in colour, moderately schistose, amphibolised.	tr sulfides					
		Quartz veins average 1"/10' section.						
		823.0 - 823.5: Fault - infilled by quartz - diss. py						
		831.0: ½" quartz vein - diss. py						
		846.6 - 847.0: fault infilled by quartz solutions.						
		875.7 - 883.4: INT. LAVA FLOW (2a) Light purple grey in colour, fine grained, siliceous.	½% py					
		880.2 - 880.7: fault infilled by quartz.						
		905.5: Quartz carbonate vein, po and cpy blebs						
		912.4: ½" quartz vein - diss. py						
		925.6: 3/4" quartz vein - blebs of po, tr cpy						
		942.5: 2" felsic dykes? felsic crystalline mush - similar to 693.3.						
		946.1: 1" lense - siliceous, po, py and cpy						
		964.4: ½" quartz vein - po and py.						
[redacted].2	1407.0	SERPENTINIZED ZONE (6)						
		994.2 - 1021.4: GABBROIC TEXTURED - PYROXENITIC (6c) The rock is coarse grained, essentially consists of coarse gr. pyroxene & amphibole crystals. Mod. magnetic, little alter. Consists occ. criss-cross thin lenses of po, some qtz. pods, qtz. veining is rare.						

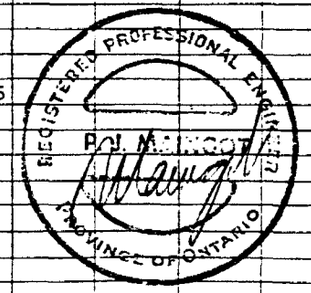
FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
994.2	1407.0	CONTD.						
		1021.4 - 1042.0: TREMOLITE - ACTINOLITE - AMPHIBOLITE (6b) Light green in colour, essentially consists of medium grained amphiboles. Similar in composition to above. Mod. magnetic. Contains occ. felsic fragment. Some sections are altered to talc carbonate rock. Occasional quartz veins. Contains blebs of po						
		1033.0: 2; ¼" quartz veins, po and cpy lenses.						
		1042.0 - 1114.5: MAGNETITE RICH - ULTRAMAFIC FLOW (6d) Dark purple grey in colour, highly magnetic, slightly talcy, coarse grained, no sulfides. Occasional section altered to serpentine and talc carbonate rock.						
		1114.5 - 1124.2: TREMOLITE - ACTINOLITE - AMPHIBOLITE (6b) Light green in colour, essentially composed of medium grained amphiboles. Some dark green chlorite and biotite rich zones.	tr sulfides					
		1124.2 - 1265.5: TALC - CARBONATE ROCK (6c) Grey in colour, talcy, soft. No quartz vein.	tr sulfides					
		1265.5 - 1268.5: INTERMEDIATE LAVA FLOW (2c) Light green in colour, siliceous, fine grained. Contact with ultramafic is sharp and shows 3" wide biotite alteration zone at the north and south contacts.						
		1268.5 - 1407.0: TALC - CARBONATE ROCK (6a) Charac. blue grey in color, soft, talcy, highly altered - 6d - serpentinized, schistose, and is coarse grained. No quartz veins.	tr sulfides					
		1272.8 - 1288.9: INTERMEDIATE LAVA FLOW (2a) Light grey in colour, siliceous, similar to above, int. flow. Contact with ultramafic is sharp and shows biotite, chlorite alteration may indicate intrusive nature of ultramafic body.						
	1407.0	END OF HOLE						

TROPARI
600' : 164° (AZ) - 43° DIP
1257' : 171½° (AZ) - 44° DIP

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE	212 + 00 NORTH	STARTED	24th August, 1975						
HOLE NO.	DLO - 38 - 74	DEPARTURE	198 + 00 EAST	FINISHED	1st September, 1975	200'	53°	800'	44½°	1400'	42½°
BEARING	180°	ELEVATION		LENGTH	1557 FEET	400'	51°	1000'	43½°		
DIP-COLLAR	-55°	SECTION		LOGGED BY	BABU GAJARIA	600'	48½°	1200'	45½°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
				A8845	107.0	112.0	5.0	T		
0	53.0	CASING		A8846	239.0	241.0	2.0	.02		
				A8847	245.0	247.0	2.0	.005		
53.0	183.5	MAFIC TUFF (1c)		A8848	294.0	296.0	2.0	T		
		Grey-green in colour, schistose, amphibolised in places. Charac.		A8849	352.0	354.0	2.0	T		
		contains ¼" carbonate lenses, carbonate blebs and cherty pods.	tr sulfides	A8850	354.0	356.0	2.0	.005		
		Quartz veins average ½"/10' section.		A8851	556.0	557.0	1.0	.005		
		153.0: Schistosity/C.A. angle is 58°.		A8852	560.0	565.0	5.0	.005		
		107.6 - 111.8: Chlorite rich zone, containing ½% lent. cpy		A8853	582.0	584.0	2.0	T		
		and 1% po.		A8854	666.0	667.0	1.0	T		
		171.6 - 183.5: FELSIC TUFF (4c)		A8855	735.0	740.0	5.0	T		
		Purple grey in colour, fine grained, siliceous	tr sulfides.	A8856	766.0	767.0	1.0	T		
				A8857	832.0	834.0	2.0	T		
183.5	247.5	INTERMEDIATE FLOW (2a) - tuffaceous.		A8858	843.0	845.0	2.0	T		
		Light green in colour, more siliceous and harder than above. It is charac.		A8859	845.0	850.0	5.0	T		
		fine grained, schistose in places with carbonate blebs and lenses.	tr sulfides	A8860	858.0	860.0	2.0	T		
		Quartz veins average ½"/10' section.		A8861	870.0	875.0	5.0	T		
		230.0: Schistosity/C.A. angle is 65°		A8862	875.0	880.0	5.0	T		
		213.2 - 213.9: Quartz-carbonate vein - barren		A8863	880.0	885.0	5.0	.005		
		240.0 - 240.5: Sulfide rich zone, po, py, cpy		A8864	885.0	890.0	5.0	.02		
		245.7: 2; ¼" carbonate veinlets with assoc. po & cpy.		A8865	890.0	895.0	5.0	.015		
				A8866	895.0	900.0	5.0	T		
247.5	844.1	MAFIC LAVA FLOW (1a)		A8867	920.0	925.0	5.0	T		
		Grey-green in colour, med. grained, it is amphibolised and schistose.	tr sulfides	A8868	925.0	930.0	5.0	T		
		Quartz veins average 1"/10' section		A8869	930.0	935.0	5.0	T		
		295.0: ½" quartz vein - po and py		A8870	935.0	940.0	5.0	T		
		302.0: 1" quartz vein - barren		A8871	940.0	945.0	5.0	T		
		353.0: ¼" siliceous zone, po and cpy		A8872	945.0	950.0	5.0	T		
		354.3 - 355.5: FELSIC TUFF (4c)		A8873	950.0	955.0	5.0	T		
		Dark purple grey in colour, siliceous,		A8874	955.0	960.0	5.0	.01		
		schistose and thinly bedded.		A8875	960.0	965.0	5.0	.005		
		Bedding/C.A. angle is 50°, tr py and po		A8876	965.0	970.0	5.0	T		
		along bedding plane.		A8877	970.0	975.0	5.0	T		
		443.0 - 448.2: INT. TUFF (2c)		A8878	975.0	980.0	5.0	T		
		Greyish brown in colour, med. grained,	tr sulfides	A8879	990.0	995.0	5.0	T		
		schistose.		A8880	995.0	1000.0	5.0	T		
		488.0: 2; 1" quartz vein - barren		A8881	1000.0	1005.0	5.0	T		
		521.2: 1/8" quartz vein - diss. py		A8882	1005.0	1010.0	5.0	T		
		523.0: Schistosity/C.A. angle is 65°		A8883	1010.0	1015.0	5.0	T		
		556.3: ¼" quartz vein - py and cpy		A8884	1015.0	1020.0	5.0	T		



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.	Ag.	Cu.	
				A8885	1020.0	1025.0	5.0	T			
247.5	844.1	CONTD.		A8886	1025.0	1030.0	5.0	.004			
		560.1 - 565.5: TREMOLITE - SERPENTINE - MAGNETITE		A8887	1030.0	1035.0	5.0	T			
		(AMPHIBOLITE) (6c)		A8888	1035.0	1040.0	5.0	T			
		Amphibolite dyke. Light green in colour,		A8889	1040.0	1045.0	5.0	.01			
		composed essentially of coarse grained	tr sulfides	A8890	1045.0	1050.0	5.0	T			
		amphiboles, some serpentine, the rock is		A8891	1050.0	1055.0	5.0	T			
		moderately magnetic.		A8892	1055.0	1060.0	5.0	T			
		582.0 - 583.6: Amphibolite dyke - similar to above.		A8893	1060.0	1065.0	5.0	.005			
		644.7 - 651.3: MAFIC DYKE (1a)		A8894	1065.0	1070.0	5.0	T			
		Grey brown in colour, medium to coarse		A8895	1070.0	1075.0	5.0	T			
		grained, schistose, tr py, sharp contact		A8896	1075.0	1080.0	5.0	T			
		with the mafic flow above. Porphyrytic		A8897	1080.0	1085.0	5.0	T			
		crystals of feldspars.		A8898	1085.0	1090.0	5.0	T			
		657.0: Bedding/C.A. angle is 50° (within mafic tuff)		A8899	1090.0	1095.0	5.0	.030			
		666.3: ¼" quartz vein: py and tr cpy		A8900	1095.0	1100.0	5.0	T			
		677.0 - 702.0: A number of 6"-1' mafic tuff beds inter-		A8901	1100.0	1105.0	5.0	.045			
		calated within mafic flow.		A8902	1105.0	1110.0	5.0	.030			
		735.3 - 740.3: TREMOLIATE - ACTINOLITE - SERPEN-		A8903	1110.0	1115.0	5.0	T			
		TINE (6c)		A8904	1115.0	1120.0	5.0	T			
		AMPHIBOLITE DYKE		A8905	1120.0	1125.0	5.0	T			
		Essentially made up of tremolite - amphi-		A8906	1125.0	1130.0	5.0	T		.06	
		boles, some serpentine, moderately mag-	tr sulfides	A8907	1130.0	1135.0	5.0	T		.03	
		netic. Sharp contact to the north with mafic		A8908	1135.0	1140.0	5.0	T		.07	
		flow - contact shows biotite alteration.		A8909	1140.0	1145.0	5.0	T		.02	
		South contact shows chlorite alteration.		A8910	1145.0	1150.0	5.0	T		.02	
		749.5 - 750.0: Amphibolite dyke - similar to above.		A8911	1150.0	1155.0	5.0	.032		.02	
		754.5: ½" quartz vein - po and py		A8912	1155.0	1160.0	5.0	.05		.04	
		766.2: ½" quartz vein - po and py tr cpy		A8913	1160.0	1165.0	5.0	T		.05	
		781.3: ¼" quartz vein - po and cpy		A8914	1165.0	1170.0	5.0	T		.05	
		805.8: 2" quartz vein - barren		A8915	1170.0	1172.0	2.0	.015		.08	
		815.0: Schistosity/C.A. angle is 60°		A8916	1172.0	1175.0	3.0	T		.11	
		832.8: 1½" quartz vein - po, tr cpy and chlorite		A8917	1175.0	1177.0	2.0	T		.07	
		843.7: 2½" quartz vein - heavy chlorite and biotite		A8918	1177.0	1182.0	5.0	T		.06	
		content, po and tr cpy.		A8919	1182.0	1185.0	3.0	.015		.05	
				A8920	1185.0	1187.0	2.0	.010		.08	
844.1	1114.1	MAFIC TUFF (1a (1c)		A8921	1187.0	1188.0	1.0	.672	.376	.08	V.G.
		Grey-green in colour, well schistose, rich in biotite and chlorite,		A8922	1188.0	1190.0	2.0	.228	31'	.05	
		increase in quartz veining and in sulfides.	½% po, ½% py, ¼% cpy	A8923	1190.0	1195.0	5.0	T		.05	
		Quartz veins average 1½"/10' section.		A8924	1195.0	1200.0	5.0	T		.09	
		845.5: ½" lense, po, cpy and chlorite		A8925	1200.0	1205.0	5.0	T		.15	
		847.0: ½" quartz vein - po and cpy		A8926	1205.0	1210.0	5.0	.005		.16	
		859.2: Quartz pod, po and py		A8927	1210.0	1215.0	5.0	.035		.08	
		861.0: ½" quartz vein - po and py (80%)		A8928	1215.0	1220.0	5.0	T		.12	
		863.8: 1½" quartz vein - po		A8929	1220.0	1225.0	5.0	.01		.09	
		867.7: ½" quartz vein - po		A8930	1225.0	1230.0	5.0	.047	.024	.13	
		870.6 - 871.6: Siliceous zone, enrichment of po and cpy		A8931	1230.0	1235.0	5.0	.01	20'	.07	
		within country rock		A8932	1235.0	1240.0	5.0	.03		.11	
		873.7 - 881.4: FELSIC TUFF (4c)		A8933	1240.0	1245.0	5.0	T		.11	
		Grey-green in colour, siliceous, medium	½%po, ¼%py, ¼%cpy	A8934	1245.0	1250.0	5.0	T		.09	
		grained felsic fragments, schistose, sharp		A8935	1250.0	1252.0	2.0	T		.03	
		contacts on either side with mafic tuff.		A8936	1252.0	1255.0	3.0	.015		.08	

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS	ASSAYS Ni.
				A8937	**1255.0**	**1260.0**	**5.0**	**.06**		**.15**		
844.1	1114.1	CONTD.		A8938	1260.0	1264.0	4.0	.015		.12		
		882.0: 2" felsic fragment (bomb) within chlorite		A8939	1264.0	1267.0	3.0	.07	.103	.10		
		rich zone, felsic fragment contains diss. cpy.		A8940	1267.0	1270.0	3.0	.16	11'	.16		
		882.4: ½" quartz vein - po and cpy		A8941	1270.0	1275.0	5.0	.13		.11		
		882.0 - 887.0: Siliceous zone - rich in sulfides.	2% po, ½% cpy	A8942	1275.0	1280.0	5.0	.02		.10		
		889.1: ½" quartz vein - po and cpy		A8943	1280.0	1285.0	5.0	.01		.11		
		890.1: ½" quartz vein - po and cpy		A8944	1285.0	1290.0	5.0	.01		.16	.104%	
		891.5: ½" quartz vein - po and cpy		A8945	1290.0	1295.0	5.0	.16		.08	60'	
		896.2: 2: ½" quartz veins -po and cpy		A8946	1295.0	1300.0	5.0	T		.05		
		897.5: ½" quartz vein - po and cpy		A8947	1300.0	1305.0	5.0	.01		.11		
		923.5: ½" quartz vein - po and cpy		A8948	1305.0	1310.0	5.0	T		.06		
		927.4: Chlorite lense po and cpy		A8949	1310.0	1315.0	5.0	.01		.17		
		928.5: ½" quartz vein - po and cpy		A8950	1315.0	1320.0	5.0	.01		.02		
		936.8: ½" quartz vein - po and cpy		A8951	1320.0	1325.0	5.0	.005		.03		
		942.0: ½" quartz carbonate veinlet - po and cpy		A8952	1325.0	1330.0	5.0	T				
		943.3: ½" chlorite lense - po and cpy		A8953	1330.0	1335.0	5.0	T				
		944.7: 3/4" quartz vein - po, cpy and chlorite		A8954	1335.0	1340.0	5.0	T				
		948.8: ½" quartz vein - po and py and tr cpy		A8955	1340.0	1345.0	5.0	T				
		951.3: ½" quartz vein - po and cpy		A8956	1345.0	1350.0	5.0	T				
		959.2: ½" quartz vein - silver grey po, py and trcpy		A8957	1350.0	1355.0	5.0	N				
		961.5: 3/4" quartz vein - barren.		A8958	1355.0	1360.0	5.0	T				
		964.3: ½" quartz vein - po tr py		A8959	1360.0	1365.0	5.0	T				
		967.9: ½" quartz vein - po		A8960	1365.0	1370.0	5.0	T				
		969.0: 1" quartz vein - barren		A8961	1370.0	1375.0	5.0	T				
		969.3: 1/8" quartz vein - po and cpy		A8962	1375.0	1380.0	5.0	T				
		974.1: ½" quartz vein - 80% po and py		A8963	1380.0	1385.0	5.0	T				
		978.2: ½" quartz vein - po and py		A8964	1385.0	1390.0	5.0	T				
		980.3: 1/8" lense - po and cpy		A8965	1390.0	1395.0	5.0	T				.08
		996.5: ½" quartz vein - po and cpy		A8966	1395.0	1400.0	5.0	T				
		998.0: ½" quartz veinlets parallel to C.A., po & cpy		A8967	1400.0	1405.0	5.0	T				
		1006.6: ½" quartz vein - po and cpy		A8968	1405.0	1410.0	5.0	N				
		1012.3: Quartz pod - po and cpy		A8969	1410.0	1415.0	5.0	T				
		1016.4: ½" quartz vein - 10% po, 5% cpy		A8970	1415.0	1420.0	5.0	T				
		1021.5: ½" quartz vein - po and cpy		A8971	1420.0	1425.0	5.0	T		.004		
		1022.7 - 1024.3: ½" veinlets of felsics within siliceous int.	2%po, ½% cpy	A8972	1425.0	1430.0	5.0	T		.005		
		flow.		A8973	1430.0	1435.0	5.0	T		.003		
		1021.4 - 1039.0: INT. LAVA FLOW (2a)		A8974	1435.0	1440.0	5.0	T		.004		
		Light green in colour, siliceous, fine grained		A8975	1440.0	1445.0	5.0	T		.004		
		flow, increase in po and cpy content.	1% po, ¼% cpy	A8976	1445.0	1450.0	5.0	T		.004		
		1024.6: 1" chert lense, po and py		A8977	1450.0	1455.0	5.0	T		.04		
		1026.8: ½" quartz vein - po and tr cpy		A8978	1455.0	1460.0	5.0	T		.021		
		1043.2: ½" quartz vein,po and tr cpy		A8979	1460.0	1461.0	1.0	T		.01		
		1045.0: ½" quartz vein - po, py and tr cpy		A8980	1461.0	1463.0	2.0	.04		.110		V.G.
		1047.5 - 1051.3: MAFIC DYKE (1a)		A8981	1463.0	1465.0	2.0	.22	.50	.15		w/core
		Buff grey in colour, med. grained, charac.	½% py	A8982	1465.0	1467.0	2.0	.97	5'	.30		V.G.
		contains diss. py.		A8983	1467.0	1468.0	1.0	.140		.20		w/core
		1051.8: ½" quartz vein - po and cpy		A8984	1468.0	1470.0	2.0	.01		.11		
		1053.1: ½" quartz vein - po and tr cpy.		A8985	1470.0	1475.0	5.0	.015		.10		
		1039.0 - 1061.0: INT. LAVA FLOW (2a)		A8986	1475.0	1480.0	5.0	.015		.05		
		Light green in colour, siliceous, increase in		A8987	1480.0	1485.0	5.0	.005		.01		
		sulfides.		A8988	1485.0	1590.0	5.0	T		.007		
				A8989	1490.0	1495.0	5.0	T				
				A8990	1495.0	1500.0	5.0	T		.010		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
844.1	1114.1	CONTD.						
		1054.5 - 1057.0: Quartz, epidote, and feldspar veinlets parallel to C.A. - po and tr cpy						
		1058.3: $\frac{1}{4}$" quartz vein - po and py						
		1061.4: $\frac{1}{4}$" quartz vein - po and py						
		1068.7: $\frac{1}{2}$" quartz vein - po						
		1078.3 - 1083.8: MAFIC TUFF (1c) Mafic matrix, medium grained felsic fragments, buff - grey in colour.						
		1085.7: $\frac{1}{2}$" quartz vein - 20% po, 5% cpy						
		1086.0 - 1087.0: $\frac{1}{3}$" cpy, 1% po						
		1087.0: Siliceous zone - po and cpy						
		1092.0: $\frac{1}{2}$" feldspar veins, po and cpy						
		1102.5: $\frac{1}{4}$" quartz vein - po and cpy						
		1111.8: $\frac{1}{4}$" quartz pod, po, py and tr cpy						
1114.1	1227.1	INT. LAVA FLOW (2a)						
		Light green in colour, massive siliceous, shows good flow features. The sulfide mineralization is predominantly assoc. with country rock, quartz veins average 2"/10' section, and all of them show predominance of po over cpy.	2½% po, 3/4% cpy					
		1126.8: $\frac{1}{4}$" feldspar vein - 70% po, 15% cpy						
		1128.0: $\frac{3}{4}$" quartz vein - po and cpy						
		1134.5: Quartz pod, po and cpy assoc. with chlorite						
		1158.0 - 1158.4: Quartz vein - po and tr cpy						
		1164.3: Quartz veinlets po and cpy						
		1172.2 - 1174.4: FLOW BRECCIA ? The breccia fragments are angular and range in size from 3mm² to 3 cm². The fragments are predominantly felsic and contain diss. po and tr diss. cpy within fragments and around fragments. The breccia has sharp contacts to the north and south with int. flow. Some of the mafic fragments have felsic rim around them. It is imp. to note considerable increase in sulfide content directly related to this breccia. This may represent a vent collapse breccia.	6% po, ½% cpy					
		1177.5 - 1182.5: FLOW BRECCIA ? Similar to above.						
		1185.3: $\frac{1}{4}$" quartz vein - 10° C.A. po and cpy						
		1187.6: 1 med. speck of V.G. assoc. with po	1 speck of V.G.					
		1189.2 - 1198.7: FLOW BRECCIA ? Similar to above. Felsic fragments angular and larger in size than above.	7% po, ¼% cpy					
		1200.6: $\frac{1}{2}$" quartz vein - po and tr cpy						
		1222.0: Schistosity/C.A. angle is 65°.						
1227.1	1229.2	FELSIC TUFF (4c)						
		Buff brown in colour, heavily enriched in sulfides however tuffaceous bedding can be discernible.	10% po, ½% cpy					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1229.2	1279.6	CHLORITE ALTERATION ZONE (5a) Light green in colour, schistose. Almost entirely made up of chlorite occ. stringers of po and cpy are visible. The light green chlorite grades into dark green to almost black chlorite.	2% po, ½% cpy					
		1250.9 - 1251.9: FELSIC TUFF (4c) Purple grey, siliceous, medium grained felsic fragments.	10% po, ½% cpy					
		1259.7: ½" quartz vein - 20% po, 3% cpy						
		1260.0: ½" quartz vein - 20% po, 3% cpy						
		1263.3: 1½" quartz vein, 10% po, 1% cpy						
		1264.5 - 1269.5: Quartz vein, 10% po, 3% cpy						
1279.6	1478.3	SERPENTINIZED ZONE (6)						
		1279.6 - 1328.5: TREMOLITE - ACTINOLITE - SERPENTINE (6b) Coarse grained, essentially consisting of amphiboles, it is heavily chloritized, moderately magnetic.	1% po, ¼% cpy					
		1328.5 - 1478.3: TALC - CARBONATE - SERPENTINE (6a) This is characteristically talcose, heavily serpentinized, buff grey in colour, chlorite content is high with stringers of po and cpy. The talc - carbonate rock, shows medium grained amphiboles, which are schistose, the amphibole grains show good rotation, which may have been developed as a result of flow (extrusive) or a metamorphic effect of shearing may produce the same result. The coarse grain nature of the rock may indicate intrusive rather than extrusive (ultramafic flow) origin.	½% po, ¼% cpy					
		1376.4 - 1388.0: SERPENTINIZED PERIDOTITE (?) (6d) Grey black in colour, medium grained, highly magnetic, olivine and amphibole rich, highly serpentinized. It has a gradational contact with talc - carbonate rock. It shows good examples of chrysotile amphibole.						
		1429.3 - 1436.5: Chlorite rich zone, occ. stringers of po, cpy						
		1452.0 - 1462.0: Chlorite rich zone, occ. stringers of po, cpy some biotite rich zones within essentially chlorite alteration zone.						
		1461.5: ½" quartz pod, po and cpy						
		1461.8: 1" quartz vein, po, cpy and chlorite and 1 small speck of V.G.	1 speck of V.G.					
		1462.1: 1" quartz vein - po, cpy and chlorite						
		1462.6: 8" quartz vein - po, cpy and chlorite						
		1465.6: 3½" quartz vein - po, cpy and 1 speck V.G.	1 speck of V.G.					

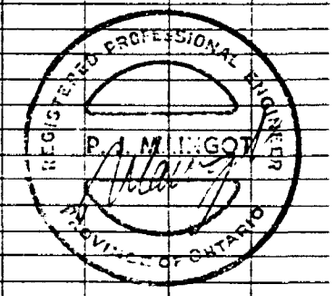
FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1478.3	1557.0	INTERMEDIATE TUFF (2c)						
		Light green (chlorite rich) to buff brown (biotite rich) in colour. It characteristically shows alternate chlorite and biotite rich beds. The rock is schistose, characteristic carbonate lenses lie parallel to the bedding. Chlorite content is low. It is important to note the high chlorite content in the serpentinized unit just lying above. While the intermediate tuff shows very little hydrothermal alteration and trace chalcopyrite content.	1% pyrite					
		Bedding/C.A. angle is 70°.						
		1494.5 - 1498.7: FELSIC TUFF (4c)						
		Purple grey in colour, siliceous, well bedded.	2% pyrite					
		1527.2 - 1546.5: FELSIC TUFF (4c)						
		Similar to above	2% pyrite					
		1547.5 - 1548.6: FELSIC AGGLOMERATE (4b)						
		Mafic, tuffaceous matrix, felsic fragments are $1cm^2$ and occupy 10% of the rock. This unit may be correlated with the felsic agglomerate of the west zone.						
		1551.9 - 1556.5: FELSIC TUFF (4c)						
		Purple grey in colour, siliceous, bedded. Dissem. pyrite.	1% pyrite					
	1557.0	END OF HOLE						

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

PROPERTY	DETOUR LAKES No. 38	LATITUDE 211 + 50N	STARTED	March 22nd, 1975	
HOLE NO.	38 - 23	DEPARTURE 200 + 00E	FINISHED	March 29th, 1975	
BEARING	180	ELEVATION	LENGTH	1157'	
DIP-COLLAR	-45°	SECTION 200E	LOGGED BY	M. KONINGS	

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	45°	800'	40.5°		
400'	44°	1000'	38°		
600'	42.5°	1157	33°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
0	29	OVERBURDEN		13191	29	34	5.0	TR				
				13192	34	39	5.0	Tr				
29	86.7	BASIC FLOWS: generally fine grained (less than 1.5mm) silicified lavas, very hard (greater than 5.5), massive, unfractured grey-green due to chlorite-amphibole content. Quartz veins rare; Foliation probably related to Flow banding, ranges from 45 - 70° to core axis. Flow Top breccias are common, fragment matrix consists of a cream coloured cherty filling. Flow banding textures are heavily silicified, producing a cherty rock. Mineralization is minor, related to flow banding and fracture infilling flow top breccias, always a secondard emplacement. Po and Py never exceed 2% over short intersections. Flows become finer grained with depth.		13193	39	44	5.0	Tr				
				13194	44	49	5.0	Tr				
				13195	49	54	5.0	Tr				
				13196	54	55	1.0	Tr				
				13197	55	60	5.0	Tr				
				13198	60	65	5.0	NIL				
				13199	65	70	5.0	Tr				
				13200	70	75	5.0	Tr				
				13201	75	80	5.0	Tr				
				13202	80	85	5.0	NIL				
				13203	85	90	5.0	NIL				
				13204	90	95	5.0	NIL				
				13205	95	100	5.0	Tr				
				13206	100	105	5.0	Tr				
				13207	105	110	5.0	Tr				
				13208	110	115	5.0	Tr				
86.7	97.0	BASIC TUFF: Finely laminated siliceous tuffs. Dark green-grey; sugary texture on broken surface; Traces Po, Py in some beds. Bedding at 45° to core axis.		13209	115	120	5.0	Tr				
				13210	120	125	5.0	Tr				
				13211	125	130	5.0	Tr				
				13212	130	135	5.0	Tr				
97.0	105.0	INTERMEDIATE LAPILLI TUFF: fragments 2-3", 30% somewhat chloritic but hard fragments. Dark grey-brown due to high biotite content of cherty matrix. Bedding angle to core axis 55 - 60°. Gradational change to fine tuff.		13213	135	140	5.0	Tr				
				13214	140	145	5.0	NIL				
				13215	145	150	5.0	Tr				
				13216	150	155	5.0	NIL				
				13217	155	160	5.0	NIL				
		103.0: Quartz vein with tr flourite.		13218	160	165	5.0	NIL				
				13219	165	170	5.0	NIL				
105.0	127.1	INTERMEDIATE TUFF: Dark grey brown, hard siliceous unit, bedding is micro folded in places, common ½" cherty beds; unit cut by numerous healed fractures and quartz veinlets, parallel to subparallel with bedding schistosity. Many 1 foot sections of ½" lapilli. Some sections have gritty texture - possibly greywacke with 10% bio. as only mafic. Many non conformable contacts within tuffs. Foliation to core axis 50° (probably bedding).		13220	170	175	5.0	NIL				
				13221	175	180	5.0	NIL				
				13222	180	185	5.0	NIL				
				13223	185	190	5.0	NIL				
				13224	190	195	5.0	NIL				
				13225	195	200	5.0	NIL				
				13226	200	205	5.0	NIL				
				13227	205	210	5.0	NIL				
				13228	210	215	5.0	NIL				



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
127.1	387.5	BASIC LAVAS: hard massive flows, grain size variations aphanitic to 2mm (with some lineated feldspar) may indicate individual flows. Flow top breccias at top of unit easily recognised by fine grain milky quartz filling of fragments. Some flow banding present, but most of flows are massive non-schistose units. Quartz veinlets (mostly 1/8" - ¼") run sub parallel to apparent flow banding, almost all are barren. Gradations of grain size always coarse to fine donw hole in recognised flows indicating the unit top is to the south. Unit same as 29' - 86.7'.		13229	215	220	5.0	NIL				
				13230	220	225	5.0	NIL				
				13231	225	230	5.0	Tr				
				13232	230	235	5.0	Tr				
				13233	235	240	5.0	Tr				
				13234	240	245	5.0	Tr				
				13235	245	250	5.0	Tr				
				13236	250	255	5.0	Tr				
				13237	255	260	5.0	Tr				
		128.5 - 138: Shear zone: blocky core, very chloritic, highly foliated at 70-80° to core axis.		13238	260	265	5.0	.01				
				13239	265	270	5.0	Tr				
		153 - 154: Quartz filled breccia zone: 50% ½" -3" fragments of same lava, minor Py, Po.		13240	270	275	5.0	Tr				
				13241	275	280	5.0	Tr				
		158 - 161.4: Fine grained (aphanitic) zone, 10% filled with white quartzl-2mm.		13242	280	285	5.0	Tr				
				13243	285	290	5.0	Tr				
		164.5: Contact between lava flows 55°, coarse 2mm lava commences downhole.		13244	290	295	5.0	Tr				
				13245	295	300	5.0	Tr				
		164.5 - 175: Lava flow breccia, fine quartz filling between fragments, start of next flow with coarse 2-3mm grain texture.		13246	300	305	5.0	Tr				
				13247	305	310	5.0	Tr				
				13248	310	315	5.0	Tr				
		185: LAVA flow texture - looks like abedded chloritic tuff. 50° to core axis.		13249	315	320	5.0	Tr				
				13250	320	325	5.0	Tr				
		187.2 - 190: Siliceous zone, dark grey, cherty. Top of a lava flow, finest grain size at bottom.		13251	325	330	5.0	Tr				
				13252	330	335	5.0	Tr				
		190: Flow contact, bottom of next unit is coarse grain 2-3mm amphibole - feldspar grain size. Some sections of garnet interstitial to chlorite-amphibole mafics.	Tr Py	13253	335	340	5.0	Tr				
				13254	340	345	5.0	Tr				
				13255	345	350	5.0	NIL				
				13256	350	355	5.0	NIL				
		220 - 221.5: Quartz veining 8", clear quartz; frequent barren veins to 330 (1/8 - 1" range)	Tr Po	13257	355	360	5.0	NIL				
				13258	360	365	5.0	Tr				
		235 - 337: Thin lava flows - (pillowed) top or bottom breccias thin or non existent; frequent grain size changes, less visible feldspar with depth; darker green with depth; Good flow banding or feldspar lineations rare, schistosity averages 45°.		13259	365	370	5.0	Tr				
				13260	370	375	5.0	Tr				
				13261	375	380	5.0	Tr				
				13262	380	385	5.0	Tr				
				13263	385	390	5.0	Tr				
		337: Biotite halos around quartz veins become apparent, quartz veinlets increase with depth.		13264	390	395	5.0	Tr				
				13265	395	400	5.0	.01				
		363 - 368: Porphyritic basic lava less than .5mm feldspar phenocrysts; fine grained, becomes more porphyritic towards 387'.		13266	400	405	5.0	Tr				
				13267	405	410	5.0	Tr				
				13268	410	415	5.0	Tr				
				13269	415	420	5.0	Tr				
387.5	400.0	PORPHYRITIC BASIC LAVA: 10% - 2-3 mm subangular to rounded feldspar. phenocrysts in a dark grey-green hard siliceous fine to medium grain matrix.	1%Py	13270	420	425	5.0	Tr				
				13271	425	430	5.0	Tr				
				13272	430	435	5.0	Tr				
				13273	435	440	5.0	Tr				
400.0	504.0	BASIC LAVA: medium grained, grey green, massive flows higher feldspar content than previous lavas. (35%) Some tuffaceous appearing sections (flow banding?) Flow units indistinguishable due to biotite alteration and quartz veining.		13274	440	445	5.0	Tr				
				13275	445	450	5.0	Tr				
				13276	450	455	5.0	Tr				
				13277	455	460	5.0	Tr				
				13278	460	465	5.0	Tr				

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

PROPERTY DETOUR LAKES HOLE NO. 38 - 23 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
400.0	504.0	CONTD.										
		436.8 - 446: Minor quartz veins with heavy biotite alteration of adjoining mafic lavas.	Tr. Py. Cpy. Po	13279	465	470	5.0	Tr				
				13280	470	475	5.0	Tr				
				13281	475	480	5.0	Tr				
		452 - 460: MAFIC DYKE: aphanitic to fine grain; high biotite content gives grey-brown colour. Parts of unit are brecciated and re-cemented. Thin Po, Py, stringers cut unit.	Tr. Py. Po	13282	480	485	5.0	Tr				
				13283	485	490	5.0	Tr				
				13284	490	495	5.0	Tr				
				13285	495	500	5.0	Tr				
		452 - 504: same as 400 - 452, but more consistent grain size and texture. Some foliated sections possibly flow banding. Biotite halos well developed around widely separated 1" quartz vein.		13286	500	505	5.0	Tr				
				13287	505	510	5.0	Tr				
				13288	510	515	5.0	Tr				
				13289	515	520	5.0	Tr				
				13290	520	525	5.0	Tr				
504.0	512.7	BASIC LAVAS - pillowed? Thin flows showing coarse to fine grain size variation within units (top downhole). Pillow? boundaries marked by silicified heavy chlorite and biotite alteration. Top 6" of flow units chilled (aphanitic grain size). Pillow contacts approximately 55° to C.A.		13291	525	530	5.0	Tr				
				13292	530	535	5.0	Tr				
				13293	535	540	5.0	Tr				
				13294	540	545	5.0	Tr				
				13295	545	550	5.0	Tr				
512.7	516.0	MYLONITE SHEAR ZONE (512.9, 513.5 - 513.9 and 514.9 - 516.0) within basic lavas. Massive schistose chlorite amphibole matrix with 1cm tremolite - actinolite porphyroblasts.		13296	550	555	5.0	Tr				
				13297	555	560	5.0	Tr				
				13298	565	570	5.0	Tr				
				13299	570	575	5.0	Tr				
516.0	622.5	BASIC LAVAS - medium grained amphibole - chlorite matrix with fine (less than 1mm) lineated, feldspars. Lavas mostly massive, hard, not schistose. Foliation restricted to 5cm sections or highly chloritized rock pillow margins? Also minor flow banding, shearing. Quartz veining parallel to subparallel to foliation in $\frac{1}{4}$ to $\frac{1}{2}$" veins cutting volcanics at approximately 55°. Lava foliations at 50° to core axis (ranging from 45 to 60°) High biotite content, 15% in places, imparts dark-green-brown colour.		13300	575	580	5.0	Tr				
				13301	580	585	5.0	Tr				
				13302	585	590	5.0	Tr				
				13303	590	595	5.0	Tr				
				13304	595	600	5.0	Tr				
				13305	600	605	5.0	NIL				
				13306	605	610	5.0	NIL				
				13307	610	615	5.0	NIL				
				13308	615	620	5.0	Tr				
622.5	626.8	INTERMEDIATE TUFF - massive unbanded unit with 5% 1mm acidic tuff. Fine grained, mostly silicified feldspar-biotite. Foliation restricted to barren quartz veining.		13309	620	625	5.0	Tr				
				13310	625	630	5.0	Tr				
				13311	630	635	5.0	Tr				
				13312	635	640	5.0	Tr				
626.8	726.6	BASIC LAVA - medium grained 1-3mm, dark green, massive homogeneous composition, grain size variations produce only texture changes. Consistent quartz veining 1"/10' core, averaging 55° to core axis. Lava foliations rare, related to quartz veining and biotite alteration halos, some flow banding.		13313	640	645	5.0	Tr				
				13314	645	650	5.0	Tr				
				13315	650	655	5.0	NIL				
				13316	655	660	5.0	NIL				
				13317	660	665	5.0	Tr				
		712: 2' lightly mineralized lava	less than 1% Po, + Py	13318	665	670	5.0	Tr				
		726.6 - 728.0: MAFIC DYKE same as 452 - 460; brown-black, fine grained, 5% elongated feldspar phenocrysts 2mm. Massive, non-schistose, contacts irregular, non-conformable at approximately 90° to core axis, 15% biotite.		13319	670	675	5.0	Tr				
				13320	675	680	5.0	NIL				
				13321	680	685	5.0	NIL				
				13322	685	690	5.0	Tr				
				13323	690	695	5.0	Tr				
				13324	695	700	5.0	Tr				
[redacted]0	795.2	BASIC LAVA same as 626.8 - 726.6; becomes more schistose with depth; quartz veining increases, Cpy, Po, Py increases in veins with depth.		13325	700	705	5.0	Tr				
				13326	705	710	5.0	Tr				
				13327	710	715	5.0	Tr				
				13328	715	720	5.0	Tr				

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

PROPERTY DETOUR LAKES HOLE NO. 38 - 23 Page 4

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	ASSAYS Pb.
795.2	802.5	INTERMEDIATE FLOW - massive, fine grained, siliceous, very hard (greater than 5.5), dark brown to black. Porphyritic: fine (1mm and less) phenocrysts of feldspar and quartz, 5%. Several 1" sections are highly mineralized with Po, Cpy.	Tr. Po Cpy	13329	720	725	5.0	Tr				
				13330	725	730	5.0	Tr				
				13331	730	735	5.0	Tr				
				13332	735	740	5.0	Tr				
				13333	740	745	5.0	Tr				
802.5	855.5	BASIC LAVA - medium grained (1-3mm), increase in biotite some brecciated sections (flow tops?); foliated sections are highly chloritic, some Po stringers - flow banding?; dark green-brown colour.		13334	745	750	5.0	Tr				
				13335	750	755	5.0	.01				
				13336	755	760	5.0	Tr				
		811 - 813: Porphyritic appearing 1mm feldspar 15%, possibly vesicule filling		13337	760	765	5.0	Tr				
				13338	765	770	5.0	Tr				
		815 - 848: mostly fine grained mafic volcanics, foliated by biotite banding at 60° to core axis. Some units may be classed as intermediate; vesicular in 2" sections of 1-2mm. Quartz veins become rare with depth, mineralization also decreases with depth.		13339	770	775	5.0	.01				
				13340	775	780	5.0	Tr				
				13341	780	785	5.0	Tr				
				13342	785	790	5.0	Tr				
				13343	790	795	5.0	NIL				
				13344	795	800	5.0	Tr				
		847.7 - 848.7: MELAGABBRO - coarse grained alteration? felty texture; pyroxene crystals .5-1cm - 10%; groundmass of coarse chlorite and amphibole very soft pistachio green, very schistose at 60° to core axis.		13345	800	805	5.0	Tr				
				13346	805	810	5.0	Tr				
				13347	810	815	5.0	Tr				
				13348	815	820	5.0	Tr				
				13349	820	825	5.0	Tr				
		851 - 855.5: MELAGABBRO: same as above, schistose, intrusive?		13350	825	830	5.0	Tr				
				13351	830	835	5.0	Tr				
				13352	835	840	5.0	Tr				
855.5	925.0	BASIC LAVAS - fine to medium grained dark grey-green flows; feldspar lineations stop at 922, mafic mineralogy chlorite-actinolite-tremolite. Flow schistosity of 60° to core axis. Quartz veining is minor, restricted to 1/8" stringers. Heavy biotite alteration around quartz veinlets.	1% diss. Po + Py	13353	840	845	5.0	Tr				
				13354	845	850	5.0	Tr				
				13355	850	855	5.0	.005				
				13356	855	860	5.0	.005				
				13357	860	865	5.0	Tr				
				13358	865	870	5.0	Tr				
925.0	927.0	INTERMEDIATE TUFF: Silicious biotite rich fine grained massive unfoliated tuff, no mineralization, conformable contacts with following unit; mineralized quartz veining increases.		13359	870	875	5.0	Tr				
				13360	875	880	5.0	Tr				
				13361	880	885	5.0	Tr				
				13362	885	890	5.0	Tr				
927.0	933.0	MAFIC TUFF - fine to medium .5-2mm lithic tuff, highly chloritic, foliation at 70° to core axis, unit is out by numerous 1/16" - 1/8" barren quartz stringers.		13363	890	895	5.0	Tr				
				13364	895	900	5.0	Tr				
				13365	900	905	5.0	.005				
				13366	905	910	5.0	Tr				
933.0	945.0	INTERMEDIATE LAPILLI TUFF - lapilli 1-4mm size, chloritic, rounded to sub angular, matrix cherty, light green-brown colour, some mineralization introduced by quartz veins, most of which are less than 1/8" and have chlorite alteration halos.		13367	910	915	5.0	Tr				
				13368	915	920	5.0	.005				
				13369	920	925	5.0	.04				
				13370	925	930	5.0	.05				
				13371	930	935	5.0	NIL				
945.0	950.0	CHERTY TUFF, fine grained, biotite rich, brown, unfoliated tuffs. Unit is highly fractured. Increasing density of quartz veins (mineralized) 2-4cm chlorite alteration rims surround veins. Unit is hard (greater than 5.5) showing a sugary texture on broken surfaces. Many indications of slumping, mud type flow and extensive brecciation with sulfides filling some fractures.	Po, Py, Cpy in quartz veins	13372	935	940	5.0	NIL				
				13373	940	945	5.0	Tr				
				13374	945	950	5.0	Tr				
				13375	950	955	5.0	T		.05	.005	
				13376	955	960	5.0	T		.07	.005	
				13377	960	965	5.0	T		.03	.006	
				13378	965	970	5.0	T		.04	.005	
				13379	970	975	5.0	T		.04	.005	

A.C.P.C.L. - MINING DIVISION - D.D.H. RECORD PROPERTY DETOUR LAKES HOLE NO. 38 - 23 Page 5

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	ASSAYS Pb.
950.0	959.0	CHERTY TUFF - MINERALIZED - same as above. Sulfides seem to be bedded in tuff. Sulfide and tuff foliation (bedding) at 60° to core axis. Numerous quartz veins subparallel to bedding. Leaching of host rock around veins. Heavy chlorite alteration along fractures and branching of at 90° to fracture in dendritic patterns (especially in 952.5 - 1000').	10% Po 5% Py	13380	975	980	5.0	T		.07	.004	
				13381	980	985	5.0	T		.09	.004	
				13382	985	990	5.0	T		.15	.006	
				13383	990	995	5.0	T		.07	.006	
				13384	995	1000	5.0	.01		.09	.003	
				13385	1000	1002	2.0	.01		.13	.006	
959.0	964.0	CHERTY TUFF (RHYOLITIC?) same as 945 - 950. Foliation (bedding?) at 60° to core axis. Heavy mineralized quartz veins, with chlorite alteration as above.	Po, Cpy in quartz veins	13386	1002	1005	3.0	0.18	0.14 oz/T	.10	.008	
				13387	1005	1008	3.0	0.09		.15	.005	
				13388	1008	1010	2.0	0.22		.14	.007	
				13389	1010	1013	3.0	0.09		.11	.005	
964.0	970.0	CHERTY LAPILLI TUFF; 40% lapilli 2-3cm in matrix of fine tuff. Sulfides are interstitial to lapilli. Colour: light green to dark grey, Matrix consists of biotite cemented with quartz. No useful foliations due to heavy fracturing and brecciation.	2% Po 2% Py TrCpy	13390	1013	1015	2.0	T		.32	.008	
				13391	1015	1020	5.0	T		.07		
				13392	1020	1025	5.0	T		.20		
				13393	1025	1030	5.0	T		.02		
				13394	1030	1035	5.0	T		.05		
970.0	1006.4	CHERTY AGGLORMERATE: Massive silicified unit has a distinct deep grey-purple colour and cherty appearance - translucent fine grain quartz Many sections of white chert spotted with chlorite-biotite alteration in a dendritic pattern from fractures. Agglomerate bombs 1-4" in matrix of finer lapilli and tuff. Foliation poor - range - 45-70°. Quartz veining becomes more plentiful with depth. Veining accompanies by chlorite alteration rims $\frac{1}{4}$-$\frac{1}{2}$", which has halos of biotite which increase in size with depth. Sulfides appear syngenetic to agglomerate, forming part of matrix surrounding rounded fragments.	2% Po 2% Py Tr Cpy	13395	1035	1040	5.0	T		.07		
				13396	1040	1045	5.0	T		.06		
				13397	1045	1050	5.0	.01		.10		
				13398	1050	1055	5.0	.01				
				13399	1055	1060	5.0	0.03				
				13400	1060	1065	5.0	.005				
				13401	1065	1070	5.0	.02		.16		
				13402	1070	1075	5.0	0.02		.13		
				13403	1075	1080	5.0	0.03		.27		
				13404	1080	1085	5.0	T		.04		
1006.4	1009	CHERTY LAPILLI TUFF: Heavily mineralized - 50% lapilli clasts. Matrix of sulfides and cherty filling. Lapilli 1cm-3cm.	25% Po 1% Py 5%Cpy	13405	1085	1090	5.0	T		.02		
				13406	1090	1095	5.0	T		.05		
				13407	1095	1100	5.0	T		.01		
1009	1084	BASIC LAVAS - fine grained, green, massive. Grain size increases with depth - , 5mm to 2mm. Some minor porphyritic sections as noted below. Very heavy quartz veining throughout. Quartz veins well mineralized with Po, Cpy. Foliation generally related to quartz veining. Silicification decreases with depth. Biotite increase to 10% with depth. Rock more chloritic with depth.	Po, Py, Cpy in qtz. vein	13408	1100	1105	5.0	T		.07		
				13409	1105	1110	5.0	T		.01		
				13410	1110	1115	5.0	T		.06		
				13411	1115	1120	5.0	T		.04		
				13412	1120	1125	5.0	T		.01		
				13413	1125	1130	5.0	T		.04		
				13414	1130	1135	5.0	T		.006		
				13415	1135	1140	5.0	T		.05		
				13416	1140	1145	5.0	T		.003		
				13417	1145	1150	5.0	T		.05		
				13418	1150	1155	5.0	T		.002		
				13419	1155	1157	2.0	T		.06		
		1020.3: 4" section-white feldspar crystals (10%) .5-1.0mm										
		1032.2: 1' section white feldspar - as above										
		1035.8: 1' section white feldspar - as above										
		1042.5: 1' section white feldspar - as above										
		1082.5: foliation 70° (tuffs?) 1' schistose section.										
1084	1157	BASIC FLOWS? - coarse grained 3-5mm, slightly schistose, dark green; massive, unfractured, no quartz veins, some feldspar stringers. More than 70% mafic (tremolite-actinolite-chlorite) in matrix of chlorite, minor carbonate, 20% Biotite. Soft, felty texture, some grain size variations may indicate a flow origin. Unit becomes coarser grained with depth. No mineralization.										
		1109: Schistosity 30° to core axis over a short section										
		1147: Schistosity 35°.										
1157		END OF HOLE										

P421290 P421291 P421487 P421483 P421478 P421473

38-71

39-9

39-7

39-10

39-2 39-4

39-8

39-1

39-6

P401006 P401019 P401020 39-3 P401023 P421479 P421474 P421469

39-5

200N Az 090°

260 E 280 E 300 E 320 E

P421408 P421409 P421418

35-1

P421407 P421410 P421417

N

AMOCO CANADA PETROLEUM COMPANY LTD.
SUITE 2310 - 55 QUEEN ST. WEST
TORONTO 1, ONTARIO

DRILL HOLE LOCATION

SUNDAY LAKE

M 3003

1"=600'

Nov/75

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE	LINE 284 + 00 EAST	STARTED	May 6th, 1975						
HOLE NO.	DLO - 74 - 39 - 1	DEPARTURE	STA. 203 + 00 NORTH	FINISHED	May 9th, 1975	200'	43°				
BEARING	180°	ELEVATION		LENGTH	650 FEET	400'	39½°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	BABU GAJARIA	600'	30½°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
0	26.0	CASING		A5796	26.0	30.0	4.0	T				
				A5797	30.0	35.0	5.0	T				
26.0	154.2	DIABASE: It is dark greenish - grey in colour, medium to coarse grained	1% Pyrite	A5798	35.0	40.0	5.0	.005				
		contains magnetite. Contains occasional lense of pyrrhotite and dissem-		A5799	40.0	45.0	5.0	T				
		inated pyrite.		A5800	45.0	50.0	5.0	T				
		53.2 - 60.0: Intermediate tuffaceous flow. Light purplish		A5801	50.0	53.0	3.0	T				
		grey in colour, poorly bedded. Contains		A5802	53.0	57.0	4.0	T	.02		.013	
		lenticular pyrite and some quartz veining.		A5803	57.0	60.0	3.0	T	.01		.008	
		1½% Py, ½% Po.		A5804	60.0	62.0	2.0	T				
		62.0 - 66.7: INTERMEDIATE TUFFACEOUS FLOW:		A5805	62.0	67.0	5.0	NIL	.04		.008	
		Similar in composition to above. 1% Pyrite,		A5806	67.0	72.0	5.0	NIL	.02		.007	
		½% Po.		A5807	72.0	77.0	5.0	NIL	.02		.011	
		66.7 - 75.8: Porphyrytic intermediate flow. 1½% Py.		A5808	77.0	80.0	3.0	NIL				
		106.3 - 106.6: Quartz veining with disseminated Pyrite.		A5809	80.0	85.0	5.0	NIL				
		64.0: Pyrite lense/core axis angle is 50°.		A5810	85.0	90.0	5.0	NIL				
				A5811	90.0	95.0	5.0	NIL				
154.2	216.1	MAFIC LAVA FLOW (1a)		A5812	95.0	100.0	5.0	NIL				
		Medium to coarse grained, amphibolised. Contains carbonate blebs in	Trace dissem. Py	A5813	100.0	105.0	5.0	NIL				
		essentially chloritic groundmass.		A5814	105.0	110.0	5.0	NIL				
		202.8 - 207.7: FELSIC TUFF (4c) Light purplish in colour,	1% Po, ½% Py	A5815	110.0	115.0	5.0	NIL				
		slightly cherty, contains thin bands of lenti-		A5816	115.0	120.0	5.0	T				
		cular pyrrhotite. No quartz veining.		A5817	120.0	125.0	5.0	T				
				A5818	125.0	130.0	5.0	N				
216.1	221.3	MAFIC LAVA FLOW (1a)		A5819	130.0	135.0	5.0	N				
		Fine grained, partly tuffaceous, light green in colour.		A5820	135.0	140.0	5.0	N				
		202.8: Contact/core axis angle is 50°.		A5821	140.0	145.0	5.0	N				
				A5822	145.0	150.0	5.0	N				
221.3	278.6	MAFIC TUFF (1c): May be Intermediate in composition. (2c)		A5823	150.0	155.0	5.0	N				
		It is well banded and schistose, amphibolised. Contains carbonate bands		A5824	155.0	160.0	5.0	N				
		and some carbonate veinlets. It contains intermixed mafic flow in places.		A5825	160.0	165.0	5.0	N				
		223.4 - 229.9: FELSIC TUFF (CHERTY) 3.		A5826	165.0	170.0	5.0	N				
		Main mineralized zone, it is identical to the		A5827	170.0	175.0	5.0	N				
		main mineralized zone in anomaly 38. The		A5828	175.0	180.0	5.0	N				
		tuff is heavily altered to chlorite and biotite	1½% Cpy	A5829	180.0	185.0	5.0	N				
		rich zones, however the unaltered cherty tuff		A5830	185.0	190.0	5.0	T				
		shows good bedding. The quartz veining is	1% Po	A5831	190.0	195.0	5.0	T				
		directly associated with the cherty bed and		A5832	195.0	200.0	5.0	T				
		absent in nearby country rock.	Visible gold	A5833	200.0	202.0	2.0	T				

REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
221.3	278.6	CONTD.		A5834	202.0	207.0	5.0	N			.005	
		223.4 - 229.9: Contd;		A5835	207.0	208.0	1.0	N			.006	
		Mineralization consists of stringer chalcopyrite and pyrrhotite and traces of visible gold.		A5836	208.0	210.0	2.0	N				
				A5837	210.0	215.0	5.0	N				
		244.0 - 245.0: INTERMEDIATE TUFF (2c)	1% Pyrite	A5838	215.0	220.0	5.0	T				
		It is cherty in places, however contains pyrite and sphalerite.	1% Sphalerite	A5839	220.0	223.0	3.0	T	.04	.09	.011	
				A5840	223.0	225.0	2.0	0.68	.13	0.54	.009	
		221.3 - 223.4:	1% Po, ½% Cpy	A5841	225.0	227.0	2.0	0.38	.28	1.18	.03	
		229.9 - 230.0:	½% Po, ½% Cpy, ½% Py	A5842	227.0	230.0	3.0	0.01	.18	0.63	.011	
		230.0 - 235.0:	½% Po, trace Cpy	A5843	230.0	235.0	5.0	0.02	.04	0.07	.005	
		235.0 - 240.0:	½% Py, ½% Po	A5844	235.0	240.0	5.0	0.01	.02	0.01	.003	
		240.0 - 244.0:	½% Py	A5845	240.0	244.0	4.0	T	.01	.01	.007	
		245.0 - 250.0:	½% Py	A5846	244.0	245.0	1.0	T	.03	.03	.18	
		250.0 - 260.0:	trace Py	A5847	245.0	250.0	5.0	T	.02	.02	.013	
		260.0 - 270.0:	½% Po, ½% Py	A5848	250.0	255.0	5.0	T	.02		.005	
		270.0 - 278.6:	½% Po, ½% Py	A5849	255.0	260.0	5.0	T	.01		.004	
				A5850	260.0	265.0	5.0	T	.02		.004	
278.6	354.8	FELSIC TUFF (4c) WITH FELSIC FLOW (4a)		A5851	265.0	270.0	5.0	N	.04		.007	
		Light purplish grey in colour, it is thinly bedded, contains euhedral crystals of pyrite along bedding plane.		A5852	270.0	275.0	5.0	N	.03		.004	
				A5853	275.0	278.0	3.0	T			.005	
		278.6 - 279.6:	½% Sphalerite, ½% Pyrite	A5854	278.0	280.0	2.0	T			.11	
		289.6 - 291.7: Fine grained mafic tuff		A5855	280.0	285.0	5.0	T			.008	
		304.6 - 305.0: Chlorite and some biotite rich alteration zone, probably altered from mafic tuff, it has sharp contacts with felsic flow on either side		A5856	285.0	290.0	5.0	T			.007	
				A5857	290.0	295.0	5.0	N			.007	
				A5858	295.0	300.0	5.0	T			.004	
		307.1 - 307.6: Chlorite - biotite - alteration zone.		A5859	300.0	305.0	5.0	T			.004	
		309.6 - 312.9: Mafic tuff.		A5860	305.0	310.0	5.0	T			.005	
		278.6 - 280.0:	½% Sphalerite, ½% Pyrite, trace Po	A5861	310.0	315.0	5.0	N			.010	
				A5862	315.0	320.0	5.0	N			.004	
		280.0 - 290.0:	1% Pyrite	A5863	320.0	325.0	5.0	N				
		290.0 - 300.0:	½% Pyrite	A5864	325.0	330.0	5.0	N				
		300.0 - 320.0:	1% Py.	A5865	330.0	335.0	5.0	N				
				A5866	335.0	340.0	5.0	N				
		227.0: Bedding/core axis angle is 55° (within mineralized felsic horizon)		A5867	340.0	345.0	5.0	T				
				A5868	345.0	350.0	5.0	N				
		267.0: Bedding/core axis angle is 55° (within intermediate tuff)		A5869	350.0	355.0	5.0	N				
				A5870	355.0	360.0	5.0	N				
		320.5 - 321.8: Mafic tuff: fine grained.		A5871	360.0	365.0	5.0	N				
		333.7 - 336.7: Chlorite rich alteration zone		A5872	365.0	370.0	5.0	N				
		338.9 - 340.3: Chlorite rich alteration zone		A5873	370.0	375.0	5.0	N				
				A5874	375.0	380.0	5.0	T				
354.8	483.6	CHLORITE ALTERATION ZONE (5a)		A5875	380.0	385.0	5.0	N				
		Well banded, light green to buff white bands the rock is soft, hardness 2½, and is extremely rich in chlorite. The chlorite is green to black in colour. Contains numerous tiny carbonate veinlets. The rock probably represents altered mafic tuff.		A5876	385.0	390.0	5.0	N				
				A5877	390.0	395.0	5.0	N				
				A5878	395.0	400.0	5.0	N				
				A5879	400.0	405.0	5.0	N				
		390.2 - 401.0: Felsic tuff: Light purplish grey in colour, well bedded, contains euhedral crystals of pyrite. The section is similar to (278.6 - 354.8).		A5880	405.0	410.0	5.0	N				
				A5881	410.0	415.0	5.0	N				
				A5882	415.0	420.0	5.0	N				
				A5883	420.0	425.0	5.0	N				
				A5884	425.0	430.0	5.0	N				
				A5885	430.0	435.0	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	ASSAYS Pb.
354.8	483.6	CONTD.		A5886	435.0	440.0	5.0	T		.007		
		320.0 - 360.0:	1% Pyrite	A5887	440.0	445.0	5.0	T		.05		
		360.0 - 390.0:	Trace Sulphides	A5888	445.0	450.0	5.0	.01		.23		
		390.0 - 410.0:	½% Pyrite	A5889	450.0	455.0	5.0	.005		.03		
		410.0 - 440.0:	trace Pyrite	A5890	455.0	460.0	5.0	.03		.07		
				A5891	460.0	465.0	5.0	N		.014		
		344.0: Bedding/core axis angle is 50°		A5892	465.0	470.0	5.0	N		.03		
		392.0: Bedding/core axis angle is 50°		A5893	470.0	475.0	5.0	N			.004	
				A5894	475.0	480.0	5.0	N			.006	
		440.0 - 450.0:	1% Py, ¼% Cpy	A5895	480.0	485.0	5.0	T			.005	
		450.0 - 460.0:	1½% Py, trace Cpy	A5896	485.0	490.0	5.0	T			.005	
		460.0 - 468.4:	1% Pyrite	A5897	490.0	495.0	5.0	T			.03	
		474.7 - 483.6:	2½% Py, trace Cpy	A5898	495.0	500.0	5.0	T			.011	
			may be leached out	A5899	500.0	505.0	5.0	N			.004	
			sphalerite	A5900	505.0	510.0	5.0	N			.04	
		465.9 - 466.1: Quartz vein with pyrite mineralization		A5901	510.0	515.0	5.0	N			.020	
		468.4 - 474.7: FELSIC TUFF: Light purplish green in colour and bedded, cherty, grades into intermediate tuff at the south contact with chloritised mafic tuff. The north contact with chlorite alteration zone is very sharp.		A5902	515.0	520.0	5.0	N			.012	
			1% Pyrite	A5903	520.0	525.0	5.0	N			.008	
			trace Po	A5904	525.0	530.0	5.0	N			.010	
				A5905	530.0	535.0	5.0	N			.004	
				A5906	535.0	540.0	5.0	N			.004	
				A5907	540.0	545.0	5.0	N			.003	
483.6	510.2	FELSIC AGGLOMERATE (4b)		A5908	545.0	550.0	5.0	N				
		The matrix is essentially mafic with felsic fragments (bombs) which range in size from 2cm to 2mm. The matrix is light green to grey in colour, one felsic fragment contains 1 lense, 5mm across of sphalerite.		A5909	550.0	555.0	5.0	N				
				A5910	555.0	560.0	5.0	N				
				A5911	560.0	565.0	5.0	N				
		483.6 - 490.0:	trace dissem. Py	A5912	565.0	570.0	5.0	N				
		490.0 - 500.0:	trace sulphides	A5913	570.0	575.0	5.0	N				
		500.0 - 510.0:	trace sulphides	A5914	575.0	580.0	5.0	N				
				A5915	580.0	585.0	5.0	N				
510.2	543.2	FELSIC TUFF (Cherty) (3): With intermixed felsic lava flow. Light purple in colour, it is cherty and thinly bedded. Contains tiny quartz eyes and disseminated pyrite along bedding plane.		A5916	585.0	590.0	5.0	N				
				A5917	590.0	595.0	5.0	N				
				A5918	595.0	600.0	5.0	T				
		527.1 - 530.8: Mafic tuff, fine grained, green in colour		A5919	600.0	605.0	5.0	N				
		510.0 - 520.0:	trace pyrite	A5920	605.0	610.0	5.0	T				
		520.0 - 530.0:	½% Pyrite	A5921	610.0	615.0	5.0	T				
		530.0 - 540.0:	trace dissem. Py.	A5922	615.0	620.0	5.0	T				
		540.0 - 543.2:	trace dissem. Py	A5923	620.0	625.0	5.0	N				
				A5924	625.0	630.0	5.0	N				
		474.0: Bedding/core axis angle is 45°		A5925	630.0	635.0	5.0	N				
		535.2 - 540.0: Mafic tuff and flow; fine grained, green in colour.		A5926	635.0	640.0	5.0	N				
		540.0 - 543.2: Intermixed felsic flow, felsic agglomerate and felsic tuff.		A5927	640.0	645.0	5.0	N				
				A5928	645.0	650.0	5.0	N				
543.2	586.2	INTERMEDIATE LAVA FLOW (2a)										
		Coarse grained, has a dioritic texture, however contains intercalated sections of fine grained mafic flows. The rock is amphibolised and contains coarse grained feldspar.	trace pyrite	650.0' END OF HOLE								

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

PROPERTY DETOUR LAKE HOLE NO. DLO-74-39-1 Page 4

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
586.2	632.6	FELSIC TUFFITE: (may be int. in composition) Light purple to grey in colour, well bedded, containing disseminated pyrite. 615.1 - 617.5: Mafic tuff 627.2 - 632.0: Lost Core 632.6 - 634.0: Lost Core						
632.6	650.0	INTERMEDIATE LAVA FLOW: (2a) Coarse grained with a dioritic texture, similar in composition to section (543.2 - 586.2) 601.0: Bedding/core axis angle is 50°.	½% dissem. Py					
	650.0	END OF HOLE						

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

PROPERTY	DETOUR LAKES	~~LATITUDE~~ LINE	284+ 00 EAST	STARTED	May 10th, 1975	DIP TEST Footage	Corrected	Footage	Corrected
HOLE NO.	DLO-74-39-2	~~DEPARTURE~~ STA.	210+ 50 NORTH	FINISHED	May 14th, 1975	200'	44°		
BEARING	180°	ELEVATION		LENGTH	752 FEET	400'	41½°		
DIP-COLLAR	-45°	SECTION		LOGGED BY	BABU GAJARIA	600'	38°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
0	21.0	CASING		A12001	21.0	25.0	4.0	N				
				A12002	25.0	30.0	5.0	N				
21.0	386.5	DIABASE: Medium to coarse grained, grey-green in colour and magnetic.		A12003	30.0	35.0	5.0	N				
		The rock is essentially made up of amphiboles and some carbonate lenses.	Trace dissem. Py	A12004	35.0	40.0	5.0	N				
		234.6 - 240.0: Mafic Lava Flow: (could be int. in composition) (la)	2% Dissem. Py.	A12005	40.0	45.0	5.0	N				
		Light grey-green in colour and fine grained.		A12006	45.0	50.0	5.0	N				
		240.0 - 240.6: Felsic Tuff: (4c): Light purple grey in colour		A12007	50.0	55.0	5.0	N				
		and bedded.		A12008	55.0	60.0	5.0	N				
		240.6 - 248.5: Mafic Lava Flow: (la): With some intermixed	1½% dissem. Py	A12009	60.0	65.0	5.0	N				
		tuff, fine grained, similar to above.		A12010	65.0	70.0	5.0	N				
		257.0 - 284.5: Intermixed mafic to Int. Lava Flow: (la+2a)		A12011	70.0	75.0	5.0	N				
		Dark grey-green in colour, chloritised in		A12012	75.0	80.0	5.0	N				
		places, it is magnetic and contains lenses of		A12013	80.0	85.0	5.0	N				
		pyrite along flow bands, in places it contains		A12014	85.0	90.0	5.0	N				
		euhedral coarse grains of pyrite.		A12015	90.0	95.0	5.0	N				
		286.4 - 286.5: Quartz vein with Py. mineralization.		A12016	95.0	100.0	5.0	N				
		288.3 - 288.8: Quartz - epidote vein with Cpy. mins.	1% Cpy	A12017	100.0	105.0	5.0	N				
		267.0: Banding/core axis angle is 65°.		A12018	105.0	110.0	5.0	N				
		301.0: Schistosity/core axis angle is 45°.		A12019	110.0	115.0	5.0	N				
		326.7 - 327.2: Mafic Lava Flow: (banded) 1% dissem. Py		A12020	115.0	120.0	5.0	N				
				A12021	120.0	125.0	5.0	N				
386.5	407.0	MAFIC LAVA FLOW: Light green in colour, amphibolised, with	trace sulphides	A12022	125.0	130.0	5.0	N				
		carbonate lenses. Rich chlorite and some talc. Non-magnetic.		A12023	130.0	135.0	5.0	N				
		387.3 - 387.5: Quartz vein with pyrite mineralization		A12024	135.0	140.0	5.0	N				
				A12025	140.0	145.0	5.0	N				
407.0	528.6	MAFIC LAVA FLOW: (with some intermixed tuff) (la)		A12026	145.0	150.0	5.0	N				
		Fine grained, light green in colour, contains numerous carbonate veinlets, weakly magnetic.	½% dissem. Po	A12027	150.0	155.0	5.0	N				
		415.0 - 422.0: MAIN MINERALIZED HORIZON (3)		A12028	155.0	160.0	5.0	N				
		The country rock varies from mafic to intermediate flow, a small section, 2"-3" of		A12029	160.0	165.0	5.0	N				
		cherty felsic tuff is present. The associated	1% Cpy	A12030	165.0	170.0	5.0	N				
		quartz veins show remnant banding, indicating	3% Po	A12031	170.0	175.0	5.0	N				
		cherty origin.	1% Py	A12032	175.0	180.0	5.0	T				
		Mins. consists of Po, Cpy, and Py, mostly		A12033	180.0	185.0	5.0	N				
		along planes of schistosity. Biotite alteration		A12034	185.0	190.0	5.0	N				
		is predominant at the north contact. The south		A12035	190.0	195.0	5.0	N				
		contact is characterised by chlorite alteration zone.		A12036	195.0	200.0	5.0	N				
				A12037	200.0	205.0	5.0	N				
				A12038	205.0	210.0	5.0	N				

REGISTERED PROFESSIONAL ENGINEER
P.J. MAINGOT
PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
407.0	528.6	CONTD.		A12039	210.0	215.0	5.0	N				
		444.3 - 450.4: FELSIC TUFF: (4c): Light purple in colour, fine grained fragments.	½% dissem. Po	A12040	215.0	220.0	5.0	T				
				A12041	220.0	225.0	5.0	T				
		479.3 - 483.9: Chlorite rich mafic flow: (5b): Light green, altered to green chlorite.	½% Py	A12042	225.0	230.0	5.0	N			.03	
			½% Po	A12043	230.0	235.0	5.0	N				
		422.0 - 425.0:	1% Py, 1%Po, trace Cpy	A12044	235.0	240.0	5.0	N			.006	
		425.0 - 430.0:	trace $S^=$	A12045	240.0	245.0	5.0	T			.004	
		430.0 - 440.0:	½% Py, ½% Po, trace Cpy	A12046	245.0	250.0	5.0	N			.004	
		440.0 - 450.0:	⅓% Py + Po	A12047	250.0	255.0	5.0	N				
		450.0 - 460.0:	trace Py	A12048	255.0	260.0	5.0	.005				
		460.0 - 470.0:	trace Py	A12049	260.0	265.0	5.0	.005				
		470.0 - 480.0:	½% Py	A12050	265.0	270.0	5.0	T				
		480.0 - 490.0:	1% Py	A12051	270.0	275.0	5.0	T				
		490.0 - 500.0:	trace Py	A12052	275.0	280.0	5.0	T				
		500.0 - 505.0:	trace Py	A12053	280.0	285.0	5.0	N		.007	.006	
		505.0 - 515.0:	½% Py, ½% Po	A12054	285.0	290.0	5.0	N		.020	.007	
		515.0 - 525.0:	trace $S^=$	A12055	290.0	295.0	5.0	N		.008	.009	
				A12056	295.0	300.0	5.0	N		.009	.006	
		444.2': Contact/core axis angle is 75°		A12057	300.0	305.0	5.0	N				
				A12058	305.0	310.0	5.0	N				
528.6	601.4	FELSIC FLOW: (4a) WITH FELSIC TUFF (4c)		A12059	310.0	315.0	5.0	N				
		Light grey to purple in colour, shows good flow banding, thinly bedded in		A12060	315.0	320.0	5.0	N				
		places. Po is present along schistose planes.		A12061	320.0	325.0	5.0	N				
		539.7 - 540.6: Mafic flow: Light green in colour, rich in biotite and chlorite.		A12062	325.0	330.0	5.0	N				
				A12063	330.0	335.0	5.0	N				
		556.5 - 557.2: Mafic flow - similar to above.		A12064	335.0	340.0	5.0	N				
		563.5 - 575.1: Felsic tuffite - intermixed felsic tuffs and sediments.		A12065	340.0	345.0	5.0	N				
				A12066	345.0	350.0	5.0	N				
		575.1 - 576.1: Mafic flow, coarse grained, amphibolised.		A12067	350.0	355.0	5.0	N				
		591.6 - 592.0: Mafic flow, altered to talc - chlorite rich rock.		A12068	355.0	360.0	5.0	N				
		525.0 - 535.0:	½% Py, ½% Po	A12069	360.0	365.0	5.0	N				
		535.0 - 555.0:	2% euhedral dissem. Py	A12070	365.0	370.0	5.0	N				
		555.0 - 565.0:	1% euhedral dissem. Py	A12071	370.0	375.0	5.0	N				
		565.0 - 575.0:	2% dissem. Py	A12072	375.0	380.0	5.0	N				
		575.0 - 595.0:	1% dissem. Py	A12073	380.0	385.0	5.0	N				
		595.0 - 600.0:	trace Py	A12074	385.0	387.0	2.0	T				
				A12075	387.0	388.0	1.0	T				
		540.0: Contact/core axis angle is 80°		A12076	388.0	390.0	2.0	T				
		570.0: Bedding/core axis angle is 50°		A12077	390.0	395.0	5.0	T		.010		
				A12078	395.0	400.0	5.0	T		.008		
601.4	752.0	CHLORITE ALTERATION ZONE (5b)		A12079	400.0	405.0	5.0	T		.009		
		Light green in colour. The rock was originally intermediate to mafic		A12080	405.0	410.0	5.0	T		.008	.004	
		lava flow and mafic tuff, it has now been altered to talc - carbonate and		A12081	410.0	413.0	3.0	T		.009	.005	
		chlorite rock, especially rich in chlorite. The rock gives a banded		A12082	413.0	415.0	2.0	T		.07	.010	
		appearance, some biotite is present. Contains 6" intercalated section		A12083	415.0	417.0	2.0	.01		.29	.011	
		of talc - tremolite (coarse grained) rock. The degree of alteration to		A12084	417.0	420.0	3.0	.01		.38	.008	
		chlorite increases to the south.		A12085	420.0	422.0	2.0	.01		.15	.010	
		606.8 - 613.0: Felsic agglomerate - shows occasional felsic fragment in essentially mafic groundmass.		A12086	422.0	425.0	3.0	T		.05	.005	
				A12087	425.0	430.0	5.0	T		.008	.006	
				A12088	430.0	435.0	5.0	T		.03	.005	
				A12089	435.0	440.0	5.0	T		.03	.008	
				A12090	440.0	445.0	5.0	N		.016	.008	

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
601.4	752.0	CONTD.	
		675.8 - 684.6: felsic lava flow: with some intermixed felsic tuff.	1% dissem. Py
		601.4 - 699.0: (Within chlorite alteration zone)	Trace $S^{=}$
		699.0 - 752.0: Heavy alteration to talc and chlorite.	Trace Cpy
		706.0 - 708.4: Intermixed felsic flow and tuff	Trace Po
		722.4 - 723.6: Felsic Tuff	1% Py, $\frac{1}{2}$% Cpy
		745.1 - 748.2: Felsic tuff and felsic flow	Trace sulphides
		745.0: Contact/core axis angle is 75°	
752.0		END OF HOLE	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
A12091	445.0	450.0	5.0	N		.005	.004	
A12092	450.0	455.0	5.0	N		.018	.009	
A12093	455.0	460.0	5.0	N		.017	.027	
A12094	460.0	465.0	5.0	T		.016	.005	
A12095	465.0	470.0	5.0	T		.017	.006	
A12096	470.0	475.0	5.0	T		.022	.005	
A12097	475.0	480.0	5.0	T		.03	.007	
A12098	480.0	485.0	5.0	T		.015	.016	
A12099	485.0	490.0	5.0	T		.021	.022	
A12100	490.0	495.0	5.0	T		.024	.008	
A12101	495.0	500.0	5.0	T		.016	.006	
A12102	500.0	505.0	5.0	T		.017	.004	
A12103	505.0	510.0	5.0	T				
A12104	510.0	515.0	5.0	T				
A12105	515.0	520.0	5.0	T				
A12106	520.0	525.0	5.0	T				
A12107	525.0	530.0	5.0	T				
A12108	530.0	535.0	5.0	T				
A12109	535.0	540.0	5.0	T				
A12110	540.0	545.0	5.0	T			.009	
A12111	545.0	550.0	5.0	N			.005	
A12112	550.0	555.0	5.0	N			.003	
A12113	555.0	560.0	5.0	N			.008	
A12114	560.0	565.0	5.0	N			.004	
A12115	565.0	570.0	5.0	T			.007	
A12116	570.0	575.0	5.0	T			.003	
A12117	575.0	580.0	5.0	T			.003	
A12118	580.0	585.0	5.0	T			.004	
A12119	585.0	590.0	5.0	T			.010	
A12120	590.0	595.0	5.0	T			.005	
A12121	595.0	600.0	5.0	N			.006	
A12122	600.0	605.0	5.0	Tr				
A12123	605.0	610.0	5.0	Tr				
A12124	610.0	615.0	5.0	Tr				
A12125	615.0	620.0	5.0	NIL				
A12126	620.0	625.0	5.0	NIL				
A12127	625.0	630.0	5.0	NIL				
A12128	630.0	635.0	5.0	Tr				
A12129	635.0	640.0	5.0	Tr				
A12130	640.0	645.0	5.0	Tr				
A12131	645.0	650.0	5.0	Tr				
A12132	650.0	655.0	5.0	NIL				
A12133	655.0	660.0	5.0	NIL				
A12134	660.0	665.0	5.0	Tr				
A12135	665.0	670.0	5.0	Tr				
A12136	670.0	675.0	5.0					
A12137	675.0	680.0	5.0	N			.002	
A12138	680.0	685.0	5.0	N			.005	
A12139	685.0	690.0	5.0	N				
A12140	690.0	695.0	5.0	N				
A12141	695.0	700.0	5.0	T				
A12142	700.0	705.0	5.0	N				

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

PROPERTY DETOUR LAKES HOLE NO. DLO-74-39-2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	ASSAYS Pb.
				A12143	705.0	710.0	5.0	N				
				A12144	710.0	715.0	5.0	T				
				A12145	715.0	720.0	5.0	T				
				A12146	720.0	725.0	5.0	.05				
				A12147	725.0	730.0	5.0	T				
				A12148	730.0	735.0	5.0	.03				
				A12149	735.0	740.0	5.0	N				
				A12150	740.0	745.0	5.0	N				
				A12151	745.0	750.0	5.0	N				
				A12152	750.0	752.0	2.0	N				
				752.0' END OF HOLE								

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE	LINE 288 + 00 EAST	STARTED	June 1st, 1975						
HOLE NO.	DLO - 74 - 39 - 4	DEPARTURE	STA. 211 + 50 NORTH	FINISHED	June 3rd, 1975	200'	40°				
BEARING	180°	ELEVATION		LENGTH	477'	400'	38°				
DIP-COLLAR	45°	SECTION		LOGGED BY	BABU GAJARIA						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	60	CASING	
60.0	61.2	FELSIC TUFF (4c)	
		Purplish gray in colour, well bedded, containing fine to medium grained disseminated pyrite. Contains sericite rich bands.	2% Pyrite
61.2	284.7	MAFIC LAVA FLOW (1a)	
		Grey-green in colour, moderately schistose, containing carbonate lenses. It contains some magnetite rich sections as indicated below.	½% - 3/4% diss. Py
		75.8 - 75.9: FELSIC FLOW: Purple gray in colour, showing flow banding.	1% diss. py
		78.0 - 78.3: Intermixed felsic flow and tuff.	1% diss. Pyrite
		81.4 - 81.7: Intermixed felsic flow and tuff.	
		85.6 - 85.9: Felsic tuff - sharp contacts on either side with mafic flow.	
		86.3 - 86.5: Felsic tuff - same as above.	
		87.5 - 87.9: Quartz vein.	½% diss. pyrite
		88.0 - 90.0: Chlorite alteration zone.	1% diss. py
		93.6 - 146.9: MAGNETITE RICH SECTION: especially localised within mafic flow.	1½% Magnetite
		122.8 - 123.0: Felsic tuff.	
		123.0 - 128.0: SERPENTINIZED ZONE: talc-chlorite carbonate rock. Pastel green in colour, well schistose, probably tuffaceous in origin.	
		131.6 - 135.0: SERPENTINIZED ZONE: talc-chlorite - carbonate rock.	
		145.0 - 229.8: Coarse grained mafic flow: characteristic leopard skin texture.	trace sulphide
		61.0: bedding/core axis angle is 60°.	
		186.8 - 187.6: SERPENTINIZED ZONE: pastel green in colour, schistose, talc - chlorite rock.	5% pyrite
284.7	316.0	MAFIC TUFF (1c): Light gray-green in colour, well schistose, segregation into light coloured and dark coloured minerals.	1% diss. py + po
		286.8 - 287.1: Intermediate lava flow.	1% diss. py
		292.3 - 295.6: INTERMIXED FELSIC TUFF AND FLOW: purplish grey in colour. It has sharp contacts on either side with mafic flow.	1% diss. po

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
A12258	60.0	65.0	5.0	T			
A12259	65.0	70.0	5.0	.03			
A12260	70.0	75.0	5.0	T			
A12261	75.0	80.0	5.0	T			
A12262	80.0	85.0	5.0	T			
A12263	85.0	90.0	5.0	T			
A12264	90.0	95.0	5.0	T			
A12265	95.0	100.0	5.0	T			
A12266	100.0	105.0	5.0	T			
A12267	105.0	110.0	5.0	.04			
A12268	110.0	115.0	5.0	T			
A12269	115.0	120.0	5.0	.02			
A12270	120.0	125.0	5.0	T			
A12271	125.0	130.0	5.0	.01			
A12272	130.0	135.0	5.0	T			
A12273	135.0	140.0	5.0	T			
A12274	140.0	145.0	5.0	N			
A12275	145.0	150.0	5.0	N			
A12276	150.0	155.0	5.0	N			
A12277	155.0	160.0	5.0	T			
A12278	160.0	165.0	5.0	N			
A12279	165.0	170.0	5.0	N			
A12280	170.0	175.0	5.0	N			
A12281	175.0	180.0	5.0	N			
A12282	180.0	185.0	5.0	N			
A12283	185.0	190.0	5.0	N			
A12284	190.0	195.0	5.0	N			
A12285	195.0	200.0	5.0	N			
A12286	200.0	205.0	5.0	N			
A12287	205.0	210.0	5.0	T			
A12288	210.0	215.0	5.0	T			
A12289	215.0	220.0	5.0	T			
A12290	220.0	225.0	5.0	N			
A12291	225.0	230.0	5.0	N			
A12292	230.0	235.0	5.0	N			
A12293	235.0	240.0	5.0	N			
A12294	240.0	245.0	5.0	N			
A12295	245.0	250.0	5.0	N			
A12296	250.0	255.0	5.0	n			

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
				A12297	255.0	260.0	5.0	N			
255.7	316.0	CONTD.		A12298	260.0	265.0	5.0	N			
		295.6 - 296.4: Chlorite alteration zone: pastel green in colour, well schistose.		A12299	265.0	270.0	5.0	N			
				A12300	270.0	275.0	5.0	N			
				A12301	275.0	280.0	5.0	N			
316.0	357.0	MAFIC LAVA FLOW (1a)		A12302	280.0	285.0	5.0	N			
		Medium to coarse grained, amphibolised, contains some intercalated	trace sulphides	A12303	285.0	290.0	5.0	T			
		fine grained sections of mafic flow.		A12304	290.0	295.0	5.0	T			
		336.4 - 336.6: Quartz vein, trace pyrite at the wall.		A12305	295.0	300.0	5.0	N			
		295.8: Contact/core axis angle is 50°.		A12306	300.0	305.0	5.0	N			
		306.0: Bedding/core axis angle is 52°.		A12307	305.0	310.0	5.0	N			
				A12308	310.0	315.0	5.0	T			
357.0	361.0	INTERMIXED MAFIC FLOW AND FELSIC FLOW AND TUFF	1% py, 1% po, tr. cpy	A12309	315.0	320.0	5.0	T			
				A12310	320.0	325.0	5.0	.005			
361.0	466.8:	FELSIC TUFF (4c): purple grey in colour, thinly bedded, contains some	1½% diss. py	A12311	325.0	330.0	5.0	.005			
		intermixed felsic flow.		A12312	330.0	335.0	5.0	T			
		364.0: Bedding/core axis angle is 75°.		A12313	335.0	340.0	5.0	T			
		370.7 - 373.0: Mafic Tuff: grayish black in colour, medium	1% diss. py	A12314	340.0	345.0	5.0	N			
		grained fragments.		A12315	345.0	350.0	5.0	T			
		388.3 - 388.9: Quartz vein with disseminated pyrite		A12316	350.0	355.0	5.0	T		0.02	
		435.2 - 438.2: Chert rich felsic tuff	2% diss. py	A12317	355.0	357.0	2.0	T		0.010	
		446.6 - 457.6: MAFIC FLOW:		A12318	357.0	362.0	5.0	N		0.06	
		Fine grained at the north. Contact with felsic	1% diss. py	A12319	362.0	365.0	3.0	T		0.03	
		tuff, but becoming coarser grained to the		A12320	365.0	370.0	5.0	N			
		south and amphibolised.		A12321	370.0	375.0	5.0	N			
		463.2 - 465.4: MAFIC LAVA FLOW AND MAFIC TUFF:		A12322	375.0	380.0	5.0	N			
		Fine grained, grey-green - schistose.		A12323	380.0	385.0	5.0	N			
				A12324	385.0	390.0	5.0	N			
466.8	477.0	MAFIC LAVA FLOW: (1a)		A12325	390.0	395.0	5.0	N			
		Coarse grained, dark green in colour and amphibolised.	trace sulphides	A12326	395.0	400.0	5.0	N			
		430.0: bedding/core axis angle is 70°.		A12327	400.0	405.0	5.0	N			
		457.6: Contact/core axis angle is 60°.		A12328	405.0	410.0	5.0	N			
				A12329	410.0	415.0	5.0	N			
				A12330	415.0	420.0	5.0	N			
477.0		END OF HOLE		A12331	420.0	425.0	5.0	N			
				A12332	425.0	430.0	5.0	N			
				A12333	430.0	435.0	5.0	N			
				A12334	435.0	440.0	5.0	T			
				A12335	440.0	445.0	5.0	T			
				A12336	445.0	450.0	5.0	T			
				A12337	450.0	455.0	5.0	T			
				A12338	455.0	460.0	5.0	N			
				A12339	460.0	465.0	5.0	N			
				A12340	465.0	470.0	5.0	N			
				A12341	470.0	475.0	5.0	T			
				A12342	475.0	477.0	2.0	N			

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

PROPERTY	DETOUR LAKES	LINE: STA	280 + 00 EAST	STARTED	25th May, 1975
HOLE NO.	DLO - 74 - 39 - 3	DEPARTURE	206 + 50 NORTH	FINISHED	29th May, 1975
BEARING	180° (GRID SOUTH)	ELEVATION		LENGTH	590.0 FEET
DIP-COLLAR	-45°	SECTION		LOGGED BY	BABU GAJARIA

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	41½°				
400'	37½°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	75.0	CASING	
75.0	146.0	MAFIC LAVA FLOW: (1a) Grey-green in colour, rich in chlorite and magnetite. The core has been returned in small broken pieces, which expose oxidized sulphides indicatingpercolating groundwater through fractures. The rock contains carbonate veinlets. In places the rock takes a diabasic texture, showing characteristic weathered feldspar.	Trace pyrite
146.0	200.2	INTERMIXED INTERMEDIATE FLOW AND TUFF (2a + 2c) Grey-green to purple in colour, medium grained, contains weathered feldspar and is moderately magnetic. Contains medium to fine grained fragments of quartz. The rock is amphibolised in places and is well schistose. The pyrite content increases at the contact with mafic lava flow (i.e. around 200 feet). 152.0 - 165.6: Mafic lava flow: Grey green in colour, porphyrytic in places, weakly magnetic, no carbonate veins differs from mafic flow section 104.3' - 146.0. 182.3 - 191.3: Mafic lava flow: Light pastel green in colour fine grained, chloritic and schistose. 196.4 - 200.2: Intermixed intermediate tuff and flow: very fine grained, greyish purple in colour. 199.8 - 200.2: Quartz vein: contains lenticular chalcopyrite at the wall and within the vein. 170.0: Bedding/core axis angle is 65°.	½% dissem. Py trace pyrite trace sulphides 1% dissem. pyrite ½% chalcopyrite
200.2	221.3	MAFIC LAVA FLOW: (1a) Coarse grained, characteristic leopard skin type of texture - where green coarse grained crystals of amphiboles form islands within a feldspar matrix - shows good flow features. The flow becomes finer grained to the south and more schistose, and more tuffaceous showing volcanic shards. There is an increase in pyrite content at the contact with the felsic tuff. The contact with felsic tuff is sharp.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
A12153	75.0	80.0	5.0	T				
A12154	80.0	85.0	5.0	T				
A12155	85.0	90.0	5.0	T				
A12156	90.0	95.0	5.0	N				
A12157	95.0	100.0	5.0	N				
A12158	100.0	105.0	5.0	N				
A12159	105.0	110.0	5.0	N				
A12160	110.0	115.0	5.0	N				
A12161	115.0	120.0	5.0	N				
A12162	120.0	125.0	5.0	N				
A12163	125.0	130.0	5.0	N				
A12164	130.0	135.0	5.0	N				
A12165	135.0	140.0	5.0	N				
A12166	140.0	145.0	5.0	N				
A12167	145.0	150.0	5.0	T				
A12168	150.0	155.0	5.0	N				
A12169	155.0	160.0	5.0	N				
A12170	160.0	165.0	5.0	N				
A12171	165.0	170.0	5.0	N				
A12172	170.0	175.0	5.0	N				
A12173	175.0	180.0	5.0	N				
A12174	180.0	185.0	5.0	N				
A12175	185.0	190.0	5.0	N				
A12176	190.0	195.0	5.0	N				
A12177	195.0	199.5	4.5	N				
A12178	199.5	200.5	1.0	N				
A12179	200.5	205.0	4.5	T				
A12180	205.0	210.0	5.0	T				
A12181	210.0	215.0	5.0	T				
A12182	215.0	220.0	5.0	T				
A12183	220.0	225.0	5.0	T				
A12184	225.0	230.0	5.0	T				
A12185	230.0	235.0	5.0	T		0.04		
A12186	235.0	240.0	5.0	N		0.02		
A12187	240.0	245.0	5.0	N				
A12188	245.0	250.0	5.0	N				
A12189	250.0	255.0	5.0	N				
A12190	VOID		VOID	VOID				

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
221.3	244.8	FELSIC TUFF: (4c) (Main Conductor)		A12191	255.0	260.0	5.0	N				
		It is purplish grey in colour, very thinly bedded, slightly cherty in places.		A12192	260.0	265.0	5.0	N				
		The tuff contains some intermixed felsic flow. Contains disseminated	1½% pyrite	A12193	265.0	270.0	5.0	N				
		pyrite, which varies from medium grained to porphyoblastic. The pyrite		A12194	270.0	275.0	5.0	N				
		lies parallel to the bedding.		A12195	275.0	280.0	5.0	N				
		240.0: Bedding/core axis angle is 60°.		A12196	280.0	285.0	5.0	N				
				A12197	285.0	290.0	5.0	N				
244.8	426.4	CHLORITE ALTERATION ZONE: (5b)		A12198	290.0	295.0	5.0	T				
		Light pastel green in colour, slightly talcy, containing green chlorite.		A12199	295.0	300.0	5.0	N				
		At the contact with felsic tuff above, the rock is least altered and is	trace sulphides	A12200	300.0	305.0	5.0	N				
		coarse grained mafic flow. The rock is well schistose and weakly		A12201	305.0	310.0	5.0	N				
		magnetic. No quartz veins.		A12202	310.0	315.0	5.0	N				
		280.9 - 287.3: felsic tuff: (4c)		A12203	315.0	320.0	5.0	N				
		Light purple grey in colour, containing fine		A12204	320.0	325.0	5.0	N				
		grained fragments of quartz, very thinly		A12205	325.0	330.0	5.0	N				
		bedded, contains very little intermixed felsic		A12206	330.0	335.0	5.0	N				
		flow.		A12207	335.0	340.0	5.0	N				
		287.3 - 292.0: Mafic Tuff: (1c)		A12208	340.0	345.0	5.0	N				
		Grey-green in colour, bedding non-existant,	1% euhedral pyrite	A12209	345.0	350.0	5.0	N				
		fragments are fine to medium grained.		A12210	350.0	355.0	5.0	N				
		342.5 - 343.5: Felsic Agglomerate: (4b)		A12211	355.0	360.0	5.0	N				
		Containing 1 rhyolitic fragment, which is		A12212	360.0	365.0	5.0	N				
		1" by ½".		A12213	365.0	370.0	5.0	N				
		344.7 - 344.9: Quartz vein - barren.		A12214	370.0	375.0	5.0	T				
		352.2 - 356.2: Mafic Tuff: (1c) Very fine grained, bedding		A12215	375.0	380.0	5.0	N				
		almost non-existant, grey-green to black in		A12216	380.0	385.0	5.0	N				
		colour. No sulphides.		A12217	385.0	390.0	5.0	N				
		369.3 - 381.1: Mafic to Intermediate Tuff: (1c or 2c)		A12218	390.0	395.0	5.0	N				
		Grey-green in colour, quartz-feldspar; med-		A12219	395.0	400.0	5.0	N				
		ium grained fragments.		A12220	400.0	405.0	5.0	N				
		385.6 - 388.2: Intermediate tuff (may be felsic): fine	½% diss. Py	A12221	405.0	410.0	5.0	N				
		grained, poorly bedded, greyish purple in		A12222	410.0	415.0	5.0	N				
		colour.		A12223	415.0	420.0	5.0	N				
		388.2 - 395.7: Felsic Agglomerate:		A12224	420.0	425.0	5.0	N				
		Matrix is green chloritic, medium to coarse		A12225	425.0	430.0	5.0	N				
		grained fragments of felsic lava, fragments		A12226	430.0	435.0	5.0	N				
		occupy 5% of the area.		A12227	435.0	440.0	5.0	N				
		409.2 - 412.8: Felsic Tuff: Purplish grey in colour, sharp		A12228	440.0	445.0	5.0	T				
		contact to the north with chlorite alteration	½% diss. Pyrite	A12229	445.0	450.0	5.0	N				
		zone above, coarser grained to the scuth.		A12230	450.0	455.0	5.0	T				
				A12231	455.0	460.0	5.0	.005				
426.4	457.2	INTERMEDIATE FLOW (DIORITIC TEXTURE) (2a)		A12232	460.0	465.0	5.0	T		0.01	0.004	
		The rock has a gradational contact with the chloritised zone above. It		A12233	465.0	470.0	5.0	N		0.04	0.005	
		has a dioritic texture with 50% quartz and 50% mafic content. The rock	½% diss. Pyrite	A12234	470.0	475.0	5.0	N		0.19	0.006	
		has a moderately developed schistosity and is amphibolised. The rock		A12235	475.0	480.0	5.0	N		0.05	0.005	
		grades into an amphibolite at the south contact.		A12236	480.0	485.0	5.0	N		0.11	0.005	
		409.2: Contact/core axis angle is 60°.		A12237	485.0	490.0	5.0	N		0.07	0.006	
		409.2: Bedding/core axis angle is 60°.		A12238	490.0	495.0	5.0	N		0.04	0.007	
		414.0: Schistosity/core axis angle is 70°		A12239	495.0	500.0	5.0	N		0.02	0.005	
		442.9 - 443.3: Quartz vein - barren		A12240	500.0	505.0	5.0	N			0.006	
		448.1 - 448.3: Quartz vein - barren		A12241	505.0	510.0	5.0	N			0.006	

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
457.2	525.8	MAFIC TO INTERMEDIATE FLOW (1a and 2a)		A12242	510.0	515.0	5.0	N			0.003	
		Green in colour, well schistose, segregation into mafic (essentially		A12243	515.0	520.0	5.0	N			0.005	
		amphibole) and feldspar bands. Rich in thin continuous lenses of biotite,		A12244	520.0	525.0	5.0	N			0.005	
		good flow features. It is amphibolised, with dioritic texture in places.		A12245	525.0	530.0	5.0	N		0.02		
		The following sulphide zone was not picked up either by CEM, RADEM		A12246	530.0	535.0	5.0	N				
		OR VERTICAL LOOP: -		A12247	535.0	540.0	5.0	N				
		467.0 - 470.0:	4% Py, 1% Po trace cpy	A12248	540.0	545.0	5.0	N				
		470.0 - 475.0:	5% Po, 1% py trace cpy	A12249	545.0	550.0	5.0	N				
		475.0 - 480.0:	7% Po, $\frac{1}{2}$% Py $\frac{1}{4}$% cpy	A12250	550.0	555.0	5.0	N				
		480.0 - 485.0:	7% Po, 1% py trace cpy	A12251	555.0	560.0	5.0	N				
		485.0 - 490.0:	7% po, $\frac{1}{2}$% py trace cpy	A12252	560.0	565.0	5.0	N				
		490.0 - 495.0:	2% py, trace cpy	A12253	565.0	570.0	5.0	N				
		495.0 - 500.0:	4% py	A12254	570.0	575.0	5.0	N				
		500.0 - 505.0:	3% py	A12255	575.0	580.0	5.0	N				
		505.0 - 510.0:	$\frac{1}{2}$% diss. py	A12256	580.0	585.0	5.0	N				
		510.0 - 515.0:	trace py	A12257	585.0	590.0	5.0	T				
		515.0 - 520.0:	2% diss. py									
		520.0 - 525.0:	$\frac{1}{2}$% diss. py									
		The sulphide zone is heavily chloritised.										
		506.5 - 506.7: Quartz vein										
		506.3 - 507.3: Felsic agglomerate										
525.8	582.9	FELSIC TUFF (4c)										
		Purple grey in colour, thinly bedded, medium grained fragments.	$\frac{1}{2}$% euhedral pyrite									
		Well foliated.										
		466.0: Bedding/core axis angle is 40°.										
		526.0: Contact/core axis angle is 50°.										
		532.0 - 533.1: Mafic Tuff: (1c) Green-chloritic with streaky biotite and carbonate.										
		537.9 - 542.6: Mafic Lava Flow: (1a) Green chloritic, amphibolised, medium grained, carbonate veinlets.										
		542.6 - 554.9: Felsic Lava Flow (4a): Dark purple in colour, massive, showing good flow features.	$\frac{1}{2}$% diss. pyrite									
		554.9 - 555.7: Basic Intrusive Dyke (not diabase) Dark grey in colour, having sharp contacts on either side with felsic tuff.										
		568.7 - 577.2: Mafic Lava Flow (1a) Amphibolised, medium grained, north contact is heavily altered to chlorite (green).										
		580.3 - 580.5: Quartz vein.										
582.9	590.0	MAFIC LAVA FLOW (1a)										
		Chloritic and amphibolised.										
		532.0: Contact/core axis angle is 70°.										
		578.0: Bedding/core axis angle is 55°.										
[illegible]90.0		END OF HOLE										

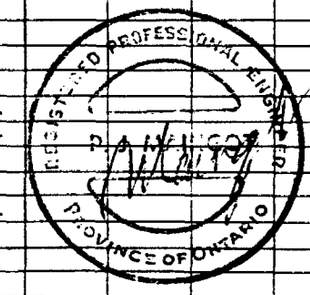
FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
				A12806	274.0	279.0	5.0	N			
210.5	284.0	MAFIC FLOW (1a)		A12807	279.0	284.0	5.0	N			
		Contact 60° to C.A.		A12808	284.0	289.0	5.0	N		.01	
		Fine to medium grained mafic flow - massive - chloritic in places		A12809	289.0	294.0	5.0	N		.02	
		210.5 - 284: Trace py	trace py	A12810	294.0	299.0	5.0	N		.01	
		214: ½" quartz vein		A12811	299.0	304.0	5.0	N		.02	
		216: 1" quartz vein		A12812	304.0	309.0	5.0	N			
		230 - 284: Becomes a medium grained flow, massive		A12813	309.0	314.0	5.0	N			
		230.5 - 232.5: ½" quartz vein parallel to C.A. Trace cpy	trace cpy	A12814	314.0	319.0	5.0	N			
		240: 1" quartz vein		A12815	319.0	324.0	5.0	N			
				A12816	324.0	329.0	5.0	N			
284.0	406.0	MAFIC FLOWS (1a) INTERBEDDED WITH FELSIC TUFF (4c) OR		A12817	329.0	334.0	5.0	N			
		FLOWS (4a)		A12818	334.0	339.0	5.0	N			
		284 - 287: Light grey felsic tuff. Foliation 49° to C.A.		A12819	339.0	343.0	4.0	N			
		½% sulphides Po, py trace cpy along	½% sulphides po, py	A12820	343.0	348.0	5.0	N			
		foliation	trace cpy	A12821	348.0	353.0	5.0	N			
		287 - 291: Mafic medium grained flow	½% sulphides Po, py	A12822	353.0	358.0	5.0	N			
			trace cpy	A12823	358.0	363.0	5.0	N			
		291 - 301: Light grey felsic tuff as 284 - 287 (4c)	½% sulphides Po py	A12824	363.0	368.0	5.0	N			
			trace cpy	A12825	368.0	373.0	5.0	N			
		301 - 310: Mafic fine to medium grained flow chloritic	Trace py	A12826	373.0	378.0	5.0	N			
		Trace py		A12827	378.0	384.0	6.0	N			
		310 - 316: Light grey felsic tuff as 284 - 287 (4c)	Trace py	A12828	384.0	385.0	1.0	N			
		316 - 343: Fine to medium grained mafic flow non-mag-		A12829	385.0	390.0	5.0	N			
		netic		A12830	390.0	395.0	5.0	N			
		329: ½" quartz vein (1a)		A12831	395.0	400.0	5.0	N			
		343 - 350: Grey felsic to intermediate porphyritic flow		A12832	400.0	406.0	6.0	N			
		(4a) sharp contact at 60° to C.A. <1mm white		A12833	406.0	411.0	5.0	N			
		feldspar phenocrysts or light blue quartz eyes		A12834	411.0	416.0	5.0	N			
		Trace po, py, cpy	trace po, py, cpy	A12835	416.0	421.0	5.0	N			
		350 - 406: Fine to medium grained mafic flow - chloritic		A12836	421.0	426.0	5.0	N			
		in lower part of section; trace po, py (upto 1%	tr po, py	A12837	426.0	431.0	5.0	N			
		in short sections) (1a)		A12838	431.0	436.0	5.0	N			
		352 - 353: Light grained felsic flow		A12839	436.0	441.0	5.0	N			
		367: 3/4" quartz vein with orthoclase phenocrysts		A12840	441.0	446.0	5.0	T			
		384 - 385: Trace silver metallic Ag or Bi	Ag or Bi	A12841	446.0	451.0	5.0	T			
		386 - 389: Light grey felsic tuff with quartz veins		A12842	451.0	456.0	5.0	T			
		395 - 397: Light grey felsic tuff flow contact 24° to C.A.		A12843	456.0	461.0	5.0	T			
				A12844	461.0	466.0	5.0	T			
406.0	413.0	TALC CARBONATE SCHIST - ULTRAMAFIC FLOW (6a)		A12845	466.0	471.0	5.0	N			
		Very gradational contact. trace po, py	tr po, py	A12846	471.0	476.0	5.0	N			
				A12847	476.0	481.0	5.0	N			
413.0	438.0	FINE TO MEDIUM GRAINED MAFIC FLOWS (1a)		A12848	481.0	486.0	5.0	N			
		Mostly medium grained chloritic, garnetiferous magnetic		A12849	486.0	491.0	5.0	N			
		1½% py, po	½% py, po	A12850	491.0	496.0	5.0	N			
		413 - 414: Grey felsic tuff - trace po, py	trace po, py	A12851	496.0	501.0	5.0	N			
		417 - 419: Grey felsic tuff - no visible sulphides		A12852	501.0	506.0	5.0	N			
				A12853	506.0	511.0	5.0	N			
[illegible].0	475.0	GREY INTERMEDIATE TUFF - MASSIVE (2c)		A12854	511.0	516.0	5.0	N			
		Bedding 53° to C.A. Trace po, py	trace po, py	A12855	516.0	521.0	5.0	N			
		449: Irregular 3" quartz vein		A12856	521.0	526.0	5.0	N			
		453: 3/4" quartz vein		A12857	526.0	531.0	5.0	T			
		466: 1" quartz vein		A12858	531.0	536.0	5.0	T			

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
				A12859	536.0	541.0	5.0	T			
475.0	559.0	FINE TO MEDIUM GRAINED MAFIC FLOWS OR TUFFS (1a or 1c)		A12860	541.0	546.0	5.0	T			
		51° contact with C.A. Garnetiferous - magnetic		A12861	546.0	551.0	5.0	T			
		475 - 488: 1¼ py, po	1% py, po	A12862	551.0	556.0	5.0	T			
		488 - 490: Grey intermediate flow tr po, py	tr po, py	A12863	556.0	561.0	5.0	T			
		490 - 512: 1% py, po	1% po, py	A12864	561.0	566.0	5.0	N			
		512 - 520: ½ - 1% po, py	½ - 1% po, py	A12865	566.0	570.0	4.0	N			
		520 - 553: Fine to medium grained mafic flows -		A12866	570.0	575.0	5.0	N			
		garnetiferous, slightly foliated or silicified		A12867	575.0	580.0	5.0	T			
		520 - 539: ½ - 1% po, py	½ - 1% po, py	A12868	580.0	585.0	5.0	T			
		539 - 553: 1% po, 1% py, 5% combined in places	1% po, 1% py	A12869	585.0	590.0	5.0	T			
		553 - 554: Light grey felsic flow no sulphides		A12870	590.0	595.0	5.0	N			
		554 - 559: Medium grained mafic flow garnetiferous		A12871	595.0	600.0	5.0	N			
		biotitic ½% po, py	½% po, py	A12872	600.0	605.0	5.0				
				A12873	605.0	610.0	5.0	N			
559.0	573.5	LIGHT GREY FELSIC TO INTERMEDIATE TUFF (4c)		A12874	610.0	615.0	5.0	N			
		Contact 64° to C.A. Trace py	tr py	A12875	615.0	620.0	5.0	T			
		562 - 563: Medium grained mafic flow		A12876	620.0	625.0	5.0	N			
		563: 1" Quartz vein		A12877	625.0	630.0	5.0	N			
				A12878	630.0	635.0	5.0	T			
573.5	620.5	MEDIUM GRAINED MAFIC FLOW (1a)		A12879	635.0	640.0	5.0	T			
		Chloritic. Magnetic 573.5 - 597. Non-magnetic 597 - 620.5.		A12880	640.0	645.0	5.0	T			
		Minor fine grained flow - contact between fine grained and medium grained flows 062° with C.A.									
		573.5 - 597: ½% po, py, garnetiferous	½% po, py								
		597 - 620.5: Trace po, py	tr po, py								
		584: 1/3" quartz vein									
		603: Irregular ½" quartz vein									
620.5	627.3	GREY FELSIC TO INTERMEDIATE TUFF (4c)									
		Contact 58° to C.A. < ½% Po	< ½% po								
627.3	633.3	CHLORITIC MEDIUM TO COARSE GRAINED MAFIC FLOW (1a)									
		Contact 68° to C.A. Green grey non-magnetic. 1mm phenocrysts of white quartz and feldspar tr py po	tr po py								
633.3	638.3	GREY FELSIC TUFF (4c)									
		Contact 68° to C.A. Trace po, py	Tr po, py								
638.3	644.0	MEDIUM TO COARSE GRAINED GREEN GREY MAFIC FLOW (1a)									
		Flow contact 46° to C.A. Non-magnetic chloritic. 1mm white feldspar and quartz phenocrysts. tr po, py	tr po, py								
644.0	645.0	GREY FELSIC TUFF (4c)									
		Flow contact 62° to C.A. Trace py	tr py								
	645.0	END OF HOLE									

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE	LINE 294+ 00 EAST	STARTED	May 2nd, 1975						
HOLE NO.	DLO-74-35-1	DEPARTURE	STA. 188+ 00 NORTH	FINISHED	May 4th, 1975	200'	43½°				
BEARING	180°	ELEVATION		LENGTH	540 FEET	400'	40°				
DIP-COLLAR	-45°	SECTION		LOGGED BY	BABU GAJARIA						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
0	35.0	CASING		5929	35.0	40.0	5.0	Tr				
				5930	40.0	45.0	5.0	N				
35.0	50.5	INTERMEDIATE LAVA FLOW: (maybe Mafic in composition) (2a)		5931	45.0	50.0	5.0	Tr				
		It is light green in colour. Contains characteristic carbonate bands.	Trace pyrrhotite	5932	50.0	55.0	5.0	Tr				
		The rock is rich in chlorite and weakly magnetic. The flow becomes		5933	55.0	60.0	5.0	N				
		tuffaceous at the south contact. The rock contains occasional quartz		5934	60.0	65.0	5.0	N				
		veinlets, which are barren.		5935	65.0	70.0	5.0	N				
				5936	70.0	75.0	5.0	N				
50.5	112.0	INTERMEDIATE TUFFITE: (2c) Light brown to buff white in colour,		5937	75.0	80.0	5.0	.005				
		rich in biotite, it is characteristically banded into alternate mafic and		5938	80.0	85.0	5.0	N				
		felsic rich bands. The rock is well bedded and sericitic.	Trace sulphides	5939	85.0	90.0	5.0	N				
		100.2 - 101.7: Felsic tuff, cherty. Light purplish green in colour,		5940	90.0	95.0	5.0	N				
		and shows medium to fine grained felsic fragments.		5941	95.0	99.0	4.0	N				
		The rock has sharp contacts on either side of		A5762	99.0	102.0	3.0	T				
		intermediate tuffite.		5942	102.0	105.0	3.0	N				
		111.8 - 112.3: Graphite intermixed with mafic tuff.	½% lenticular Py	5943	105.0	110.0	5.0	N				
				5944	110.0	115.0	5.0	N				
112.0	117.0	MAFIC TO INTERMEDIATE TUFF (1c - 2c)		5945	115.0	120.0	5.0	N				
		Light grey - green in colour, fine grained.		5946	120.0	125.0	5.0	N				
				5947	125.0	130.0	5.0	N				
117.0	128.6	FELSIC LAVA FLOW: (4a):		5948	130.0	135.0	5.0	N				
		Buff white to grey in colour, essentially contains quartz and white feld-		A5763	135.0	140.0	5.0	T	.03		.04	
		spar and muscovite. It contains dendritic pyrite (could be pyrolusite),		5949	140.0	145.0	5.0	N				
		trace. The rock is heavily sericitised.		5950	145.0	150.0	5.0	N				
				5951	150.0	155.0	5.0	N				
128.6	136.0	INTERMEDIATE TUFF (2c)		5952	155.0	160.0	5.0	N				
		Banded, dark grey to black in colour, contains numerous quartz veins		5953	160.0	165.0	5.0	N				
		which are parallel to schistosity and banding.		5954	165.0	170.0	5.0	N				
		131.3 - 132.9: Mafic Tuff.		5955	170.0	175.0	5.0	N				
				5956	175.0	180.0	5.0	N				
		43.0: Bedding/core axis angle is 45°		5957	180.0	185.0	5.0	Tr				
		90.0: Bedding/core axis angle is 42°		5958	185.0	190.0	5.0	Tr				
				5959	190.0	195.0	5.0	N				
[redacted].0	137.2	GRAPHITE (pyritised) (7)	1% pyrite	5960	195.0	200.0	5.0	N				
				5961	200.0	205.0	5.0	Tr				
137.2	138.9	INTERMEDIATE TUFFITE: (2c)	½% pyrite	5962	205.0	210.0	5.0	N				
		Similar in composition to above.		5963	210.0	215.0	5.0	N				
				A5764	215.0	220.0	5.0	T				
				A5765	220.0	225.0	5.0	T				



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
138.9	147.0	FELSIC FLOW: (4a)	trace py + po	A5766	225.0	230.0	5.0	T				
		Agglomeratic at the north contact, it is creamy white to light purple in		5964	230.0	235.0	5.0	N				
		colour. It is well banded at the south contact.		5965	235.0	240.0	5.0	N				
				5966	240.0	245.0	5.0	Tr				
147.0	154.0	INTERMEDIATE LAVA FLOW (2a)		5967	245.0	250.0	5.0	Tr				
		Light green in colour and heavily fractured, with tiny quartz veinlets.	Trace sulphides	5968	250.0	255.0	5.0	Tr				
		It is heavily chloritised (green chlorite).		5969	255.0	260.0	5.0	Tr				
				A5767	260.0	265.0	5.0	Tr		.06	.33	
154.0	162.2	BRECCIATED FELSIC FLOW: (4a)		A5768	265.0	270.0	5.0	Tr		.07	.38	
		Heavily brecciated at the north contact, the brecciation is due to	trace sulphides	A5769	270.0	272.0	2.0	Tr		.02		
		tectonism.		A5770	272.0	275.0	3.0	N		.06	.15	
				A5771	275.0	280.0	5.0	N		.09	.12	
162.2	192.2	MAFIC TUFF (1c)		A5772	280.0	285.0	5.0	N		.07	.10	
		It is generally altered to talc- chlorite - carbonate rock. Light green in	trace sulphides	A5773	285.0	290.0	5.0	N		.04	.05	
		colour, soft, not too talcose, however it is chloritic and probably		A5774	290.0	295.0	5.0	N	.02	.05	.15	
		hydrothermally altered mafic tuff.		A5775	295.0	300.0	5.0	N	.02	.05	.21	
				A5776	300.0	305.0	5.0	N	.02	.03	.08	
192.2	261.3	INTERMEDIATE TUFFITE: (2c)		A5777	305.0	310.0	5.0	N	.03	.03	.10	
		The rock consists of intermixed sediments and tuffs. It is similar in		A5778	310.0	315.0	5.0	N	.03	.019	.06	
		composition to section (50.5 - 112.0). It is well bedded, and contains		A5779	315.0	320.0	5.0	N	.02	.019	.09	
		thin felsic rich sections. The tuffite is coarser grained at the south		A5780	320.0	325.0	5.0	N	.02	.018	.08	
		contact with graphite.		A5781	325.0	330.0	5.0	N	.04	.023	.09	
		192.2 - 257.0:	½% pyrite	A5782	330.0	335.0	5.0	N	.01	.03	.07	
		257.0 - 261.3:	1% pyrite, ½% Po	A5783	335.0	340.0	5.0	N	.04	.04	.18	
		195.0: Bedding/core axis angle is 60°.		A5784	340.0	345.0	5.0	T	.04	.04	.08	
				A5785	345.0	350.0	5.0	T	.01	.12	.010	
261.3	352.4	GRAPHITE (CONDUCTOR): (7)		A5786	350.0	355.0	5.0	T	.02	.017	.03	
		With some intermixed sediments, contains lenticular pyrite and pyrrho-		5970	355.0	360.0	5.0	N				
		tite and trace chalcopyrite. Contains some intermixed tuffs and		5971	360.0	365.0	5.0	N				
		pyroclastics.		5972	365.0	370.0	5.0	N				
		270.3 - 272.0: Quartz vein, contains pyrite and traces of chal-		5973	370.0	375.0	5.0	N				
		copyrite.		5974	375.0	380.0	5.0	Tr				
		260 - 270:	2% Py, 1% Po	5975	380.0	385.0	5.0	N				
		270 - 280:	2% Po, 1% Py, trace cpy	5976	385.0	390.0	5.0	N				
		280 - 290:	2% Po	5977	390.0	395.0	5.0	N				
		290 - 300:	1% py, 1% Po, trace cpy	5978	395.0	400.0	5.0	N				
		300 - 310:	1½% Py	5979	400.0	405.0	5.0	N				
		310 - 320:	½% py	5980	405.0	410.0	5.0	N				
		320 - 330:	½% Py, ½% Po	5981	410.0	415.0	5.0	N				
		330 - 340:	1% Po, ½% Po	5982	415.0	420.0	5.0	N				
		340 - 350:	1% Py, 1% Po	5983	420.0	425.0	5.0	N				
				5984	425.0	430.0	5.0	N				
		254.0: Bedding/core axis angle is 70°		5985	430.0	435.0	5.0	N				
		299.0: Bedding/core axis angle is 60°		5986	435.0	440.0	5.0	N				
				5987	440.0	442.0	2.0	N				
352.4	360.5	MAFIC LAVA FLOW: (1a)		A5787	442.0	443.5	1.5	N				
		Coarse grained, altered, biotite and feldspar rich.	No sulphides.	A5788	443.5	445.0	1.5	N				
				A5789	445.0	450.0	5.0	N	.01		.006	
360.5	433.7	INTERMEDIATE TUFFITE: (2c) and (7)		A5790	450.0	455.0	5.0	T	.01		.005	
		Similar in composition to above. It is thinly varved and fine grained,	trace pyrite	A5791	455.0	460.0	5.0	NIL	0.01		0.006	
		proportion of sediment is greater than volcanics. The rock is probably		A5792	460.0	465.0	5.0	T	0.01		0.007	
		a greywacke.		5988	465.0	470.0	5.0	N				
		385.0: Bedding/core axis angle is 55°.										

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

PROPERTY DETOUR LAKES HOLE NO. DLO-74-35-1 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	ASSAYS Pb.
433.7	540.0	INTERMEDIATE TUFF:		5989	470.0	475.0	5.0	N				
		It is fine grained, light grey in colour, not so well bedded as the sedi-		5990	475.0	480.0	5.0	N				
		ments above. Contains intercalcated felsic rich bands. The intermediate		5991	480.0	485.0	5.0	N				
		tuff is cherty in places.		5992	485.0	490.0	5.0	N				
		442.2 - 443.0: Quartz vein with trace pyrite, appears to be		5993	490.0	495.0	5.0	N				
		recrystallised from chert.		5994	495.0	500.0	5.0	N				
		446.3 - 461.2: Tuffaceous felsic flow, cherty, light purplish in		5995	500.0	505.0	5.0	N				
		colour, contains traces of pyrite.		5996	505.0	510.0	5.0	N				
		528.0 - 540.0: Intermediate/felsic, tuffaceous flow. It is light	trace pyrite.	5997	510.0	515.0	5.0	N				
		purple in colour and tuffaceous.		5998	515.0	520.0	5.0	N				
				A5793	525.0	530.0	5.0	T				
				A5794	530.0	535.0	5.0	N				
	540.0	END OF HOLE		A5795	535.0	540.0	5.0	N				

NOTE: Since the conductor was graphite, only selected sections have been split

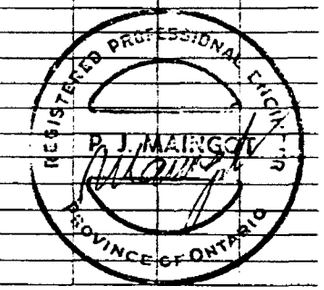
AMOCO CANADA PETROLEUM COMPANY LTD. - MINING DIVISION - DIAMOND DRILL HOLE RECORD

PROPERTY	DETOUR LAKES	~~LATITUDE~~ LINE	318 + 00 EAST	STARTED	June 6th, 1975
HOLE NO.	DLO - 39 - 5	~~DEPARTURE~~ STA	204 + 00 NORTH	FINISHED	June 9th, 1975
BEARING	180°	ELEVATION		LENGTH	505 FEET
DIP-COLLAR	- 45°	SECTION		LOGGED BY	BABU GAJARIA

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	43½°				
400'	43½°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	44	CASING	
44	48.4	MAFIC TO INTERMEDIATE TUFF (1c to 2c)	
		Light green to buff white in colour. The mafic and felsic minerals are segregated into different bands. The tuff is moderately bedded.	1% diss. Pyrite ½% Pyrrhotite
48.4	125.0	CHLORITE ALTERATION ZONE (5b)	
		Pastel to light green in colour, largely made up of dark green chlorite, the north contact consists of chloritised mafic tuff, while the south end is chloritised mafic flow. It is slightly talcy. The rock contains a few felsic fragments (5%) at the south contact and therefore agglomeratic.	½% diss. pyrite
		86.8 - 89.8: INTERMEDIATE TUFF: dark greyish black, very fine grained.	trace sulphides
125.0	146.5	FELSIC AGGLOMERATE (4b)	
		The matrix is mafic, it is light grey-green in colour, highly chloritic with some amphiboles. The fragments are buff white, quartz and feldspar. (Note that a similar felsic agglomeratic unit occurs below the mineralized chert horizon on the west end on anomaly 38, that is compare logs section 182, 184E). The fragments make up 20% of the volume and do not contain any sulphides.	trace sulphides
		55.0: Schistosity/core axis angle is 50°.	
		86.8: Contact/core axis angle is 58°.	
146.5	212.0	INTERMEDIATE LAVA FLOW (2a) DIORITIC TEXTURE	
		The rock has a gradational contact to the north with felsic agglomerate. It has a dioritic texture. (Compare previous logs zone 39) It is mafic at the north contact becoming more felsic to the south. It is non magnetic.	trace diss. Pyrite
		162.3 - 165.5: quartz-carbonate vein: Contain porphyroblasts of pyrite.	2-3% pyrite
		200.1 - 200.2: Mafic lava flow: (1a): Very fine grained, grey-black in colour, thinly schistose, containing euhedral disseminated pyrite sharp contacts on either side with intermediate flow.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
A12343	44.0	45.0	1.0	N			
A12344	45.0	50.0	5.0	N			
A12345	50.0	55.0	5.0	N			
A12346	55.0	60.0	5.0	N			
A12347	60.0	65.0	5.0	N			
A12348	65.0	70.0	5.0	N			
A12349	70.0	75.0	5.0	N			
A12350	75.0	30.0	5.0	N			
A12351	80.0	85.0	5.0	N			
A12352	85.0	90.0	5.0	N			
A12353	90.0	95.0	5.0	N			
A12354	95.0	100.0	5.0	N			
A12355	100.0	105.0	5.0	N			
A12356	105.0	110.0	5.0	N			
A12357	110.0	115.0	5.0	N			
A12358	115.0	120.0	5.0	N			
A12359	120.0	125.0	5.0	N			
A12360	125.0	130.0	5.0	N			
A12361	130.0	135.0	5.0	N			
A12362	135.0	140.0	5.0	N			
A12363	140.0	145.0	5.0	N			
A12364	145.0	150.0	5.0	N			
A12365	150.0	155.0	5.0	N			
A12366	155.0	160.0	5.0	N			
A12367	160.0	165.0	5.0	N			
A12368	165.0	170.0	5.0	N			
A12369	170.0	175.0	5.0	N			
A12370	175.0	180.0	5.0	N			
A12371	180.0	185.0	5.0	N			
A12372	185.0	190.0	5.0	N			
A12373	190.0	195.0	5.0	N			
A12374	195.0	200.0	5.0	N			
A12375	200.0	205.0	5.0	N			
A12376	205.0	210.0	5.0	N			
A12377	210.0	215.0	5.0	N			
A12378	215.0	220.0	5.0	N			
A12379	220.0	225.0	5.0	N			



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
				A12380	225.0	230.0	5.0	N			
212.0	225.1	INTERMEDIATE TO MAFIC TUFF (1c or 2c)	1% disseminated	A12381	230.0	235.0	5.0	N			
		Grey-green in colour, well schistose.	euhedral pyrite	A12382	235.0	240.0	5.0	N			
		200': Schistosity/core axis angle is 60°		A12383	240.0	245.0	5.0	N			
		212: Contact/core axis angle is 70°		A12384	245.0	250.0	5.0	N			
				A12385	250.0	255.0	5.0	N			
225.1	284.0	MAFIC LAVA FLOW (1a) Amphibolised		A12386	255.0	260.0	5.0	N			
		It is similar in texture to intermediate lava flow- dioritic texture, how-		A12387	260.0	265.0	5.0	N			
		ever there is greater concentration of mafic minerals. The rock is light	3/4% disseminated	A12388	265.0	270.0	5.0	N			
		green in colour and medium grained, in places the schistosity is not	euhedral pyrite	A12389	270.0	275.0	5.0	N			
		developed at all.		A12390	275.0	280.0	5.0	N			
		258.0 - 259.5: Intermediate flow: greyish purple in colour	5% diss. pyrite	A12391	280.0	285.0	5.0	N			
				A12392	285.0	290.0	5.0	N			
284.0	426.8	MAFIC FLOW AND MAFIC TUFF - Intermixed 1a and 1c		A12393	290.0	295.0	5.0	N			
		Fine grained, light green to gray in colour. It has a gradational contact	3/4% disseminated	A12394	295.0	300.0	5.0	N			
		with amphibolised mafic flow above	euhedral pyrite.	A12395	300.0	305.0	5.0	N			
		245.0: Schistosity/core axis angle is 50°		A12396	305.0	310.0	5.0	N			
		355.7 - 356.8: Intermediate flow (2a) Light greenish purple in colour.	6-7% diss. pyrite.	A12397	310.0	315.0	5.0	N			
				A12398	315.0	320.0	5.0	N			
		356.8 - 359.4: Quartz vein	1% large euhedral crystals of pyrite	A12399	320.0	325.0	5.0	N			
				A12400	325.0	330.0	5.0	N			
		360.8 - 362.1: Quartz vein	½% pyrite	A12401	330.0	335.0	5.0	N			
		356.0: Bedding/core axis angle is 65°.		A12402	335.0	340.0	5.0	N			
		415.7 - 422.0: INTERMEDIATE TUFF (2c) (possibly the main conductor)		A12403	340.0	345.0	5.0	N			
			6-7% pyrite	A12404	345.0	350.0	5.0	N			
		Greyish purple in colour, containing dissem-	6% magnetite	A12405	350.0	355.0	5.0	N			
		inated pyrite and magnetite.		A12406	355.0	360.0	5.0	N			
		425.6 - 428.)	5% disseminated py.	A12407	360.0	365.0	5.0	N			
				A12408	365.0	370.0	5.0	N			
426.8	439.8	CHLORITE ALTERATION ZONE (5b)		A12409	370.0	375.0	5.0	N			
		Dark green chlorite, slightly talcy.	trace sulphides	A12410	375.0	380.0	5.0	N			
				A12411	380.0	385.0	5.0	T			
439.8	505.0	MAFIC LAVA FLOW AND MAFIC TUFF (1a + 1c)		A12412	385.0	390.0	5.0	N			
		It is similar in composition to section 284 - 426. Fine grained, greyish	6-7% magnetite	A12413	390.0	395.0	5.0	N			
		green in colour.	½% diss. pyrite	A12414	395.0	400.0	5.0	N			
		451.5 - 451.6: quartz vein barren		A12415	400.0	405.0	5.0	N			
		466.3 - 467.1: epidote, magnetite, quartz rich zone		A12416	405.0	410.0	5.0	N			
		471.1 - 472.6: cherty felsic tuff: purple green in colour	6-7% euhedral pyrite	A12417	410.0	415.0	5.0	N			
		472.6 - 476.5: Intermediate tuff (2c): Greyish green in colour fine grained.	3% euhedral diss. py.	A12418	415.0	420.0	5.0	.02			
				A12419	420.0	425.0	5.0	T			
		486.6 - 494.0: diabase dyke, coarse grained, rich in mag-		A12420	425.0	430.0	5.0	T			
		netite. Sharp contacts on either side with		A12421	430.0	435.0	5.0	N			
		mafic tuff.		A12422	435.0	440.0	5.0				
		472.0: Bedding/core axis angle is 75°.		A12423	440.0	445.0	5.0				
		491.5: Diabase/tuff contact with core axis angle is 35°		A12424	445.0	450.0	5.0				
		482 - 482.6: Quartz vein barren.		A12425	450.0	455.0	5.0				
	505.0	END OF HOLE		A12426	455.0	460.0	5.0				
				A12427	460.0	465.0	5.0				
				A12428	465.0	470.0	5.0				
				A12429	470.0	475.0	5.0				
				A12430	475.0	480.0	5.0				
				A12431	480.0	485.0	5.0				

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

PROPERTY Detour Lakes HOLE NO. 39 - 5

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
				A12432	485.0	490.0	5.0				
				A12433	490.0	495.0	5.0				
				A12434	495.0	500.0	5.0				
				A12435	500.0	505.0	5.0				

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

PROPERTY	DETOUR LAKES	LINE LATITUDE	318 + 00 EAST	STARTED	11th June , 1975	DIP TEST Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	DLO - 39 - 6	sta. DEPARTURE	208 + 00 NORTH	FINISHED	14th June , 1975	200'	43°				
BEARING	180°	ELEVATION		LENGTH	566 FEET	400'	40°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	BABU GAJARIA	566'	38°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
0	23	CASING		A12436	23.0	25.0	2.0	N			
				A12437	25.0	30.0	5.0	N			
23.0	131.8	MAFIC FLOW (1a) + SOME INTERMIXED MAFIC TUFF (1c)		A12438	30.0	35.0	5.0	N			
		Light grey-green in colour, tuffaceous, fine grained, some carbonate	5-50% Magneitie (Mt)	A12439	35.0	40.0	5.0	N			
		veinlets. The rock is highly magnetic, containing a minimum of 5%	½% diss. pyrite	A12440	40.0	45.0	5.0	N			
		magnetite, and up to 50% magnetite in places.		A12441	45.0	50.0	5.0	N			
		77.5 - 85.0: INTERMEDIATE FLOW (2a)		A12442	50.0	55.0	5.0	N			
		Biotite, chlorite - pyrite rich zone.	6% pyrite, trace cpy.	A12443	55.0	60.0	5.0	N			
		99.0 - 112.6: FELSIC TUFF (4c)		A12444	60.0	65.0	5.0	N			
		Light purple grey in colour, siliceous, con-	½% pyrite	A12445	65.0	70.0	5.0	N			
		taining medium grained fragments.		A12446	70.0	75.0	5.0	N			
		122.0 - 131.8:	6% magnetite, 2% Py	A12447	75.0	80.0	5.0	N			
			1% Po	A12448	80.0	85.0	5.0	N			
				A12449	85.0	90.0	5.0	N			
131.8	147.4	INTERMEDIATE FLOW (2a)		A12450	90.0	95.0	5.0	N			
		Light green to buff white in colour, medium grained, poorly schistose.		A12451	95.0	100.0	5.0	N			
		Where pyrite and magnetite rich zones occur. It is altered to chlorite		A12452	100.0	105.0	5.0	N			
		and biotite.		A12453	105.0	110.0	5.0	N			
		131.8 - 137.0:	15% Magnetite, 7% py.	A12454	110.0	115.0	5.0	N			
			trace cpy.	A12455	115.0	120.0	5.0	N			
		137.0 - 142.0:	7% magnetite, 7% pyrite	A12456	120.0	125.0	5.0	N			
		142.0 - 145.0:	5% magnetite	A12457	125.0	130.0	5.0	N		.005	
		145.0 - 147.4:	1% py, ½% po, ¼% cpy.	A12458	130.0	135.0	5.0	N		.006	
		166.0: Bedding/core axis angle is 60°		A12459	135.0	140.0	5.0	N		.006	
				A12460	140.0	145.0	5.0	T		.004	
147.4	171.8	INTERMEDIATER TUFF (2c) (may be mafic)		A12461	145.0	147.5	2.5	N	.02	.007	
		Light green to buff white in colour, well bedded and schistose, some		A12462	147.5	150.0	2.5	T	.03	.07	.003
		carbonate veinlets. Rich in biotite, considerable increase in sulphides,		A12463	150.0	155.0	5.0	T		.02	.003
		which are concordant to the bedding.		A12464	155.0	160.0	5.0	T		.04	.006
		147.4 - 150.0:	2% py, 1% po, ¼% cpy	A12465	160.0	163.0	3.0	T		.09	.003
		150.0 - 155.0:	1% py, ½% po, tr. cpy	A12466	163.0	168.0	5.0	N		.02	
		155.0 - 160.0:	6-7% po, 1% py, ⅓% cpy	A12467	168.0	170.0	2.0	N			
		163.0 - 168.0: MAFIC FLOW (1a)		A12468	170.0	175.0	5.0	N			
		Fine grained, massive, light green in colour,	2% pyrite	A12469	175.0	180.0	5.0	N			
		fractured, numerous thin quartz veinlets.		A12470	180.0	183.5	3.5	N			
		168.0 - 171.8:	1% Po, ½% Py	A12471	183.5	185.0	1.5	N		.06	.003
				A12472	185.0	190.0	5.0	T	.05	.05	.002
				A12473	190.0	195.0	5.0	T	.02	.02	.002
				A12474	195.0	200.0	5.0	N	.02	.011	.003

REGISTERED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
171.8	183.7	MAFIC FLOW (1a)		A12475	200.0	205.0	5.0	N	.02	.008	.002
		Light green, massive, fine grained, fractured with tiny quartz veinlets.	1% Po, 1% Py	A12476	205.0	210.0	5.0	T	.02	.06	.003
		Similar to section 163.0 - 168.0.		A12477	210.0	215.0	5.0	N	.02	.010	.002
				A12478	215.0	220.0	5.0	N	.01	.005	.002
183.7	188.0	FELSIC FLOW (4a)		A12479	220.0	225.0	5.0	N	.08	.006	.002
		Light greyish purple in colour with 5-10% mafic content. The south contact with mafic flow in gradational.	10% Po, 1% py, ¼% cpy	A12480	225.0	230.0	5.0	N		.02	.003
				A12481	230.0	235.0	5.0	N		.03	.003
				A12482	235.0	240.0	5.0	N		.03	.003
188.0	226.7	MAFIC FLOW (1a) - tuffaceous		A12483	240.0	245.0	5.0	N		.03	
		Light green in colour, fine to medium grained, rich in biotite, not schistose.		A12484	245.0	250.0	5.0	N		.01	
		188.0 - 190.0:	15% po, 1% py tr cpy.	A12485	250.0	255.0	5.0	N		.01	
		190.0 - 200.0:	3% po, 1% py	A12486	255.0	260.0	5.0	N		.02	
		200.0 - 210.0:	2% po, 5% Magnetite (	A12487	260.0	265.0	5.0	N		.02	
			(Mt) 1% Py, ¼% cpy	A12488	265.0	270.0	5.0	T		.05	.009
		210.0 - 220.0:	1% po, ½% py	A12489	270.0	275.0	5.0	T		.04	.007
		220.0 - 226.7:	1% Po, 1% py	A12490	275.0	280.0	5.0	T		.01	.009
				A12491	280.0	285.0	5.0	T		.02	.012
226.7	238.6	INTERMEDIATE FLOW (2a)		A12492	285.0	290.0	5.0	.05		.56	.02
		Greenish to buff white in colour, characteristically speckled with crystals		A12493	290.0	295.0	5.0	.01		.30	.007
		of magnetite and amphibole, biotite enrichment in places.		A12494	295.0	300.0	5.0	.005		.27	.011
		226.7 - 230.0:	5% Mt, 2% Po, 1%py	A12495	300.0	305.0	5.0	T		.31	.010
			¼% cpy	A12496	305.0	310.0	5.0	T		.05	.004
		230.0 - 235.0:	5% Mt, 4% Po, 1% Py	A12497	310.0	315.0	5.0	N		.02	.009
			¼% cpy	A12498	315.0	320.0	5.0	N		.01	
		235.0 - 238.6:	6 - 7% Mt.	A12499	320.0	325.0	5.0	N		.05	
				A12500	325.0	330.0	5.0	N			
238.6	265.5	MAFIC FLOW (1a) (may be int. tuff. in places)		A12501	330.0	335.0	5.0	N			
		Light green to buff white in colour, medium grained, amphibolised, not		A12502	335.0	340.0	5.0	N			
		schistose, fractured with small carbonate veinlets.		A12503	340.0	345.0	5.0	N			
		249.0: Schistosity/core axis angle is 80°		A12504	345.0	350.0	5.0	N			
		238.6 - 240.0:	1% py, 1% po, tr cpy	A12505	350.0	355.0	5.0	N			
		240.0 - 245.0:	5% po, 1% py tr cpy	A12506	355.0	360.0	5.0	N			
		245.0 - 250.0:	2% po, 1% pyrite	A12507	360.0	365.0	5.0	N			
		250.0 - 260.0:	4% mt, 2% po, 1% py	A12508	365.0	370.0	5.0	N			
		260.0 - 265.0:	½% py, ⅓% po.	A12509	370.0	375.0	5.0	N			
				A12510	375.0	380.0	5.0	N			
265.5	302.0	INTERMEDIATE TUFF (2c)		A12511	380.0	385.0	5.0	N			
		Extremely, well bedded, thinly bedded, heavy biotization in places. 70%		A12512	385.0	390.0	5.0	N			
		biotite but averaging 40%. Some chlorite is present. Sulphides are		A12513	390.0	395.0	5.0	N			
		localized parallel to the bedding. In places the tuff is vughy.		A12514	395.0	400.0	5.0	N			
		265.0 - 270.0:	5% py (along bedding plane)	A12515	400.0	405.0	5.0	N			
		270.0 - 275.0:	6 - 7 % Pyrite	A12516	405.0	410.0	5.0	N			
		275.0 - 280.0:	trace pyrite	A12517	410.0	415.0	5.0	N			
		280.0 - 285.0:	trace pyrite	A12518	415.0	420.0	5.0	N			
		285.0 - 286.5: FELSIC TUFF (4c)	2% cpy, ⅓% po	A12519	420.0	425.0	5.0	N			
		Purple grey in colour, highly siliceous,		A12520	425.0	430.0	5.0	N			
		bedded. Sulphides are localised along bedding		A12521	430.0	435.0	5.0	N			
		plane.		A12522	435.0	440.0	5.0	N			
		286.5 - 290.0:	5% Pyrite, ¼% cpy	A12523	440.0	445.0	5.0	N			
		290.0 - 292.3:	3/4% py, 3/4% cpy	A12524	445.0	450.0	5.0	N			
		292.3 - 297.3: FELSIC TUFF (4c)	1% cpy, 1% py, tr po	A12525	450.0	455.0	5.0	N			
		Purple grey in colour, highly siliceous,		A12526	455.0	460.0	5.0	N			
		bedded similar to section 285.5-286.5.		A12527	460.0	465.0	5.0	N			

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
265.5	302.0	CONTD..		A12528	465.0	470.0	5.0	N			
		297.3 - 302.0:	2% Py, 1% cpy	A12529	470.0	475.0	5.0	N			
		277.0: Bedding/core axis angle is 60°.		A12530	475.0	480.0	5.0	N			
				A12531	480.0	485.0	5.0	N			
302.0	352.0	MAFIC LAVA FLOW (1a)		A12532	485.0	490.0	5.0	N			
		Medium to coarse grained, amphibolised, slightly talcy, not schistose.		A12533	490.0	495.0	5.0	N			
		It is rich in dark green chlorite. In places it takes a dioritic texture		A12534	495.0	500.0	5.0	N			
		and is intermediate in composition.		A12535	500.0	505.0	5.0	N			
		302.0 - 305.0:	1% py, ¼% cpy	A12536	505.0	510.0	5.0	N			
		305.0 - 315.0:	½% pyrite	A12537	510.0	515.0	5.0	N			
		315.0 - 320.0:	trace pyrite	A12538	515.0	520.0	5.0	N			
		317.5 - 318.4: Carbonate vein with dull grey metallic mineral which may be marcasite.		A12539	520.0	525.0	5.0	N			
				A12540	525.0	530.0	5.0	N			
		320.0 - 325.0: Int. flow - dioritic texture	2% py, ¼% cpy	A12541	530.0	535.0	5.0	N			
		325.0 - 335.0:	trace pyrite	A12542	535.0	540.0	5.0	T			
		335.0 - 352.0:	¼% Pyrite	A12543	540.0	545.0	5.0	T			
				A12544	545.0	550.0	5.0	N			
352.0	460.2	SERPENTINIZED ZONE (6c)		A12545	550.0	555.0	5.0	T			
		The rock is pastel green in colour, talcy, weakly magnetic, containing		A12546	555.0	560.0	5.0	T			
		medium to coarse crystals of pyroxene in an essentially finer grained	trace pyrite	A12547	560.0	566.0	6.0	T			
		chloritic groundmass. It is moderately schistose. The north contact with									
		mafic lava flow is gradational and highly chloritic and would probably									
		represent chlorite alteration zone. In places the rock is porphyrytic.									
		352: Schistosity/core axis angle is 55°.									
460.2	505.3	FELSIC AGGLOMERATE (4b)									
		The matrix is mafic and is exactly the same composition as the above									
		serpentinized zone. The contact is extremely gradational between the	Trace pyrite								
		felsic agglomerate and serpentinized zone. The percentage and size of									
		fragments increase to the south.									
505.3	513.6	MAFIC FLOW (1a)									
		Very fine grained, dark green in colour, not schistose, contains inter-	1% pyrite								
		calated sections of mafic tuff.									
		474.6: Contact/core axis angle is 70°.									
513.6	566.0	INTERMEDIATE FLOW (2a): Dioritic texture.									
		Medium grained, intermediate composition, medium grained amphiboles	trace pyrite								
		set in a felsic matrix. Good flow features.									
		540.7 - 544.6: Mafic flow: (1a)									
		Dark green in colour, moderately schistose,									
		fine grained, trace pyrite.									
		540.7: Contact/core axis angle is 70°									
	566.0	END OF HOLE									

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

						DIP TEST					
PROPERTY	DETOUR LAKES	LATITUDE	306 + 00E	STARTED	June 16th, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	DLO - 39 - 7	DEPARTURE	220 ± 00 N	FINISHED	June 28th, 1975	200'	51°				
BEARING	180°	ELEVATION		LENGTH	670'	400'	48°				
DIP-COLLAR	- 50°	SECTION		LOGGED BY	BABU GAJARIA	600'	46°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	104	CASING	
104.0	119.5	MAFIC FLOW - COARSE GRAINED PYROXENITIC The rock is dark green in colour, essentially made up of medium to coarse grained pyroxene and some amphibole crystals. It is moderately magnetic, not serpentinized. It is porphyrytic in places, showing feldspar porphyies.	Trace pyrite
119.5	142.5	FELSIC FLOW - Porphyrytic: (4a) Light purple in colour, showing medium grained porphyries of feldspar and quartz. It is massive. Shows occasional euhedral crystals of pyrite.	
142.5	209.1	MAFIC FLOW (1a) Fine grained, green in colour, characteristically shows very fine grained blebs of carbonate, it is amphibolised and schistose in places, showing plagioclase feldspar porphyries. 190.0 - 209.1: Disseminated pyrite 195.6 - 198.6: MAFIC TUFF (1c): Light green-grey in colour, well schistose and bedded, some biotization and carbonate veinlets.	Trace pyrite 3/4% pyrite ½% pyrite
209.1	222.4	FELSIC FLOW - Porphyrytic (4a) Light to dark purple in colour, shows flow landing and is porphyrytic, showing traces of disseminated pyrite. It is similar in composition and character as section 119.5 - 142.5.	
222.4	293.3	MAFIC LAVA FLOW (1a) Green in colour, with characteristic needle thin blebs of carbonate around amphiboles. It is not schistose and shows occasional porphyry plagioclase feldspar.	Trace pyrite
293.3	298.6	FELSIC FLOW (4a) Mauve in colour, siliceous, massive, shows flow banding.	trace pyrite.
298.6	409	MAFIC LAVA FLOW (1a) Medium grained, amphibolised, schistose, in places, shows characteristics leopard skin texture (c.f. logs 39 zone) considerable increase in pyrite content.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
A12548	104.0	105.0	1.0	N			
A12549	105.0	110.0	5.0	N			
A12550	110.0	115.0	5.0	N			
A12551	115.0	120.0	5.0	N			
A12552	120.0	125.0	5.0	T			
A12553	125.0	130.0	5.0	N			
A12554	130.0	135.0	5.0	N			
A12555	135.0	140.0	5.0	N			
A12556	140.0	145.0	5.0	N			
A12557	145.0	150.0	5.0	N			
A12558	150.0	155.0	5.0	N			
A12559	155.0	160.0	5.0	N			
A12560	160.0	165.0	5.0	N			
A12561	165.0	170.0	5.0	N			
A12562	170.0	175.0	5.0	N			
A12563	175.0	180.0	5.0	N			
A12564	180.0	185.0	5.0	N			
A12565	185.0	190.0	5.0	N			
A12566	190.0	195.0	5.0	N			
A12567	195.0	200.0	5.0	N			
A12568	200.0	205.0	5.0	N			
A12569	205.0	210.0	5.0	N			
A12570	210.0	215.0	5.0	N			
A12571	215.0	220.0	5.0	N			
A12572	220.0	225.0	5.0	N			
A12573	225.0	230.0	5.0	N			
A12574	230.0	235.0	5.0	T			
A12575	235.0	240.0	5.0	N			
A12576	240.0	245.0	5.0	T			
A12577	245.0	250.0	5.0	T			
A12578	250.0	255.0	5.0	T			
A12579	255.0	260.0	5.0	N			
A12580	260.0	265.0	5.0	N			
A12581	265.0	270.0	5.0	T			
A12582	270.0	275.0	5.0	N			
A12583	275.0	280.0	5.0	N			
A12584	280.0	285.0	5.0	T			
A12585	285.0	290.0	5.0	N			
A12586	290.0	295.0	5.0	N			
A12587	295.0	300.0	5.0	N			

REGISTERED PROFESSIONAL ENGINEER
P. J. WINGET
PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	Ag	Cu	Zn	Ni
				A12588	300.0	305.0	5.0	N				
298.6	409.0	CONTD.		A12589	305.0	310.0	5.0	N	.06			
		313.0 - 385.0: VUGHY ROCK: The rock is blocky, pyrite is	10-15% pyrite	A12590	310.0	315.0	5.0	N	.04			
		rusted, probably intersected a minor fault		A12591	315.0	320.0	5.0	N	.04			
		zone. Shows recrystallised euhedral pyrite	1% Magnetite	A12592	320.0	325.0	5.0	N	.06			.006
		and quartz, crystallisation within a cavity.		A12593	325.0	330.0	5.0	N	.04			.007
		389.1 - 407.6: FELSIC FLOW (4a) tuffaceous, Mauve in	1% diss. pyrite	A12594	330.0	335.0	5.0	T	.02			.008
		colour, massive, bedding not visible.		A12595	335.0	340.0	5.0	T	.04			.005
				A12596	340.0	345.0	5.0	T	.04			.005
409.0	500.0	MAFIC FLOW (1a) AND MAFIC TUFF (1c)		A12597	345.0	350.0	5.0	T	.03			.006
		There are two short Felsic tuff sections, one at 441 - 442 and the other		A12598	350.0	355.0	5.0	T				
		one is at 465 - 467. However, this one is not a continuous Felsic section		A12599	355.0	360.0	5.0	N				
		but has several blocked mafic rock (fragments) embedded in it.		A12600	360.0	365.0	5.0	N				
		The mafic flow is coarse grained, dark green. Amphibolitized rock with		A12601	365.0	370.0	5.0	N				
		$\frac{1}{4}$" Hb laths in a fine grained. Feldspar matrix. This amphibolitized		A12602	370.0	375.0	5.0	N				
		flow is magnetic. Chlorite alteration is moderate to strong throughout		A12603	375.0	380.0	5.0	N				
		the section. The core is blocky in most places and from 409-444 10' of		A12604	380.0	385.0	5.0	N				
		core is lost.		A12605	385.0	390.0	5.0	N				
		The tuffs are coarse grained to medium grained and dark green in colour		A12606	390.0	395.0	5.0	N				
		as well as being very chloritic. Foliation about 45° to C.A. The con-		A12607	395.0	400.0	5.0	N				
		tacts between the mafic flow and mafic tuff are questionable since much		A12608	400.0	405.0	5.0	N				
		of the core is broken up into 1"-2" sections.		A12609	405.0	410.0	5.0	N				
		There isn't any quartz veining in this section.		A12610	410.0	415.0	5.0	N				
		Mineralization consist of Py in the form of semi-euhedral disseminated		A12611	415.0	420.0	5.0	T				
		grains and in small lens shaped pods upto 1" long.		A12612	420.0	425.0	5.0	T				
		409 - 420:	7 - 10% Py	A12613	425.0	430.0	5.0	N				
		420 - 430:	4% Py	A12614	430.0	435.0	5.0	N				
		430 - 440:	7 - 10% Py	A12615	435.0	440.0	5.0	N				
		440 - 450:	5 - 7% Py	A12616	440.0	445.0	5.0	N				
		450 - 460:	5 - 7% Py	A12617	445.0	450.0	5.0	N				
		460 - 470:	4% Py	A12618	450.0	455.0	5.0	N				
		470 - 480:	5% Py	A12619	455.0	460.0	5.0	N				
		480 - 490:	5 - 7% Py	A12620	460.0	465.0	5.0	N				
		490 - 500:	7 - 10% Py	A12621	465.0	470.0	5.0	N				
				A12622	470.0	475.0	5.0	N				
500.0	509.0	LIGHT TO DARK GRAY FINE GRAINED FLOW BANDED RHYOLITIC		A12623	475.0	480.0	5.0	T				
		TUFF (4c)		A12624	480.0	485.0	5.0	T				
		Bands are $1\frac{1}{4}$"-2" wide. Banding 45° to C.A. only very minor dissem-		A12625	485.0	490.0	5.0	N				
		inated Py. For the first two feet of the felsic tuff there are large		A12626	490.0	495.0	5.0	N				
		(4"-6") chunks of mafic rock speckled with Py embedded in it.		A12627	495.0	500.0	5.0	N				
				A12628	500.0	505.0	5.0	N				
509.0	556.0	Continuation of the mafic tuff anf flow units (1a + 1c) Above the felsic		A12629	505.0	510.0	5.0	N				
		unit. As in the section above most of this section is also blocky. Py is		A12630	510.0	515.0	5.0	N				
		the only mineralization in this section and is in the form of semi-euhedral		A12631	515.0	520.0	5.0	T				
		disseminated cubes and lens shaped pods upto $\frac{1}{2}$" -3/4" long.		A12632	520.0	525.0	5.0	T				
		510 - 520: Contains abundant epidote filled fractures		A12633	525.0	530.0	5.0	N				
		with some reddish Fe staining quartz filled		A12634	530.0	535.0	5.0	N				
		fractures. The quartz veining is very minor		A12635	535.0	540.0	5.0	N				
		510 - 520:	2-3% Py	A12636	540.0	545.0	5.0	N				
		520 - 530:	10% Py	A12637	545.0	550.0	5.0	N				
		530 - 540:	7 - 10% Py	A12638	550.0	555.0	5.0	N		.004		
		540 - 550:	7 - 10% Py	A12639	555.0	560.0	5.0	N		.010		
				A12640	560.0	565.0	5.0	T		.011		
				A12641	565.0	570.0	5.0	N		.005		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	ASSAYS Ni.
				A12642	570.0	575.0	5.0	N				
556.0	565.0	Fine grained Light gray felsic tuff . Highly Cherty (4c + 3c)		A12643	575.0	580.0	5.0	N		.002		
		This tuff has a pale reddish colour in many places due to Fe staining.		A12644	580.0	585.0	5.0	N				
		The cherty tuff is speckled with Py throughout, however the Py is very		A12645	585.0	590.0	5.0	N		.003		
		disseminated. There are also a few thin epidote filled fractures. No		A12646	590.0	595.0	5.0	N				
		quartz veining.		A12647	595.0	600.0	5.0	N				
				A12648	600.0	605.0	5.0	N				
565.0	579.0	Coarse grained Dark green amphibolitized Mafic Flow: (1a)		A12649	605.0	610.0	5.0	N				
		There are also a few thin light gray fine grained felsic tuff sections.		A12650	610.0	615.0	5.0	N				
		These sections are only 1-2" long.		A12651	615.0	620.0	5.0	N				
		The Mafic flow which is magnetic consist mainly of Hb laths upto $\frac{1}{4}$" in a		A12652	620.0	625.0	5.0	N				
		fine grained Feldspar matrix. Chlorite alteration is moderate to strong.		A12653	625.0	630.0	5.0	T				
		Mineralization consist of a Py both in the semi-euhedral and lens shaped		A12654	630.0	635.0	5.0	N				
		pod forms.		A12655	635.0	640.0	5.0	N				
		550 - 560:	2-3% Py	A12656	640.0	645.0	5.0	N				
		560 - 570:	5-7% Py	A12657	645.0	650.0	5.0	N				
		570 - 580:	7 - 10% Py	A12658	650.0	655.0	5.0	N				
				A12659	655.0	660.0	5.0	N				
579.0	627.8	Coarse grained. Dark green. Mafic flow. (1a)+ Medium grained to Fine		A12660	660.0	665.0	5.0	N				
		grained Dark green. Mafic tuff (1c) (Mainly)		A12661	665.0	670.0	5.0	N				
		There is a fine grained light gray felsic tuff section between 607 - 612.5.										
		The upper contact between the mafic flow and the felsic tuff is about 20-25°										
		to the C.A. Its bottom contact is about 30°. There are also several										
		short (< 6") sections of felsic tuff between 613 and 627.8.										
		The mafic flow is mainly of the (Chicken track) type and is magnetic.										
		Between 623 and 626 there is a 3' section of fine grained mafic flow and										
		it is not magnetic.										
		Foliation is about 45° to C.A.										
		The felsic flow is fine grained light gray with a pinkish tinge due to fe										
		staining and contains numerous 2-3mm quartz crystals.										
		There isn't any quartz veining in any of these sections and the only										
		mineralization is py which occurs as Semi-euhedral grains and lens										
		shaped pods. The felsic tuff has the least mineralization, and from 607										
		to 612.5 there is < $\frac{1}{4}$% Py.										
		580 - 590:	7 - 10% Py									
		590 - 600:	10% Py									
		600 - 607:	5 - 7% Py									
		607 - 612.5:	< $\frac{1}{4}$% Py									
		612.5 - 620:	5 - 7% Py									
		620 - 630:	5 - 7% Py									
627.8	631	Pink Fine grained cherty tuff (3c)										
		The pink colour is due to Fe staining. The cherty tuff has an irregular										
		upper contact with the mafic flow and the first two feet of this section has										
		several mafic flow fragments upto 2" within it.										
		Mineralization consist of a few grains of Py in the first two feet.										
		From 629.5 - 631 the cherty tuff has abundant pods of Py, a few upto 1" in										
		diameter but usually between $\frac{1}{4}$" and $\frac{1}{2}$".										
[illegible].0	645.0	Coarse grained Dark green mafic flow (1a) (Chicken track as above). There										
		is one $\frac{1}{4}$" quartz vein with minor epidote. There is minor Py in this										
		section. A 6" felsic tuff section at 642.										

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
645.0	646.0	Medium gray fine grained Cherty tuff minor disseminated Py.						
646.0	649.0	Coarse grained Dark green mafic flow. Same as above. Chloritic.						
649.0	650.5	Medium gray fine grained cherty tuff. Minor disseminated Py. Contact 70° to C. A.						
650.5	657.0	Medium grained. Dark green Mafic flow mainly. A few cherty tuff fragments occur at 553. 3-4% Py 654.5 - 655.5: 1' section of light gray cherty tuff.	3-4% Py					
657	670	Medium grained medium gray felsic tuff with fragments upto $\frac{1}{4}$". (4c) 666 - 667: 1' of fine grained. Dark green Mafic tuff. The first 6" of the felsic tuff is highly fractured. Mineralization consist of minor disseminated Py.						
	670	END OF HOLE						

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

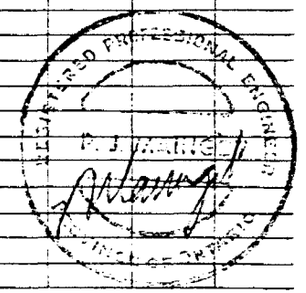
PROPERTY	DETOUR LAKES	LATITUDE	213 N	STARTED	June 30th, 1975
HOLE NO.	DLO-39-8	DEPARTURE	306E	FINISHED	July 3rd, 1975
BEARING	180°	ELEVATION		LENGTH	603'
DIP-COLLAR	-45°	SECTION		LOGGED BY	A. JACKSON

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	42°				
400'	42°				
600'	36°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	42	CASING	
42	113	MAFIC FLOW	
		Coarse grained, dark green, massive. Large lenticular amphibole	
		crystals set in medium grey feldspar matrix, amphibole making up	3-5% mag.
		30-40%; highly magnetic with 3-5% diss. mag. throughout upto 1% diss.py.	<1% Py
113	169	CHLORITE ALTERATION	
		Dark green, massive chlorite, non-magnetic. Foliation at 45°.	
		Minor disseminated py.	
169	256	MAFIC FLOW	
		Coarse grained, dark green, foliation at 45°. Occasional felsic fragments	
		upto ½" throughout but mainly 220 - 230.	
256	603	MAFIC FLOW	
		Coarse grained, dark green, similar to above but matrix is more	
		"creamy" feldspar - 50 - 70%. Similar to "dioritic textured" flows	
		of 39 - 5&6. Flow contacts marked by 1-3' section of chloritic material.	
		312 - 330: Numerous quartz veins, 3-4 every 5',	
		usually 2-3" usually barren with rare po, cpy.	
		339 - 341: Mafic tuff - Foliation at 60°, biotitic.	
		348.5 - 349.5: Felsic tuff.	
		Light grey, well foliated at 60°.	
		2 narrow quartz veins, 5-10% po, ½% cpy	5-10% po, ½% cpy
		402.5 - 410: INTMEDIATE FLOW - fine grained to	
		medium grained, medium grey, 3-5% biotite	
		throughout.	
		469 - 474: Contains 4 felsic flow - tuff? units, 2'-4"	
		with light blue quartz eyes; Felsic units	
		separated by 4"-6" chloritic tuff.	
		513 - 517: Chloritic Tuff	
		541 - 553: FELSIC TUFF	
		576: 6" quartz vein, barren.	
	603	END OF HOLE	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
12662	42.0	47.0	5.0	N			
12663	47.0	52.0	5.0	N			
12664	52.0	57.0	5.0	N			
12665	57.0	62.0	5.0	N			
12666	62.0	67.0	5.0	N			
12667	67.0	72.0	5.0	N			
12668	72.0	77.0	5.0	N			
12669	77.0	82.0	5.0	N			
12670	82.0	87.0	5.0	N			
12671	87.0	92.0	5.0	N			
12672	92.0	97.0	5.0	N			
12673	97.0	102.0	5.0	N			
12674	102.0	107.0	5.0	N			
12675	107.0	112.0	5.0	N			
12676	112.0	117.0	5.0	T			
12677	117.0	122.0	5.0	T			
12678	122.0	127.0	5.0	N			
12679	127.0	132.0	5.0	N			
12680	132.0	137.0	5.0	N			
12681	137.0	142.0	5.0	N			
12682	142.0	147.0	5.0	N			
12683	147.0	152.0	5.0	N			
12684	152.0	157.0	5.0	T			
12685	157.0	162.0	5.0	N			
12686	162.0	167.0	5.0	N			
12687	167.0	172.0	5.0	N			
12688	172.0	177.0	5.0	N			
12689	177.0	182.0	5.0	N			
12690	182.0	187.0	5.0	N			
12691	187.0	192.0	5.0	N			
12692	192.0	197.0	5.0	T			
12693	197.0	202.0	5.0	N			
12694	202.0	207.0	5.0	N			
12695	207.0	212.0	5.0	N			
12696	212.0	217.0	5.0	T			
12697	217.0	222.0	5.0	T			
12698	222.0	227.0	5.0	T			
12699	227.0	232.0	5.0	N			
12700	232.0	237.0	5.0	N			



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

PROPERTY DETOUR LAKES HOLE NO. DLO-39-8

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
				12701	237.0	242.0	5.0	N			
				12702	242.0	247.0	5.0	N			
				12703	247.0	252.0	5.0	N			
				12704	252.0	257.0	5.0	N			
				12705	257.0	262.0	5.0	N			
				12706	262.0	267.0	5.0	N			
				12707	267.0	272.0	5.0	T			
				12708	272.0	277.0	5.0	N			
				12709	277.0	282.0	5.0	.02			
				12710	282.0	287.0	5.0	N			
				12711	287.0	292.0	5.0	N			
				12712	292.0	297.0	5.0	N			
				12713	297.0	302.0	5.0	N			
				12714	302.0	307.0	5.0	N			
				12715	307.0	312.0	5.0	N			
				12716	312.0	317.0	5.0	N			
				12717	317.0	322.0	5.0	N			
				12718	322.0	327.0	5.0	N			
				12719	327.0	332.0	5.0	N			
				12720	332.0	337.0	5.0	N			
				12721	337.0	342.0	5.0	N			
				12722	342.0	347.0	5.0	N			
				12723	347.0	348.5	1.5	N			
				12724	348.5	349.5	1.0	T	.04	.10	
				12725	349.5	355.0	5.5	T			
				12726	355.0	360.0	5.0	T			
				12727	360.0	365.0	5.0	N			
				12728	365.0	370.0	5.0	N			
				12729	370.0	375.0	5.0	N			
				12730	375.0	380.0	5.0	N			
				12731	380.0	385.0	5.0	N			
				12732	385.0	390.0	5.0	N			
				12733	390.0	395.0	5.0	T			
				12734	395.0	400.0	5.0	N			
				12735	400.0	405.0	5.0	N			
				12736	405.0	410.0	5.0	N			
				12737	410.0	415.0	5.0	N			
				12738	415.0	420.0	5.0	N			
				12739	420.0	425.0	5.0	N			
				12740	425.0	430.0	5.0	N			
				12741	430.0	435.0	5.0	N			
				12742	435.0	440.0	5.0	N			
				12743	440.0	445.0	5.0	N			
				12744	445.0	450.0	5.0	N			
				12745	450.0	455.0	5.0	N			
				12746	455.0	460.0	5.0	N			
				12747	460.0	465.0	5.0	N			
				12748	465.0	470.0	5.0	N			
				12749	470.0	475.0	5.0	N			
				12750	475.0	480.0	5.0	N			
				12751	480.0	485.0	5.0	N			
				12752	485.0	490.0	5.0	N			
				12753	490.0	495.0	5.0	N			
				12754	495.0	500.0	5.0	N			

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

PROPERTY DETOUR LAKES HOLE NO. DLO-39-8

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
				12755	500.0	505.0	5.0	N			
				12756	505.0	510.0	5.0	N			
				12757	510.0	515.0	5.0	N			
				12758	515.0	520.0	5.0	N			
				12759	520.0	525.0	5.0	N			
				12760	525.0	530.0	5.0	N			
				12761	530.0	535.0	5.0	N			
				12762	535.0	540.?	5.0	N			
				12763	540.0	545.0	5.0	N			
				12764	545.0	550.0	5.0	N			
				12765	550.0	555.0	5.0	T			
				12766	555.0	560.0	5.0	T			
				12767	560.0	565.0	5.0	N			
				12768	565.0	570.0	5.0	N			
				12769	570.0	575.0	5.0	N			
				12770	575.0	580.0	5.0	N			
				12771	580.0	585.0	5.0	N			
				12772	585.0	590.0	5.0	N			
				12773	590.0	595.0	5.0	N			
				12774	595.0	600.0	5.0	N			
				12775	600.0	603.0	3.0	N			

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

PROPERTY	DETOUR LAKE	LATITUDE	215 NORTH	STARTED	JULY 5, 1975
HOLE NO.	DLO-39 - 9	DEPARTURE	L266+ 00E	FINISHED	JULY 11, 1975
BEARING	180°	ELEVATION		LENGTH	600'
DIP-COLLAR	-45°	SECTION		LOGGED BY	A. JACKSON

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	45°				
400'	39°				
600'	38°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
				A12776	170.0	175.0	5.0	N			
0	170.0	CASING		A12777	175.0	180.0	5.0	N			
				A12778	180.0	185.0	5.0	N			
170.0	211.0	FELSIC TUFF		A12779	185.0	190.0	5.0	N			
		Light grey; bedding at 45°		A12780	190.0	195.0	5.0	N			
		Porphyritic texture due to feldspar "crystals", probably a crystal tuff	1% diss. py	A12781	195.0	200.0	5.0	N			
		1% diss. py		A12782	200.0	205.0	5.0	N			
		185.5 - 187.5: MAFIC FLOW, medium to coarse grained amphibolite		A12783	205.0	210.0	5.0	N			
				A12784	210.0	215.0	5.0	N			
		188.5 - 190.5: MAFIC TUFF, mod. chloritic		A12785	215.0	220.0	5.0	N			
				A12786	220.0	225.0	5.0	N			
211.0	373.5	MAFIC FLOWS		A12787	225.0	230.0	5.0	N			
		Coarse grained, dark green, massive, high amphibole content		A12788	230.0	235.0	5.0	N			
		222 - 228: Felsic tuff		A12789	235.0	240.0	5.0	N			
		243 - 244: Mafic tuff, mod. chloritic		A12790	240.0	245.0	5.0	N			
		248 - 251.5: Felsic tuff, well bedded at 45°		A12791	245.0	250.0	5.0	N			
		271 - 278: Felsic tuff; crystal tuff, bedded at 45°		A12792	250.0	255.0	5.0	N			
		281 - 284: Felsic - crystal tuff		A12793	255.0	260.0	5.0	N			
		300 - 313: Mafic flow, with white feldspar groundmass		A12794	260.0	265.0	5.0	N			
		317 - 321: Felsic tuff; bedding at 45°, 1-2% py		A12795	265.0	270.0	5.0	T			
		323 - 325: Mafic tuff, chloritic		A12796	270.0	275.0	5.0	N			
		327 - 332: 3-4% py, minor po, occ. traces cpy in stringers and along bedding	3-4% py, tr cpy	A12797	275.0	280.0	5.0	T			
				A12798	280.0	285.0	5.0	T			
		336 - 340: 2 or 3 narrow 1" quartz veins, minor po, py		A12799	285.0	290.0	5.0	T			
		347 - 348: 3% py - tuffaceous	3% py	A12800	290.0	295.0	5.0	T			
		348 - 350: 1 - 2% py		A12901	295.0	300.0	5.0	T			
		350 - 373.5: Coarse grained - 5-10% white feldspar matrix with acicular amphiboles		A12902	300.0	305.0	5.0	T			
				A12903	305.0	310.0	5.0	T			
				A12904	310.0	315.0	5.0	T			
373.5	395	FELSIC TUFF		A12905	315.0	320.0	5.0	T			
		Fine grained, medium to light grey, occ. feldspar "crystals" throughout		A12906	320.0	325.0	5.0	N			
		well bedded at 45°.		A12907	325.0	330.0	5.0	T			
		3-5% po, py, minor cpy along fractures and occ. narrow quartz veins.		A12908	330.0	335.0	5.0	T			
		378 - 380: Mafic flow		A12909	335.0	340.0	5.0	N			
				A12910	340.0	345.0	5.0	N			
[redacted]	399	MAFIC FLOW		A12911	345.0	350.0	5.0	N			
		Coarse grained, as in 350 - 373.5.		A12912	350.0	355.0	5.0	N			
				A12913	355.0	360.0	5.0	N			
				A12914	360.0	365.0	5.0	N			
				A12915	365.0	370.0	5.0	N			

REGISTERED PROFESSIONAL ENGINEER
P. J. MARICOU
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.
				A12916	370.0	375.0	5.0	N			
399	416	CHLORITE ALTERATION		A12917	375.0	380.0	5.0	N			
		Fine grained, light to medium green, highly chloritic, well foliated at 45°		A12918	380.0	385.0	5.0	T			
		1% py along bedding and diss.		A12919	385.0	390.0	5.0	N			
				A12920	390.0	395.0	5.0	N			
416	598	MAFIC FLOW		A12921	395.0	400.0	5.0	T			
		Coarse grained, as in 350 - 373.5, flows are narrow, 2'-5', separated		A12922	400.0	405.0	5.0	N			
		by chloritic tuff, usually with py, po associated; occ. minor cpy along		A12923	405.0	410.0	5.0	N			
		fractures.		A12924	410.0	415.0	5.0	T			
		454 - 456.5: Felsic - cherty tuff		A12925	415.0	420.0	5.0	T			
		457 - 459: 2 - 4% Py	2-4% py	A12926	420.0	425.0	5.0	T			
		480 - 488: mixed flow contact with fine grained flow		A12927	425.0	430.0	5.0	T			
		with inclusions of coarse grained flow		A12928	430.0	435.0	5.0	T			
		488 - 598: Coarse grained, highly magnetic flows, with		A12929	435.0	440.0	5.0	T			
		each flow being 5'-15', separated by 1'		A12930	440.0	445.0	5.0	T			
		sections of fine grained material, usually		A12931	445.0	450.0	5.0	T			
		with increase in py to 2-3%. 1%Py. Overall in stringers.	1% Py	A12932	450.0	455.0	5.0	T			
		500 - 502: 1-2% py in stringers.	1 - 2% py	A12933	455.0	460.0	5.0	T			
		540 - 542: Fine grained, 2-3% py, traces cpy	2-3% py, tr cpy	A12934	460.0	465.0	5.0	T			
		2 quartz veins, ½"		A12935	465.0	470.0	5.0	T			
		554 - 556: INT. TUFF: well bedded at 60°, 3% py.	3% py, minor cpy	A12936	470.0	475.0	5.0	T			
		minor cpy, also 1 quartz vein, 2".		A12937	475.0	480.0	5.0	T			
		595 - 596: Felsic tuff, crystals of feldspar throughout.		A12938	480.0	485.0	5.0	T			
				A12939	485.0	490.0	5.0	T			
598	600	FELSIC TUFF		A12940	490.0	495.0	5.0	T			
		Fine grained, medium grey, numerous feldspar "crystals" throughout.		A12941	495.0	500.0	5.0	T			
				A12942	500.0	505.0	5.0	T			
				A12943	505.0	510.0	5.0	T			
				A12944	510.0	515.0	5.0	T			
	600	END OF HOLE		A12945	515.0	520.0	5.0	T			
				A12946	520.0	525.0	5.0	T			
				A12947	525.0	530.0	5.0	T			
				A12948	530.0	535.0	5.0	T			
				A12949	535.0	540.0	5.0	T			
				A12950	540.0	542.0	2.0	T		.18	
				A12951	542.0	547.0	5.0	T			
				A12952	547.0	552.0	5.0	T			
				A12953	552.0	554.0	2.0	T			
				A12954	554.0	556.0	2.0	T		.13	
				A12955	556.0	561.0	5.0	T			
				A12956	561.0	566.0	5.0	T			
				A12957	566.0	571.0	5.0	T			
				A12958	571.0	576.0	5.0	T			
				A12959	576.0	581.0	5.0	T			
				A12960	581.0	586.0	5.0	T			
				A12961	586.0	591.0	5.0	T			
				A12962	591.0	596.0	5.0	T			
				A12963	596.0	600.0	4.0	T			

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

						DIP TEST					
PROPERTY	DETOUR LAKES	LATITUDE	211 + 00 N	STARTED	JULY 13, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	DLO-39-10	DEPARTURE	252 + 00 E	FINISHED	JULY 18, 1975	200'	41°				
BEARING	180°	ELEVATION		LENGTH	645'	400'	38°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	P. M. H. RITCHIE	645'	34°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
				A12967	82.0	87.0	5.0	N			
0	82	CASING		A12968	87.0	92.0	5.0	N			
				A12969	92.0	97.0	5.0	N			
82.0	177.0	MAFIC FLOWS AND TUFFS (1a, 1c)		A12970	97.0	102.0	5.0	N			
		82 - 83: Fine grained mafic tuff moderately foliated		A12971	102.0	107.0	5.0	N			
		83 - 114.5: Massive coarse grained mafic flow non-mag-		A12972	107.0	112.0	5.0	N			
		netic, 50% 2-10mm amphibole Xtls in a fine		A12973	112.0	117.0	5.0	N			
		grained chlorite feldspar matrix.		A12974	117.0	122.0	5.0	N			
		Contact of tuff with flow 57° to C.A.		A12975	122.0	127.0	5.0	N			
		Contact, foliation or tuffaceous bedding are		A12976	127.0	132.0	5.0	T			
		parallel		A12977	132.0	137.0	5.0	T	.01		
		92': ¼" Quartz vein		A12978	137.0	142.0	5.0	N	.02		
		114: ½" quartz vein , trace py	Trace py	A12979	142.0	147.0	5.0	N			
		114.5 - 125: Fine grained mafic flow, dark grey green		A12980	147.0	152.0	5.0	N			
		non-magnetic		A12981	152.0	157.0	5.0	T			
		125 - 125.6: Quartz vein with 2% py (concentrated as vein-		A12982	157.0	162.0	5.0	N			
		lets in the quartz)	2% py	A12983	162.0	168.0	6.0	N			
		125.6 - 128: Massive coarse grained mafic flow - as		A12984	168.0	169.0	1.0	N			
		83 - 114.5.		A12985	169.0	174.0	5.0	N			
		128 - 139: Fine grained mafic flow with flow banding-		A12986	174.0	179.0	5.0	N			
		irregular. Minor chlorite fragments.	trace po and cpy	A12987	179.0	184.0	5.0	N			
		Trace po and cpy		A12988	184.0	189.0	5.0	N			
		139 - 149.5: Coarse grained mafic flow - moderately		A12989	189.0	194.0	5.0	N			
		foliated 41° to C.A. Non-magnetic - as		A12990	194.0	199.0	5.0	N			
		83 - 114.5.		A12991	199.0	204.0	5.0	T			
		149.5 - 177: Fine grained to medium grained mafic flow.		A12992	204.0	209.0	5.0	.005			
		Trace po py	trace po and py	A12993	209.0	214.0	5.0	N			
		149.5 - 168: 1% py (upto 2% in places)	1% py	A12994	214.0	219.0	5.0	N			
		168 - 169: Quartz vein tr py, cpy - whole core sent in		A12995	219.0	224.0	5.0	N			
		for assay	trace po cpy	A12996	224.0	229.0	5.0	N			
		169 - 177: Slightly foliated trace py	trace py	A12997	229.0	234.0	5.0	N			
				A12998	234.0	239.0	5.0	N			
177	210.5	FELSIC TUFF (4c)		A12999	239.0	244.0	5.0	N			
		Contact 26° to C.A. Light grey with <1mm pale blue quartz eyes.		A13000	244.0	249.0	5.0	N			
		Foliation 58° to C.A.		A12801	249.0	254.0	5.0	N			
		1% py, 0.5% po	1% py, 0.5% po	A12802	254.0	259.0	5.0	N			
		186 - 187½: Fine grained mafic flow, dark green grey		A12803	259.0	264.0	5.0	N			
		1% diss. py	1% py	A12804	264.0	269.0	5.0	N			
				A12805	269.0	274.0	5.0	N			

REGISTERED PROFESSIONAL ENGINEER
P. J. MARCOT
PROVINCE OF ONTARIO

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

PROPERTY	DETOUR LAKES	LATITUDE	223 + 50 NORTH	STARTED	July 21st, 1975
HOLE NO.	38 - 71	DEPARTURE	248 + 00 EAST	FINISHED	July 25th, 1975
BEARING	180°	ELEVATION		LENGTH	596 FEET
DIP-COLLAR	-45°	SECTION		LOGGED BY	P. M. H. RITCHIE

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	38°				
400'	35°				
596'	30°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	
				A12881	49.0	54.0	5.0	T			
0	49.0	CASING		A12882	54.0	59.0	5.0	T			
				A12883	59.0	64.0	5.0	T			
49.0	56.5	Fine grained, green grey mafic flows (1a)		A12884	64.0	69.0	5.0	T			
		50': 1/3" quartz vein		A12885	69.0	74.0	5.0	T			
		55.5: 1" quartz and feldspar vein		A12886	74.0	79.0	5.0	T			
		Tr py, po	tr py, po	A12887	79.0	84.0	5.0	T			
				A12888	84.0	89.0	5.0	T			
56.5	62.0	Contact 57° to C.A.		A12889	89.0	94.0	5.0	T			
		Fine grained light grey intermediate flow (2a)		A12890	94.0	99.0	5.0	T			
		58.0: 3/4" irregular quartz vein		A12891	99.0	104.0	5.0	T			
		59.0: 1" irregular quartz vein		A12892	104.0	109.0	5.0	T			
		tr po, py	tr po, py	A12893	109.0	114.0	5.0	T			
				A12894	114.0	119.0	5.0	T			
62.0	139.0	Fine grained green grey mafic flow (1a), minor tuffs (1c)		A12895	119.0	124.0	5.0	T			
		Tuffaceous bedding at 122' 52° to C.A.		A12896	124.0	129.0	5.0	T			
		62.0 - 73.5: Chloritic, carbonate amygdules, tr py, po	tr py, po	A12897	129.0	134.0	5.0	T			
		73.5 - 75.0: Light grey felsic tuff (4c)		A12898	134.0	139.0	5.0	T			
		Bedding and foliation 50° to C.A.		A12899	139.0	144.0	5.0	T			
		½% py, po, along foliation	½% py, po	A12900	144.0	149.0	5.0	T			
		75.0 - 139.0: Mafic flow, minor tuffs, non-magnetic,		A11001	149.0	154.0	5.0	N			
		tr py, po	tr py, po	A11002	154.0	159.0	5.0	N			
		99.0: 1" quartz vein		A11003	159.0	164.0	5.0	N			
		105.0: ½" quartz vein		A11004	164.0	169.0	5.0	N			
		107.0: 3/4" quartz vein		A11005	169.0	175.0	6.0	N			
		117.0: 1/3" quartz - feldspar vein		A11006	175.0	180.0	5.0	N			
		123.0: 1/3" quartz vein		A11007	180.0	182.0	2.0	T			w/core
				A11008	182.0	188.0	6.0	T			
139.0	145.0	Very gradation contact.		A11009	188.0	193.0	5.0	T			
		Medium grained grey intermediate flow(possible sill) "dioritic texture" (2a)		A11010	193.0	198.0	5.0	T			
		½% po	½% po	A11011	198.0	203.0	5.0	T			
		141.0: ½" quartz vein with po		A11012	203.0	208.0	5.0	N			
		145.0: 1" quartz vein (followed by mafic flow)		A11013	208.0	213.0	5.0	N			
				A11014	213.0	218.0	5.0	N			
[redacted]0	182.0	Contact 56° with C.A.		A11015	218.0	223.0	5.0	N			
		Fine grained grey mafic flow (1a) minor tuff (1c)		A11016	223.0	228.0	5.0	T			
		Chloritic, sericitic and phlogopitic, tr po, py, minor breccia	tr po, py	A11017	228.0	233.0	5.0	N			
		174.0: 2-2" quartz veins		A11018	233.0	238.0	5.0	N			
		180.0 - 182.0: ½% po, tr cpy, py, (whole core)	½% po, tr cpy, py	A11019	238.0	243.0	5.0	N			
				A11020	243.0	243.0	5.0	N			

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PROVINCE OF ONTARIO

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

PROPERTY DETOUR LAKES HOLE NO. 38 - 71 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	
				A11021	248.0	253.0	5.0	N			
182.0	188.0	Contact 51° to C.A.		A11022	253.0	258.0	5.0	N			
		Light grey felsic tuff (4c)		A11023	258.0	263.0	5.0	N			
		¼% py, po, cpy	¼% py, po, cpy	A11024	263.0	268.0	5.0	N			
				A11025	268.0	273.0	5.0	N			
188.0	204.0	Contact 50° to C.A.		A11026	273.0	278.0	5.0	N			
		Green grey fine to medium grained mafic flows (1a)		A11027	278.0	283.0	5.0	N			
		With minor felsic tuffs (4c)		A11028	283.0	288.0	5.0	T			
		Chloritic and phlogopitic ¼% py, tr po	¼% py, tr po	A11029	288.0	290.5	2.5	.005			
		191.5 - 194.5: Grey felsic tuff (4c) tr py	tr py	A11030	290.5	292.5	2.0	.01		.05	
		200.0: 1" quartz vein		A11031	292.5	298.0	5.5	.005		.04	
				A11032	298.0	303.0	5.0	T		.03	
204.0	227.0	Light grey felsic tuff (4c)		A11033	303.0	304.0	1.0	.03		.14	w/core
		Contact 35° to C.A.		A11034	304.0	309.0	5.0	T		.02	
		A few pinkish bands - ½% py	½% py	A11035	309.0	314.0	5.0	T			
				A11036	314.0	319.0	5.0	T			
227.0	275.0	Fine to medium grained grey intermediate flows (2a)		A11037	319.0	324.0	5.0	N			
		Minor intermediate tuffs (2c) and breccia and felsic tuffs (4c)		A11038	324.0	329.0	5.0	N			
		Contact 54° to C.A.		A11039	329.0	334.0	5.0	N			
		Tr py, po	tr py, po	A11040	334.0	339.0	5.0	N			
		227.0: ½" quartz vein		A11041	339.0	344.0	5.0	N			
		235½ - 239.0: dioritic texture		A11042	344.0	349.0	5.0	N			
		243.0 - 245.0: dioritic texture		A11043	349.0	354.0	5.0	N			
		243.5: ½" quartz vein		A11044	354.0	359.0	5.0	N			
		247.0 - 248.0: highly chloritic		A11045	359.0	364.5	5.5	N			
		248.0 - 249.0: light grey felsic tuff (4c)		A11046	364.5	365.5	1.0	T		.02	w/core
		251.5: ½" quartz vein with po, py		A11047	365.5	370.0	4.5	T			
		252.0 - 259.0: Finer grained dioritic texture		A11048	370.0	375.0	5.0	.01			
		264.0 - 266.0: light grey felsic tuff (4c)		A11049	375.0	380.0	5.0	T			
		266.0 - 271.0: dioritic texture		A11050	380.0	385.0	5.0	T			
		271.0 - 275.0: light grey felsic tuff (4c)		A11051	385.0	390.0	5.0	N			
				A11052	390.0	395.0	5.0	.005			
275.0	288.0	Contact 55° to C.A. (very sharp contact) interbedded fine grained		A11053	395.0	400.0	5.0	T			
		chloritic (green) flow (1a) and light grey felsic tuff (4c)		A11054	400.0	405.0	5.0	T			
		½% py, (most of the py is in the chloritic zones)	½% py	A11055	405.0	410.0	5.0	T			
		282.5 - 283.5: Large 10 mm amphibole crystals, not magnetic chloritic		A11056	410.0	415.0	5.0	T			
				A11057	415.0	420.0	5.0	T			
		277.5: 1/3" quartz vein		A11058	420.0	425.0	5.0	T			
				A11059	425.0	430.0	5.0	T			
288.0	305.0	Contact 56° to C.A.		A11060	430.0	435.0	5.0	T			
		Low talc - high carbonate chlorite alteration zones (5b) chlorite schist		A11061	435.0	440.0	5.0	T			
		Magnetic due to magnetite and po		A11062	440.0	445.0	5.0	.005			
		301.0 - 302.0: grey felsic tuff		A11063	445.0	449.0	4.0	T			
		303.5 - 303.8: grey felsic tuff		A11064	449.0	453.0	4.0	T			
		1-1½% py, po; tr cpy (290.5 - 292.5; 303.0 - 304.0 - whole core)	1-1½% py, po, tr cpy	A11065	453.0	458.0	5.0	T			
				A11066	458.0	463.0	5.0	T			
				A11067	463.0	468.0	5.0	T			
305.0	313.0	Contact 49° to C.A.		A11068	468.0	473.0	5.0	T			
		Medium grained intermediate flow (fine grained dioritic texture) (2a)		A11069	473.0	478.0	5.0	T			
		with minor grey felsic tuff) (4c) interbeds.		A11070	478.0	483.0	5.0	T			
		tr py	tr py	A11071	483.0	488.0	5.0	T			
				A11072	488.0	493.0	5.0	T			
				A11073	493.0	498.0	5.0	T			
				A11074	498.0	503.0	5.0	T			

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
				A11075	503.0	508.0	5.0	T		
313.0	332.0	Contact 49° to C.A.		A11076	508.0	513.0	5.0	T		
		Chlorite alteration zone (5b) chlorite schist low talc - high carbonate.		A11077	513.0	518.0	5.0	T		
		Magnetic in places due to magnetite and po. $\frac{1}{2}$-1% py, po (mostly py)	$\frac{1}{2}$-1% py, po(mostly py)	A11078	518.0	523.0	5.0	T		
		315.2: $\frac{1}{2}$" quartz vein		A11079	523.0	528.0	5.0	T		
		316.2: 0.3' chert bed		A11080	528.0	533.0	5.0	T		
		320.3: 0.5' dark grey felsic flow		A11031	533.0	538.0	5.0	T		
		326.0: 0.8' quartz vein - chloritized		A11082	538.0	543.0	5.0	T		
		327.5: $1\frac{1}{2}$" pinkish chert, $1\frac{1}{2}$" quartz vein		A11033	543.0	548.0	5.0	T		
				A11034	548.0	553.0	5.0	T		
332.0	335.5	Light grey felsic tuff (4c)		A11085	553.0	558.0	5.0	T		
		Contact 53° to C.A. $\frac{1}{2}$% py	$\frac{1}{2}$% py	A11086	558.0	563.0	5.0	T		
				A11087	563.0	568.0	5.0	T		
335.5	341.0	Chlorite alteration zone - chlorite schist (5b)		A11088	568.0	573.0	5.0	T		
		Contact 39° to C.A. Minor talc and tremolite, carbonate. Magnetic in places.		A11089	573.0	578.0	5.0	T		
				A11090	578.0	583.0	5.0	T		
		339.5 - 341.0: Grey felsic tuff		A11091	583.0	588.0	5.0	T		
		Tr py, po	tr py, po	A11092	588.0	592.0	4.0	T		
				A11093	592.0	596.0	4.0	T		
341.0	356.0	Schistose talc carbonate ultramafic (flow) (6a)								
		Magnetic - chloritic. Contact (58° flow banding parallel to foliation)								
		$\frac{1}{4}$% py, po	$\frac{1}{4}$% py, po							
356.0	365.4	Grey felsic tuff (4c)								
		62° tuffaceous bedding								
		362.5: 1" quartz vein								
		364.5 - 365.5: Tr cpy whole core								
		$\frac{1}{2}$-1% py, tr po, cpy	$\frac{1}{2}$%-1% py, tr po, cpy							
365.4	387.0	Fine grained amphibolite with serpentine and carbonate grains (6b) mostly magnetic								
		Contact 62° with C.A.								
		382.0 - 383.0: Grey felsic tuff								
		$\frac{1}{2}$-1% py, tr po	$\frac{1}{2}$-1% py, tr po							
387.0	434.0	Contact 75° with C.A.								
		Grey felsic to intermediate flows or tuffs (4a + 4c)								
		Magnetic in places due to po and magnetite. $\frac{1}{2}$% py, tr po	$\frac{1}{2}$% py, tr po							
		392.0: $\frac{1}{2}$" quartz vein								
		396.0: Irregular 1/3" quartz vein tr cpy								
		406.0 - 412.0: Chlorite alteration zone (5b)								
		420.0-422.0: Chloritic zone								
		422.0 - 423.5: Light grained felsic tuff								
		430.0 - 432.5: White grey felsic tuff								
		432.5 - 434.0: Chloritic zone.								
434.0	458.0	Fine grained mafic tuffs and flows (1a + 1c)								
		Contact indistinct. Tuffaceous bedding 61° to C.A.								
		434.0 - 438.0: Mafic flow fine grained green grey, tr py, po	tr py, po							
		438.0 - 458.0: Lapilli tuff - dark green lapillis in a fine grained green grey mafic matrix. $\frac{1}{4}$% py, po 4-15mm angular lapillis	$\frac{1}{4}$% py, po							

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
458.0	465.0	Light grey felsic tuff (4c) Contact 52° to C.A. ½-1% po, py, tr cpy (sulfides concentrated mostly in blebs or veins) 458.5: ½" x 1" sulfide bleb po - py 5-1 463.5: 2 - ½" quartz vein with po, py 463.4: 0.5' chlorite zone	½-1% po, py, tr cpy					
465.0	523.0	Grey green fine grained mafic flows and tuffs (1a or 1c) Phlogopitic and chloritic. Tuffaceous bedding 41° ½ - 1% py, po (mostly po) tr cpy 430.0 - 482.0: Thin interbeds of grey felsic tuff and/or flows 485.5 - 490.0: Light grey felsic tuff (4c) 491.0: Tr cpy 495.5 - 498.0: Grey felsic flow 506.5: Tr cpy 503.0: 1½" quartz vein with po, py	½-1% py, po, tr cpy					
523.0	545.0	Light grey to grey felsic tuffs with chloritic interbeds (4c) Contact 63° with C.A. ½-1% py, minor po 528.5: 4 Quartz veins ½", 1", 1", 4" with py, po 536.0 - 538.0: pink felsic flows 538.0 - 539.0: Medium grained grey green mafic flow 548.5 - 549.0: Medium grained grey green mafic flow	½-1% py, minor, po					
545.0	596.0	Grey green medium grained mafic flows (1a) minor fine grained. Non-magnetic - phogopitic Contact 60° with C.A. ¼% py. 570.0: 1½" fine grained grey felsic flow 572.5: 0.3' fine grained grey felsic flow rock. 584.5: 1.6' fine grained grey felsic flow. 591.0: 1.5' fine grained grey felsic flow.	¼% py.					
	596.0	END OF HOLE						

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

PROPERTY	DETOUR LAKE	LATITUDE	LINE 216 + 00E	STARTED	April 25th, 1975
HOLE NO.	DLO - 74 - 38 - 37	DEPARTURE	STA. 212 + 50N	FINISHED	April 29th, 1975
BEARING	180°	ELEVATION		LENGTH	668'
DIP-COLLAR	- 45°	SECTION		LOGGED BY	BABU GAJARIA

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	36°	Tropari 667'	Az 183° dip 30°		
400'	29°	(Acid) 100'	41°		
600'	28½°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
0	90.0	CASING (87.0' Overburden)		A14493	90.0	95.0	5.0	T				
				A14494	95.0	100.0	5.0	T				
90.0	141.8	MAFIC TUFF (banded) The rock is intermixed with mafic flow. The	½% pyrite trace Po	A14495	100.0	105.0	5.0	T				
		rock is medium grained and well banded, with biotite and amphibole rich		A14496	105.0	110.0	5.0	T				
		bands. It contains intermixed sediments.		A14497	110.0	115.0	5.0	T				
				A14498	115.0	120.0	5.0	T				
141.8	150.0	INTERMEDIATE AGGLOMERATE - Cherty: It is light green in colour	1% Py, ½% Po	A14499	120.0	125.0	5.0	T				
		with some quartz veining. There is an increase in sulphide minerali-	trace Cpy	A14500	125.0	130.0	5.0	T				
		zation.		A14501	130.0	135.0	5.0	T				
				A14502	135.0	140.0	5.0	T				
150.0	159.7	MAFIC LAVA FLOW: Fine grained, light green in colour and is chlori-	½% Pyrite	A14503	140.0	145.0	5.0	T				
		tic. It has a gradational contact with the mafic tuff to the south.		A14504	145.0	150.0	5.0	T				
				A14505	150.0	155.0	5.0	T				
159.7	166.0	MAFIC TUFF: It is very fine grained and biotite rich.	trace sulphides	A14506	155.0	160.0	5.0	T				
				A14507	160.0	165.0	5.0	T				
166.0	171.2	INTERMEDIATE AGGLOMERATE: Cherty composition and character is	½% Po	A14508	165.0	170.0	5.0	T				
		is as above. It contains cherty fragments within a mafic matrix.	trace pyrite	A14509	170.0	175.0	5.0	T				
				A14510	175.0	180.0	5.0	T				
171.2	201.0	MAFIC TUFF (banded) : Composition and character is as above. The	trace pyrrhotite	A14511	180.0	185.0	5.0	T				
		north contact with the intermediate tuff is probably tuffaceous mafic flow.		A14512	185.0	190.0	5.0	T				
		108.0': Bedding/core axis angle is 34°.		A14513	190.0	195.0	5.0	T				
		128.0': Bedding/core axis angle is 26°.		A14514	195.0	200.0	5.0	T				
		187.0': Bedding/core axis angle is 26°.		A14515	200.0	205.0	5.0	T				
				A14516	205.0	210.0	5.0	T				
201.0	203.6	MAFIC TUFF: It is fine grained and not banded as above. It shows	trace pyrrhotite	A14517	210.0	215.0	5.0	N				
		graded bedding, with finer grains to the north, indicating stratigraphic		A14518	215.0	220.0	5.0	.05				
		up is to the north.		A14519	220.0	225.0	5.0	T				
				A14520	225.0	230.0	5.0	N				
203.6	217.1	MAFIC TUFF: It is banded with intermixed sediments.	trace sulphides	A14521	230.0	235.0	5.0	N				
				A14522	235.0	240.0	5.0	N				
217.1	222.3	MAFIC TUFF: Chloritic. It is medium grained with fragments of	trace pyrite	A14523	240.0	245.0	5.0	N				
		feldspar.		A14524	245.0	250.0	5.0	N				
				A14525	250.0	255.0	5.0	N				
222.3	230.5	MAFIC TUFF: Banded: Composition and character is as above.	trace sulphides	A14526	255.0	260.0	5.0	N				
				A14527	260.0	265.0	5.0	N				
230.5	233.8	MAFIC TUFFITE: Thinly banded, biotite rich with quartz pebbles	½% pyrite	A14528	265.0	270.0	5.0	T				
		(possibly sedimentary). The rock contains disseminated pyrite.		A14529	270.0	275.0	5.0	T				

REGISTERED PROFESSIONAL ENGINEER P. I. WINGER 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.	ASSAYS Pb.
233.8	264.7	MAFIC LAVA FLOW: It is characteristic coarse grained amphibolite. It contains intermixed banded mafic tuff, and the contact between coarse grained mafic tuff and amphibolite flow is gradational, indicating the amphibolite to have originated from mafic lava flow.	trace sulphides	A14530	275.0	280.0	5.0	T				
				A14531	280.0	285.0	5.0	T				
				A14532	285.0	290.0	5.0	T				
				A14533	290.0	295.0	5.0	T				
				A14534	295.0	300.0	5.0	T				
264.7	270.6	FELSIC TUFF, Cherty: It is dark purplish in colour, and makes a sharp contact with the mafic tuff to the south. It contains euhedral crystals of pyrite. Note there is no quartz veining or chalcopyrite mineralization.	½% pyrite	A14535	300.0	305.0	5.0	T				
				A14536	305.0	310.0	5.0	N				
				A14537	310.0	315.0	5.0	N				
				A14538	315.0	320.0	5.0	N				
270.6	285.8	MAFIC TUFF: It is light green in colour and contains numerous feldspar fragments which are fine to medium grained. The rock has an almost microclicritic texture.		A14539	320.0	325.0	5.0	T				
			trace sulphides	A14540	325.0	330.0	5.0	T				
				A14541	330.0	335.0	5.0	N				
				A14542	335.0	340.0	5.0	N				
285.8	292.7	INTERMEDIATE TUFF: It is dark purplish in colour and thinly banded. It has a gradational contact to the south with the mafic flow.		A14543	340.0	345.0	5.0	T				
				A14544	345.0	350.0	5.0	T				
		204.0: Bedding/core axis angle is 45°.		A14545	350.0	355.0	5.0	N				
		256.0: Bedding/core axis angle is 58°.		A14546	355.0	360.0	5.0	N				
		275.0: Bedding/core axis angle is 45°.		A14547	360.0	365.0	5.0	N				
				A14548	365.0	370.0	5.0	N				
		264.7: Contact/core axis angle is 64°.		A14549	370.0	375.0	5.0	N				
		270.7: Contact/core axis angle is 80°.		A14550	375.0	380.0	5.0	N				
		285.8: Contact/core axis angle is 56°.		A14551	380.0	385.0	5.0	N				
				A14552	385.0	390.0	5.0	T				
292.7	337.0	MAFIC LAVA FLOW: It is medium grained and amphibolitized. Contains some carbonate veinlets and intermixed tuffs. Schistosity is poorly developed.	trace sulphides	A14553	390.0	395.0	5.0	T				
				A14554	395.0	400.0	5.0	N				
				A14555	400.0	405.0	5.0	N				
				A14556	405.0	410.0	5.0	N				
337.0	341.4	INTERMEDIATE TUFF: Medium grained, angular fragments of pinkish quartz and feldspar.	trace sulphides	A14557	410.0	415.0	5.0	N				
				A14558	415.0	420.0	5.0	N				
				A14559	420.0	425.0	5.0	N				
341.4	363.3	MAFIC TUFF AND MAFIC FLOW: (may be intermediate in composition) The rock is thinly schistose, chlorite rich, light green in colour. Fine grained intermixed tuff and flow.	trace sulphides	A14560	425.0	430.0	5.0	N				
				A14561	430.0	435.0	5.0	N				
				A14562	435.0	440.0	5.0	T				
				A14563	440.0	445.0	5.0	T				
363.3	368.0	INTERMEDIATE TUFF: It is dark purplish in colour, cherty. The groundmass is made up of fine grained chlorite and biotite. The rock contains fine grained quartz eyes.	trace pyrite	A14564	445.0	450.0	5.0	T				
				A14565	450.0	455.0	5.0	N				
				A14566	455.0	460.0	5.0	N				
				A14567	460.0	465.0	5.0	N				
368.0	405.5	MAFIC LAVA FLOW: It is medium grained, amphibolitised mafic lava flow. It contains intermixed fine grained tuff.	trace sulphides	A14568	465.0	470.0	5.0	N				
				A14569	470.0	475.0	5.0	T				
		292.0: Bedding/core axis angle is 48°.		A14570	475.0	480.0	5.0	T				
		349.0: Bedding/core axis angle is 50°.		A14571	480.0	485.0	5.0	T				
				A14572	485.0	490.0	5.0	T				
		292.7: Contact/core axis angle is 60°. Int. tuff with mafic lava flow.		A14573	490.0	495.0	5.0	T				
				A14574	495.0	500.0	5.0	T				
				A14575	500.0	505.0	5.0	T				
		396.3 - 397.0: Fine grained mafic tuff.		A14576	505.0	510.0	5.0	T				
		399.3 - 399.9: Fine grained mafic tuff.		A14577	510.0	515.0	5.0	N				
				A14578	515.0	520.0	5.0	N				
				A14579	520.0	525.0	5.0	N				
				A14580	525.0	530.0	5.0	N				
				A14581	530.0	535.0	5.0	N				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
405.5	412.6	FELSIC TUFF: Cherty, light grey in colour. It has a sharp contact to the north with mafic flow. The tuff gradually becomes intermediate in composition to the south. It has a sharp contact with the mafic flow to south. Shows euhedral crystals of pyrite similar to section (264.7 to 270.6). Some pyrite is present in Vughs. No quartz veining.	½% po	A14582	535.0	540.0	5.0	N				
				A14583	540.0	545.0	5.0	N				
			1% pyrite	A14584	545.0	550.0	5.0	N				
				A14585	550.0	555.0	5.0	N				
				A14586	555.0	560.0	5.0	N				
				A14587	560.0	565.0	5.0	N				
412.6	447.0	MAFIC LAVA FLOW: It is medium grained and amphibolitised, similar in composition to section (368.0 - 405.5). The rock gradually becomes intermediate in composition to the south.	trace sulphides	A14588	565.0	570.0	5.0	N				
				A14589	570.0	575.0	5.0	N				
				A14590	575.0	580.0	5.0	N				
				A14591	580.0	585.0	5.0	N				
447.0	471.1	INTERMEDIATE FLOW: It is fine grained, light green in colour, heavily chloritised, indicating hydrothermal alteration. The rock is heavily fractured and contains numerous criss-cross tiny quartz veinlets.	trace py + po	A14592	585.0	590.0	5.0	N				
				A14593	590.0	595.0	5.0	N				
				A14594	595.0	600.0	5.0	N				
				A14595	600.0	605.0	5.0	N				
471.1	474.9	TALC - TREMOLITE - CARBONATE ROCK (6). The composition is mafic, the rock is greyish blue in colour and fragmental and well bedded. It is extremely rich in talc and contains tiny carbonate veinlets. The rock has a gradational contact on both sides.		A14596	605.0	610.0	5.0	N				
			trace sulphides	A14597	610.0	615.0	5.0	T				
				A14598	615.0	620.0	5.0	T				
				A14599	620.0	625.0	5.0	T				
				A14600	625.0	630.0	5.0	T				
474.9	480.5	MAFIC LAVA FLOW: Fine grained. 477.0 - 479.0: Olivine rich mafic flow, has a strange flow texture. Islands of amphibole sit in a fine grained groundmass of olivine. The rock is very light green in colour.	trace sulphides	A14601	630.0	635.0	5.0	T				
				A14602	635.0	640.0	5.0	T				
				A14603	640.0	645.0	5.0	T				
				A14604	645.0	650.0	5.0	T				
				A14605	650.0	655.0	5.0	NIL				
				A14606	655.0	660.0	5.0	NIL				
				A14607	660.0	665.0	5.0	T				
480.5	481.2	OLIVINE RICH MAFIC LAVA FLOW: Composition and character is as above.	trace sulphides	A14608	665.0	668.0	3.0	NIL				
								Section 240.0 - 305.0				Split on
				668.0 - END OF HOLE				Section 380.0 - 450.0				May 1st
481.2	514.5	MAFIC LAVA FLOW: Coarse grained mafic flow. Islands of coarse grained feldspars are present within olivine rich mafic groundmass, i.e. olivine rich lava has flown around coarse grained feldspar grains. The rock is talcy - the alteration to talc carbonate being more pronounced to the south. 405.5: Contact/core axis angle is 65°. 412.6: Contact/core axis angle is 65°. 405.5: Bedding/core axis angle is 65°.										
514.5	517.8	TALC - CHLORITE - CARBONATE - ROCK: Light green in colour; contains black chlorite. Some graphite is present along cleavage planes of chlorite.	trace sulphides									
517.8	535.0	MAFIC LAVA FLOW: Fine grained to the north, become coarser to the south and similar in composition to above. The rock is fractured in places. The coarse grained flow grades into soft schistose rock below (i.e. down the hole).	trace sulphides									
535.0	568.0	SOFT SCHISTOSE ROCK (6) The rock is rich in chlorite, and amphiboles; The rock grades into coarse fragmental, well bedded, typical soft schistose talcy rock, to the south.	trace sulphides									

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

PROPERTY DETOUR LAKE HOLE NO. DLO-74-38-37 Page 4

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
535.0	568.0	CONTD.						
		553.0 - 555.0: Unaltered essentially medium grained, tremolite-actinolite rock. Very little talc is present. The rock is unbedded.						
568.0	590.3	MAFIC LAVA FLOW: Coarse grained, similar in composition to section (517.8 - 535.0).	trace sulphides					
590.3	598.4	MAFIC TUFF: (with intermixed mafic flow)	trace sulphides					
598.4	668.0	TALCY - SCHISTOSE - ROCK (6): Coarse grained, well bedded, typical talcy schistose rock.	No sulphides					
		617.5 - 626.6: Mafic tuff: Chlorite rich thinly bedded, apple green in colour.	trace sulphides					
		553.0: Bedding/core axis angle is 60°.						
		625.0: BEDDING/core axis angle is 35°.						
	668.0	END OF HOLE						

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

				DIP TEST					
				Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE L212E	STARTED April 12th, 1975						
HOLE NO.	38 - 30	DEPARTURE 209 + 00N	FINISHED April 18th, 1975	200'	42°	Tropari test	at 300	Az 165.5°	Dip 38°
BEARING	GRID SOUTH (180°)	ELEVATION	LENGTH 550.0'	400'	36°		at 550	Az 179.0°	Dip 33°
DIP-COLLAR	- 50°	SECTION	LOGGED BY W. MELNYK						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
0	78.0	CASING		A5311	80.0	85.0	5.0	T				
				A5312	85.0	90.0	5.0	N				
78.0	95.0	BASIC LAVA - A medium coarse grained, homogeneous, dark green, massive flow with crystals of uralitized - black pyroxene prominent on the core-surface. Feldspar increases in prominence, near the bottom of the unit. The rock is broken-up moderately and contains a few thin calcite and feldspar veinlets through length at high angles with the core axis. Bottom contact is sharp at 70° W.C.A. Hardness 5.5		A5313	90.0	95.0	5.0	N				
				A5314	95.0	100.0	5.0	N				
				A5315	100.0	105.0	5.0	N				
				A5316	105.0	110.0	5.0	0.01				
				A5317	110.0	115.0	5.0	T				
				A5318	115.0	120.0	5.0	T				
				A5319	120.0	125.0	5.0	T				
				A5320	125.0	130.0	5.0	.01				
				A5321	130.0	135.0	5.0	T				
95.0	97.3	INTERMEDIATE TUFF: A fine grained, grey, quartz rich rock containing sparse milky white fragments approximately 1/16" in size through length. This unit is massive and homogeneous through it's entire length. Sulfide mineralization consists of disseminated pyrrhotite (1-2%) Hardness 6.0.		A5322	135.0	140.0	5.0	T				
				A5323	140.0	145.0	5.0	T				
				A5324	145.0	150.0	5.0	.005				
				A5325	150.0	155.0	5.0	T				
				A5326	155.0	160.0	5.0	T				
				A5327	160.0	165.0	5.0	T				
97.3	98.0	BASIC TUFF: This unit is massive, dark green, fine-medium grained and contains a few milky white fragments in a chloritic matrix. This section is very weakly mineralized in disseminated pyrrhotite. Hardness 5.0.		A5328	165.0	170.0	5.0	.005				
				A5329	170.0	175.0	5.0	T				
				A5330	175.0	180.0	5.0	T				
				A5331	180.0	185.0	5.0	T				
				A5332	185.0	190.0	5.0	T				
98.0	103.1	INTERMEDIATE TUFF: Similar to 95.0 - 97.3. This section is massive grey, contains free quartz as well as black blebs of biotite in the 'make-up' of the rock. The centre portion of this unit is coarser grained than the the extremities. Sulfide mineralization consists of disseminated pyrrhotite (2-3%). Bottom contact is at 70° - 75° with core axis.		A5333	190.0	195.0	5.0	T				
				A5334	195.0	200.0	5.0	T				
				A5335	200.0	205.0	5.0	.02				
				A5336	205.0	210.0	5.0	.02				
				A5337	210.0	215.0	5.0	t				
				A5338	215.0	220.0	5.0	T				
				A5339	220.0	225.0	5.0	T				
103.1	115.5	BASIC LAVA: Similar to 78.0' - 95.0. This unit is medium grained containing uralitized black pyroxene crystals in the top portion while feldspar is prominent in the lower section. This unit is massive, semi-crystalline and weakly schistose where shearing has occurred. Sulfide mineralization is very poor with only minor disseminated pyrrhotite. Schistosity is constant at 35° W.C.A. Chalcopyrite is present in a quartz vein at 109.0. Bottom contact is sharp at 35° W.C.A. Hardness 5.5.		A5340	225.0	230.0	5.0	T				
				A5341	230.0	235.0	5.0	T				
				A5342	235.0	240.0	5.0	T				
				A5343	240.0	245.0	5.0	T				
				A5344	245.0	250.0	5.0	T				
				A5345	250.0	255.0	5.0	T				
				A5346	255.0	260.0	5.0	T				
				A5347	260.0	265.0	5.0	T				
				A5348	265.0	270.0	5.0	T				
				A5349	270.0	275.0	5.0	T				

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.	Ag.	Cu.	Zn.	Pb.
115.5	119.4	INTERMEDIATE TUFF: Similar to previous intermediate units. Grey, fine grained containing sparsely scattered milky-white fragments ranging in size to 1/16" in diameter. This massive unit contains black flakes of biotite in matrix. Bottom contact is sharp at 50° W.C.A. Hardness 6.0.		A5350	275.0	280.0	5.0	T				
				A5351	280.0	285.0	5.0	T				
				A5352	285.0	290.0	5.0	T				
				A5353	290.0	295.0	5.0	.01				
				A5354	295.0	298.0	3.0	.01		.03		
				A5355	298.0	299.0	1.0	0.42		.10		
				A5356	299.0	303.0	4.0	0.005		.06		
119.4	158.0	BASIC LAVA: This unit is granular, medium grained, massive (non-lineated) and dark green in colour. Unit is characterized by the presence of black uralitized grains of pyroxene. Unit is poorly mineralized in disseminated pyrrhotite. Hardness 6.0.		A5357	303.0	306.0	3.0	0.005		.08		
				A5358	306.0	309.0	3.0	0.13		.18		
				A5359	309.0	312.0	3.0	0.01		.12		
				A5360	312.0	315.0	3.0	0.04				
				A5361	315.0	318.0	3.0	0.08	(306.0 - 339.5)			
				A5362	318.0	321.0	3.0	0.11				
158.0	167.0	BASIC LAVA: A sheared and recrystallized picritic flow. This unit contains remnants of large uralitized pyroxene crystals. This section has undergone shearing which has imposed a weak schistosity, and rounded the pyroxene grains. Sulfide mineralization consists of blebs of pyrrhotite and smears of pyrite along fractures. Schistosity is generally at 70° W.C.A. and is represented by hairline shears containing light coloured alteration material. Hardness 6.0.		A5363	321.0	324.0	3.0	0.02	0.16 uncut (oz 1 ton Au)			
				A5364	324.0	327.0	3.0	0.07	33.5'			
				A5365	327.0	330.0	3.0	0.03	0.119 cut (oz 1 ton Au)			
				A5366	330.0	332.7	2.7	0.25	33.5'			
				A5367	332.7	333.7	1.0	2.37				
				A5368	333.7	336.0	2.3	0.17				
				A5369	336.0	339.5	3.5	0.13	V.G. at 333.0			
				A5370	339.5	342.0	2.5	0.01				
				A5371	342.0	345.2	3.2	0.03				
167.0	234.2	BASIC LAVAS: A sequence of dark-green to black, hard, predominantly fine-grained basic lavas. These flows have been altered thoroughly to the greenschist facies mineral assemblage so that the constitution silicification is extremely poor but where these do occur, the contained predominant sulfide is pyrite. Pyrite also occurs as fracture fillings while pyrrhotite occurs in disseminated form through most of the section but increases to dispersed blebs in the section from 217.0 - 232.0. Unit is lineated through the entire length at 55 - 60° W.C.A. Hardness 5.5.		345.2 - 360.0 - NOT SPLIT GOUGE								
				A5372	360.0	365.0	5.0	0.005				
				A5373	365.0	370.0	5.0	T				
				A5374	370.0	375.0	5.0	T				
				A5375	375.0	380.0	5.0	T				
				A5376	380.0	385.0	5.0	T				
				A5377	385.0	390.0	5.0	T				
				A5378	390.0	395.0	5.0	T				
				A5379	395.0	400.0	5.0	T				
				A5380	400.0	405.0	5.0	T				
234.2	236.2	FELSIC TUFF: A fine grained brownish-purple felsic unit containing fragments through length 1/16" in size. This unit is massive and very weakly mineralized in disseminated pyrrhotite. This brittle unit has been shattered extensively and usually has a related bleached zone with fractures.		A5381	405.0	410.0	5.0	T				
				A5382	410.0	415.0	5.0	T				
				A5383	415.0	420.0	5.0	T				
				A5384	420.0	425.0	5.0	T				
				A5385	425.0	430.0	5.0	T				
				A5386	430.0	435.0	5.0	T				
236.2	291.5	BASIC LAVAS: Similar to 167.0 - 234.2. A sequence of fine-grained, dark green to black basic flows, poorly mineralized in disseminated pyrrhotite, and fracture smears of pyrite. Hardness 5.5.		A5387	435.0	440.0	5.0	T				
				A5388	440.0	445.0	5.0	.02				
				A5389	445.0	450.0	5.0	T				
				A5390	450.0	455.0	5.0	.005				
				A5391	455.0	460.0	5.0	T				
291.5	295.4	BASIC TUFF: This unit is well bedded, green, homogeneous and mineralized weakly with smears of pyrite and pyrrhotite along fractures parallel with the bedding. Bedding is consistant at 60° W.C.A. Hardness 5.0.		A5392	460.0	465.0	5.0	T				
				A5393	465.0	470.0	5.0	T				
				HOLE 38 - 30 - ULTIMATE DEPTH 550.0 FINAL 80.0' NOT SPLIT								

CONTD.

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
295.4	338.7	BASIC LAVAS: A sequence of fine grained, black, altered basic flows which have been biotized, silicified, recrystallized and mineralized in pyrite, pyrrhotite and cpy. The quartz veining and silicification increases significantly and with it the related sulfide mineralization. Biotite alteration is especially prominant near the quartz veining. A significant amount of sulfide mineralization is related to fracturing. 326.0 - 331.1: Intermediate flow. 333.0: Quartz vein, 3" true width containing visable gold. Hardness 6.0.		6050	470.0	475.0	5.0	N				
				6051	475.0	480.0	5.0	N				
				6052	480.0	485.0	5.0	N				
				6053	485.0	490.0	5.0	N				
				6054	490.0	495.0	5.0	N				
				6055	495.0	500.0	5.0	T				
				6056	500.0	505.0	5.0	T				
				6057	505.0	510.0	5.0	N				
				6058	510.0	515.0	5.0	N				
				6059	515.0	520.0	5.0	N				
338.7	340.3	FELSIC TUFF: A grey, homogeneous felsic unit containing odd milky white fragments which reach up to 1/8" in diameter, however most fragments are much smaller, vague, and resorbed. The top 1.0' of section is silicified and mineralized in pyrite, pyrrhotite and chalcopyrite. Bedding at 339.8 - 55° W.C.A. Bottom contact sharp at 50° W.C.A.		6060	520.0	525.0	5.0	N				
				6061	525.0	530.0	5.0	N				
				6062	530.0	535.0	5.0	N				
				6063	535.0	540.0	5.0	N				
				6064	540.0	545.0	5.0	T				
				6065	545.0	550.0	5.0	T				
340.3	341.5	BASIC TUFF: A green, fine-medium grained homogeneous unit which is vaguely lineated bedded suggesting a tuffaceous origin. Unit is soft and barren. Lineation and bottom contact sharp at 30° W.C.A. Hardness 3.5 - 4.0.										
341.5	345.2	FELSIC TUFF: Similar to 338.7 - 340.3. This unit is homogeneous, grey-light purplish in colour and well bedded. Near the bottom of this interval the tuff is very well banded and incorporates thin beds of green basic material. Bedding at 344.8 - 50° W.C.A.										
345.2	356.0	FAULT GORGE. Clay Only 4.5' recovered.										
356.0	359.0	BASIC TUFF: An irregularly bedded, soft, green basic rock fractured and deformed extensively. Sulfide mineralization consists of disseminations and veinlets of pyrrhotite. Bedding at 80° W.C.A. Hardness 2.5 - 3.0.										
359.0	379.0	BASIC LAVA: A homogeneous, medium coarse grained, basic flow. Grain size is fairly constant at 1/16" diameter crystals of altered pyroxene and feldspar, but on rare occasion these components reach to 1/4" in diameter. This unit is composed of the alteration minerals. Chlorite, serpentine, carbonate and minor fibrous amphibole. This greenish-black, massive, non-schistose unit has an average leucocratic content of 25%. Hardness 4.5 - 5.0.										
379.0	400.0	ULTRABASIC INTRUSIVE OR PICRITIC FLOW: The mineralogical make-up of this section is identical to previous section, the only difference is that this section is very coarse grained, massive, and varies in colour from black to grey to light green. Unit is again composed of chloritic, serpentine, and carbonate. Feldspar content was originally approximately 25%. Sulfide mineralization is nil. Rock is magnetic after magnetite. Hardness 4.5.										

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
400.0	412.0	TALCOSE SCHIST: This rock unit is characterized by the presence on core surface of large white blotchs - talc and clay - set in a black magnetic matrix. This unit is homogeneous and weakly schistose at 55° W.C.A. Hardness 3.0.						
412.0	465.0	BASIC TUFFS: A distinct unit of light green. Soft, thinly bedded basic tuffs. This unit has been chloritized extensively and the bedding is represented by bands of chloritic material varying in intensities of green. This entire unit is mineralized in pyrite and weak chalcopyrite in the form of veinlets conformable with the bedding. This unit is fairly competent but is 'ground-up' at 445.0' - 446.0'. Quartz veining and silicification is nil. Bedding at 427.0 - 70°. Hardness 3.0 - 3.5.						
465.0	530.0	BASIC LAPILLI TUFF: This is a distinct unit being uniform massive and non-schistose. This unit is medium to coarse grained, light green in colour and containing black - dark green fragments over the entire length. There are two distinct fragment sizes, a majority of the fragments are 3mm - 5mm in diameter while the larger fragments are 9mm - 11mm in diameter. The fragments are uniformly spread through the entire unit. This agglomerate is very well altered to chlorite, serpentine, talc and carbonate. There is a complete absence of silicification, quartz veining and sulfide mineralization. Hardness 3.0 - 3.5.						
530.0	538.0	TALCOSE SCHIST: Similar to 400.0 - 412.0. This unit is schistose over the top half but attains a more granular - massive character toward the bottom. Schistosity - 30° W.C.A. Hardness 3.0.						
538.0	550.0	CHLORITIC SCHIST: A mixture of chloritic and talcose material, schistose whose identity is difficult to determine. Schistosity 35° W.C.A. Hardness 3.0.						
	550.0	END OF HOLE.						

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

PROPERTY	DETOUR LAKES	LATITUDE	L206E	STARTED	March 18th, 1975
HOLE NO.	DLO - 38 - 22	DEPARTURE	210 + 00N	FINISHED	March 23rd, 1975
BEARING	GRID SOUTH (180°)	ELEVATION		LENGTH	907.0'
DIP-COLLAR	- 45°	SECTION		LOGGED BY	W. MELNYK

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	42°	800'	36°		
400'	41°	907'	36°		
600'	38°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	60.0	CASING	
60.0	66.8	BASIC LAVA: A porphyritic basic rock of basaltic - andesitic composition. Euhedral to anhedral phenocrysts of feldspar, 1/16" in length, are spread homogeneously through the unit. The matrix is composed of large flakes of biotite and the alteration minerals; chlorite, epidote, sericite(?). The grain-size decrease toward the bottom of this section. Rock is mineralized in minutely disseminated pyrrhotite. Hardness 6.0.	
66.8	84.0	BASIC LAVA: A fine-grained, homogeneous, biotite rich basic lava. Rock is weakly but thoroughly altered and exhibits good metamorphic lineation. Sulfide mineralization consists of minor blebs of pyrrhotite. Lineation at 72.0' - 50° W.C.A. at 76.0' - 50° W.C.A. Hardness 6.0.	
84.0	127.0	BASIC LAVA: A fine-medium grained, altered basic lava. This homogeneous unit is characterized by the presence, on core surface, of black altered grains of pyroxene and amphibole. Rock for the most part is massive and at best schistosity is very poorly developed. Rock has been well altered to green schist facies minerals. Sulfide mineralization is essentially nil except at 117.0' some granular pyrite is present. Schistosity at 100.0' - 50°W.C.A. at 108.0' - 50° W.C.A. Hardness 6.0.	
127.0	132.2	PORPHYRITIC BASIC LAVA: A coarse grained basic unit characterized by the presence of phenocrysts of feldspar, 1/8" in length, which have been enriched in potash so that they exhibit a distinct pink colour. This altered unit is fine-grained at either end, and coarse porphyritic in the middle portion. Both contacts are precisely 50° and sharp.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Cu.
A3321	60.0	65.0	5.0	T	
A3322	65.0	70.0	5.0	T	
A3323	70.0	75.0	5.0	T	
A3324	75.0	80.0	5.0	T	
A3325	80.0	85.0	5.0	T	
A3326	85.0	90.0	5.0	T	
A3327	90.0	95.0	5.0	T	
A3328	95.0	100.0	5.0	N	
A3329	100.0	105.0	5.0	T	
A3330	105.0	110.0	5.0	T	
A3331	110.0	115.0	5.0	T	
A3332	115.0	120.0	5.0	T	
A3333	120.0	125.0	5.0	T	
A3334	125.0	130.0	5.0	N	
A3335	130.0	135.0	5.0	T	
A3336	135.0	140.0	5.0	N	
A3337	140.0	145.0	5.0	N	
A3338	145.0	150.0	5.0	T	
A3339	150.0	155.0	5.0	T	
A3340	155.0	160.0	5.0	T	
A3341	160.0	165.0	5.0	Nil	
A3342	165.0	170.0	5.0	T	
A3343	170.0	175.0	5.0	T	
A3344	175.0	180.0	5.0	T	
A3345	180.0	185.0	5.0	T	
A3346	185.0	190.0	5.0	T	
A3347	190.0	195.0	5.0	T	
A3348	195.0	200.0	5.0	T	
A3349	200.0	205.0	5.0	T	
A3350	205.0	210.0	5.0	T	
A3351	210.0	215.0	5.0	T	
A3352	215.0	220.0	5.0	T	
A3353	220.0	225.0	5.0	T	
A3354	225.0	230.0	5.0	T	
A3355	230.0	235.0	5.0	N	
A3356	235.0	240.0	5.0	N	
A3357	240.0	245.0	5.0	N	
A3358	245.0	250.0	5.0	N	

REGISTERED PROFESSIONAL ENGINEER P.J. MINGO PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Cu.
132.3	141.2	BASIC LAVA: Similar to 84.0 - 127.0: Rock is fine grained at either end and medium to coarse in the middle portion. On core surface crystals of pyroxene and amphibole are clearly visible and characterize a distinguishing feature of this lava. Sulfide mineralization is nil. Bottom contact is at 50° W.C.A. Hardness 6.0.		A3359	250.0	255.0	5.0	N	
				A3360	255.0	260.0	5.0	T	
				A3361	260.0	265.0	5.0	T	
				A3362	265.0	270.0	5.0	T	
				A3363	270.0	275.0	5.0	T	
				A3364	275.0	280.0	5.0	N	
				A3365	280.0	285.0	5.0	N	
141.2	144.0	PORPHYRITIC BASIC LAVA: Similar to 127.0 - 132.3. The rock consists of pink feldspar phenocrysts set in a fine grained matrix composed of alteration minerals. The unit is lineated at the top and near the bottom. Lineation at 144.0 - 40° W.C.A. Hardness 6.0.		A3366	285.0	290.0	5.0	T	
				A3367	290.0	295.0	5.0	T	
				A3368	295.0	300.0	5.0	T	
				A3369	300.0	305.0	5.0	T	
				A3370	305.0	310.0	5.0	T	
				A3371	310.0	315.0	5.0	T	
				A3372	315.0	320.0	5.0	N	
144.0	183.0	PORPHYRITIC BASIC LAVA: Anhedral phenocrysts of feldspar are sparsely dispersed through a well altered rock. Weakly altered crystals of pyroxene are discernable in a chlorite rich rock. On core surface the rock is a chlorite green. Sulfide mineralization is nil. Section contains minor quartz veining. Hardness 5.0.		A3373	320.0	325.0	5.0	N	
				A3374	325.0	330.0	5.0	N	
				A3375	330.0	335.0	5.0	T	
				A3376	335.0	340.0	5.0	N	
				A3377	340.0	345.0	5.0	N	
				A3378	345.0	350.0	5.0	N	
				A3379	350.0	355.0	5.0	N	
183.0	212.0	BASIC LAVA: Similar to 84.0 - 127.0. This dark greenish-grey basic unit is distinctive due to the equigranular nature of the rock and the presence of black crystals of pyroxene and hornblende homogeneously spread through the rock giving it a black spotted appearance - set in a light greenish chloritic groundmass. Sulfide mineralization consists of disseminated pyrite related to silicified sections. Hardness 6.0.		A3380	355.0	360.0	5.0	N	
				A3381	360.0	365.0	5.0	T	
				A3382	365.0	370.0	5.0	N	
				A3383	370.0	375.0	5.0	N	
				A3384	375.0	380.0	5.0	N	
				A3385	380.0	385.0	5.0	T	
				A3386	385.0	390.0	5.0	T	
				A3387	390.0	395.0	5.0	T	
				A3388	395.0	400.0	5.0	T	
212.0	217.5	BASIC LAVA: Similar to previous section except that this section has been subjected to intense deformation, as a result the voids and fractures have been infilled with white material consisting of calcite and white mica. The volcanic rock is light green in color, having been altered more extensively than previous sections, and is composed extensively of chlorite and serpentine. This unit contains some siliceous fragments to $\frac{1}{2}$" in length (lensoid) and a few of these have been contorted to 'S' figures. This unit is sparsely mineralized in disseminated pyrrhotite and chalcopyrite. Hardness 2.5 - 3.0.		A3389	400.0	405.0	5.0	T	
				A3390	405.0	410.0	5.0	T	
				A3391	410.0	415.0	5.0	T	
				A3392	415.0	420.0	5.0	T	
				A3393	420.0	425.0	5.0	T	
				A3394	425.0	430.0	5.0	T	
				A3395	430.0	435.0	5.0	0.005	
				A3396	435.0	440.0	5.0	0.03	
				A3397	440.0	445.0	5.0	0.01	
				A3398	445.0	450.0	5.0	0.01	
				A3399	450.0	455.0	5.0	0.06	
				A3400	455.0	460.0	5.0	T	
217.5	232.0	BASIC LAVA: A basic, fine medium grained altered lava consisting of the green alteration minerals. On core surface the rock is dark green to black and is massive. Sulfide mineralization consists of disseminated pyrite. Hardness 6.0.		A3401	460.0	465.0	5.0	N	
				A3402	465.0	470.0	5.0	N	
				A3403	470.0	475.0	5.0	N	
				A3404	475.0	480.0	5.0	N	
				A3405	480.0	485.0	5.0	N	
				A3406	485.0	490.0	5.0	N	
				A3407	490.0	495.0	5.0	N	
				A3408	495.0	500.0	5.0	N	
				A3409	500.0	505.0	5.0	T	

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Cu.
232.0	234.2	INTERMEDIATE LAVA: F fine grained intermediate rock, kbrown on core surface and broken surface. The unit is homogeneous, massive and contains brown biotite in the matrix accounting for the colour. Rock is siliceous and altered moderately. The rock has been weakly stressed forming lensoid, drawn-out 'veinlets' of alteration minerals and pyrrhotite. Hardness 6.0.		A3410	505.0	510.0	5.0	T	
				A3411	510.0	515.0	5.0	T	
				A3412	515.0	520.0	5.0	T	
				A3413	520.0	525.0	5.0	N	
				A3414	525.0	530.0	5.0	N	
				A3415	530.0	535.0	5.0	N	
				A3416	535.0	540.0	5.0	N	
				A3417	540.0	545.0	5.0	N	
234.2	304.0	BASIC LAVA: A basic rock of andesitic - basaltic composition, thoroughly recrystallized consisting of large black flakes of biotite, fibrous amphibole chlorite and minor serpentine. Unit is massive, poorly fractured and contains only odd quartz veining. Sulfide mineralization consists of both very weakly disseminated pyrrhotite and odd veinlets of pyrite and pyrrhotite. Hardness 6.0.		A3418	545.0	550.0	5.0	T	
				A3419	550.0	555.0	5.0	0.05	
				A3420	555.0	560.0	5.0	0.01	
				A3421	560.0	565.0	5.0	T	
				A3422	565.0	570.0	5.0	T	
				A3423	570.0	575.0	5.0	T	
				A3424	575.0	580.0	5.0	N	
				A3425	580.0	585.0	5.0	T	
304.0	310.0	BASIC LAVA: Similar to previous unit. Rock is well altered and consists of the common green alteration minerals. This unit also contains two felsic inclusions which are porphyritic and brownish in colour. Feldspar crystals are 1/16" in size and subhedrals. Felsic units contain 4% disseminated pyrrhotite. Felsic inclusions at 305.7' - 2½" contacts variable 306.5' - 5½" contacts 80° W.C.A. sharp.		A3426	585.0	590.0	5.0	N	
				A3427	590.0	595.0	5.0	N	
				A3428	595.0	600.0	5.0	N	
				A3429	600.0	605.0	5.0	N	
				A3430	605.0	610.0	5.0	N	
				A3431	610.0	615.0	5.0	N	
				A3432	615.0	620.0	5.0	N	
				A3433	620.0	625.0	5.0	N	.007
310.0	314.5	FELSIC TUFF: A dark greyish brown, fine grained felsic unit weakly mineralized in disseminated pyrrhotite. The unit contains minute brown flakes of biotite resulting in the brown colour. Feldspar phenocrysts are represented by sericitic ghosts. Top contact - 50° W.C.A. Bottom contact - 70° W.C.A.		A3434	625.0	630.0	5.0	N	.004
				A3435	630.0	635.0	5.0	N	.003
				A3436	635.0	640.0	5.0	N	.003
				A3437	640.0	645.0	5.0	N	.007
				A3438	645.0	650.0	5.0	N	.013
				A3439	650.0	655.0	5.0	0.06	.06
				A3440	655.0	660.0	5.0	T	.06
314.5	320.5	BASIC LAVA: A fine grained, green, homogeneous basic rock containing sparsely distributed crystals of feldspar. The rock is weakly altered and consists of the typical basic minerals.		A3441	660.0	665.0	5.0	T	.02
				A3442	665.0	670.0	5.0	T	.06
				A3443	670.0	675.0	5.0	0.02	.05
				A3444	675.0	680.0	5.0	T	.08
320.5	414.0	BASIC LAVA: A monotenous, homogeneous assemblage of basic lavas. The lavas are massive, weakly altered, non schistose and of andesitic to basaltic composition. Unit is generally medium grained and green depending on the amount of feldspar material. Compositionally, the rock is composed of actinolite - tremolite, chlorite and black biotite. Sulfide mineralization consists of weakly disseminated pyrrhotite and pyrite. Silicification and quartz veining in minimal. There is some minor k-spar alteration related to quartz veining in a short section from 367.0 - 370.0.		A3445	680.0	685.0	5.0	T	.05
				A3446	685.0	690.0	5.0	.01	.06
				A3447	690.0	695.0	5.0	0.02	.11
				A3448	695.0	698.0	3.0	T	.12
				A3449	698.0	701.0	3.0	0.33	.08
				A3450	701.0	704.0	3.0	0.17	.32
				A3451	704.0	706.0	2.0	0.12	.11
				A3452	706.0	707.8	1.8	0.02	.21
				A3453	707.8	710.0	2.2	0.02	.08
				A3454	710.0	715.0	5.0	0.02	.08
				A3455	715.0	717.0	2.0	tr	.02
				A3456	717.0	719.2	2.2	0.15	.13
				A3457	719.2	720.2	1.0	0.28	.19
				A3458	720.2	724.1	3.9	0.04	.14

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Cu.
414.0	481.3	BASIC LAVAS: Compositionally same as last section except that the rock varies in grain size. The coarse material is similar to above sections but the fine grained rock is a lighter greenish colour and thoroughly unadulterated (Coarse grained sections invariably contain some leucocratic material). Sulfide mineralization increases in this section to blebs and disseminations of pyrrhotite and pyrite. Lineation of constituents at 460 - 470' : 90° W.C.A. Silicification and quartz veining is still insignificant. Hardness 6.0.		A3459	724.1	727.0	2.9	0.01	.15
				A3460	727.0	731.0	4.0	0.005	.04
				A3461	731.0	736.0	5.0	T	.08
				A3462	736.0	741.0	5.0	T	.03
				A3463	741.0	744.2	3.2	T	.05
				A3464	744.2	746.0	1.8	T	.04
				A3465	746.0	751.0	5.0	.01	.10
				A3466	751.0	754.0	3.0	.01	.12
				A3467	754.0	755.3	1.3	.01	.13
				A3468	755.3	758.9	3.6	T	.07
				A3469	758.9	759.9	1.0	0.01	.08
481.3	486.7	INTERMEDIATE LAVA OR TUFF: Rock of intermediate composition, biotite rich, massive and weakly mineralized in disseminated pyrrhotite. The core surface is speckled with white fragments or feldspar crystals over the entire length ranging in size to 1/16". Bottom contact is sharp at 50°.		A3470	759.9	762.0	2.1	T	.12
				A3471	762.0	767.0	5.0	.005	.10
				A3472	767.0	772.0	5.0	0.01	.09
				A3473	772.0	777.0	5.0	.005	.10
				A3474	777.0	782.0	5.0	T	.08
				A3475	782.0	787.0	5.0	T	.05
486.7	492.0	BASIC LAVA: A light green recrystallized basic lava, schistose in part. Rock is composed entirely of alteration minerals - actinolite - tremolite, chlorite + calcite. Sulfide mineralization is nil. Schistosity at 489.0' - 50° W.C.A. Hardness 5.5.		A3476	787.0	790.0	3.0	0.01	.07
				A3477	790.0	795.0	5.0	.01	
				A3478	795.0	800.0	5.0	.005	
				A3479	800.0	805.0	5.0	.005	
				A3480	805.0	810.0	5.0	.01	
				A3481	810.0	815.0	5.0	T	
492.0	495.0	INTERMEDIATE LAVA OR TUFF: Similar to 481.3' - 486.7', with the exception that this unit does not contain the white crystals. The rock is massive, contains brown biotite and mineralized in disseminated pyrrhotite.		A3482	815.0	820.0	5.0	T	
				A3483	820.0	825.0	5.0	T	
				A3484	825.0	830.0	5.0	T	
				A3485	830.0	835.0	5.0	N	
				A3486	835.0	840.0	5.0	T	
495.0	509.0	BASIC TUFF: A green irregularly bedded, lineated rock. The rock is hard, basic, fine-grained and exhibits a great deal of disrupted bedding-slump. Silicification and quartz veining is not significant. Sulfide mineralization consists of veinlets of chalcopyrite and pyrite; pyrrhotite occurring mainly as disseminations. Bedding is often exhibited by bands of material varying in mineralogy. Bedding at 496.0 - 50° W.C.A. 508.0 - 50° W.C.A. Hardness 6.0.		A3487	840.0	845.0	5.0	T	
				A3488	845.0	850.0	5.0	T	
				A3489	850.0	855.0	5.0	T	
				A3490	855.0	860.0	5.0	T	
				A3491	860.0	865.0	5.0	T	
				A3492	865.0	870.0	5.0	T	
				A3493	870.0	875.0	5.0	T	
				A3494	875.0	880.0	5.0	T	
				A3495	880.0	885.0	5.0	N	
				A3496	885.0	890.0	5.0	N	
509.0	614.9	BASIC LAVAS. A reasonably homogeneous rock compositionally, but varying somewhat texturally. The rock is fine-medium grained and equigranular. Unit is predominantly dark green to black on core surface. Sulfide mineralization is sparse and consists of spotty blebs of pyrite and pyrrhotite with only trace of chalcopyrite. 509.0 - 567.0: Lavas are predominantly lineated but fine grained. Lineation at 540.0' - 45° W.C.A. at 556.0' - 50° W.C.A.		A3497	890.0	895.0	5.0	N	
				A3498	895.0	900.0	5.0	N	
				A3499	900.0	905.0	5.0	T	
				A3500	905.0	907.0	2.0	T	

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
		567.0 - 614.9: Minutely porphyritic lava. Crystallites of feldspar <1/32" are randomly distributed through a homogeneous lava. Minor lineation of phenocrysts is present but not as prevalent as previous section. One interesting feature of this section is the plygmatic veining which is present. Most effected veinlets are approximately 1/8" wide and composed of a buff silicic material. Sulfide mineralization consists of scattered blebs of pyrrhotite, pyrite and chalcopyrite. Chalcopyrite is usually related with other sulfides. There is an increase in the biotite content toward the bottom of the section. Hardness 6.0.						
614.9	618.5	BASIC TUFF: Biotized basic tuff, compositionally similar to previous lavas except that some irregular bedding is present. Sulfide mineralization is nil. Bedding at 616.0 is 45° W.C.A.. Hardness 6.0.						
618.5	646.5	BASIC LAVA: A basic unit, greenish-brown in colour and very weakly porphyritic. The unit is weakly biotized resulting in the brown colour. Sulfide mineralization consists of weakly disseminated pyrrhotite. Bottom contact at 70° - sharp. Hardness 6.0.						
646.5	648.0	INTERMEDIATE LAVA: Typical intermediate material, quartz rich, containing flakes of brown biotite and very weakly mineralized in disseminated pyrrhotite. The rock is massive, fine medium grained and contains quartz eyes. Top and bottom contacts both at 70°.						
648.0	653.7	BASIC LAVA: A well biotized basic lava, mineralized in pyrite mainly as fracture fillings and pyrrhotite which is predominantly disseminated blebs or thin drawn out whisps. The unit is fine grained and biotite alteration is prominent near fracturing and silicification. Significant amount of epidote is present along fractures as well. Hardness 6.0.						
653.7	655.4	INTERMEDIATE LAVA: Similar to 646.5 - 648.0. Rock is of intermediate composition and is mineralized in chalcopyrite, pyrrhotite and pyrite mainly as fracture fillings.						
655.4	658.0	BASIC LAVA: This basic unit has undergone silica enrichments as evidenced by the presence of white and brownish cherty material forming thin irregular bands through core. Sulfides consist of veinlets and disseminations of pyrite and pyrrhotite. Hardness 6.0.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
658.0	689.3	BASIC LAVA: A homogeneous, fine grained, recrystallized basic rock. Sulfide mineralization is related to fracturing and minor quartz veining, consists of pyrrhotite, pyrite and traces of chalcopyrite. Unit is massive. Hardness 6.0.						
689.3	707.8	BASIC LAVA: A homogeneous basic rock containing a few added features that are variant from the previous section. The entire unit contains white cherty blebs and veinlets. These white cherty blebs, comprizing to 60% of the rock, contain swirls of black mafic material. Sulfide mineralization in this unit consists of fracture and void fillings of po and traces of chalcopyrite. Very little associated pyrite. Silicification increase significantly in this section as does the sulfide content. 705.5 - 707.8: Very good silicification with associated pyrrhotite and chalcopyrite. Hardness 6.0.						
707.8	715.6	BASIC LAVAS: 707.8 - 709.3: Porphyritic basic lava. A black fine grained basic rock containing phenocrysts of feldspar approximately 1/16" in length. Most phenocrysts are milky white, euhedral and contrast sharply with the fine grained black lava matrix. 709.3 - 709.8: Quartz veining and silicification containing significant pyrrhotite and chalcopyrite along fractures. 709.8 - 715.6: Fine grained basic lava. Dark green to black on core surface, is very poorly mineralized, weakly fractured and contains no quartz veining. Hardness 6.0.						
715.6	719.2	BASIC LAVA: Soft, lineated basic rock composed of chlorite, actinolite-tremolite and calcite. This unit is barren in the top portion but contains good silicification in the bottom 2.0'. Mineralization consists of pyrrhotite and chalcopyrite, generally being concentrated at the edges of quartz 'blobs' and related to silicification. Lineation - 30° W.C.A. Hardness 3.0.						
719.2	720.2	QUARTZ VEIN: Milky white quartz is very well mineralized in pyrrhotite, minor pyrite and chalcopyrite. Sulfides occur as fracture fillings.						
720.2	728.5	BASIC TUFF: A soft, green, basic rock banded by material of a lighter green colour and indicating a greater degree of alteration. Banding is irregular but generally perpendicular with the core axis. Sulfide mineralization is erratic and consists of fracture fillings of pyrrhotite and chalcopyrite. Bottom contact is at 60° W.C.A. Hardness 3.0.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
728.5	736.6	BASIC LAVA: A strange unit in that it is recrystallized to a hard fine fine grained unit for the first two feel but soft and schistose for the remainder of the section. The top portion also contains fragments of siliceous material ranging in size from $\frac{1}{2}$" to $2\frac{1}{2}$". The larger fragments are porphyritic containing milky white crystals. Section is very poorly mineralized in pyrrhotite and chalcopyrite. Hardness 6.0 and 3.0.						
736.6	744.1	BASIC LAVA: A soft, green, lineated lava. In part this unit is porphyritic kparticularly near the top and bottom of the section. The phenocrysts are pseudomorphs of pyroxene reaching to $\frac{1}{4}$" in diameter. Section is very weakly mineralized. Lineation 40°.						
744.1	746.1	FELSIC LAPILLI TUFF: A grey felsic, in part porphyritic rock, containing fragments to 1" in size. Sulfide mineralization is very weak consisting of disseminated pyrrhotite. Top contact - 40° W.C.A. Bottom contact - 60° W.C.A.						
746.1	755.5	BASIC LAVA: Again a basic lava where recrystallization has imposed a differential hardness to the unit. Rock is greyish green on core surface and medium grained for the most part. The final 1.5' of this section contains a great deal of silicification and mineralization including pyrrhotite, pyrite and traces of chalcopyrite. Hardness variable.						
755.5	756.8	FELSIC TUFF: This unit is a siliceous grey in colour and is saturated with fragments of 1/16" in size. The fragments are a light brown colour and generally rounded. This unit is massive and sulfide mineralization consists of disseminated po.						
756.8	761.5	INTERMEDIATE LAVA: The rock siliceous, grey in colour, probably of dacitic composition. Unit is massive and mineralized in minor disseminated pyrrhotite and pyrite. 759.2 - 759.9: Felsic Tuff: Similar to 755.5 - 756.8. Contacts are irregular.						
761.5	792.0	BASIC TUFF: A thoroughly inhomogeneous rock of basic composition. The rock is generally a green colour and varies in biotite content, usually increasing near silicification and mineralization. Bedding is irregular giving the unit its tuffaceous character. Sulfide mineralization increases in this section, preimarily related to fracturing and silicification zones. Sulfides consists of pyrite, pyrrhotite and chalcopyrite. Hardness variable.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
792.0	796.2	BASIC LAVA: Porphyritic basic Lava. A hard, black, porphyritic basic unit with phenocrysts of feldspar developing to 1/8" in length. Most of the phenocrysts are anhedral and many have been enriched in potash exhibiting the resultant pink colour. Some of the mafic minerals have been altered to chlorite and on core surface they appear as green chloritic blotches. Hardness 6.0.						
796.2	826.0	BASIC TUFF: A homogeneous, dark-green, fine grained basic tuff with banding well developed and commonly at a high angle with the core axis. Unit contains a few short zones of biotite enrichment. Sulfide mineralization consists of pyrrhotite as fracture fillings, very minor. Bedding at 798.0' - 70° W.C.A. at 825.0' - 70° W.C.A. Hardness 3.5 - 4.0.						
826.0	850.0	ULTRABASIC INTRUSIVE: This unit grades from a fine to coarse grained rock and varies in colour from grey to greenish-white. The mafic minerals have been altered to a light green assemblage including chlorite and serpentine. The feldspars are in the process of alteration to sericite and clays and form the bulk of the rock. Sulfide mineralization is nil. The rock is magnetic after magnetite. Hardness 2.5.						
850.0	856.5	BASIC ULTRABASIC INTRUSIVE: Porphyritic, biotite rich unit, weakly but thoroughly altered. The unit schistose and lineated at either end and coarse, porphyritic through the middle portion. The phenocrysts of feldspar are greenish in colour but have a thin white border. Schistosity at top - 55° W.C.A. Schistosity at bottom - 55° W.C.A. Hardness 3.0.						
856.0	875.5	BASIC - ULTRABASIC INTRUSIVE: Not a very distinctive rock type, in that this unit is soft, grey, in part schistose and magnetic after magnetite. Schistosity is tight and the section is fairly well homogeneous. The unit contains a significant amount of red Fe-oxide in a section from 864.0-872.0. Minor amount of light brown limonite present as well. The rock is broken parallel with schistosity in this area. Sulfide mineralization consists of pyrite mainly with minor amounts of pyrrhotite present. Schistosity 867.0 - 50° W.C.A. Hardness 3.0.						
875.5	907.0	BASIC - ULTRABASIC INTRUSIVE: A distinct and common rock unit. The section from 875.5 to 892.0 is talcose, black and white, blotchy and strongly magnetic after magnetite. The remainder of the unit is not as talcose but probably of the same regime. Sulfide mineralization is nil. Schistosity 889.0 - 50° W.C.A.						
	907.0	END OF HOLE						

Tropari 685' DIP 34° AZ (188° uncorrected)
201° corrected for declination

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

PROPERTY	DETOUR LAKE	LATITUDE	210+ 00N	STARTED	April 19th, 1975
HOLE NO.	38 - 34	DEPARTURE	216+ 00E	FINISHED	April 23rd, 1975
BEARING	180	ELEVATION		LENGTH	687'
DIP-COLLAR	- 45	SECTION		LOGGED BY	M. KONINGS

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	41°	685	34°		
400'	36°				
600'	37°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	31	CASING	
31	36	LOST CORE	
36	81.8	BASIC LAVA: Medium (2-3mm) to fine grained, lineated feldspar, grey-green colour: Feldspar, chlorite, actinolite - tremolite talc mineralogy, very schistose of 50° to core axis. Numerous 1/64 to 1/16 quartz and feldspar stringers at 45° to core axes throughout unit.	
		55 - 57: Blocky core - shear zone? at 25° to core axis.	
81.8	89.1	INTERMEDIATE TUFF: Finely laminated at 60° to core axis. Medium grey, biotite gives brownish tint on broken surface. 10% quartzose flattened tuffaceous fragments. Consistently fine grained. Felsic ash increases with depth. Contact with above conformable at 55°.	1% Dissem. Po + Py
89.1	261	BASIC LAVA: Generally medium grained as 36' - 81.8', but with less schistosity. Amphiboles have a more rounded appearance. Any foliation related to quartz veining. No biotite around quartz veining. No mineralization except related to quartz veins, which increase in abundance with depth. Some chloritization of mafics.	
		157 - 175.4: Fine grained, well foliated at 60° to core axis. Increase in biotite with depth. From 171.4 to 175.4 intermediate flow - grey green, somewhat lighter than above. Conformable contact at 60° to following unit.	
		177 - 205.5: Medium grained as in 89 - 157', increasing incidence of Po pods; harder than above (5- 5.5) more siliceous, massive unit, rarely fractured, foliation at 50° to core axis. Unit becomes coarser with depth (200'). Unit cut by numerous fine feldspar and quartz veins. Chlorite alteration around quartz veining increases with depth. Volcanic lavas alternately trend from fine to medium grained - the medium grained variety of flows often has lineated feldspars..	Tr Po
		205.5 - 218.5: Medium grain 1-1.5mm flows cut by numerous barren quartz veins; unit is heavily silicified and hard.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
A5396	36	40	4.0					
A5397	40	45	5.0					
A5398	45	50	5.0					
A5399	50	55	5.0					
A5400	55	60	5.0	T				
A5401	60	65	5.0	T				
A5402	65	70	5.0	T				
A5403	70	75	5.0	T				
A5404	75	80	5.0	T				
A5405	80	85	5.0	T				
A5406	85	95	10.0	T				
A5407	95	100	5.0	T				
A5408	100	105	5.0	T				
A5409	105	110	5.0	T				
A5410	110	115	5.0	T				
A5411	115	120	5.0	T				
A5412	120	125	5.0	T				
A5413	125	130	5.0	N				
A5414	130	135	5.0	N				
A5415	135	140	5.0	N				
A5416	140	145	5.0	N				
A5417	145	150	5.0	T				
A5418	150	155	5.0	T				
A5419	155	160	5.0	T				
A5420	160	165	5.0	T				
A5421	165	170	5.0	T				
A5422	170	175	5.0	T				
A5423	175	180	5.0	T				
A5424	180	185	5.0	T				
A5425	185	190	5.0	N				
A5426	190	195	5.0	N				
A5427	195	200	5.0	N				
A5428	200	205	5.0	N				
A5429	205	210	5.0	T				
A5430	210	215	5.0	T				
A5431	215	220	5.0	N				
A5432	220	225	5.0	T				
A5433	225	230	5.0	T				

REGISTERED PROFESSIONAL ENGINEER
P. J. WILCOX
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.	ASSAYS Pb.
89.1	261	CONTD.		A5434	230	235	5.0	T				
		241 - 248: Very blocky core; 242 - 244 ground core. This unit is cut by numerous quartz veins and silicification veins.		A5435	235	240	5.0	T				
				A5436	240	245	5.0	T				
				A5437	245	250	5.0	T				
				A5438	250	255	5.0	.01				
261	277	BASIC LAVAS - Fine grained flows, less than 1mm, grain size, dark green, well fractured, some sections very blocky core. Foliation consistent at 50-55° to core axis. More chloritic with depth. Po in blebs and along fractures. Quartz veining becomes wider and more mineralized below 263.	1% Po	A5439	255	260	5.0	.03				
				A5440	260	265	5.0	.01				
				A5441	265	270	5.0	.03				
				A5442	270	275	5.0	.28	.22			
				A5443	275	277	2.0	.08	7'	.13		
				A5444	277	280	3.0	.04		.11		
277	293.2	BASIC LAVA? - Felty textured highly chloritic rock. Well foliated, tuffaceous appearance at top; becomes very coarse with depth. Pyroxene and amphibole crystals increase in quantity and size (up to 1cm) with depth. Foliation at 50° to core axis. Quartz veining increases with depth, as does mineralization.	2% Po, Tr Cpy	A5445	280	283	3.0	.04		.13		
				A5446	283	285	2.0	.03		.13		
				A5447	285	290	5.0	.01		.19		
				A5448	290	293	3.0	.02		.12		
				A5449	293	296	3.0	.08		.12		
		284 - 285.2: 8" total quartz veining at 50° to core axis with Po, Cpy.		A5450	296	300	4.0	.02		.26		
				A5451	300	305	5.0	T				
		285.2 - 288: Felty textured rock - very chloritic, crystal masses of chlorite up to 1cm size. Sharp contact with following unit of fine grained soft chlorite - talc unit.		A5452	305	310	5.0	T				
				A5453	310	315	5.0	T				
				5716	315	320	5.0	T				
				5717	320	325	5.0	T				
293.2	296.0	CONDUCTOR: Zone of possible cherty band with quartz veins. Quartz veins, may be recrystallized chert.		5718	325	330	5.0	T				
				5719	330	335	5.0	T				
		293.5 - 294: Stringer-type interconnected sulphides surround angular fragments (lapilli and agglomerate?) of host rock (silicified felty textured high chlorite rock)	50% Po + Py, 5%Cpy	5720	335	340	5.0	T				
				5721	340	345	5.0	NIL				
				5722	345	350	5.0	NIL				
				5723	350	355	5.0	NIL				
		294 - 294.4	10% Po+Py, 5% Cpy	5724	355	360	5.0	T				
		294.4 - 294.9: Quartz vein	2% Po, 1% Py, Tr Cpy	5725	360	365	5.0	T				
		294.9 - 295.6:	40% Po, 5% Py, Tr Cpy	5726	365	371	6.0	T				
		295.6 - 296: Quartz vein	5% Po + Py	5727	371	376	5.0	T				
				5728	376	380	4.0	T				
296.0	314.9	BASIC VOLCANIC - Felty textured, completely chloritized, massive unfoliated. Some sections of high biotite. No quartz veins. Grain size variation from .1 -1 cm. Soft and talcose.	no mineralization	5729	380	385	5.0	T				
				5730	385	390	5.0	T				
				5731	390	395	5.0	T				
				5732	395	400	5.0	T				
314.9	340.8	BASIC TUFF: Soft talcose unit. 60% mafic (matrix) and 40% felsic fragments (ash) up to 2mm. Felsic ash completely altered to talc and clay minerals. Unit becomes coarser grained to 333', then becomes finer grained to end of unit. Matrix consists of chlorite - tremolite - actinolite. Foliated at 50° - 55° to core axis.	no mineralization	5733	400	405	5.0	T				
				5734	405	410	5.0	T				
				5735	410	415	5.0	0.005				
				5736	415	420	5.0	T				
				5737	420	425	5.0	T				
				5738	425	430	5.0	.02				
340.8	375.6	INTERMEDIATE LAPILLI TUFF - 1 - 1.5cm rounded white felsic fragments, 50% of unit. Coarse to fine grained gradation downhole - very smooth transition. No foliation. Leopord skin texture. Matrix probably a mafic ash recrystalized to an amphibolite (actinolite - tremolite + chlorite) mixture. Fragments are completely altered to talc, clay minerals. Below 373, almost no felsic fragments, mostly a 2-3mm tightly packed basic tuff.		5739	430	435	5.0	T				
				5740	435	440	5.0	T				
				5741	440	445	5.0	T				
				5742	445	450	5.0	N				
				5743	450	455	5.0	N				
				5744	455	460	5.0	T				
				5745	460	465	5.0	T				
				5746	465	470	5.0	T				
				5747	470	475	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
375.6	391	BASIC TUFF: Medium grain - 1-2mm; granular; unfoliated becomes coarser with depth; less talcose and chloritic than above.	
391	469	BASIC TUFF - Fine grained, finely laminated at 40° to core axis (becoming steeper with depth to 50° at 420°). Many blocky sections in core where chlorite - sericite alteration are extreme. 423 - 469: Many 6" - 12" sections of 10 - 30% biotite in chloritic tuff.	
469	504.3	INTERMEDIATE (BASIC?) LAPILLI TUFF - Medium grained, 1-5mm size range of felsic fragments. Grey green, leopard skin texture, soft, talcose, rarely foliated at 50°, coarser at top, becomes finer with depth with dimminishing felsic fragments. Cycle repeats itself.	
504.3	585.2	BASIC TUFF - Fine to medium grained mafic ash; some very soft talcose sections. Many sections of blocky and ground core where rock is sheared? High chlorite and sericite in sheared? sections. No mineralization, no quartz veins. 504.3 - 512: Fine grained biotite rich tuff, no distinct foliation. 512 - 515: Coarse grained amphibolite - felty texture, 1cm grain size; pyroxene, amphibole, chlorite mineralogy. 515 - 527: Fine to medium grained foliated tuff (at 30° to core axis. Fragments finer and less abundant with depth. Fragment size 1-2mm 50% white talcose. 527 - 549.4: Lapilli Tuff: intermediate composition, talcose, 50% angular fragments up to 1cm, decreasing size gradation with depth, matrix of amphibolite and chlorite - possibly a mafic ash. Some interbanded very chloritic sections. Flattened fragments give foliation direction of 40°. 549.4 - 585.2: Basic tuffs - fine to medium grained, becomes more chloritic with depth. Foliated at 40° to core axis. Mineralization (po) begins at 552, increases with depth. Po occurs as isolated pods and thin stringers in microfolds and in fracture planes through chlorite.	2% Po Tr Cpy
585.2	592.0	CHERT: Cherty bands separated by basic tuffs grey, siliceous, hard. Yellowish bands cut chert at 40° to core axis. Yellow bands cross out at approximately 90° by chlorite banding which continues up and down core as the prominent foliation. 582.2 - 585.9: Cherty basic volcanic 585.9 - 587.2: Cherty band, with yellow streaks 587.2 - 590.6: Mineralized Basic tuff, highly chloritic 590.6 - 592.0: Cherty band, with yellow streaks.	4% Po 1% Cpy

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
5748	475	480	5.0	T				
5749	480	485	5.0	N				
5750	485	490	5.0	N				
5751	490	495	5.0	N				
5752	495	500	5.0	N				
5753	500	505	5.0	T				
5754	505	510	5.0	N				
5755	510	515	5.0	N				
5756	515	520	5.0	N				
5757	520	525	5.0	N				
5758	525	530	5.0	N				
5759	530	535	5.0	N				
5760	535	540	5.0	N				
5761	540	545	5.0	N				
A5454	545	550	5.0	T				
A5455	550	555	5.0	T				
A5456	555	560	5.0	T				
A5457	560	565	5.0	.01				
A5458	565	570	5.0	T				
A5459	570	575	5.0	T				
A5460	575	580	5.0	T		.02		
A5461	580	585	5.0	.005		.06	.005	
A5462	585	587	2.0	.005		.07	.003	
A5463	587	590	3.0	T		.04	.007	
A5464	590	595	5.0	.01		.09	.006	
A5465	595	600	5.0	.01		.16		
A5466	600	605	5.0	T		.03		
A5467	605	610	5.0	.02		.16		
A5468	610	615	5.0	.02		.15		
A5469	615	620	5.0	T		.03		
A5470	620	625	5.0	T		.02		
NOTE:	RECOMMEND NO SAMPLES BE TAKEN 315' - 545'. = M.K.							
6037	625.0	630.0	5.0	T				
6038	630.0	635.0	5.0	T				
6039	635.0	640.0	5.0	T				
6040	640.0	645.0	5.0	T				
6041	645.0	650.0	5.0	T				
6042	650.0	655.^	5.0	T				
6043	655.0	660.0	5.0	N				
6044	660.0	665.0	5.0	N				
6045	665.0	670.0	5.0	N				
6046	670.0	675.0	5.0	N				
6047	675.0	680.0	5.0	N				
6048	680.0	682.0	2.0	N				
6049	682.0	687.0	5.0	N				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
592.0	616.1	BASIC VOLCANIC - Origin uncertain; schistose; some highly chloritic and coarser grained sections with depth. Well mineralized throughout. Foliation at 30° to core axis. 609.5 - 611.6: Large chert fragments, flattened, 1-3" long with rounded edges (agglomerate - relict bombs?)	5% Po + Tr Cpy					
616.1	662.9	RHYOLITIC TUFF - Grey to dark grey; well foliated with cherty bands, minor impurities (py, chlorite). Some minor (6") sections of basic tuffs. Approximately 25% white tuff 1-2mm fragments set in a translucent matrix of chert. Foliated at 45° to core axis. Barren quartz veins become common.	1% Py disseminated					
662.9	687	GREYWACKE - Grey green, hard (5-5.5), silicified, very massive, unfoliated, some indistinct banding by compositional variations. Biotite and chlorite less than 15%. Pyrite cubes are disseminated throughout and along some bedding? planes at 50° to core axis. 10% cherty fragments (1 - 1.5mm) found throughout unit.	Tr Py					
	687	END OF HOLE						

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

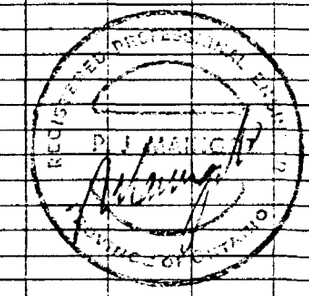
No Tropari test. Rock magnetic

PROPERTY	DETOUR LAKE	LATITUDE	L220 + 00E	STARTED	May 12th, 1975
HOLE NO.	38 - 43	DEPARTURE	208 + 50N	FINISHED	May 25th, 1975
BEARING	180°	ELEVATION		LENGTH	345'
DIP-COLLAR	45°	SECTION		LOGGED BY	P. BROWN

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	44°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	150	OVERBURDEN	
150	288	SERPENTINIZED ROCK TALC CARBONATE Fine grained to medium grained. Dark gray. Talc Carbonate most likely originally Mafic flows and tuffs. Some parts of this section are more lightly altered than others and in several places considerable footage is lost due to the rock crumbling to a powder. The whole section is weakly magnetic. There are no quartz veins and only a few specks of disseminated py. The section between 244' and 255' is quite chloritic.	
288	317	CHLORITE ALTERATION ZONE. Rock is still weakly to moderately magnetic. Fine grained. Dark green to Black chloritic rock. 307 - 312 appears to be a highly chloritic intermediate flow and is grayish black in colour as well as being fine grained. Minor Py occurs along shearing planes and at 210 feet there is a 1/8" vein of py with a few specks that look like cp. Biotite alteration is also present in varying amounts throughout this section. Foliation is not very well defined but in a few places it appears to be at 60° with the C.A. Quartz veining is just about absent. The only moderately large quartz vein is at 293 and is 2½" thick.	
317	328	SERPENTINIZED ROCK . TALC CARBONATE Bottom two feet is chloritic rock, i.e. 326' - 328' The serpentinized rock is dark gray green in colour and in many places is quite crumbely. Minor Py and a Tr of Cp occur at 323.5'. A barren quartz vein occurs at 321.6 - 321.9. Foliation is about 50° with C.A.	
328	329	CHERTY TUFF? Fine grained and gray in colour. Minute fragments are alligned at 50° to C.A. Minor disseminated Py. Upper contact with chloritic unit is about 40° - 45° with C.A. Bottom contact appears to be some what (gradational)?.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
7001	150.0	155.0	5.0	T				
7002	155.0	160.0	5.0	T				
7003	160.0	165.0	5.0	T				
7004	165.0	170.0	5.0	T				
7005	170.0	175.0	5.0	T				
7006	175.0	180.0	5.0	T				
7007	180.0	185.0	5.0	.005				
7008	185.0	190.0	5.0	T				
7009	190.0	195.0	5.0	T				
7010	195.0	200.0	5.0	T				
7011	200.0	205.0	5.0	N				
7012	205.0	210.0	5.0	N				
7013	210.0	215.0	5.0	N				
7014	215.0	220.0	5.0	N				
7015	220.0	225.0	5.0	N				
7016	225.0	230.0	5.0	N				
7017	230.0	235.0	5.0	N				
7018	235.0	240.0	5.0	N				
7019	240.0	245.0	5.0	N				
7020	245.0	250.0	5.0	T				
7021	250.0	255.0	5.0	T				
7022	255.0	260.0	5.0	N				
7023	260.0	265.0	5.0	N				
7024	265.0	270.0	5.0	N				
7025	270.0	275.0	5.0	T				
7026	275.0	280.0	5.0	T				
7027	280.0	285.0	5.0	T				
7028	285.0	290.0	5.0	T				
7029	290.0	295.0	5.0	T				
7030	295.0	300.0	5.0	T				
7031	300.0	305.0	5.0	T				
7032	305.0	310.0	5.0	T				
7033	310.0	315.0	5.0	T				
7034	315.0	320.0	5.0	T				
7035	320.0	325.0	5.0	T				
7036	325.0	328.0	3.0	T				
7037	328.0	333.0	5.0	T				
7038	333.0	338.0	5.0	T				



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

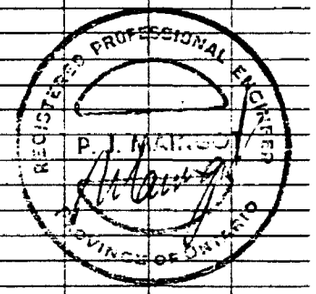
PROPERTY DETOUR LAKE HOLE NO. 38 - 43

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	ASSAYS Pb.
329	345	A fine grained medium gray felsic tuff, that in a few places is just about as cherty as 328 - 329. However, the lengths are only 1-2". From 333.7 to 339 the unit becomes a bit coarser grained, with fragments upto 2mm. Bedding? appears to be at 60° with C.A. No quartz veining and moderate biotite alteration however, it isn't constant throughout the section. Only very minor Py, which appears to be parallel to bedding planes.		7039	338.0	343.0	5.0	T				
		From 339 - 345 the tuff is light gray and more medium grained with fragments upto 2-3mm. Fragments alligned about 60° wto C.A. Minor disseminated Py.		7040	343.0	345.0	2.0	T				
		345 END OF HOLE 38 - 43										
		END DUE TO CAVE -IN										

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	213 NORTH	STARTED	May 8th, 1975						
HOLE NO.	DLO-38 - 42	DEPARTURE	L222 EAST	FINISHED	May 11th, 1975	200'	48°				
BEARING	180°	ELEVATION		LENGTH	481'	400'	48°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	A. JACKSON						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
0	38.0	CASING		14801	38	43	5.0	N				
				14802	43	48	5.0	N				
38.0	152.0	MAFIC LAVA FLOWS		14803	48	53	5.0	N				
		Medium crystalline, dark green, characterized by carbonate blotches		14804	53	58	5.0	N				
		and streaks throughout. Occasional quartz carb. veinlets.		14805	58	63	5.0	T				
		Occasional section of very coarse XTalline material, with hornblende	Tr. Po, Py, Cpy	14806	63	68	5.0	T				
		phenox, upto ½" , as in 100 - 104.		14807	68	73	5.0	T				
		Traces Po, Py, Cpy.		14808	73	78	5.0	T				
		117 - 135: Grain size is very variable, as in mixing of		14809	78	83	5.0	N				
		crystal mush with hornblende phenox set in		14810	83	88	5.0	N				
		fine grained matrix.		148 II	88	93	5.0	N				
				14812	93	98	5.0	T				
152	165	INTERMEDIATE FLOWS		14813	98	103	5.0	T				
		Fine grained, medium green, occasional 2" - 6" section of coarse		14814	103	108	5.0	T				
		XTalline material as above;		14815	108	113	5.0	T				
		152 - 155: 1 - 2% py, Po, Tr, Cpy	1-2% Py, Po, Tr, Cpy	14816	113	118	5.0	N				
				14817	118	123	5.0	N				
165	481	ULTRAMAFIC FLOW UNIT - SERPENTINIZED ZONE		14818	123	128	5.0	N				
		Dark grey-black, variable texture and grain size but over most of length		14819	128	133	5.0	N				
		is characterized by sub-rounded olivene phenox (¼") in fine grained		14820	133	138	5.0	N				
		matrix, giving rock a "spotted" appearance;		14821	138	143	5.0	N				
		highly magnetic overall, variably talcy and occasional sections have		14822	143	148	5.0	N				
		good chrysotile fibres (light green) and riebeckite developed. The		14823	148	153	5.0	T				
		serpentinization to talc, is not massive, but generally in occasional		14824	153	158	5.0	T				
		10-15' sections throughout.		14825	158	163	5.0	T				
		Occasional blebs Cpy, Po	Tr, Cpy, Po	14826	163	168	5.0	T				
		166 - 176: Fine grained, chloritic unit, possible mafic		14827	168	173	5.0	T				
		flow.		14828	173	178	5.0	T				
				14829	178	183	5.0	T				
		* Good XTalline Olivene begins at 176.		14830	183	188	5.0	T				
				14831	188	193	5.0	T				
		200 - 220: Finer XTalline, slight - moderately magnetic.		14832	193	198	5.0	T				
		240 - 320: Finer XTalline, still highly magnetic,		14833	198	203	5.0	T				
		occasional olivene phenox.		14834	203	208	5.0	T				
		286 - 302: Fair amount of fibrous, light green chrysotile		14835	208	213	5.0	T				
		and lite blue riebeckite.		14836	213	218	5.0	T				
				14837	218	223	5.0	.005				
				14838	223	228	5.0	.010				



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
				14839	228	233	5.0	T				
				14840	233	238	5.0	T				
165	481	CONTD.		14841	238	243	5.0	T				
				14842	243	248	5.0	T				
		385 - 390: Rhyolite Dike		14843	248	253	5.0	T				
		Lite grey, has chill margins		14844	253	258	5.0	T				
		394 - 399: Rhyolite Dike		14845	258	263	5.0	T				
		Lite grey, has chill margins		14846	263	268	5.0	T				
		428 - 428.5: Hornblende rich dike, non-magnetic, chill		14847	268	273	5.0	T				
		margins.		14848	273	278	5.0	T				
		430 - 432: Hornblende rich dike, non-magnetic, chill		14849	278	283	5.0	T				
		margins.		14850	283	288	5.0	N				
		440 - 445: Hornblende rich dike, non-magnetic, chill		14851	288	293	5.0	N				
		margins.		14852	293	298	5.0	T				
		These units are identical to those coarse		14853	298	303	5.0	N				
		XTalline→ fine - (mush) in 38 - 152.		14854	303	308	5.0	T				
				14855	308	313	5.0	T				
				14856	313	318	5.0	T				
	481.0	END OF HOLE		14857	318	323	5.0	T				
				14858	323	328	5.0	T				
				14859	328	333	5.0	T				
				14860	333	338	5.0	T				
				14861	338	343	5.0	T				
				14862	343	348	5.0	T				
				14863	348	353	5.0	T				
				14864	353	358	5.0	T				
				14865	358	363	5.0	T				
				14866	363	368	5.0	T				
				14867	368	373	5.0	T				
				14868	373	378	5.0	T				
				14869	378	383	5.0	T				
				14870	383	388	5.0	T				
				14871	388	393	5.0	T				
				14872	393	398	5.0	T				
				14873	398	403	5.0	T				
				14874	403	408	5.0	T				
				14875	408	413	5.0	T				
				14876	413	418	5.0	T				
				14877	418	423	5.0	T				
				14878	423	428	5.0	T				
				14879	428	433	5.0	T				
				14880	433	438	5.0	T				
				14881	438	443	5.0	.005				
				14882	443	448	5.0	T				
				14883	448	453	5.0	T				
				14884	453	458	5.0	T				
				14885	458	463	5.0	T				
				14886	463	468	5.0	N				
				14887	468	473	5.0	T				
				14888	473	478	5.0	T				
				14889	478	481	3.0	T				

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

PROPERTY	DETOUR LAKES	LATITUDE	210 + 50N	STARTED	May 3rd, 1975
HOLE NO.	DLO - 38 - 40	DEPARTURE	218E	FINISHED	May 7th, 1975
BEARING	180°	ELEVATION		LENGTH	670'
DIP-COLLAR	- 45°	SECTION		LOGGED BY	A. JACKSON

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	43½°				
400'	40°				
	TROPARI at 670' - 44½°, 198°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	72	CASING	
72.0	159.0	BASIC VOLCANIC LAVAS	
		Basaltic flow rocks, dark green, most units are medium grained (granular) Lavas have streaky appearance due to streaks of carbonate and occasional po. Occasional narrow quartz - carbonate veinlets.	
		72.5 - 76.5: Intermediate flow - medium green, massive, fine grained.	
		119.3 - 125.3: Intermediate - felsic flow, lite - medium grey, fine grained, massive, minor biotite, traces py	
		135.5 - 136: Two narrow quartz veins (¼"), py, cpy	1% py, cpy
159.0	289.0	INTERMEDIATE LAVA FLOWS	
		Fine medium grained, light green, medium green, gradational zone from mafic volcanics to intermediate from 159 - 206. Then good inter. flows, minor tuffaceous sections.	
		173.0 - 174: 4 narrow quartz veins at 30°, 3% po, py, traces cpy	3% po, py, tr, cpy
		213.5 - 237.0: Mafic lava	
		Same as 72 - 159.	
		250 - 250.8: Felsic, lite grey with occasional purplish streaks	
		254.3 - 256: Felsic, lite grey with occasional purplish streaks.	
289.0	340	MAFIC LAVAS	
		Same as 72 - 159.	
		312 - 315: 1-2% po, py, traces cpy along fractures, stringers	1-2% po, py, tr, cpy
		327 - 328: 5% po, py, traces magnite	5% po, py, tr, mag.
		328 - 339: Includes 5' of grained core	
340	553	SERPENTINIZED ZONE	
		Mixed zone containing strong talc - carb, schistose and gabbroic textured, slightly altered to talc - carb., and talc-carb, rocks which are slightly altered to chlorite.	
		340 - 355: Talc - carb., schistose (tuffaceous)	
		355 - 358: INTERMEDIATE TUFF ZONE, 1-2%po	1-2% po
		358 - 420: Gabbroic textured, medium coarse Xtalline, mod. altered to talc - carbonate.	
		420 - 466: Talc - carb, schistose, tuffaceous.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
14609	72	77	5.0	T				
14610	77	82	5.0	T				
14611	82	87	5.0	T				
14612	87	92	5.0	T				
14613	92	97	5.0	T				
14614	97	102	5.0	T				
14615	102	107	5.0	T				
14616	107	112	5.0	T				
14617	112	117	5.0	T				
14618	117	122	5.0	T				
14619	122	127	5.0	T				
14620	127	132	5.0	NIL				
14621	132	137	5.0	T				
14622	137	142	5.0	T				
14623	142	147	5.0	T				
14624	147	152	5.0	T				
14625	152	157	5.0	T				
14626	157	162	5.0	T				
14627	162	167	5.0	T				
14628	167	172	5.0	T				
14629	172	177	5.0	0.01				
14630	177	182	5.0	T				
14631	182	187	5.0	T				
14632	187	192	5.0	T				
14633	192	197	5.0	T				
14634	197	202	5.0	T				
14635	202	207	5.0	T				
14636	207	212	5.0	T				
14637	212	217	5.0	T				
14638	217	222	5.0	T				
14639	222	227	5.0	0.005				
14640	227	232	5.0	T				
14641	232	237	5.0	T				
14642	237	242	5.0	0.05				
14643	242	247	5.0	T				
14644	247	252	5.0	T				
14645	252	257	5.0	T				
14646	257	262	5.0	T				

REGISTERED PROFESSIONAL ENGINEER
P. J. MELINGO
PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
340	553	CONTD.		14647	262	267	5.0	T				
		466 - 477: More chloritic section, very little talc		14648	267	272	5.0	T				
		477 - 501: Talc - carb. schistose, 90° to C.A..		14649	272	277	5.0	T				
				14650	277	282	5.0	T				
		501 - 525: More massive, slightly chloritic and talcy.		14651	282	287	5.0	T				
		525 - 529: Talc - Carb - Schistose tuffaceous		14652	287	292	5.0	T				
		529 - 532: Chloritic, 5-10% po, traces cpy	5-10% po, tr, cpy	14653	292	297	5.0	T				
		532 - 553: Talc - carb. schistose, tuffaceous.		14654	297	302	5.0	0.005				
				14655	302	307	5.0	NIL				
553	587	CHLORITE ALTERATION ZONE		14656	307	312	5.0	T				
		Highly chloritic, medium dark green, black, some sections quite		14657	312	317	5.0	0.01				
		contorted. Occasional section slightly talcy. 3-4% po. cpy (5:1) occurs		14658	317	322	5.0	T				
		throughout as stringers and blebs.	3-4% po, cpy (5:1)	14659	322	328	6.0	0.03				
		582 - 584: Traces sphalerite along stringers of po, cpy.	Traces sphalerite	14660	328	333	5.0	T				
				14661	333	339	6.0	T				
587	601	INTERMEDIATE TUFF (AGGLOMERITIC?)		14662	339	344	5.0	T				
		Light green, fine grained, bedding - schistosity at 35°, has quartz	1% po	14663	344	349	5.0	T				
		"bombs" - $\frac{1}{4}$" - $\frac{1}{2}$" throughout.		14664	349	354	5.0	T				
				14665	354	359	5.0	T				
601	601.5	CHERTY TUFF		14666	359	364	5.0	T				
		Light grey, well laminated, rhyolitic.	2% po, tr, cpy	14667	364	369	5.0	T				
				14668	369	374	5.0	NIL				
601.5	614	RHYOLITE		14669	374	379	5.0	T				
		Light grey, massive with slight foliation due to biotite at 45° to C.A.		14670	379	384	5.0	T				
		Numerous small feldspar phenocrysts, occasional 2"-3" chloritic	1% po, py	14671	384	389	5.0	T				
		sections, 1% disseminated po, py.		14672	389	394	5.0	T				
				14673	394	399	5.0	N				
614	619	INTERMEDIATE TUFF		14674	399	404	5.0	N				
		Lite medium green, bedding at 50°.		14675	404	409	5.0	N				
				14676	409	414	5.0	N				
619	620	CHERTY TUFF		14677	414	419	5.0	N				
		Lite grey, well laminated at 45°		14678	419	424	5.0	N				
		10% py, 1-2% Sphalerite along bedding.	10% py, 1-2% sphal.	14679	424	429	5.0	N				
				14680	429	434	5.0	N				
620	626	Grades into felsic - intermediate tuff, biotite developed along bedding.		14681	434	439	5.0	N				
				14682	439	444	5.0	N				
626	670	INTERMEDIATE LAVAS		14683	444	449	5.0	N				
		Lite green, massive, numerous quartz carb. veins (1/8") occasional		14684	449	454	5.0	N				
		short tuffaceous sections; last 2' are talcy.		14685	454	459	5.0	N				
				14686	459	464	5.0	T				
				14687	464	469	5.0	N				
				14688	469	474	5.0	N				
				14689	474	479	5.0	N				
				14690	479	484	5.0	N				
				14691	484	489	5.0	T				
				14692	489	494	5.0	T				
				14693	494	499	5.0	T				
				14694	499	504	5.0	T				
				14695	504	509	5.0	N				
				14696	509	514	5.0	.08				
				14697	514	519	5.0	.02				
				14698	519	524	5.0	T				

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

PROPERTY DETOUR LAKES HOLE NO. 38 - 40

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	ASSAYS Pb.
				14699	524	529	5.0	T				
				14700	529	532	3.0	T		.11		
				14701	532	537	5.0	T		.02		
				14702	537	542	5.0	T		.012		
				14703	542	547	5.0	.005		.06		
				14704	547	552	5.0	.005		.04		
				14705	552	557	5.0	T		.08		
				14706	557	562	5.0	.04		.15	.006	
				14707	562	567	5.0	.03		.18	.007	
				14708	567	572	5.0	.02		.16	.016	
				14709	572	577	5.0	.01		.03	.10	
				14710	577	582	5.0	.01		.04	.05	
				14711	582	587	5.0	.07		.06	.23	
				14712	587	592	5.0	T		.04	.007	
				14713	592	597	5.0	T		.010	.004	
				14714	597	602	5.0	T		.010	.004	
				14715	602	607	5.0	.01		.011	.003	
				14716	607	612	5.0	T		.010	.004	
				14717	612	617	5.0	T		.013	.006	
				14718	617	619	2.0	T		.03	.014	
				14719	619	620	1.0	.01		.09	.62	
				14720	620	621	1.0	.05		.014	.10	
				14721	621	626	5.0	T				
				14722	626	631	5.0	T				
				14723	631	636	5.0	T				
				14724	636	641	5.0	T				
				14725	641	646	5.0	T				
				14726	646	651	5.0	T				
				14727	651	657	6.0	T				
				14728	657	662	5.0	T				
				14729	662	667	5.0	T				
				14730	667	670	3.0	T				

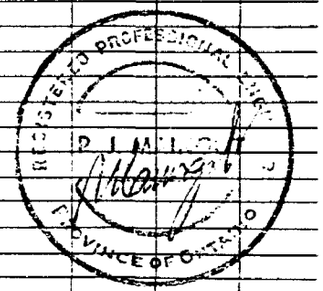
AMOCO CANADA PETROLEUM COMPANY LTD. - MINING DIVISION - DIAMOND DRILL HOLE RECORD

PROPERTY	DETOUR LAKE PROJECT ANOMALY No. 38	LATITUDE	209 + 50 N	STARTED	April 25th, 1975
HOLE NO.	38 - 38	DEPARTURE	208 + 00 E	FINISHED	May 1st, 1975
BEARING	180	ELEVATION		LENGTH	713'
DIP-COLLAR	- 45	SECTION	208 E	LOGGED BY	M. KONINGS

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
100'	47°	600'	33.5		
200'	46°	No Tropari test Taken			
400'	47.5°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	62	CASING	
62	119.7	BASIC TUFF (1c) Well bedded, fine to coarse (3mm); grey green, hard but well fractured (quartz veins reopened). Foliation angles decrease with depth from 50° to 40°. to core axis. Bottom contact with basic lavas is altered, showing chlorite and sericite alteration of tuffs. 75 - 77.6: 15% cherty fragments (1-3mm) in basic fine grained tuff. 78 - 101.8: Medium to coarse grained basic fragmental, 20-60% fragments 2-4mm. 113.7 - 114: Chert - foliated by chlorite bands at 40° to core axis, minor py 414.6 - 119.7: Same as 78 to 101.8.	
119.7	217.8	BASIC LAVA FLOWS (1a) Fine to medium grained, granular, grey-green, become harder with depth. Some flow banding and/or interflow tuffs at 45° to core axis. 30 - 40% felsic content Quartz (cherty) filling of amygdules 1-2mm very common in fine grained sections (flow tops?) up to 10%. Quartz veining rare, but veins (2" - /10') are wider than ½" and well mineralized with Po, Py, Tr Cpy.	
217.8	259.2	INTERMEDIATE TUFF (2c) Mostly fine grained, banded at 50° to core axis. 10% white 1-2mm rounded felsic fragments. Interbedded sections of basic lava as listed below. Very sharp contacts at downhole tuff to basic lava contact. Upper contact of tuff with basic volcanic is somewhat brecciated. Tuff is generally dark grey, 10% biotite, some lighter very siliceous zones. 220.3 - 230: Basic lava flows, medium grained, as above. 231 - 231.9: Basic lava flow, as above	1% Po, Tr Cpy
259.2	513.2	BASIC LAVA FLOWS (1a) Medium grained, well foliated, some interbedded intermediate flows. Many fragmental appearing sections. Grey - green colour same as 119.7 - 217.8. Foliated at 50° to core axis. 1" quartz vein per 10' core. Py is the most dominent mineral in veins. Unit becomes coarser below 399. Po and Py become more abundant (2%). Average 40% felsic content.	1% Po in thin streaks

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
A5471	62	65	3.0	T				
A5472	65	70	5.0	T				
A5473	70	75	5.0	N				
A5474	75	80	5.0	N				
A5475	80	85	5.0	N				
A5476	85	90	5.0	T				
A5477	90	95	5.0	T				
A5478	95	100	5.0	T				
A5479	100	105	5.0	N				
A5480	105	110	5.0	N				
A5481	110	115	5.0	T				
A5482	115	120	5.0	T				
A5483	120	125	5.0	N				
A5484	125	130	5.0	N				
A5485	130	135	5.0	N				
A5486	135	140	5.0	T				
A5487	140	145	5.0	T				
A5488	145	150	5.0	N				
A5489	150	155	5.0	T				
A5490	155	160	5.0	T				
A5491	160	165	5.0	N				
A5492	165	170	5.0	N				
A5493	170	175	5.0	N				
A5494	175	180	5.0	N				
A5495	180	185	5.0	N				
A5496	185	190	5.0	T				
A5497	190	195	5.0	T				
A5498	195	200	5.0	T				
A5499	200	205	5.0	T				
A5500	205	210	5.0	T				
A5501	210	215	5.0	T				
A5502	215	220	5.0	T				
A5503	220	225	5.0	T				
A5504	225	230	5.0	T				
A5505	230	235	5.0	N				
A5506	235	240	5.0	N				
A5507	240	245	5.0	N				
A5508	245	250	5.0	N				
A5509	250	255	5.0	N				



FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	ASSAYS Pb.
				A5510	255	260	5.0	T				
259.2	513.2	CONTD.		A5511	260	265	5.0	.02	.07			
		352.8 - 359: Intermediate tuff - light grey-green, fine grained, hard, no mineralization.		A5512	265	270	5.0	.07	5'			
				A5513	270	275	5.0	.01				
				A5514	275	280	5.0	T				
513.2	640.8	INTERMEDIATE TUFFS (2c)? 1a/1c	2% Po, Tr Cpy	A5515	280	285	5.0	T				
		Fine grained, generally less than 1mm; brownish-green due to high biotite content. Hardness 4.5 - 5; great variations in texture (tuff to lapilli), composition (due to variations of chlorite and biotite). Unit becomes more felsic with depth, more mineralization with depth, more quartz veining with depth. Below 528, 5" quartz vein per 10' core, well mineralized with Po, Cpy. Foliation 50° to core axis.		A5516	285	290	5.0	.03				
				A5517	290	295	5.0	T				
				A5518	295	300	5.0	.01				
				A5519	300	305	5.0	T				
				A5520	305	310	5.0	T				
				A5521	310	315	5.0	T				
		564.5 - 588: Zone of heavy biotite alteration, (25%); concentrated around quartz veining.	10% Po	A5522	315	320	5.0	.01				
				A5523	320	322	2.0	.01				
		588 - 640.8: Apple green colour due to chloritization and sericite alteration of tuffs, biotite rare, some minor felsic sections.	2% Po	A5524	322	325	3.0	T	.10			
				A5525	325	330	5.0	.10	5'			
				A5526	330	335	5.0	.03				
				A5527	335	340	5.0	.02				
640.8	651.8	ACIDIC AGGLOMERATE (4b)	less than 1% Po	A5528	340	345	5.0	T				
		White to grey. Size of bombs decreases with depth from 5cm to a fine grained mafic tuff with 10% felsic fragments. Massive unit, indistinct foliations. Fragment boundaries are outlined by minor mineralization and chlorite.		A5529	345	350	5.0	T				
				A5530	350	355	5.0	T				
				A5531	355	360	5.0	T				
				A5532	360	365	5.0	T				
				A5533	365	370	5.0	T				
651.6	655.4	CHERT (3) 3C	15% Po 1% Cpy	A5534	370	375	5.0	N				
		Marker horizon, well mineralized, chert, becomes better mineralized with depth. Mineralization consists of conductive stringers of Po and Cpy engulfing 2-3mm felsic tuff. Bedded at 45 - 50° to core axis.		A5535	375	380	5.0	N				
				A5536	380	385	5.0	N				
				A5537	385	390	5.0	N				
				A5538	390	395	5.0	T				
655.4	704.9	CHLORITE 5b	1% Po Tr Cpy	A5539	395	400	5.0	T				
		Massive, well foliated, fine grained; some platey black chlorite. Foliated at 50° to core axis, contains Po-Cpy in thin streaks between chlorite plates. Becomes less chloritic with depth. Contains 2 - 1.0' quartz veins with 20% Po, 1% Cpy. Unit has possible tuffaceous origin.		A5540	400	405	5.0	T				
				A5541	405	410	5.0	T				
				A5542	410	415	5.0	.01				
				A5543	415	420	5.0	.01				
				A5544	420	425	5.0	T				
704.9	713	TALC - CARBONATE ROCK (6a)	NONE	A5545	425	430	5.0	T				
		Very soft (easily scratched by finger nail), fine grain (less than 1mm) 50-60% felsic minerals (talc, carbonate, feldspar alteration). Very weakly banded at 50° to core axis.		A5546	430	435	5.0	T				
				A5547	435	440	5.0	N				
				A5548	440	445	5.0	N				
				A5549	445	450	5.0	T				
				A5550	450	455	5.0	N				
713		END OF HOLE		A5551	455	460	5.0	N				
				A5552	460	465	5.0	N				
				A5553	465	470	5.0	T				
				A5554	470	475	5.0	T				
				A5555	475	480	5.0	T				
				A5556	480	485	5.0	T				
				A5557	485	490	5.0	T				
				A5558	490	495	5.0	T				
				A5559	495	500	5.0	T				
				A5560	500	505	5.0	T				
				A5561	505	510	5.0	T				
				A5562	510	515	5.0	T				
				A5563	515	520	5.0	T				

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

PROPERTY DETOUR LAKES HOLE NO. 38 - 38 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	ASSAYS Pb.
				A5564	520	525	5.0	T				
				A5565	525	530	5.0	.05				
				A5566	530	535	5.0	T				
				A5567	535	540	5.0	.08				
				A5568	540	545	5.0	T				
				A5569	545	550	5.0	.01		.20		
				A5570	550	555	5.0	.08	.09Au	.12		
				A5571	555	560	5.0	.03	30'	.13		
				A5572	560	565	5.0	.02		.04		
				A5573	565	570	5.0	.01		.06		
				A5574	570	575	5.0	.08	.20Au	.07		
				A5575	575	580	5.0	.32	10'	.12		
				A5576	580	585	5.0	.01		.11		
				A5577	585	590	5.0	.02		.13		
				A5578	590	595	5.0	.01		.08		
				A5579	595	600	5.0	.01		.06		
				A5580	600	605	5.0	.01		.07		
				A5581	605	610	5.0	T		.06		
				A5582	610	615	5.0	T		.03		
				A5583	615	620	5.0	T		.04		
				A5584	620	625	5.0	.005		.08		
				A5585	625	630	5.0	T		.14		
				A5586	630	635	5.0	.005		.12		
				A5587	635	640	5.0	T		.10		
				A5588	640	645	5.0	T		.03	.004	
				A5589	645	650	5.0	T		.03		
				A5590	650	653	3.0	.03		.10	.006	
				A5591	653	655	2.0	.20		.35	.018	.21Cu 22'
				A5592	655	660	5.0	.02		.49	.021	
				A5593	660	663	3.0	.33	.16Au	.20	.014	
				A5594	663	665	2.0	.01	22'	.14	.008	
				A5595	665	670	5.0	.26		.12		
				A5596	670	675	5.0	.14				
				A5597	675	680	5.0	T				
				A5598	680	685	5.0	T				
				A5599	685	690	5.0	T				
				A5600	690	695	5.0	.05				
				A5601	695	700	5.0	T				
				A5602	700	705	5.0	T				
				A5603	705	710	5.0	T				
				A5604	710	713	3.0	T				
				END OF HOLE								

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

PROPERTY	DETOUR LAKES	LATITUDE	L214E	STARTED	April 5th, 1975
HOLE NO.	38 - 27	DEPARTURE	210 + 47N	FINISHED	April 10th, 1975
BEARING	GRID SOUTH (180°)	ELEVATION		LENGTH	702.0'
DIP-COLLAR	-45°	SECTION		LOGGED BY	W. MELNYK

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	41°				
400'	41°				
600'	36°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	32.0	CASING	
32.0	76.5	BASIC LAVA: A unique sequence of basic lavas enriched in silica extensively. The sequence is dark green in colour, varies from fine-medium grained and is mineralized in pyrrhotite, pyrite, chalcopyrite - primarily related to quartz veining. The silica enrichment is in the form of milky white, pink and purplish chert, of which the white chert is most prominent and gives the rock a blotchy-white appearance. The basic rock has been extensively uralitized and chloritized. Hardness 5.5 - 6.0.	
76.5	87.0	BASIC LAVA: A fine-medium grained, massive, homogeneous, green basic rock mineralized very poorly with smears of pyrite along fracture surfaces. Unit has been extensively chloritized and contains no quartz veining or silicification. Hardness 6.0.	
87.0	96.5	BASIC LAVA: Similar to 32.0 - 76.5. This section contains white cherty material only and the cherty bands are at a constant altitude of 40° W.C.A. Hardness 6.0.	
96.5	109.5	BASIC LAVA: A sequence of predominantly fine grained basic flows, very poorly mineralized and massive. Vague lineation near the top of the sequence, represented by thin whisps of feldspar alteration material, is at 50° W.C.A. Core surface is green in colour and homogeneous in texture. At 97.5 a thin band 1½" of feldspar phenos lineated at ~50° W.C.A. The phenocrysts of feldspar are generally 1/8" in length and are euhedral to subhedral. Hardness 5.5.	
109.5	112.0	BASIC LAVA: A greenishbrown, homogeneous, uralitized, chloritized basic flow. The unit is fine grained at either end and coarse in the centre portion. This section also contains a few white phenocrysts of feldspar to 1/16" in size through length. Sulphide mineralization consists of disseminated pyrrhotite. Hardness 5.5.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.
A5190	32.0	35.0	3.0	Tr		
A5191	35.0	40.0	5.0	Tr		
A5192	40.0	45.0	5.0	0.005		
A5193	45.0	50.0	5.0	Tr		
A5194	50.0	55.0	5.0	Tr		
A5195	55.0	60.0	5.0	Tr		
A5196	60.0	65.0	5.0	Tr		
A5197	65.0	70.0	5.0	Tr		
A5198	70.0	75.0	5.0	Tr		
A5199	75.0	80.0	5.0	Tr		
A5200	80.0	85.0	5.0	0.005		
A5201	85.0	90.0	5.0	Tr		
A5202	90.0	95.0	5.0	0.01		
A5203	95.0	100.0	5.0	0.08		
A5204	100.0	105.0	5.0	Tr		
A5205	105.0	110.0	5.0	Tr		
A5206	110.0	115.0	5.0	0.09		
A5207	115.0	120.0	5.0	0.02		
A5208	120.0	125.0	5.0	Tr		
A5209	125.0	130.0	5.0	0.01		
A5210	130.0	135.0	5.0	Tr		
A5211	135.0	140.0	5.0	Tr		
A5212	140.0	145.0	5.0	Tr		
A5213	145.0	150.0	5.0	Tr		
A5214	150.0	155.0	5.0	Tr		
A5215	155.0	160.0	5.0	Tr		
A5216	160.0	165.0	5.0	Tr		
A5217	165.0	170.0	5.0	Tr		
A5218	170.0	175.0	5.0	Tr		
A5219	175.0	180.0	5.0	Tr		
A5220	180.0	185.0	5.0	Tr		
A5221	185.0	190.0	5.0	Tr		
A5222	190.0	195.0	5.0	Tr		
A5223	195.0	200.0	5.0	Tr		
A5224	200.0	205.0	5.0	Tr		
A5225	205.0	210.0	5.0	Tr		
A5226	210.0	215.0	5.0	Tr		
A5527	215.0	220.0	5.0	Tr		

REGISTERED PROFESSIONAL ENGINEER
P. J. MANGOTT
PROVINCE OF ONTARIO

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
112.0	121.5	BASIC LAVA: A distinct flow due to the units coarse porphyritic nature. The rock is fine grained, green, weakly lineated at either end and coarse grained in the centre portion with feldspar phenocrysts of 1/8 inches in length, often in groups of three or four. The central portion also contains crystals of black thoroughly uralitized pyroxene. Hardness 5.0 - 5.5.		A5228	220.0	225.0	5.0	Tr		
				A5229	225.0	230.0	5.0	Tr		
				A5230	230.0	235.0	5.0	Tr		
				A5231	235.0	240.0	5.0	Tr		
				A5232	240.0	245.0	5.0	Tr		
				A5233	245.0	250.0	5.0	Tr		
				A5234	250.0	255.0	5.0	0.005		
121.5	175.0	BASIC LAVA: Coarse grained, dark green, thoroughly homogeneous basic lava. This unit is massive, contains no quartz veining or sulphide mineralization. The principle and sole constituent of this unit is uralitized pyroxene. Hardness 5.5.		A5235	255.0	260.0	5.0	0.005		
				A5236	260.0	265.0	5.0	Tr		
				A5237	265.0	270.0	5.0	Tr		
				A5238	270.0	275.0	5.0	Tr		
				A5239	275.0	280.0	5.0	Tr		
				A5240	280.0	285.0	5.0	Tr		
175.0	182.0	BASIC LAVA: A distinct feature of this unit is that it contains approximately 40% feldspar which essentially forms the matrix of the rock. The rock is equigranular medium grained and thoroughly homogeneous. Pyroxene has been thoroughly amphibolized and appears as green and black blotches set against a white feldspar rich background. Unit contains some feldspar veining which has been locally enriched in k-spar. Hardness 5.0.		A5241	285.0	290.0	5.0	0.01		
				A5242	290.0	295.0	5.0	Tr		
				A5243	295.0	300.0	5.0	Tr		
				A5244	300.0	305.0	5.0	0.005		
				A5245	305.0	310.0	5.0	0.02		
				A5246	310.0	315.0	5.0	0.01		
				A5247	315.0	320.0	5.0	Tr		
				A5248	320.0	325.0	5.0	Tr		
182.0	185.9	CHERTY TUFF: This section is orange in colour and well banded. The rock is fine grained, shattered extensively and contains minor pyrite as fracture fillings. 183.5 - 185.0: Clay - gouge, contains a few cherty pieces. Banding at 183.0 is 55° W.C.A.		A5249	325.0	330.0	5.0	Tr		
				A5250	330.0	335.0	5.0	Tr		
				A5251	335.0	340.0	5.0	Tr		
				A5252	340.0	345.0	5.0	Tr		
				A5253	345.0	350.0	5.0	Tr		
				A5254	350.0	355.0	5.0	Tr		
185.9	192.0	BASIC LAVA: This unit has been badly broken-up making identification difficult. Short sections appear to be a medium grained pyroxenitic lava with black crystals of uralitized pyroxene being prominent on the core surface. The rock has been lineated extensively, further clouding the identity of this section. Lineation at 192.0 - 55° W.C.A. Hardness 4.5.		A5255	355.0	360.0	5.0	0.005		
				A5256	360.0	365.0	5.0	Tr		
				A5257	365.0	370.0	5.0	Tr		
				A5258	370.0	375.0	5.0	Tr		
				A5259	375.0	378.0	3.0	Tr		0.023
				A5260	378.0	382.5	4.5	Tr		0.011
				A5261	382.5	384.2	1.7	Tr		0.008
				A5262	384.2	387.0	2.8	Tr		0.018
192.0	194.0	BASIC - INTERMEDIATE LAVA: A grey, fine grained lava. This unit has been sheared and shattered with some of the fractures being infilled with pyrite. Hardness 6.0.		A5263	387.0	390.0	3.0	Tr		0.004
				A5264	390.0	395.0	5.0	Tr		0.004
				A5265	395.0	400.0	5.0	0.01		0.011
				A5266	400.0	405.0	5.0	0.005		0.012
				A5267	405.0	410.0	5.0	0.005		0.022
194.0	195.6	BASIC LAVA; Similar to 185.9 - 192.0. Lineation -70° W.C.A.		A5268	410.0	415.0	5.0	0.02		0.030
				A5269	415.0	420.0	5.0	Tr		0.021
				A5270	420.0	425.0	5.0	0.11		0.05
195.6	201.8	BASIC - INTERMEDIATE LAVA: Similar to 192.0 - 194.0. This unit is fine grained, homogeneous, massive, grey and weakly shattered. This lava is also porphyritic with widely spaced feldspar phenocrysts to 1/16 inches in size. At 197.0 - fracture containing pyrite and chalcopyrite. Hardness 6.0.		A5271	425.0	428.0	3.0	0.07		0.05
				A5272	428.0	431.0	3.0	0.01		0.05
				A5273	431.0	434.0	3.0	0.06		0.29
				A5274	434.0	438.0	4.0	Tr		0.28
				A5275	438.0	442.0	4.0	Tr		0.11
				A5276	442.0	445.0	3.0	0.13		0.41

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
201.8	239.0	BASIC LAVA: Flows which are massive, granular, medium grained with the top 10' being rich in feldspar while the remainder contains black crystals of pyroxene. Near the bottom of the interval the unit becomes lineated at 50o W.C.A. Quartz veining and silicification is very poor. Hardness 5.5 - 6.0.		A5277	445.0	450.0	5.0	0.02		0.27
				A5278	450.0	454.0	4.0	Tr		0.15
				A5279	454.0	456.0	2.0	0.14		0.23
				A5280	456.0	458.0	2.0	0.01		0.20
				A5281	458.0	460.0	2.0	0.05		0.24
				A5282	460.0	462.0	2.0	0.03		0.89
				A5283	462.0	464.0	2.0	0.13		0.87
239.0	278.0	BASIC LAVA: A sequence of fine grained dark greenish grey lavas which for the most part are massive and vaguely lineated. Near the bottom of this section, drilling abrasion has produced some false banding. Sulfide mineralization is poor consisting of blebs of pyrrhotite and smears of pyrite along fractures. Fracturing is weak. Hardness 5.5 - 6.0.		A5284	464.0	466.0	2.0	0.01		0.32
				A5285	466.0	469.6	3.6	0.07		0.29
				A5286	469.6	471.5	1.9	0.01		0.29
				A5287	471.5	473.0	1.5	0.10		0.38
				A5288	473.0	475.0	2.0	Tr		0.15
				A5289	475.0	477.0	2.0	0.02		0.12
				A5290	477.0	480.0	3.0	0.01		0.08
				A5291	480.0	483.0	3.0	Tr		0.07
278.0	347.0	BASIC LAVA: An assortment of basic flows varying in grain size and texture. The flows are dark green grey in colour and medium grained for the most part. Lineation is well developed particularly near the bottom of the sequence. On dry core surface large white clots of altered feldspar material are prominent while the pyroxene grains have been completely altered to fibrous amphibole and subsequently elongated. Lineation at depth is approximately 45° W.C.A. Sulphide mineralization consists of blebs of pyrrhotite and fracture fillings of pyrite. Silicification and quartz veining is poor. Hardness 5.5 - 6.0.		A5292	483.0	486.0	3.0	Tr		0.03
				A5293	486.0	490.0	4.0	NIL		0.01
				A5294	490.0	495.0	5.0	NIL		0.01
				A5295	495.0	500.0	5.0	NIL		0.01
				A5296	500.0	505.0	5.0	NIL		
				A5297	505.0	510.0	5.0	0.02		
				A5298	510.0	515.0	5.0	n		
				A5299	515.0	520.0	5.0	n		
				A5300	520.0	525.0	5.0	Tr		
				A5301	525.0	530.0	5.0	Tr		
				A5302	530.0	535.0	5.0	Tr		
				A5303	535.0	540.0	5.0	Tr		
347.0	351.0	FELSIC TUFF: A massive purple, silicic rock containing rounded fragments through the entire length, comprizing 5%, by volume, of the rock. Fragments are milky white and range considerably in size to 1/8" most commonly though approximately 1/16". Top contact is 15° W.C.A. - irregular. Bottom contact is 40° W.C.A. - sharp. Vague lineation near the bottom of this unit is at 35° W.C.A.		A5304	540.0	545.0	5.0	0.005		
				A5305	545.0	550.0	5.0	0.005		
				A5306	550.0	555.0	5.0	Tr		
				A5307	555.0	560.0	5.0	Tr		
				A5308	560.0	565.0	5.0	Tr		
				A5309	565.0	570.0	5.0	Tr		
				A5310	570.0	575.0	5.0	0.005		
351.0	370.0	BASIC LAVA: A sequence of fine medium grained, dark green to grey, thinly lineated basic flows, lineation is represented by thin white whisps of feldspar alteration material primarily at 50° W.C.A. Sulphide mineralization increases in this section, consisting of elongated blebs of pyrrhotite, fracture fillings of pyrite, and minor smears of chalcopyrite along slip surfaces. Hardness 5.5 - 6.0.		Hole 38 - 27 Ultimate depth - 702'. Final 127' not split - soft schistose material.						
370.0	370.6	FELSIC TUFF: Similar to 347.0 - 351.0. This short unit has been shattered extensively and some of the rock adjacent to fractures has been bleached - white while other fractures have been infilled with mafic material. This unit contains white fragments comprizing 5% of the rock - mainly of the 1/16" size.								

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
370.6	427.0	BASIC LAVA: A series of greenish-grey, fine-medium grained, massive vaguely lineated basic flows. This unit is composed of short, thin altered basic flows composed of the fine grained alteration minerals - chlorite, epidote, fibrous amphibole, carbonate and sericite. Once again drilling action has produced false banding. Sulphide mineralization is very poor with only scattered blebs of pyrrhotite and sparse fracture fillings of pyrite. Silicification and quartz veining is very poor as well. 383 - 384.5: 1.5 quartz and feldspar vein. Barren. 387.0: 0.1 cherty material, irregularly bounded. 422.0 - 423.0: Garnet rich section (10% of rock) 1/8" diameter. Hardness 4.5 - 6.0.						
427.0	471.5	BASIC LAVA: A sequence of thin, fine grained, basic flows which have been recrystallized, altered and well mineralized. The most prominent alteration is silicification and related biotization which in turn have a close spatial relationship with sulphide mineralization. The most abundant sulphide is pyrrhotite which is concentrated in zones of intense biotization. Chalcopyrite which is primarily related to quartz veining and fracturing, occurring as thin veinlets and blebs therein. 427.0 - 435.0: Very fine grained, dark green basic flow. Biotization intimately related to quartz veining and silicification. Sulphides consist of pyrrhotite, pyrite and chalcopyrite. Pyrite and chalcopyrite are exclusively fracture fillings. 435.0 - 437.0: Fine medium grained, weakly lineated, dark green black flow, weakly porphyritic. Weak chalcopyrite mineralization as fracture filling. 437.0 - 439.8: Fine grained porphyritic basic flow containing white euhedral to anhedral phenocrysts of feldspar. 439.8 - 440.8: Brown, homogeneous, extensively biotized basic flow mineralized in disseminated pyrrhotite. Both contacts are sharp at 55° W.C.A. 440.8 - 442.5: Black, fine grained basic flow, very poorly mineralized. 442.5 - 444.5: Thoroughly biotized, silicified flow, containing pyrrhotite, chalcopyrite and minor pyrite. 444.5 - 446.4: Similar to 440.8 - 442.5. 446.4 - 450.3: Biotized, mineralized flow containing pyrrhotite and chalcopyrite. 450.3 - 453.8: Medium grained, green, poorly mineralized flow, containing large black and brown flakes of biotite. 453.8 - 471.5: Well biotized and silicified basic flow. This unit is homogeneous and contains anhedral garnets through most of section. Sulphide mineralization consists of chalcopyrite and pyrrhotite. Hardness of entire sequence varies from 4.5 - 6.0.						
471.5	476.5	FELSIC TUFF: A granular, medium grained felsic rock containing a great deal of quartz. This unit is very well mineralized in syngenetic pyrrhotite and secondary chalcopyrite. This tuff is greyish white, granular and massive. Lineation at 474.0 - 60° W.C.A.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
476.5	479.5	INTERMEDIATE TUFF: This short interval is massive, dark brown - black and contains 1 - 2% white fragments through length. This unit contains free quartz - 'quartz eyes' - and a significant amount of black coarse grained biotite. There is a 3" inclusion of purplish-felsic material near the top. Hardness 6.0.						
479.5	487.8	FELSIC TUFF: A greyish, medium coarse grained, massive, non-lineated felsic rock. White fragments to 1/16" in diameter are common on core surface and most have been resorbed in the matrix. The top 3.0' of this unit are well fractured. Some fractures are infilled with chalcopyrite and minor pyrrhotite while others contain coarse black biotite along with the chalcopyrite and pyrrhotite. Mafic content is minor.						
487.8	497.0	INTERMEDIATE LAPILLI TUFF: A distinct unit for various reasons. The unit is fine medium grained, homogeneous, massive, and black on core surface. The core surface is spotted with milky white fragments reaching to 1/8" in size homogeneously spread through length. This unit contains free quartz, brown biotite and is mineralized with disseminated pyrrhotite. Top contact is sharp at 45° W.C.A. Bedding at 495.0 - 35° W.C.A. At 492.5 - 2" of felsic tuff, contacts at 35° W.C.A. At 493.0 - 2" of felsic tuff, contacts at 35°, W.C.A. Hardness 6.0.						
497.0	502.0	INTERMEDIATE LAPILLI TUFF: Texturally this unit is similar to previous section except that this unit has a distinct grey colour, and contains black biotite in the matrix. Sulphide mineralization is very poor consisting of minor disseminated pyrrhotite. Hardness 6.0.						
502.0	508.3	FELSIC TUFF: A light grey-purplish felsic rock containing minor black and brown biotite in the matrix. Fragments are generally in the form of white milky clots, being partially resorbed in the matrix. At 508.0 - 3" of quartz veining containing chalcopyrite.						
508.3	522.0	BASIC LAVA: This flow iw fine-medium grained, black and porphyritic. The unit is weakly lineated but generally is massive and reasonably homogeneous. The unit contains 10-15% feldspar phenocrysts - tapering off in quantity at either end. Fracturing is very weak and sulphide mineralization is non-existant. Top contact is sharp at 25° W.C.A. Hardness 6.0.						
[illegible].0	525.5	BASIC LAVA: A dark green, medium coarse grained, fractured, basic flow which has been thoroughly uralitized. Most of the fractures are infilled with pyrrhotite and minor chalcopyrite. Biotite is associated with the sulphide mineralization. Hardness 6.0.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
525.5	552.0	BASIC TUFFS: Soft, green, irregularly banded basic tuffs. A prominent feature of this unit is the irregular banding along with short ½" - 3" sections of coarse brown biotite. Included in this section are short intervals of felsic and intermediate lapilli tuffs. Sulphide mineralization is very poor with only traces of pyrrhotite along fractures. 534.0: 2" interval of felsic tuff. Contacts 'ground-up'. 542.0 - 542.8: 9" interval of black intermediate lapilli tuff. Lapilli comprizing 5% of rock and 1/8" in diameter. Contacts are sharp at 50° W.C.A. 544.8 - 545.4: 8" interval of black intermediate lapilli tuff. Same as above. Contacts at 50° W.C.A. Hardness 3.0.						
552.0	562.0	BASIC LAVA: This lava is coarse grained through entire length, is homogeneous and massive. The rock is dark green and composed of crystals of pyroxene - 3/8" in diameter. Unit is not mineralized. Top contact is gradational. Bottom contact is at 70° W.C.A. Hardness 6.0.						
562.0	598.7	BASIC TUFFS AND/OR LAVAS: Similar to 525.5 - 542.0. A sequence of soft, green, chloritic rocks irregularly bedded indicating a tuffaceous origin. Unit is soft and very poorly mineralized in pyrrhotite mainly as fracture fillings and smears along slip surfaces. 596.0 - 597.0: Rock is ground-up, in part clayey. Bedding 572.0 - 80° W.C.A. 598.0 - 70° W.C.A. Hardness 3.5.						
598.7	646.0	TALCOSE SCHIST: A consistent unit, soft, talcose with schistosity varying from well developed, thin to poorly difined and vague. The unit varies in colour from distinct black and white to grey where the two constituents of this unit blend into one another. Difficult to determine the origin of this unit. Schistosity at 613.0 - 70° W.C.A. 634.0 - 70° W.C.A. Hardness 3.0.						
646.0	656.8	CHLORITIC SCHIST - BASIC TUFF(?): This light green chloritic schist is in all probability a basic tuff as it contains numerous inclusions of darker material which are generally drawn out and conformable with the bedding. The rock is composed exclusively of chlorite, carbonate and minor talc. Schistosity is variable at 650.0 - 45° W.C.A. Hardness 3.0.						
656.8	662.1	TALCOSE SCHIST: Same as 598.7 - 646.0. Strongly magnetic. Schistosity is constant at 30° W.C.A.						

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

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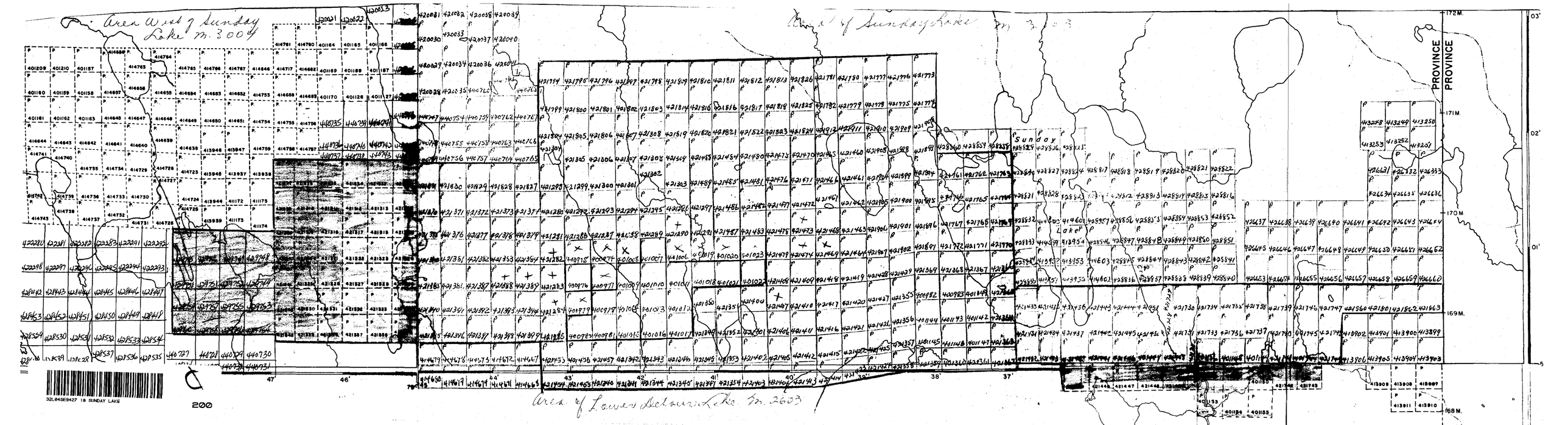
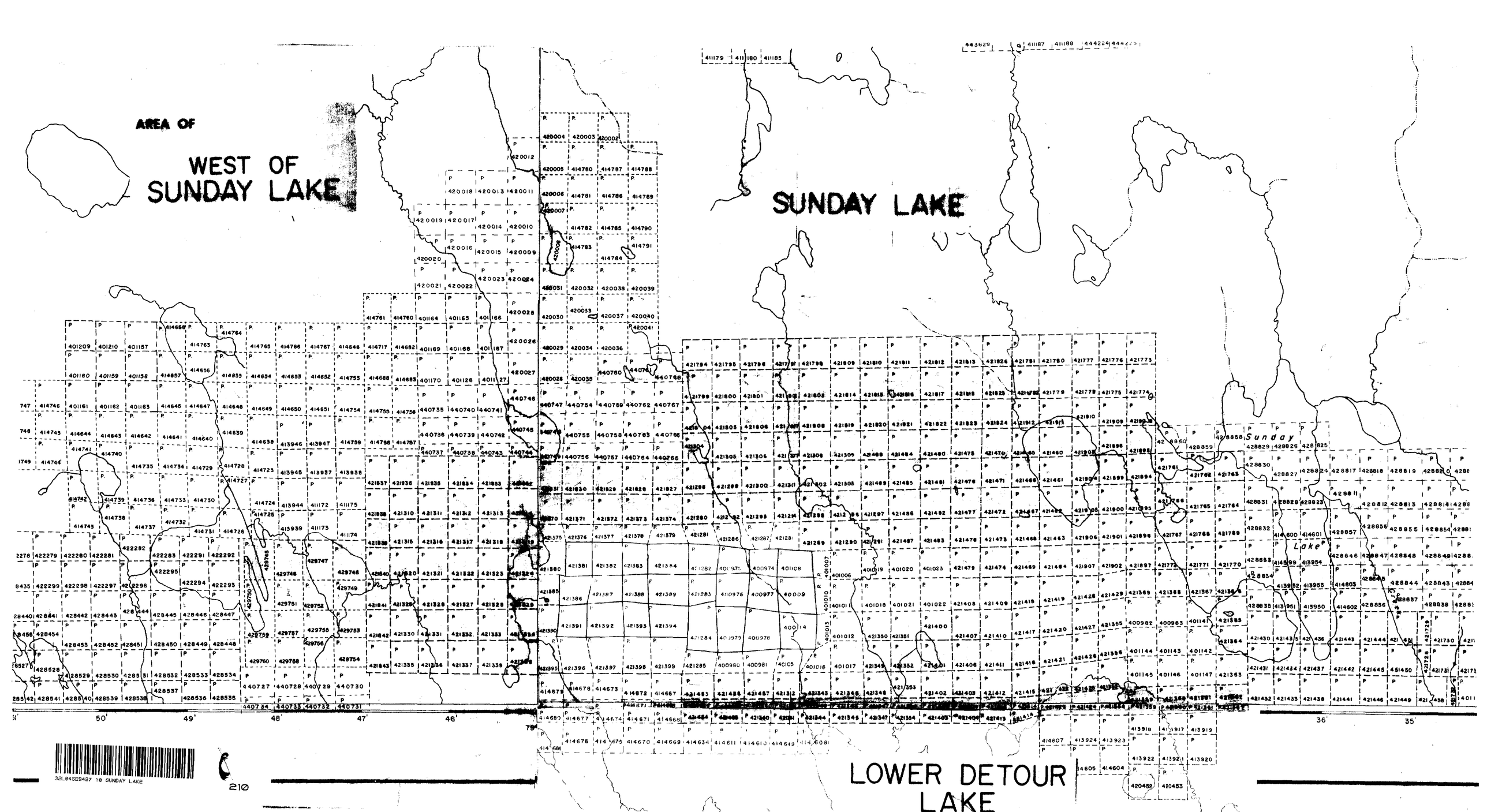
FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
662.1	702.0	CHLORITIC SCHIST: Similar to 646.0 - 656.8.						
		687.1 - 688.8: Talcose Schist.						
		Schistosity at 677.0 - 20° W.C.A.						
		683.0 - 45° W.C.A.						
		674.0 - Rock is sheared extensively.						
		No sulphide mineralization.						
		Hardness 2.5 - 3.0.						
	702.0	END OF HOLE.						


Area West of Sunday Lake Tp. 3004
Area of Sunday Lake Tp. 3003
Area of Lower Delaware Lake Tp. 2603
Sunday
Lake
PROVINCE
PROVINCE
172M.
171M.
170M.
169M.
168M.
03'
02'
01'
5
47
46'
43'
42
41'
40
38'
37'
200


AREA OF
WEST OF
SUNDAY LAKE
SUNDAY LAKE
LOWER DETOUR
LAKE
50'
49'
48'
47'
46'
36'
35'
32L04SE9427 10 SUNDAY LAKE
210

NOTES
ELEVATIONS ARE RELATIVE TO THE WATER LEVEL OF CAMP LAKE ON SEPTEMBER 4, 1975
ASSUMED ELEVATION 850.00

- I.B. Ø · DENOTES 3/4" ROUND IRON BAR
- D.S. · DENOTES DRILL ROD
- o · DENOTES WOOD HUB
- (GR) DENOTES GROUND ELEVATION
- (C) DENOTES ELEVATION·TOP OF CASING

AMOCO CANADA PETROLEUM COMPANY LIMITED

PLAN SHOWING
BASE LINE MONUMENTATION · DRILL HOLE LOCATIONS & ELEVATIONS
DETOUR LAKE PROJECT

SCALE · 1 INCH = 200 FEET

—H. SUTCLIFFE LIMITED — ONTARIO LAND SURVEYORS & CONSULTING ENGINEERS, NEW LISKEARD, ONTARIO	OCTOBER 2nd., 1975	DR. grc CH. wjw	H. SUTCLIFFE LTD. FILES NOTES 1059 1068	PLAN 5202F

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