Diamond Drilling

Area of SUNDAY LAKE

Report Nº 15

Work performed by: Amoco Canada Petroleum Co. Ltd.

Report 278 pages

Claim Nº	Hole Nº	Footage	Date	Note
	38-62	1623.0'	July/75	(1)
	38-33	813.0'	Apr/75	(1)
	38-31	169.0'	Apr/75	(1)
	38W12	611.0'	Apr/76	(1)
	29-1	503.0'	Apr/76	(1)
	31-3	570.0'	Apr/76	(1)
	38W9 ✓	507.0'	Apr/76	(1)
	38W7	517.0'	Mar/76	(1)
	38W6	623.0'	Mar/76	(1)
	38W4	567.0'	Feb/76	(1)
	38W2	610.0'	Feb/76	(1)
	38W11 ✓	500.0'	Apr/76	(1)
	38-68	583.0'	Aug/75	(1)
	38-65	905.0'	Aug/75	(1)
	38-61	1187.0'	Aug/75	(1)
	38-36	721.0'	Apr/75	(1)
	38-107	507.0'	Nov/75	(1)
	DL-0-74-36-1	432.7'	Oct/74	(1)
	DL-0-38-50	478.0'	June/75	(1)
	DL-0-38-49	566.0'	June/75	(1)
	DL-0-74-35-1	540.0'	May/75	(1)
	DL-0-38-58	577.0'	July/75	(1)
	38-29	632.0'	Apr/75	(1)
	38-124	1444.0'	May/76	(1)
	38W14	500.0'	Apr/76	(1)
	38W-15	1231.0'	May/76	(1)
	38W-71	596.0'	July/75	(1)
	DLO-38-60	877.0'	July/75	(1)
	DLO-38-87	668.0'	Sept/75	(1)
	DLO-39-5	505.0'	June/75	(1)
	DLO-39-6	566.0'	June/75	(1)
	DLO-39-7	670.0'	June/75	(1)
	DLO-38-47	601.0'	June/75	(1)
	38-69	1433.0'	Aug/75	(1)

Diamond Drilling

Area of SUNDAY LAKE

Report Nº

Work performed by:

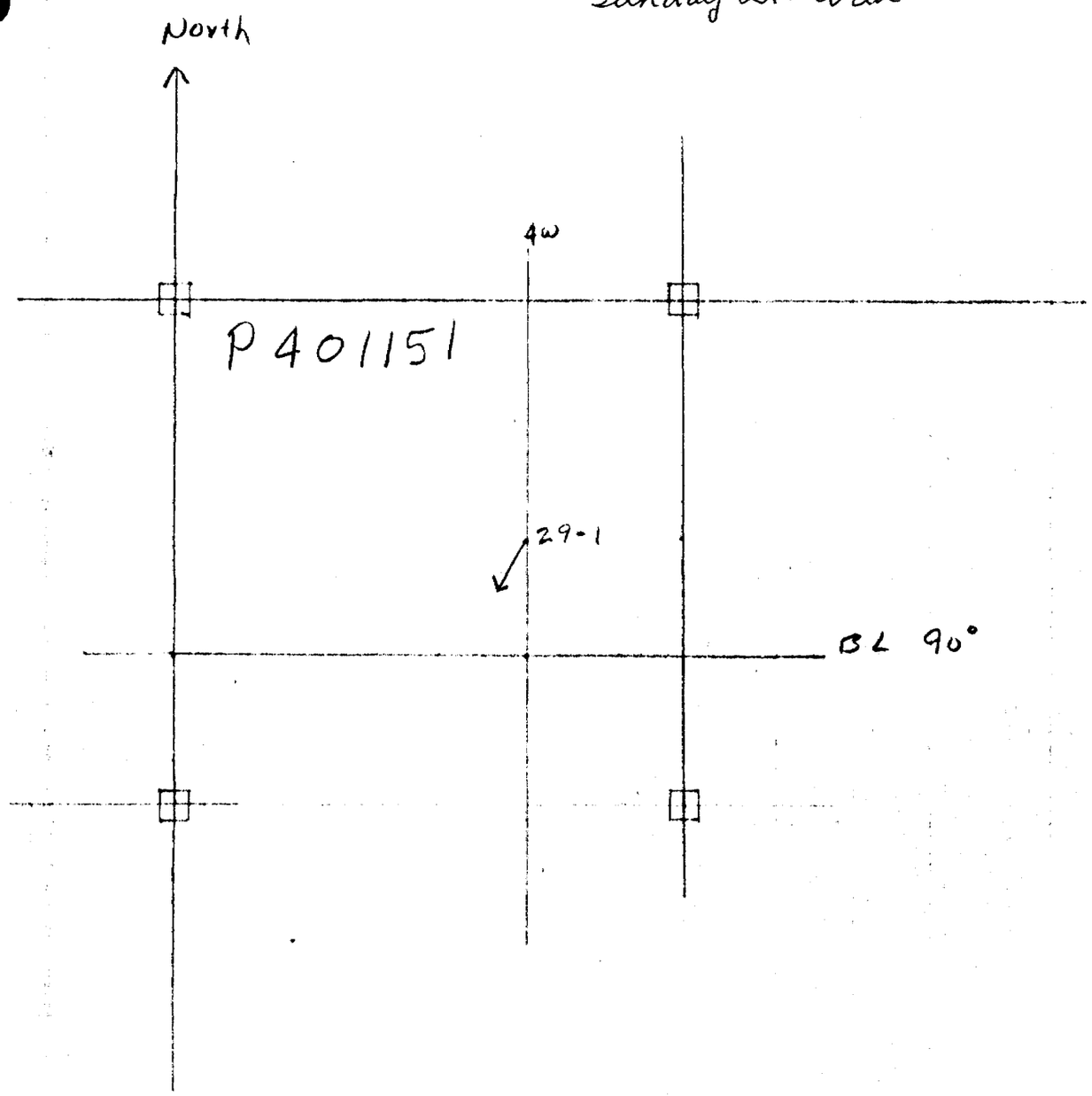
Claim Nº	Hole Nº	Footage	Date	Note
	DLO-38-75	1489.0'	Sept/75	(1)
	DLO-38-82	1397.0'	Sept/75	(1)
	38W17	475.0'	June/76	(1)
	38W18	496.0'	June/76	(1)
	38-126	1437.0'	May/76	(1)
	38W16	577.0'	May/76	(1)
	38-41	937.0'	May/75	(1)
	38-44	567.0'	May/75	(1)
	DLO-74-37-1	400.0'	Oct/74	(1)
	DLO-38-48	737.0'	June/75	(1)
	DLO-38-77	797.0'	Aug/75	(1)
	DLO-38-76	714.0'	Aug/75	(1)
	DLO-38-80	1013.0'	Sept/75	(1)
	DLO-39-8	603.0'	July/75	(1)
	DLO-38-72	728.0'	Aug/75	(1)
	38W1	497.0'	Feb/76	(1)
	38W10	540.0'	Apr/76	(1)
	38W8	513.0'	Mar/76	(1)
	38W5	547.0'	Mar/76	(1)
	76-38W-3	557.0'	Feb/76	(1)
	38W21	607.0'	Dec/76	(1)
	38W13	508.0'	Apr/76	(1)
	38-45	633.0'	May/75	(1)
	38-127	1247.0'	June/76	(1)
	Water hole - 1	220.0'	Sept/75	(1)
	38-46	1267.0'	May/75	(1)
	38-39	647.0'	Apr/75	(1)
	38-122	1346.0'	Jan/77	(1)
	38-129A	1801.0'	-	(1)
	63	47,129.7		

Notes:

(1) #24-74

Location map with report #10 and 2.2342

#24-74
Sunday Lk. area



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

M2603

ASSAY DATA SHEET

AMOCO CANADA PETROLEUM CO. LTD.

PROJECT ....Dutton Lake..... HOLE No. 86-W-21...

COMPLETED BY ...P. Brown..... DATE Dec. 7/1986

SAMPLE No.	FROM	TO	WIDTH	Au.	Ag.	Cu.	Zn.	Pb.	Ni.	
26459	175	180	5	T						
60	180	185	5	T						
26460	185	190	5	T		0.005	0.01			
61	190	195	5	T		0.005	0.01			
62	195	200	5	N		0.01	0.01			
63	200	205	5	N		0.01	0.01			
64	205	210	5	T		0.01	0.014			
65	210	215	5	T		0.015				
66	215	220	5	T		0.005				
67	220	225	5	T						
68	225	230	5	T						
69	230	235	5	T						
26470	235	240	5	T						
71	240	245	5	N						
72	245	250	5	N						
73	250	255	5	T						
74	255	260	5	0.01						
75	260	265	5	N						
76	265	270	5	N						
77	270	275	5	T						
78	275	280	5	N						
79	280	285	5	N						
26480	285	290	5	N						
81	290	295	5	T						
82	515	520	5							
26483	555	560	5							

ASSAY DATA SHEET

2

AMOCO CANADA PETROLEUM CO. LTD.

PROJECT D.L.O. 2136E 197+50N HOLE No. 38W-18

COMPLETED BY D. Hastings DATE June 19/76.

SAMPLE No.	FROM	TO	WIDTH	Au.	Ag.	Cu.	Zn.	Pb.	Ni.	
21349	410	415	5	T						
50	415	420	5	"						
51	420	425	5	"						
52	425	430	5	"						
53	430	435	5	"						
54	460	465	5	"						
496'		END	OF	HOLE						

ASSAY DATA SHEET

AMOCO CANADA PETROLEUM CO. LTD.

L136E 19715ON

PROJECT D.L.O. HOLE No. 3541-18

COMPLETED BY D. Knight DATE June 17/76.

SAMPLE No.	FROM	TO	WIDTH	Au.	Ag.	Cu.	Zn.	Pb.	Ni.
21326	130	135	5	.02					
21327	158	163	5	.02					
21328	190	195	5	.015					
21329	205	210	5	.01					
21330	225	230	5	.02					
21331	230	235	5	.01					
21332	235	240	5	.005					
21333	255	260	5	.005					
21334	260	265	5	.015					
21335	265	270	5	.02					
21336	270	275	5	.01					
21337	275	280	5	.01					
21338	280	285	5	.01					
21339	320	325	5	.005					
21340	325	330	5	.015					
21341	370	375	5	.005					
21342	375	380	5	.02					
21343	380	385	5	.01					
21344	385	390	5	.02					
21345	390	395	5	.03					
21346	395	400	5	.01					
21347	400	405	5	T					
21348	405	410	5	T					

ASSAY DATA SHEET

AMOCO CANADA PETROLEUM CO. LTD. 146E/198+00N

PROJECT D.L.O. HOLE No. 38W-17

COMPLETED BY D. Visagie DATE June 10/76

SAMPLE No.	FROM	TO	WIDTH	Au.	Ag.	Cu.	Zn.	Pb.	Ni.	
21272	56	61	5	T						
73	61	66	5	T						
74	66	71	5	T						
75	71	76	5	T						
76	76	81	5	.005						
77	81	86	5	.01						
78	86	91	5	T						
79	91	96	5	.03						
80	96	101	5	.03						
81	101	106	5	T						
82	106	111	5	T						
83	111	116	5	T						
84	116	121	5	T						
85	121	126	5	T						
86	126	131	5	T						
87	131	136	5	.01						
88	136	141	5	T						
89	141	146	5	T						
90	146	151	5	.639					VG	WC
91	151	156	5	.005						
92	156	161	5	.01						
93	161	166	5	T						
94	166	171	5	.04						
95	171	176	5	.02						

ASSAY DATA SHEET

AMOCO CANADA PETROLEUM CO. LTD.

146E/198N

PROJECT P.L.O. HOLE No. 38.W-17

COMPLETED BY D. Visagie DATE June 11/76

SAMPLE No.	FROM	TO	WIDTH	Au.	Ag.	Cu.	Zn.	Pb.	Ni.	
21296	176	181	5	T						
21297	206	211	5	T						
21298	236	241	5	T						
21299	261	266	5	T						
21300	281	286		T						

ASSAY DATA SHEET

AMOCO CANADA PETROLEUM CO. LTD.

L146E/198N

PROJECT D.L.O. HOLE No. 38-W-D

COMPLETED BY D. Visser DATE June 13/76

SAMPLE No.	FROM	TO	WIDTH	Au.	Ag.	Cu.	Zn.	Pb.	Ni.	
21301	300	305	5	T						
02	305	310	5	.01						
03	310	315	5	.045						
04	315	320	5	.03						
05	320	325	5	.01						
06	325	330	5	.03						
07	330	335	5	.005						
08	335	340	5	T						
09	340	345	5	T						
10	345	350	5	T						
11	350	355	5	T						
12	355	360	5	T						
13	360	365	5	T						
14	365	370	5	.005						
15	370	~~380~~ 375	5	T						
16	375	380	5	T						
17	380	385	5	T						
18	385	390	5	T						
19	390	395	5	T						
20	395	400	5	T						
21	400	405	5	.005						
22	405	410	5	T						
23	430	435	5	T						
24	450	455	5	N						
25	470	475	~~455~~	N						
				END OF HOLE 475						

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

PROPERTY	DETOUR LAKES	LATITUDE	208 + 00 N	STARTED	JULY 31st, 1975
HOLE NO.	38 - 62	DEPARTURE	188 + 00 E	FINISHED	AUGUST 10th, 1975
BEARING	180°	ELEVATION		LENGTH	1623'
DIP-COLLAR	- 50°	SECTION		LOGGED BY	P. M. H. RITCHIE

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	44.5°	800'	36½°	1400'	34°
400'	42.5°	1000'	35°	1600'	32°
600'	42°	1200'	35°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	58.0	CASING	
58.0	171.0	GREY, FINE TO MEDIUM GRAINED MAFIC TO INTERMEDIATE FLOWS (1a)	
		Minor tuffs	
		58.[illegible] - 132.0: Fine grained flows ¼% py, po, tr cpy	¼% py, po, cpy
		132.[illegible] - 157.0: Medium grained flows no sulphides	no sulphides
		[illegible]3.0: 6" quartz vein po; py	
		[illegible]0.0: 1" irregular quartz-carbonate vein po	
		[illegible]2.0: 3" quartz-carbonate vein	
		[illegible]4.5: 2" quartz-carbonate vein	
		[illegible]02.0: 3" quartz vein po, cpy	
		[illegible]06.0: 1½" quartz vein po, py.	
		157.[illegible] - 171.0: Fine grained flows tr py	tr py
		[illegible]61.6: ½" quartz vein	
		[illegible]63.3: ½" quartz vein	
171.0	291.0	GREY GREEN MEDIUM GRAINED MAFIC TO INTERMEDIATE FLOW (1a)	
		Minor Tuffs, phlogopitic. Tr py, cpy, po	tr py, cpy, po
		204.3: 2" quartz vein	
		220.2: 1" cherty - quartz vein	
		226.6: ½" quartz vein	
		257.3: V.G. small speck in ½" quartz vein with po, cpy	V.G. small speck
291.0	399.0	GREY GREEN CHLORITIC PHLOGOPITIC MAFIC TUFFS (1c) minor flows	
		Felsic mafic and carbonate fragments. Tr py, po, cpy.	tr py, po, cpy
		Tuffaceous bedding 43° with C.A. at 321'.	
		317.3: 1½" quartz vein.	
		326.0 399.0: ¼-½% py, po, tr cpy	¼-½% py, po, tr cpy
		340.0: 2" quartz vein	
		385.8: 2" quartz vein	
		391.6: 1½" quartz vein	
399.0	470.0	FINE GRAINED GREEN GREY MAFIC FLOWS (1a) Minor mafic tuffs	
		¼-½% py, po, tr cpy.	¼-½% py, po, tr cpy
		406.9: 2" quartz vein	
		429.1: 1" quartz vein	
		444.9: 1½" quartz vein	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
A16001	58.0	63.0	5.0	.02			
A16002	63.0	68.0	5.0	.03			
A16003	68.0	73.0	5.0	.125			
A16004	73.0	78.0	5.0	T			
A16005	78.0	83.0	5.0	.005			
A16006	83.0	88.0	5.0	.015			
A16007	88.0	93.0	5.0	.005			
A16008	93.0	98.0	5.0	T			
A16009	98.0	103.0	5.0	T			
A16010	103.0	108.0	5.0	T			
A16011	108.0	113.0	5.0	T			
A16012	113.0	118.0	5.0	T			
A16013	118.0	123.0	5.0	T			
A16014	123.0	128.0	5.0	T			
A16015	128.0	133.0	5.0	T			
A16016	133.0	138.0	5.0	N			
A16017	138.0	143.0	5.0	T			
A16018	143.0	148.0	5.0	N			
A16019	148.0	153.0	5.0	N			
A16020	153.0	158.0	5.0	T			
A16021	158.0	163.0	5.0	T			
A16022	163.0	168.0	5.0	T			
A16023	168.0	173.0	5.0	T			
A16024	173.0	178.0	5.0	T			
A16025	178.0	183.0	5.0	.005			
A16026	183.0	188.0	5.0	T			
A16027	188.0	193.0	5.0	T			
A16028	193.0	198.0	5.0	T			
A16029	198.0	203.0	5.0	T			
A16030	203.0	208.0	5.0	T			
A16031	208.0	213.0	5.0	T			
A16032	213.0	218.0	5.0	.005			
A16033	218.0	223.0	5.0	T			
A16034	223.0	228.0	5.0	N			
A16035	228.0	233.0	5.0	T			
A16036	233.0	238.0	5.0	.01			
A16037	238.0	243.0	5.0	N			
A16038	243.0	248.0	5.0	T			
A16039	248.0	253.0	5.0	T			
A16040	253.0	257.0	4.0	T			

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

PROPERTY DETOUR LAKES HOLE NO. 38 - 62 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
				A16041	257.0	258.0	1.0	.165			V.G.	whole core
470.0	592.0	MAFIC TO INTERMEDIATE FLOWS AND MAFIC TUFFS (1a, 1c)		A16042	258.0	263.0	5.0	T				
		470.0 - 488.0: Grey mafic tuffs		A16043	263.0	268.0	5.0	T				
		½% py, po, cpy.	½% py, po, cpy	A16044	268.0	273.0	5.0	T				
		488.0 - 566.0: Fine grained grey to grey green mafic to intermediate flows.		A16045	273.0	278.0	5.0	T				
				A16046	278.0	283.0	5.0	T				
		Tr to ¼% py, po, cpy.	tr to ¼% py, po, cpy	A16047	283.0	288.0	5.0	T				
		566.0 - 592.0: Grey mafic tuffs, minor grey green fine to medium grained mafic flows.		A16048	288.0	293.0	5.0	.005				
				A16049	293.0	298.0	5.0	.005				
		½-1% po, py, cpy.	½-1% po, py, cpy	A16050	298.0	303.0	5.0	.055				
		553.5: 1½" quartz vein		A16051	303.0	308.0	5.0	.005				
		Small quartz, carbonate and quartz-carbonate veins are common (519-592).		A16052	308.0	313.0	5.0	.005				
				A16053	313.0	318.0	5.0	N				
				A16054	318.0	323.0	5.0	N				
592.0	665.0	MAFIC TO INTERMEDIATE FLOWS AND TUFFS (1a, 1c)		A16055	323.0	328.0	5.0	N				
		Flows - green grey fine grained.		A16056	328.0	333.0	5.0	N				
		Tuffs - green grey and grey.		A16057	333.0	338.0	5.0	T				
		Phlogopite is common.		A16058	338.0	343.0	5.0	T				
		Tuffaceous bedding 36° to C.A. at 620'.		A16059	343.0	348.0	5.0	T				
		1% po, py, cpy (in equal amounts)	1% po, py, cpy	A16060	348.0	353.0	5.0	T				
		Small quartz, carbonate and quartz-carbonate veins are common.		A16061	353.0	358.0	5.0	.02				
		633.0 - 638.0: Above average cpy; some in a 7" quartz vein at 633.5 and the rest in the mafic flows - whole core.		A16062	358.0	363.0	5.0	T				
				A16063	363.0	368.0	5.0	T				
				A16064	368.0	373.0	5.0	T				
		649.1: 3" quartz vein with above average cpy.		A16065	373.0	378.0	5.0	T				
				A16066	378.0	383.0	5.0	T				
665.0	738.5	MAFIC TO INTERMEDIATE GREEN GREY FINE GRAINED FLOWS AND TUFFS (1a, 1c)		A16067	383.0	388.0	5.0	T				
				A16068	388.0	393.0	5.0	T				
		Phlogopite is common. Small carbonate, quartz and quartz-carbonate		A16069	393.0	398.0	5.0	T				
		veins are common. ¼-½% po, py, cpy	¼-½% po, py, cpy	A16070	398.0	403.0	5.0	T				
		680.8: V.G. 2 specks, one very small in 1" quarts vein.	V.G. (2)	A16071	403.0	408.0	5.0	T				
				A16072	408.0	413.0	5.0	T				
		688.1: 2" quartz vein		A16073	413.0	418.0	5.0	T				
		722.5: 1.6' white carbonate vein.		A16074	418.0	423.0	5.0	.01				
				A16075	423.0	428.0	5.0	T				
738.5	812.0	MAFIC TO INTERMEDIATE FLOWS AND TUFFS (1a, 1c)		A16076	428.0	433.0	5.0	T				
		738.5 - 756.0: Grey mafic to intermediate tuff		A16077	433.0	438.0	5.0	T				
		756.0 - 812.0: Fine grained mafic to intermediate flows		A16078	438.0	443.0	5.0	T				
		⅓% po, py, cpy in order of abundance.	⅓% po, py, cpy	A16079	443.0	448.0	5.0	T				
		747.0: V.G. 2 specks in 1/3" grey quartz vein 1 speck very small	V.G. (2)	A16080	448.0	453.0	5.0	T				
				A16081	453.0	458.0	5.0	.045				
		783.4: V.G. 3 specks (2 very small) in 4" quartz vein (15% py)	V.G. (3)	A16082	458.0	463.0	5.0	T				
				A16083	463.0	468.0	5.0	T				
				A16084	468.0	473.0	5.0	.005				
812.0	885.0	FINE TO MEDIUM GRAINED GREY GREEN MAFIC TO INTER. FLOWS (1a)		A16085	473.0	478.0	5.0	.01				
		¼% po, tr py, cpy	¼% po, tr py, cpy	A16086	478.0	483.0	5.0	T				
				A16087	483.0	488.0	5.0	T				
885.0	934.0	FINE GRAINED GREY GREEN MAFIC TO INTERMEDIATE FLOWS (1a)		A16088	488.0	493.0	5.0	T				
		Phlogopite is common. ¼% po, tr py, cpy	¼% po, tr py, cpy	A16089	493.0	498.0	5.0	T				
				A16090	498.0	503.0	5.0	T				
934.0	1001.0	FINE GRAINED GREY GREEN MAFIC TO INTERMEDIATE FLOWS (1a)		A16091	503.0	508.0	5.0	T				
		Phlogopitic. ¼% po, py, cpy. Mostly in quartz veins.	¼% po, py, cpy.	A16092	508.0	513.0	5.0	T				
		942.0 - 943.0: Quartz vein 5% po, tr cpy	5% po, tr cpy	A16093	513.0	518.0	5.0	T				
				A16094	518.0	523.0	5.0	T				

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

PROPERTY DETOUR LAKES HOLE NO. 38 - 62 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS D.	
				A16095	523.0	528.0	5.0	T				
1001.0	1201.0	FINE GRAINED GREY MAFIC TO INTERMEDIATE FLOWS (1a)		A16096	528.0	533.0	5.0	T				
		Minor grey fine grained mafic flows		A16097	533.0	538.0	5.0	T				
		1001.0 - 1104.0: ¼% po, tr cpy, py	¼% po, tr cpy, py	A16098	538.0	543.0	5.0	T				
		1043: 1.6' quartz vein 5% po, cpy	5% po, cpy	A16099	543.0	548.0	5.0	T				
		1104.0 - 1201.0: ¼% po, cpy, tr py.	¼% po, cpy, tr py	A16100	548.0	553.0	5.0	T				
		1130.0 - 1131.5: Grey felsic tuff.		A16101	553.0	558.0	5.0	.005				
		1109.4: 6" quartz vein po cpy		A16102	558.0	563.0	5.0	.01				
		1118.3 - 1119.8: 1.5' quartz vein 2% cpy, po whole core	2% cpy, po	A16103	563.0	568.0	5.0	.005				
		1129.5: V.G. 3 specks in 2" quartz vein.	V.G. (3)	A16104	568.0	573.0	5.0	.010				
				A16105	573.0	578.0	5.0	T				
1201.0	1273.5	GREEN GREY FINE GRAINED MAFIC TO INTERMEDIATE FLOWS (1a)		A16106	578.0	583.0	5.0	.005				
		¼% py, po, tr cpy	¼% py, po, tr cpy	A16107	583.0	588.0	5.0	T				
		1208.5 - 1214.0: Medium grained mafic to intermediate flows a possible sill. 1½% py, tr cpy. Lower contact 84° with C.A.	1½% py tr cpy	A16108	588.0	593.0	5.0	T				
				A16109	593.0	598.0	5.0	.01				
				A16110	598.0	603.0	5.0	T				
		1249.5: V.G. 1 small speck in ¼" grey quartz.	V.G. (1)	A16111	603.0	608.0	5.0	.005				
				A16112	608.0	613.0	5.0	.005				
1273.5	1347.0	GREEN GREY FINE GRAINED MAFIC TO INTERMEDIATE FLOWS (1a)		A16113	613.0	618.0	5.0	.02				
		¼% po, py, tr cpy.	¼% po, py, tr cpy	A16114	618.0	623.0	5.0	T				
		1328.3: V.G. 1 speck in a grey quartz stringer with po and cpy	V.G. (1)	A16115	623.0	628.0	5.0	.055	.148		.04	
				A16116	628.0	633.0	5.0	.005	12.5			
		1332.8 - 1334.0; 1337.4 - 1341.3: Grey intermediate fine grained flows		A16117	633.0	635.5	2.5	.62			.74	whole core
		1339.8: V.G. 1 speck in a 0.9' quartz vein including mafic flow material with po, py.	V.G. (1)	A16118	635.5	638.0	2.5	.02				w/core
				A16119	638.0	643.0	5.0	.015				
				A16120	643.0	648.0	5.0	.01				
1347.0	1404.0	GREEN GREY FINE GRAINED MAFIC TO INTERMEDIATE FLOWS (1a)		A16121	648.0	653.0	5.0	.01				
		Minor tuffs. Magnetic in places probably due to fine grained po.		A16122	653.0	658.0	5.0	.01				
		½ - 1% py, po, cpy	½-1% py, po, cpy	A16123	658.0	663.0	5.0	T				
		1379.2: V.G. 1 small speck in 3/4" quartz vein	V.G. (1)	A16124	663.0	668.0	5.0	T				
				A16125	668.0	673.0	5.0	T				
1404.0	1408.0	CHERTY TUFFS (3)		A16126	673.0	678.0	5.0	T				
		Tr py, po, cpy	Tr py, po, cpy	A16127	678.0	680.5	2.5	.005				
				A16128	680.5	681.5	1.0	.255			V.G.	w/core
1408.0	1430.5	LIGHT GREY FINE GRAINED FELSIC FLOWS (4a)		A16129	681.5	684.0	2.5	.025				
		Minor tuffs. Tuffaceous bedding at 1408. 63° to C.A.		A16130	684.0	689.0	5.0	.005				
		1408.0 1419.0: Tr py, po, cpy.	Tr py, po, cpy	A16131	689.0	694.0	5.0	T				
		1419.0 - 1430.5: 1% py	1% py	A16132	694.0	699.0	5.0	T				
		1425.6 - 1426.3: Quartz vein with 50% py		A16133	699.0	704.0	5.0	T				
				A16134	704.0	709.0	5.0	.01				
1430.5	1432.5	CHERTY TUFF (3) Tr py, po, cpy	tr py, po, cpy	A16135	709.0	714.0	5.0	T				
				A16136	714.0	719.0	5.0	.015				
1432.5	1446.5	CHLORITIC ALTERATION ZONE (5) ¼% py, tr po	¼% py, tr po	A16137	719.0	724.0	5.0	T				
				A16138	724.0	729.0	5.0	T				
1446.5	1451.0	Contact 54° to C.A. LIGHT GREY FINE GRAINED FELSIC FLOW (4a)		A16139	729.0	734.0	5.0	T				
		Tr py, po	Tr py, po	A16140	734.0	739.0	5.0	.030				
				A16141	739.0	744.0	5.0	.01				
1451.0	1519.5	ULTRAMAFIC ZONE (6a)		A16142	744.0	746.5	2.5	.015				
		Talc carbonate schist minor chloritic alteration zone - black and green chlorite.		A16143	746.5	747.5	1.0	.186	.07		V.G.	w/core
				A16144	747.5	750.0	2.5	.015	8.5			
		1451.0 - 1492.0: Tr py, po, cpy (mostly all py)	tr py, po, cpy	A16145	750.0	755.0	5.0	.065			.04	
		1492.0 - 1519.5: No sulphides	no sulphides	A16146	755.0	760.0	5.0	T				
		1451.0 - 1451.4: Quartz vein 10% sulphides (4%po, 4% py, 2%cpy)		A16147	760.0	765.0	5.0	.015				
				A16148	765.0	770.0	5.0	T				

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	
				A16149	770.0	775.0	5.0	.005			
1519.0	1527.0	CHLORITIC (GREEN) ALTERATION ZONE (5b)		A16150	775.0	780.0	5.0	.01			
		$\frac{1}{2}$% py	$\frac{1}{2}$% py	A16151	780.0	783.0	3.0	T			
		1526.0 - 1527.0: Light grey felsic tuff.		A16152	783.0	784.0	1.0	1.53			V.G. w/core
				A16153	784.0	789.0	5.0	.005			
1527.0	1534.0	CHLORITIC MAFIC TUFF (1c)		A16154	789.0	794.0	5.0	T			
		$\frac{1}{2}$% py	$\frac{1}{2}$% py	A16155	794.0	799.0	5.0	.015			
				A16156	799.0	804.0	5.0	T			
1534.0	1546.7	CHLORITIC MAFIC TUFF MINOR FELSIC INTERBEDS (1c)		A16157	804.0	809.0	5.0	T			
		$\frac{1}{2}$% py	$\frac{1}{2}$% py	A16158	809.0	814.0	5.0	T			
				A16159	814.0	819.0	5.0	T			
1546.7	1551.0	LIGHT GREY FELSIC TUFF MINOR MAFIC INTERBEDS (4c)		A16160	819.0	824.0	5.0	T			
		$\frac{1}{2}$% py	$\frac{1}{2}$% py	A16161	824.0	829.0	5.0	T			
				A16162	829.0	834.0	5.0	T			
1551.0	1559.0	CHLORITIC MAFIC TUFFS (1c)		A16163	834.0	839.0	5.0	T			
		$\frac{1}{2}$% py	$\frac{1}{2}$% py	A16164	839.0	844.0	5.0	T			
				A16165	844.0	849.0	5.0	T			
1559.0	1568.0	LIGHT GREY CHERTY TUFF (3)		A16166	849.0	854.0	5.0	.01			
		$\frac{1}{2}$% py	$\frac{1}{2}$% py	A16167	854.0	859.0	5.0	T			
				A16168	859.0	864.0	5.0	T			
1568.0	1590.0	CHLORITIC MAFIC TUFFS (1c)		A16169	864.0	869.0	5.0	T			
		Except 1579 - 1580.2: Light grey cherty tuff (3)		A16170	869.0	874.0	5.0	T			
		$\frac{1}{2}$% py	$\frac{1}{2}$% py	A16171	874.0	879.0	5.0	T			
				A16172	879.0	884.0	5.0	T			
1590.0	1623.0	GREY MAFIC TUFFS (1c) minor felsic tuffs, chlorite in places		A16173	884.0	889.0	5.0	T			
		Tuffaceous bedding at 1596' 61° to C.A.		A16174	889.0	894.0	5.0	.01			
		$\frac{1}{4}$% py tr po, cpy (one speck)	$\frac{1}{4}$% py, tr po, cpy one speck.	A16175	894.0	899.0	5.0	T			
				A16176	899.0	904.0	5.0	T			
				A16177	904.0	909.0	5.0	T			
				A16178	909.0	914.0	5.0	T			
				A16179	914.0	919.0	5.0	.210			.095
				A16180	919.0	924.0	5.0	T			
				A16181	924.0	929.0	5.0	T			
				A16182	929.0	934.0	5.0	T			
				A16183	934.0	939.0	5.0	T			
				A16184	939.0	944.0	5.0	.02			
				A16185	944.0	949.0	5.0	T			
				A16186	949.0	954.0	5.0	T			
				A16187	954.0	959.0	5.0	T			
				A16188	959.0	964.0	5.0	.135			.135
				A16189	964.0	969.0	5.0	T			
				A16190	969.0	974.0	5.0	T			
				A16191	974.0	979.0	5.0	.005			
				A16192	979.0	984.0	5.0	.025			
				A16193	984.0	989.0	5.0	.045			
				A16194	989.0	994.0	5.0	.01			
				A16195	994.0	999.0	5.0	T			
				A16196	999.0	1004.0	5.0	.01			
				A16197	1004.0	1009.0	5.0	T			
				A16198	1009.0	1014.0	5.0	.01			
				A16199	1014.0	1019.0	5.0	T			
				A16200	1019.0	1024.0	5.0	T			
				A16201	1024.0	1029.0	5.0	T			
				A16202	1029.0	1034.0	5.0	T			

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.		
				A16203	1034.0	1039.0	5.0	T				
				A16204	1039.0	1044.0	5.0	T				
				A16205	1044.0	1049.0	5.0	T				
				A16206	1049.0	1054.0	5.0	T				
				A16207	1054.0	1059.0	5.0	T				
				A16208	1059.0	1064.0	5.0	T				
				A16209	1064.0	1069.0	5.0	.005				
				A16210	1069.0	1074.0	5.0	T				
				A16211	1074.0	1079.0	5.0	T				
				A16212	1079.0	1084.0	5.0	.005				
				A16213	1084.0	1089.0	5.0	.03				
				A16214	1089.0	1094.0	5.0	T				
				A16215	1094.0	1099.0	5.0	.01				
				A16216	1099.0	1104.0	5.0	.01				
				A16217	1104.0	1109.0	5.0	T				
				A16218	1109.0	1114.0	5.0	.01				
				A16219	1114.0	1118.3	4.3	T				
				A16220	1118.3	1119.8	1.5	.229				w/core
				A16221	1119.8	1125.0	5.2	T				
				A16222	1125.0	1129.0	4.0	T				
				A16223	1129.0	1130.0	1.0	.015			V.G.	w/core
				A16224	1130.0	1135.0	5.0	.01				
				A16225	1135.0	1140.0	5.0	T				
				A16226	1140.0	1145.0	5.0	T				
				A16227	1145.0	1150.0	5.0	.015				
				A16228	1150.0	1155.0	5.0	T				
				A16229	1155.0	1160.0	5.0	T				
				A16230	1160.0	1165.0	5.0	T				
				A16231	1165.0	1170.0	5.0	.26	.157		.21	
				A16232	1170.0	1175.0	5.0	.055	10'		.035	
				A16233	1175.0	1180.0	5.0	T				
				A16234	1180.0	1185.0	5.0	.005				
				A16235	1185.0	1190.0	5.0	T				
				A16236	1190.0	1195.0	5.0	T				
				A16237	1195.0	1200.0	5.0	T				
				A16238	1200.0	1205.0	5.0	T				
				A16239	1205.0	1210.0	5.0	T				
				A16240	1210.0	1215.0	5.0	.03				
				A16241	1215.0	1220.0	5.0	.01				
				A16242	1220.0	1225.0	5.0	.07			.065	
				A16243	1225.0	1230.0	5.0	.010				
				A16244	1230.0	1235.0	5.0	.145			.085	
				A16245	1235.0	1240.0	5.0	.015	.097			
				A16246	1240.0	1245.0	5.0	.025	20'			
				A16247	1245.0	1249.0	4.0	.005				
				A16248	1249.0	1250.0	1.0	1.03			1.00	V.G. w/core
				A16249	1250.0	1255.0	5.0	T				
				A16250	1255.0	1260.0	5.0	T				
				A16251	1260.0	1265.0	5.0	.020				
				A16252	1265.0	1270.0	5.0	T				
				A16253	1270.0	1275.0	5.0	T				
				A16254	1275.0	1280.0	5.0	T				
				A16255	1280.0	1285.0	5.0	.025				

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.	Ag.	Cu.		
				A16256	1285.0	1290.0	5.0	.030				
				A16257	1290.0	1295.0	5.0	T				
				A16258	1295.0	1300.0	5.0	T				
				A16259	1300.0	1305.0	5.0	T				
				A16260	1305.0	1310.0	5.0	.37	0.2		.27	
				A16261	1310.0	1315.0	5.0	.03	10¹			
				A16262	1315.0	1320.0	5.0	T				
				A16263	1320.0	1325.0	5.0	T	.08			
				A16264	1325.0	1328.0	3.0	T	35.4¹			
				A16265	1328.0	1329.0	1.0	.196		.08	.175 V.G. w/core	
				A16266	1329.0	1334.0	5.0	T				
				A16267	1334.0	1339.4	5.4	T				
				A16268	1339.4	1340.4	1.0	.659			.635 V.G. w/core	
				A16269	1340.4	1345.0	4.6	.020				
				A16270	1345.0	1350.0	5.0	.015				
				A16271	1350.0	1355.0	5.0	.005				
				A16272	1355.0	1360.0	5.0	T				
				A16273	1360.0	1365.0	5.0	.005				
				A16274	1365.0	1370.0	5.0	.015				
				A16275	1370.0	1375.0	5.0	.12	.08		.134	
				A16276	1375.0	1379.0	4.0	.030	10¹			
				A16277	1379.0	1380.0	1.0	.060			.060 V.G. w/core	
				A16278	1380.0	1385.0	5.0	.010				
				A16279	1385.0	1390.0	5.0	.02				
				A16280	1390.0	1395.0	5.0	.03				
				A16281	1395.0	1400.0	5.0	.07			.09	
				A16282	1400.0	1405.0	5.0	.02				
				A16283	1405.0	1410.0	5.0	.01				
				A16284	1410.0	1415.0	5.0	T				
				A16285	1415.0	1420.0	5.0	T				
				A16286	1420.0	1425.0	5.0	.010				
				A16287	1425.0	1430.0	5.0	T				
				A16288	1430.0	1435.0	5.0	T				
				A16289	1435.0	1440.0	5.0	T				
				A16290	1440.0	1445.0	5.0	T				
				A16291	1445.0	1451.0	6.0	.005				
				A16292	1451.0	1452.0	1.0	.74			Cu w/core	
				A16293	1452.0	1457.0	5.0	.015				
				A16294	1457.0	1462.0	5.0	T				
				A16295	1462.0	1467.0	5.0	.01				
				A16296	1467.0	1472.0	5.0	T				
				A16297	1472.0	1477.0	5.0	T				
				A16298	1477.0	1482.0	5.0	.01				
				A16299	1482.0	1487.0	5.0	T				
				A16300	1487.0	1492.0	5.0	.01				
				A16301	1492.0	1497.0	5.0	.01				
				A16302	1497.0	1502.0	5.0	.005				
				A16303	1502.0	1507.0	5.0	T				
				A16304	1507.0	1512.0	5.0	.01				
				A16305	1512.0	1517.0	5.0	T				
				A16306	1517.0	1522.0	5.0	.01				
				A16307	1522.0	1527.0	5.0	.015				
				A16308	1527.0	1532.0	5.0	.01				
				A16309	1532.0	1537.0	5.0	.01				

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag.	ASSAYS Cu.
				A16310	1537.0	1542.0	5.0	.002		
				A16311	1542.0	1547.0	5.0	.002		
				A16312	1547.0	1552.0	5.0	.005		
				A16313	1552.0	1557.0	5.0	.03		
				A16314	1557.0	1562.0	5.0	.005		
				A16315	1562.0	1567.0	5.0	.03		
				A16316	1567.0	1572.0	5.0	.005		
				A16317	1572.0	1577.0	5.0	N		
				A16318	1577.0	1582.0	5.0	.005		
				A16319	1582.0	1587.0	5.0	.005		
				A16320	1587.0	1592.0	5.0	.01		
				A16321	1592.0	1597.0	5.0	.002		
				A16322	1597.0	1602.0	5.0	.01		
				A16323	1602.0	1607.0	5.0	.002		
				A16324	1607.0	1612.0	5.0	.01		
				A16325	1612.0	1617.0	5.0	.005		
				A16326	1617.0	1623.0	5.0	.005		

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

PROPERTY	DETOUR LAKE	LATITUDE	202 + 00N	STARTED	April 16th, 1975
HOLE NO.	38 - 33	DEPARTURE	188 + 00E	FINISHED	April 20th, 1975
BEARING	180°	ELEVATION		LENGTH	813'
DIP-COLLAR	- 45°	SECTION		LOGGED BY	TERRY GATES

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
0	-45°	600	- 40°		
200	-41°	800	- 34°		
400	-39.5				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	127	CASING (124' OVERBURDEN)	
127	338	MAFIC LAVA	
		Medium grained, schistose (parts massive).. Schistosity varies from a low angle to core axis at the top to 45° - 55° to C.A. downhole. Composition of rock is amphibole, feldspar/quartz, and varying amounts of brown biotite. Silicification occurs throughout with a maximum (3-6" per 10') occurring at 350'. Quartz veining is generally accompanied by biotite and chlorite alteration. Section weakly mineralized with diss. po.	
		130: Schistosity 10° to C.A..	
		132.6: Ptymatic folding of quartz ll to C.A.	
		152: Schistosity 35° to C.A..	
		160 - 162: Grenulated, quartz rich.	
		165: 1½" calcite with 70% cpy.	
		167 - 170: Contains 3-5% clots of coarse brown biotite	
		172: 6" of intermediate tuff?	
		196: Schistosity 15° to C.A.	
		198: Schistosity 0° to C.A.	
		May be 3' of core ground at 138'.	
		200 - 280: Increase in silicification (2-4"/10') with sulphide increase. 5-1% diss. po. throughout. Fairly massive section.	
		218.9 - 220.8: Siliceous zone. May be individual bed 1-3% po. cpy.	
		230: 1' zone - fractured, silicified, 1% po cpy.	
		267: 3" quartz 1-2% po. py.	
		273: Schistose at 65° to C.A.	
		300 - 338: Rock, schistose. Top 45° 0° at 312 to 50° at 324'. Quartz veining increases. Veins generally 1" or larger.	
		322 - 323: 1' of quartz with minor po. py. cpy marcasite. Traces of visible gold and grey metallic mineral.	
		324 - 338: Massive mafic lava.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
13655	127	132	5.0	1.90				
13656	132	137	5.0	.35	.425 Cut to ½ oz			
13657	137	142	5.0	.13	.65 Uncut			
13658	142	147	5.0	.22	20'			
13659	147	152	5.0	T				
13660	152	157	5.0	.01				
13661	157	162	5.0	T				
13662	162	167	5.0	T				
13663	167	172	5.0	T				
13664	172	177	5.0	T				
13665	177	182	5.0	T				
13666	182	187	5.0	.01				
13667	187	192	5.0	.06				
13668	192	197	5.0	.02				
13669	197	202	5.0	.01				
13670	202	207	5.0	T				
13671	207	212	5.0	T				
13672	212	217	5.0	T				
13673	217	218.5	1.5	T				
13674	218.5	220.5	2.0	.02				
13675	220.5	222	1.5	T				
13676	222	227	5.0	T				
13677	227	232	5.0	.02				
13678	232	237	5.0	.01				
13679	237	242	5.0	.005				
13680	242	247	5.0	T				
13681	247	252	5.0	T				
13682	252	257	5.0	T				
13683	257	262	5.0	T				
13684	262	266	4.0	T				
13685	266	268	2.0	.005				
13686	268	272	4.0	T				
13687	272	277	5.0	T				
13688	277	282	5.0	.01				
13689	282	287	5.0	T				
13690	287	292	5.0	T				
13691	292	297	5.0	T				
13692	297	302	5.0	T				
13693	302	307	5.0	T				

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PROPERTY DETOUR LAKE HOLE NO. 38 - 33

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn	Pb
338	345.5	INTERMEDIATE ROCK Dark grey, fine grained. Composition - feldspar, quartz, amphibole brown biotite. Similar to intermediate in 38 - 31. Top contact sharp at 50° with 1mm band of pyrite. Aphantic to fine grained downhole. Section weakly mineralized with py, po.		13694	307	312	5.0	T				
				13695	312	317	5.0	.03				
				13696	317	322	5.0	.01				
				13697	322	324	2.0	.07				
				13698	324	327	3.0	T				
				13699	327	332	5.0	T				
345.5	360	MAFIC LAVA Similar to 127 - 338. Roack massive to coarsely schistose 1% diss. po.		13700	332	337	5.0	T				
				13701	337	342	5.0	T				
				13702	342	347	5.0	.03				
360	380.5	MAFIC TO INTERMEDIATE FLOWS Greenish grey, medium grained, massive to schistose rock. Quartz feldspar content higher in this section. H≃5.0. Quartz veining 2" - 3"/10'.		13703	347	352	5.0	T				
				13704	352	357	5.0	T				
				13705	357	362	5.0	T				
				13706	362	367	5.0	T				
				13707	367	372	5.0	T				
380.5	450.2	MAFIC LAVA Medium grained, greyish green. H:4-5. Quartz veining falls off slightly as does sulphides mineralization especially diss. po. Schistosity increases in intensity downhole being 50° to C.A. 390 - 410: Fracturing with CO_3 - quartz fillings more prominent in this section. Schistosity is 0 to 20° to C.A. Indications are that bed tops are to the south. 410 - 450.2: Overall increase in brown biotite content. Schistosity average 50° to C.A. 446.7 - 448: Silicified. Biotite rich. Chloritic alteration 1-3% po, cpy.		13708	372	377	5.0	T				
				13709	377	382	5.0	T				
				13710	382	387	5.0	T				
				13711	387	392	5.0	T				
				13712	392	397	5.0	T				
				13713	397	402	5.0	T				
				13714	402	407	5.0	.04				
				13715	407	412	5.0	T				
				13716	412	417	5.0	T				
				13717	417	422	5.0	T				
				13718	422	427	5.0	T				
				13719	427	432	5.0	T				
450.2	455.5	FRAGMENTAL - BRECCIA ZONE Consists of biotitic fragments in a fine grained siliceous matrix. For the most part indications are of an insitu brecciation but there may also be mafic lapilli. It is also significant to note that above and below this section quartz veining averaged 3" - 4" /10' while in this section there is none. Top contact is fairly distinctive at 45° to C.A. Section weakly mineralized with diss. po, py.		13720	432	437	5.0	.02				
				13721	437	442	5.0	T				
				13722	442	446	4.0	T				
				13723	446	448	2.0	.09				
				13724	448	452	4.0	T				
				13725	452	457	5.0	T				
				13726	457	462	5.0	.01				
				13727	462	466	4.0	N				
455.5	490	MAFIC LAVA (Similar to 380 - 450.2) Distinguishing feature(s) of this section is the sometimes banded appearance (chlorite, biotite quartz rich bands) due to the alteration surrounding quartz veining. Much of this section is of a schistose nature average 50° - 55° to C.A. Sulphide concentrations restricted mainly to quartz rich sections average 1-3% po, cpy, py and unidentified mineral which is being called marcasite. 467: $1\frac{1}{2}$" massive with marcasite.		13728	466	468	2.0	N		.02		
				13729	468	472	4.0	.003				
				13730	472	477	5.0	T				
				13731	477	482	5.0	1.69				
				13732	482	487	5.0	.02				
				13733	487	488.5	1.5	T				
				13734	488.5	492	3.5	T				
				13735	492	497	5.0	T				
				13736	497	502	5.0	T				
490	524.5	MAFIC LAVA Similar to 380.5 - 450.2. Silicification, sulphides and biotite, chlorite alteration drop-off perceptibly fracturing (quartz, calcite filled) at a low angle to C.A. more noticeably. Schistosity 50-55° to C.A. 517: 6" quartz with massive intervals of marcasite Minor po, cpy.		13737	502	507	5.0	T				
				13738	507	512	5.0	N				
				13739	512	516	4.0	T				
				13740	516	518	2.0	.06		.02		
				13741	518	522	4.0	T				
				13742	522	527	5.0	.08				
				13743	527	532	5.0	T				
				13744	532	537	5.0	T				
				13745	537	542	5.0	T				

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

PROPERTY DETOUR LAKE HOLE NO. 38 - 33

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
524.5	534	MAFIC TO INTERMEDIATE VOLCANIC (of similar composition to 360 - 380.5). Possible pyreclastic. Dark greenish grey. Has 1-2mm amphibole laths in an intermediate matrix. Contains 3-5% diss. po. Also characterized by micro lineations of felsic material at 55° and 10° to C.A. Both contacts indistinct.		13746	542	547	5.0	T				
				13747	547	552	5.0	T				
				13748	552	557	5.0	T				
				13749	557	562	5.0	T				
				13750	562	567	5.0	T				
				13751	567	572	5.0	T				
534	588.5	MAFIC LAVA		13752	572	577	5.0	T				
		534 - 542: Medium grained. Contains 5-10% 1-3mm dark green amphibole laths having a vague orientation ll to schistosity which is 50 - 55° to C.A..		13753	577	582	5.0	N				
				13754	582	587	5.0	N				
				13755	587	592	5.0	T				
		542 - 550.5: Medium to coarse grained. Amphibole in a fine grained siliceous looking matrix. Minor ¼" quartz veins.		13756	592	597	5.0	T				
				13757	597	602	5.0	N				
				13758	602	607	5.0	T				
		546: 1" massive py, marc with biotitic alteration.		13759	607	612	5.0	T				
				13760	612	617	5.0	.03				
		550.5 - 553: Fine grained, siliceous, greenish grey: similar to 524.5 - 534. Top contact distinct at 55° to C.A. Bottom gradational into medium grained mafic. If flow top then bed tops to north now.		13761	617	622	5.0	T				
				13762	622	627	5.0	T				
				13763	627	632	5.0	T				
				13764	632	637	5.0	T				
		553 - 588.5: Similar to 542 - 550.5. Minor quartz. Calcite stringers and odd blebs more noticeable. Schistosity 60° to C.A.		13765	637	642	5.0	T				
				13766	642	647	5.0	.02				
				13767	647	652	5.0	T				
				13768	652	657	5.0	.02				
588.5	595.3	PYRITIC INTERMEDIATE TUFF (Tuffite?)		13769	657	662	5.0	T				
		Dark grey black, fine to medium grained. Composition amphibole, feldspar/quartz, black biotite, 5-10% interstial calcite, 2-3% euhedral to anhedral diss. pyrite. Gradational from mafic - intermediate downhole. Both contacts distinct at 70° to C.A. Schistosity changes from 45° to 60° downhole. Adjacent mafic at top schistose at 70° to C.A.		13770	662	667	5.0	T				
				13771	667	672	5.0	T				
				13772	672	677	5.0	T				
				13773	677	682	5.0	.01				
				13774	682	687	5.0	T				
				13775	687	692	5.0	.01				
595.3	635	MAFIC LAVA		13776	692	697	5.0	.01				
		Medium grained, greyish green H:4-5. Amphibole 70% of rock. 5-7% calcite stringers and blebs (1-5mm.) Appear to be two sets of calcite stringers: 40-45° to C.A. and ll to 10° to C.A.		13777	697	702	5.0	T				
				13778	702	707	5.0	.01				
				13779	707	712	5.0	T				
		622.5 - 624.5: Fine grained H 3.0. Contacts fairly sharp. Vague impression of fragments; Majority of rock actinolite - tremolite.		13780	712	717	5.0	T				
				13781	717	722	5.0	T				
				13782	722	727	5.0	T				
				13783	727	732	5.0	T				
635	662	MAFIC LAVA FLOWS AND TUFFS.		13784	732	737	5.0	T				
		Generally fine grained, softer than usual (3-4) Composition: amphibole, feldspar/quartz brown biotite chlorite. Section schistose 45-55 to C.A..		13785	737	742	5.0	0.05		.06		
				13786	742	745	3.0	0.04		.16		
		635 - 648: Fine to medium grained. Banded - biotite rich chlorite rich. Banding (ll to schistosity) may be due in part to alteration by silicification. Contains 1% diss. po with few instances of massive stringers.		13787	745	746	1.0	.05				
				13788	746	748	2.0	.02		.17		
				13789	748	752	4.0	T		.07		
				13790	752	757	5.0	T				
		645 - 646.2: 5-10% po, minor py, cpy predom. stringers.		13791	757	762	5.0	T				
				13792	762	767	5.0	.02				
		648 - 662: Fine grained. Composition amphibole, brown biotite little feldspar/quartz. Weakly mineralized with po and py.		13793	767	772	5.0	0.01				
				13794	772	777	5.0	T				
				13795	777	782	5.0	T		.012		
				13796	782	787	5.0	T		.010		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
662	715.5	MAFIC (Chloritic Intermediate) Tuff (Tuffite?) and Mafic Lava Flows Generally a dirty looking rock - greenish grey (C.S.) dark green black (B.S.) Compositionally the same as before except for more actinolite tremolite and epidote. Fracturing still persistent with parts showing an increase. Bedding indistinguishable. Section schistose.		13797	787	792	5.0	.01		.05		
				13798	792	796	4.0	.07		.04		
				13799	796	798.5	2.5	.35		.86		
				13800	798.5	802	3.5	Tr		.05		
				13801	802	807	5.0	.005		.02		
				13802	807	813	6.0	Tr		.02		
		662 - 690: Fairly massive looking. May be mafic flow. Sulphides < 1%.= Little fracturing.										
		690 - 715.5: Fracturing increases substantially from above: as does brown biotite and sulphides. Many parts banded (Similar to 635 - 648). Epidote more common especially in silicified zones. Schistosity and/or bedding 60° to C.A. 1-2% diss. po, py overall.										
717.5	742	MAFIC TUFFS Fine grained, dark greyish green, banded and schistose at 55° to C.A. Quartz veining increases with a drop-off in calcite and brown biotite. Towards 742 sulphide mineralization increases to 2-3% po, py - vein type. Matrix quartz higher in this section. Parts of this may be lapilli - agglomerate. Fragments? Chloritic vague.										
742	747.8	CHERTY TUFF. Appears to be a continuous sequence from a cherty chloritic unit to a well bedded cherty rock to a sericitic (micro lineations) felsic and back to a bedded chert. Mineralization 3-10% py, minor po, cpy (Tr Zn), generally confined to the cherty zone. Bedding 55° to C.A.										
747.8	754.1	MAFIC TUFF Granular - amphibole, biotite in siliceous matrix. Bedded at 55° to C.A. H 3-4. Few Py, po stringers. Contains 1.5' of banded greyish white chert. Contacts sharp at 55° to C.A.										
754.1	765	FELSIC TUFF (Tuffite) Dark grey, sericitic, banded. Fine grained. H6.0. Parts tend towards an intermediate composition. Bedding 50° - 55° to C.A. Contains minor diss. of py throughout. Bottom contact ½" yellowish white cherty material.										
765	782.4	META VOLCANICS Gradational from a schistose chloritic soft rock to a schistose talcose, carbonaceous rock H 2:3. Talcose unit does not carry magnetite. Sections banded chloritic talcose which may indicate original bedding of tuff. Schistosity and banding at 60° to C.A.										
782.4	786.5	INTERMEDIATE TUFF Dark greyish brown fine grained. Contains 20 - 30% brown biotite, 3-5% grey blue quartz eyes. Bedding vague but 45-50? to C.A. 1-3% diss. po, py.										
786.5	800.5	META VOLCANICS Similar to 765. - 782.4. Chloritic. Top contact fractured 70% calcite for 1.5'. Schistosity 55° to C.A.										
		796 - 798: 60% quartz with 3-10% cpy, po, marcasite										
		798.4: 1½" gouge.										

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PROPERTY DETOUR LAKE HOLE NO. 38 - 33 Page 5

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS				
800.5	813.0	FELSIC TUFF, LAPILLI TUFF Grey fine to medium grained. Glassy rounded fragments in siliceous matrix. Gradational from a fine grained dacitic rock to a medium grained rock. (Flow?) Contains 3-10% grey blue quartz eyes, 1-2% diss. py, po Bedding (mineral lineation) 60° to C.A..										
		HOLE ENDED AT 813.0'.										

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

PROPERTY	DETOUR LAKES	LATITUDE	200 + 60N	STARTED	April 14th, 1975
HOLE NO.	38 - 31	DEPARTURE	188 + 00E	FINISHED	April 15th, 1975
BEARING	180°	ELEVATION		LENGTH	169'
DIP-COLLAR	- 45°	SECTION		LOGGED BY	TERRY GATES

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
0	-45°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	131	CASING (127' overburden)	
131	159	MAFIC LAVA Medium grained, massive to coarsely schistose. Composition - amphibole, plagioclase, quartz, biotite. Schistosity changes from 55° (top) 0° (155') to C.A. H:4-5. Few ½" - 1" quartz veins with chloritic and/or biotitic alteration. One calcite-quartz ½" vein with 15-20% cpy at 133'.	
159	166.7	INTERMEDIATE VOLCANIC Massive, dark grey. H≃5.0. Composition - quartz, feldspar amphibole. Gradational from fine to medium grained downhole. Top contact zone fractured with quartz - calcite fillings. Bottom contact fairly sharp at 65°. Has ½" of finer grained rock adjacent to below mafic. Indicates bed tops to north.	
166.7	169	MAFIC LAVA Similar to 131 - 159.	
		END OF HOLE.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
13647	131	137	6.0	T
13648	137	142	5.0	N
13649	142	147	5.0	N
13650	147	152	5.0	.005
13651	152	157	5.0	T
13652	157	162	5.0	N
13653	162	167	5.0	N
13654	167	169	2.0	T

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

PROPERTY	DETOUR LAKE	LATITUDE	L 256 EAST	STARTED	April 24th, 1976
HOLE NO.	38W-12	DEPARTURE	221 + 50 NORTH	FINISHED	April 26th, 1976
BEARING	180°	ELEVATION		LENGTH	611 FEET
DIP-COLLAR	- 45°	SECTION		LOGGED BY	W. MELNYK

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200	43°				
400	35½°				
600	30½°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	20.0	CASING	
20.0	23.8	MAFIC FLOW This is a greenish brown mafic flow which has been silicified and bio. and is typified by alternating biotitic and chl. bands. The rock is banded irregularly at 50° W.C.A. Sulphide mineralization consists of py and po occurring as fracture fillings.	
23.8	53.9	INTERMEDIATE FLOWS Original nature of this unit is doubtful but now consists of bio, chl., and a great deal of quartz. This unit is siliceous, brown-due to the bio. and locally contains chloritized fragments of mafic material. The top 15' contain a few mafic fragments - inclusionswhich don't exceed 4". Unit is medium grained, but 'fines' in odd places where the rock almost appears cherty. Unit is a mixture of well banded portions and irregularly contorted bands of bio. and chl. material. Banding of biotite material is at 50o. Sulph. min. consists of veinlets and diss. of py, po, approx. 5-7%.	5-7% po, py
53.9	58.6	CHERT This is a purplish-white chert unit which is thoroughly heterogeneous as cherty bands are contorted, brecciated and locally chloritized. The pine cherty sections are purple with white and green bleached areas and are weakly mineralized in finely diss. py.	
58.6	59.2	MAFIC FLOW A chloritized, epidotized, light green mafic unit, medium grained and min. in po at 10% occurring as diss. blebs. The top contact is regular at 60° W.C.A., while the bottom contact is thoroughly contorted and it appears that the mafic unit has tumbled onto soft cherty material thoroughly disrupting and brecciating it.	10% po
59.2	66.9	FELSIC TUFT This is a purplish felsic rock containing some brown bio. in the matrix resulting in the colour. There is a variance in grain size and banding over the length is prominent at 35-45o . The bio. and chl. content in this unit is signi. such that the classification is questionable. Sulph. min. consists of py and po as fracture fillings and conformable whisps to 10% combined.	10% po, py

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
A21001	40	45	5	.005
A21002	50	55	5	.005
A21003	60	65	5	.005
A21004	65	70	5	.005
A21005	70	75	5	.005
A21006	75	80	5	.005
A21007	100	105	5	T
A21008	105	110	5	.005
A21009	110	115	5	.005
A21010	159	164	5	.005
A21011	169	174	5	T
A21012	174	179	5	T
A21013	184	189	5	T
A21014	199	204	5	T
A21015	230	235	5	T
A21016	305	310	5	T
A21017	315	320	5	T
A21018	330	335	5	T
A21019	335	340	5	.005
A21020	535	540	5	.005

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
66.9	68.0	MAFIC TUFF A dark green, medium grained, chloritized mafic unit mineralized in diss. py to 5%. Foliation of chlorite at 60° to W. C. A. Both contacts are sharp at 40°.						
68.0	68.9	FELSIC TUFF This is a green felsic unit, fine grained, chloritized irregularly bedded, and is mineralized in diss. py to about 3-4%. Most important is that at the bottom of this section a thin 1/8" band of py and sph. is bedded conformably with the tuff - probably the end product of acid volcanism.						
68.9	70.8	MAFIC TUFF - Similar to 66.9 to 68.0. Well bedded at 55° W. C. A. varying bio. content. Sulp. content is weak with only diss. py.						
70.8	77.6	INTERMEDIATE FLOW - Similar to 23.8 - 53.9. This unit is siliceous variable in colour due to varying amounts of chl. brown and black bio. Banding is at 45° W. C. A. and irregular. Sulphide min. consists of py and minor po to 7% in the form of lenses and blebs. Tr of sph. at bottom contacts.						
77.6	79.3	FELSIC TUFF A grey, fine grained, massive, homogeneous unit containing white altered fragments to 1mm in size. Sulph. consist of weak diss. of py. Bottom contact is sharp at 45° W. C. A.						
79.3	86.0	MAFIC TUFF - Similar to 66.9 - 68.0 Light green, coarse bio. rich with 5% diss. py. 83.0: 0.5 quartz vein, barren, irr. contact.						
86.0	90.6	MAFIC FLOW Fine grained, black, silicified, chl. and weakly bio. Weakly min. in diss. and blebs of py.						
90.6	92.5	MAFIC FLOW Coarse grained, green, mafic unit. Odd feldspar crystals are altered k-spar - a very distinguishing feature. Core surface is also speckled with pyroxene crystals to .5mm.						
92.5	93.1	INTERMEDIATE FLOW Fine grained, homogeneous, massive, brown, not as siliceous as other intermediate rocks. This rock contains a great deal of fine grained brown biotite. Weakly min. in diss. py. H. 4.5.						

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PROPERTY DETOUR LAKE HOLE NO. 38W-12

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
93.1	93.8	MAFIC TUFF - Same as 66.9 - 68.0 Weak diss. of py. Contacts and foliation of bio. at 60° W.C.A.						
93.8	100.2	INTERMEDIATE FLOW - Same as 92.5 - 93.1 This unit contains few ~~odd~~ 1/8" siliceous bands. Tr of sulph. py near bottom. Some banding of coarser fraction at 60° to C.A.						
100.2	111.1	MAFIC AGGLOMERATE AND FLOW BRECCIA This is an extremely chaotic assemblage of mafic material including some felsic fragments. The matrix is mainly mafic material - chl. and epidotized although the initial two feet are barren and of intermediate character. The entire unit contains felsic fragments that are subrounded - ellipsoid to 12mm - though commonly 5mm. Other fragments are of mafic nature and are often time angular. Vague bedding at 60° W.C.A. Sulph. min. consists of py diss. to 5%.						
111.1	131.0	MAFIC FLOWS AND FLOW BRECCIA Again a chaotic assemblage of mafic material, although appears as though most of the material is of the flow variety. Felsic fragments are present but not abundant. Rather, this unit contains mafic fragments at spaced intervals which would appear to be flow-top breccias - in which case the flows are very thin. This unit is silicified only in odd places - breccia zones which are 0.4 - 0.5 feet and generally containing k-spar. Quartz, epidote and small amounts of py. Foliation is at 60°.						
131.0	133.7	FELSIC TUFF This is a light grey, medium grained tuff banded at 50° W.C.A. Unit is weakly chl. contains k-spar alteration along fractures. Tr of diss. py.						
133.7	152.5	MAFIC FLOW - Similar to 111.1 - 131.0 A sequence of thin, disrupted flows some of which are vesicular. Indications are that drilling is proceeding from bottom to top of the sequence. Very weakly mineralized.						
152.5	158.2	MAFIC FLOWS This section could be a conglomeratic section as this unit contains a small amount of breccia, minor flow, some felsic material and possibly a small amount of sediment. This unit is characterized by large amts. of chl.bio, and feldspar. Odd feldspar fragments range to 10mm. Sulphide min. is restricted to blebs of py. Vague banding is at 45o W.C.A.						

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
158.2	176.3	INTERMEDIATE AGGLOMERATE This is a fairly consistant unit, bedded over most of the interval. This unit has a siliceous matrix which has been chl. bio. and contains fragments of felsic to mafic comp, of equal amounts. The mafic fragments are generally chloritized and range from 5-8mm in size. The felsic fragments are ellipsoid and drawn-out, the mafic fragments a re both angular and rounded. Some felsic fragments are to 20mm in length - drawn out. Sulph. min. consists of diss. blebs, and fracture fillingsof py.						
176.3	179.5	MAFIC FLOW Fine grained, massive, chloritized, fine to med. grained, dark green, in colour, Odd blebs of py. 180.0: 1/8" veinlet of py at 20° W. C. A.						
179.5	181.0	INTERMEDIATE FLOW Typical biotite-rich, fine grained flow. Very weakly mineralized in diss. py.						
181.0	183.0	MAFIC FLOW This is a coarse grained green mafic flow, massive. Core surface speckled by black crystals of pyroxene. Quartz-carb. fracture fillings near bottom of interval. Weakly diss. py. Contacts irregular.						
183.0	198.8	INTERMEDIATE AGGLOMERATE This is a chaotic section of volcanic material, thoroughly mixed -up. The matrix is of intermediate character - bio. rich and siliceous. The majority of fragments are mafic , chl., and subrounded. Fragments range in size from < 1mm to 6cm. Fragments are not sorted and for the most part bedding is non-existant, though at 186.0 a weak lineation of fragments is at 40° W. C. A. Unit is locally silicified. Sulph. min. is weak over the most part with only tr of py and blebs of po. 186.6: 0.5' of magnetite, py and po in assoc. with a large 0.8' inclusion of mafic material.						
198.8	202.6	INTERMEDIATE FLOW This is a fine grained unit, thoroughly siliceous, homogeneous and massive. The inter. nature is typified by the dark grey to black colour c aused by a fairly larger fine grained bio. content. This is not the typical intermediate unit. Sulph. 5-7% diss. py. Vague bedding near bottom of section at 65°.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
202.6	205.1	INTERMEDIATE TUFF This is a vaguely bedded, chloritized intermediate tuff unit varying from bedded near the top of the interval at 65° W.C.A. to massive over the remainder of the interval. The chlorite content increases with depth such that the rock is a green colour vs. brown near the top. Sulph. min. is weak - vaguely stratiform py in bedded portion - otherwise barren.						
205.1	211.5	MAFIC FLOW BRECCIA There are physical similarities to 183 - 198.8 except that the matrix is mafic as are the fragments. The fragments and part of the matrix are altered (chloritized) extensively. Few short sections are silicified Fragments range in size from 1mm to >20mm. K-spar alt. near fractures.						
211.5	241.7	FELSIC FLOW This is a grey felsic unit varying somewhat in colour due to varying amounts of chlorite and biotite. This unit is homogeneous over the entire interval and is weakly min. in diss. py 2-3%. Flow banding is prominent at 60° W.C.A. this unit is weakly porphyritic in the initial 10' although the feldspar phenos. have been extensively resorbed. This unit is distinguished by prominent k-spar alt. along chloritic fractures. 215.0 - 223.0: Core lost 225.8 - 226.6: Mafic tuff 239.9: 2" mafic tuff, bedding at 60° W.C.A.	—					
241.7	245.5	MAFIC FLOW This unit is similar to previous mafic units except that this flow contains large altered crystals of pyroxene that have been almost completely destroyed by flow action. The unit is extensively amphibolitised and chloritized. The core surface is characterized by large rounded, abrased, altered pyroxene crystals which are to 8mm in diameter and crudely bedded at 60° W.C.A. The crystals are interbedded by thin contorted bands of finer grained material. This unit is not magnetic and very weakly mineralized with py, mainly as fracture fillings.						
245.5	248.2	FELSIC FLOW - Same as 211.5 - 241.7 Unit is brecciated and pinkish over entire interval. Fractures are lined with chlorite. Tr sulphide.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
248.2	257.1	MAFIC FLOW - Same as 241.7 - 245.5 Coarse grained, weakly mineralized, massive, carbonate healed fracture.						
257.1	261.1	FELSIC TUFF Grey, fine-med. grained, irregularly bedded at 60° W.C.A. alternating grey and white bands - some -k-spar alt. along fractures, massive, weakly mineralized in py. Contacts sharp at 60°.						
261.1	268.1	MAFIC FLOW - Same as 241.7 - 245.5 Coarse grained.						
268.1	268.8	FELSIC TUFF - Same as 257.1 - 261.1 Bedded at 60°.						
268.8	270.0	MAFIC FLOW - Same as 241.7 - 245.5 Coarse grained.						
270.0	271.8	FELSIC TUFF - Same as 257.1 - 261.1 Deep pink colour near bottom of interval.						
271.8	279.5	MAFIC FLOW - Same as 241.7 - 245.5 Grain size is variable bedding is prominent. Greater leucocratic content near bottom.						
279.5	283.3	FELSIC TUFF - Same as 257.1 - 261.1 K-spar near fractures, py lining fractures.						
283.3	284.0	MAFIC FLOW - Same as 241.7 - 245.5 Fine grained.						
284.0	285.2	FELSIC TUFF - Same as 257.1 - 261.1						
285.2	318.0	MAFIC FLOWS Medium grained, green, chloritized mafic flows, fairly homogeneous comp. mineralized in specks of py - 3%. Bedding is well preserved at 60° W.C.A. Top 5' are characterized by presence of white feldspar crystals to 30%. Top flow also contains a few pink feldspar crystals. 290.0 - 290.8: 9 thin ¼" bands of siliceous material. 292.0: 2 - 3/4" febands of siliceous material. 293.5: 1½" felsic tuff material at 60°, 298.8: 2" felsic tuff material at 60°. 303.5: 4" felsic tuff material at 60° 304.2 - 304.8: Felsic tuff 307.7: ½" felsic tuff at 60°.						

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
318.0	360.2	FELSIC AGGLOMERATE This is a very prominent and easily identified unit characterized by white rounded felsic fragments, which range in size from 1mm to 25mm although 10mm is average, set in a light green chloritic matrix. The fragments in this section are not uniformly distributed but are restricted to certain intervals. Smaller felsic fragments 2mm and less have been extensively resorbed while the larger fragments are strongly resorbed around the edges such that their edges are serrated. The matrix is composed of medium grained pyroxene, chlorite, coarse brown biotite, and 8-10% py. The py occurs as diss. scatterings of euhedral grains. The matrix is vuggy - vugs range in size from 1-3mm. This unit is not fractured and does not contain any quartz veining.						
360.2	376.3	MAFIC FLOWS Light green sequence of mafic flows with a white feldspar content to 30%. Unit is massive weakly banded at 60° W.C.A. Sulphide content is minimal at 2% py. 368.0 - 368.5: Felsic tuff						
376.3	611.0	FELSIC AGGLOMERATE - Same as 318.0 - 360.2 Fairly consistent unit similar to previous section same felsic fragments and chloritic matrix. 376.3 - 444.0: Matrix is fine grained and chloritic. 513.0 - 520.0: Matrix is fine grained and chloritic.	—					
	611.0	END OF HOLE						

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

						DIP TEST					
PROPERTY	ATKINSON LAKE	LATITUDE	L 550 EAST	STARTED	April 17th, 1976	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	29 - 1	DEPARTURE	149 + 00 NORTH	FINISHED	April 20th, 1976	200'	43°				
BEARING	210°	ELEVATION		LENGTH	503 FEET	400'	42½°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	W. MELNYK						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
0	160.0	CASING		A1782	220	225	5	T	N.D.	.004	.005
				A1783	230	235	5	T	N.D.	.002	.015
160.0	177.3	GRAPHITIC MAFIC TUFF		A1784	235	240	5	T	N.D.	.006	.005
		Thinly bedded green, chloritized mafic tuff interbedded with a black,		A1785	270	275	5	T	.03	.006	.007
		barren graphitic unit. This unit is very badly broken-up such that only		A1786	290	295	5	T	.03	.006	.008
		pebbles or broken pieces of rock remain.		A1787	320	325	5	T	N.D.	.004	.005
		Bedding is at 40° W.C.A. Quartz-carb. veining is represented by		A1788	325	330	5	T	N.D.	.003	.008
		broken only.		A1789	330	335	5	N	N.D.	.004	.006
		No sulphides present.		A1790	335	340	5	N	.01	.006	.018
		166.5 - 172.0: No core recovered.		A1791	340	345	5	T	N.D.	.008	.031
				A1792	345	350	5	T	N.D.	.004	.022
177.3	182.0	FELSIC FLOW.		A1793	355	360	5	T	N.D.	.007	.007
		This is a grey siliceous unit that has been very badly broken up and		A1794	405	410	5	T	N.D.	.005	.007
		extensively fractured. The paleo-fractures are lined with light-green		A1795	410	415	5	N	N.D.	.007	.007
		chlorite, epidote. Sulphide mineralization is negligible.		A1796	480	485	5	N	N.D.	.005	.007
		181.2 - 182.0: Quartz vein, broken, barren.									
182.0	186.0	MAFIC FLOW									
		This is a chloritized, massive, unit, barren. Only 2' of core									
		recovered - difficult to identify origin.									
		183.0 - 185.0: No core recovered.									
186.0	193.0	GRAPHITE									
		This is a thinly bedded graphitic unit, weakly mineralized in diss.									
		py. Bedding is constant at 45° W.C.A. this unit is soft - probably a									
		carbonaceous mudstone.									
193.0	217.4	MAFIC TUFF									
		This is a fine grained, light green mafic unit with a number of differences									
		compared to the typical mafic tuff. This tuff is soft, H - 3.5., fairly									
		homogeneous, fine grained through the entire interval, and lighter coloured									
		coloured than normal.									
		The typical mineralogical make-up also varies somewhat as chlorite is of									
		secondary prominence as compared to serpentine (?). Irregular									
		bedding is again prominent, and locally carbonate veining is significant.									
		Bedding is at 55°									
		No sulphide mineralization.									

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

PROPERTY ATKINSON LAKE HOLE NO. 29 -1

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
217.4	238.8	CHERTY TUFF This is a light greenish-white felsic unit, varying in grain size from fine-medium grained. The fine-grained portions are oftentimes cherty. The unit is massive and bedded vaguely at 45° W.C.A. The greenish tinge of the rock is caused by a small chlorite content. Minor amounts of serpentine are also present. Small altered white fragments (1mm) are present and scattered randomly over the interval.						
238.8	318.0	MAFIC TUFF - Similar to 193.0 - 217.4. This unit is possibly slightly more mafic than previous mafic unit but is otherwise similar in all respects. Bedding is irregular at 40° W.C.A. 271.5 - 272.5: Siliceous zone, tr py, irregular contact. 292.1 + 2" sil. zone, barren, 45° W.C.A. 317.6: 1½" sil. zone, barren, Irregular 318.0: 1" sil, barren. 90° W.C.A.						
318.0	326.0	FELSIC TUFF This is an altered felsic units with chlorite occupying thin areas between siliceous rich portions. The rock is weakly sericitized. Rock is massive, bedding may be parallel with chloritic and siliceous bands at 40°. Sulphide mineralization is weak, tr of py and po.						
326.0	350.1	GRAPHITE This unit is thinly bedded over the entire length and contains variable amounts of carbonate and biotite, although graphite is the major constituents. Sulphide mineralization consists of stratiform lenses of py in the poor graphitic sections. Small amounts of po are also present. No economic mineralization. Bedding is at 60° W.C.A. 326.0 - 330.0: 50% graphite, 50% carbonate. 346.0 - 350.1: Contains 1mm fragments, altered, white, bedded.						
350.1	353.2	FELSIC TUFF This is a light coloured, sericitized, chloritized unit which may have been a felsic unit originally. Odd bands of siliceous material would indicate a felsic origin. Unit is soft, H:3.0, and weakly mineralized in diss. po. Bedding is irregular, where preserved by the siliceous bands at 55o W.C.A.						

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

PROPERTY ATKINSON LAKE HOLE NO. 29-1

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
353.2	503.0	MAFIC TUFF This is a reasonably homogeneous sequence of mafic tuffs which are characterized by a number of features. These tuffs have been altered extensively - chlori tized, serpentinized, and carbonitized; consequently this unit is soft through the entire length and is light green in colour. The carbonate content decreases the intensity of the original green colour. Bedding of this unit is regular over the most part at 45° W.C.A. - a departure from normal tuffaceous bedding. Carbonate occurs as, veinlets conformable with the bedding, and as an integral part of the matrix. Grain size of this unit varies from fine-medium and there is generally a biotite increase with the coarser fractures. Quartz veining and silicification is minimal but there present is generally barren although an increase in chlorite content is noted. Odd thinb bands of graphitic material are also present. 357.0 - 357.6: 7" sil. barren, Irregular banding. 408.0: 1½" sil. barren, 50° W.C.A. 410.5: 2½" sil. barren, 55° W.C.A. 426.0: 1½" sil. barren, 55° W.C.A. 448.0: 1½" sil barren, 50° W.C.A. 471.0: 2" sil. barren, Irregular. 483.8: 1" sil. barren, 50° W.C.A. 484.0: 1" sil. barren. 50° W.C.A.								
	503.0	END OF HOLE									

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

						DIP TEST					
PROPERTY	ATKINSON LAKE	LATITUDE	L404 EAST	STARTED	April 12th, 1976	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	31-3	DEPARTURE	181 + 00 NORTH	FINISHED	April 14th, 1976	200'	43½°				
BEARING	180°	ELEVATION		LENGTH	570'	400'	40°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	W. MELNYK	570'	37°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	32.0	CASING	
32.0	53.3	MAFIC FLOWS	
		This unit consists of two mafic flow units.	
		32.0 - 47.3: The first flow is coarse grained, massive, dark green, andesitic - basaltic in comp. Fracturing is weak and minor quartz veining is present. Unit is mineralized in diss. po. A small feldspar content in the rock is represented by minute white specks through length.	
		39.3: ½" q.v. , po, tr cpy, 35° W.C.A.	
		45.5: ½" q.v. , Barren, 15° W.C.A.	
		47.3 - 53.3: This mafic flow is much finer grained than the previous flow, is brecciated extensively, and subsequently the brecciated pieces have been cemented by quartz-carb. Weak sulphide mineralization is present, assoc. with the quartz-carb. including py, po and tr cpy near the bottom of the section. This unit is chloritized to a greater degree than the previous flow. Contact between flows is 25°.	
53.3	55.3	FELSIC TUFF	
		This is a grey, homogeneous unit, containing fragments over the entire length which range in size from ½mm to 2mm. A slight greenish tinge of the rock is probably due to a minor chlorite content. Sulphide mineralization is nil.	
55.3	90.3	MAFIC FLOWS	
		This is a sequence of massive, fine grained, green mafic flows, weakly porphyritic. Sulphide min. is very weak and is generally related to quartz veining.	
		57.0: 2" q.v. Barren, 45° W.C.A.	
		63.8: 1½" q.v., py 45° W.C.A.	
		The final 8.0' of this unit contains quartz-carb. veining parallel with the C.A. This section contains weak sulphide mineralization - py and tr cpy.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
A1741	90	95	5	T	.01	.023	.007
A1742	95	100	5	T	.02	.011	.006
A1743	110	115	5	.005	N.D.	.013	.002
A1744	115	120	5	T	.01	.011	.004
A1745	120	125	5	T	N.D.	.019	.007
A1746	125	130	5	T	N.D.	.020	.006
A1747	130	135	5	T	N.D.	.008	.005
A1748	135	140	5	.005	.01	.023	.005
A1749	160	165	5	T	N.D.	.022	.005
A1750	165	170	5	T	N.D.	.008	.005
A1751	170	175	5	T	.01	.014	.004
A1752	175	180	5	T	N.D.	.006	.004
A1753	180	185	5	T	N.D.	.009	.004
A1754	185	190	5	T	N.D.	.035	.004
A1755	190	195	5	T	.01	.036	.011
A1756	195	200	5	T	.01	.055	.006
A1757	200	205	5	T	N.D.	.014	.006
A1758	205	210	5	T	N.D.	.018	.002
A1759	210	215	5	T	N.D.	.017	.006
A1760	215	220	5	T	N.D.	.014	.004
A1761	220	225	5	T	N.D.	.010	.003
A1762	225	230	5	T	.02	.009	.005
A1763	230	235	5	T	N.D.	.018	.003
A1764	300	305	5	T	N.D.	.021	.006
A1765	305	310	5	T	.03	.016	.005
A1766	310	315	5	T	.03	.015	.005
A1767	315	320	5	T	.02	.013	.005
A1768	320	325	5	T	.01	.005	.007
A1769	325	330	5	T	N.D.	.001	.003
A1770	330	335	5	T	.01	.006	.002
A1771	335	340	5	T	.03	.010	.011
A1772	340	345	5	T	.01	.011	.005
A1773	345	350	5	T	.02	.006	.005
A1774	350	355	5	T	.03	.015	.008
A1775	355	360	5	T	.03	.018	.007
A1776	360	365	5	T	.02	.010	.006
A1777	365	370	5	T	.01	.015	.006
A1778	370	375	5	T	.02	.007	.007

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
90.3	96.1	MAFIC TUFF This is the typical irregularly bedded, green, fine grained, partially silicified mafic tuff. Portions of core have been chloritized. This tuff is fiarly homogeneous and contains strataform whisps and lenses of py and po with only tr of cpy. Sulphide content generally increases near silicified portions of core. 920.0: 6" q.v., minor py, po, 45° W.C.A. Bedding approximately 45° W.C.A.	10% po, py, tr cpy	A1779	375	380	5	T	N.D.	.009	.004
				A1780	380	385	5	T	.02	.012	.007
				A1781	385	390	5	T	.01	.012	.007
96.1	113.6	FELSIC FLOWS This is a sequence of greyish green porphyritic felsic flows very weakly mineralized in po, py. Feldspar phenos. are gnerally anhedral to subhedral and range to 3mm, though averaging 2mm in length and are generally white. Occasionally the phenos. are found in aggregates. Portions of this unit are brecciated and the matrix is extensively chloritized. Contained foreign fragments are generally also extensively chloritized. 113.6: $\frac{1}{3}$" q.v., po, py, 60° W.C.A.									
113.6	116.0	CHERTY TUFF This is a purplish-grey cherty section weakly mineralized in py and po. Unit is weakly fractured and these are generally infilled with chlorite and tr of biotite. 115.0: 3" section of fragmentic felsic material. The lower 1.0' is a mixture of cherty and mafic tuff material.									
116.0	117.5:	MAFIC TUFF - Similar to 90.3 - 96.1. Weakly mineralized in py, po and tr cpy. Irregularly bedded at 75° W.C.A.									
117.5	132.7	MAFIC FLOWS This section is very similar to 47.3 - 53.3. This section is extensively brecciated, silicified, chloritized and mineralized. Band of chloritic material from 127.0 - 131.0 would indicate that drilling is proceeding down-dip for this short interval. Sulphides are generally associated with siliceous zones and consist of py, po and po and tr cpy to a total of 8-10%.	8-10% po, py, tr cpy								
132.7	174.0	MAFIC FLOWS This is a fine grained sequence of mafic flows, weakly porphyritic and similar to 55.3 - 90.3. The rock is not altered but does contain localized silicified areas which are mineralized in py, po and tr cpy. Quartz veining is minimal.									

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
132.7	174.0	CONTD.						
		137.5: $1\frac{1}{2}$" sil., po, py, tr cpy. 60° W.C.A						
		141.4: 3/4" q.v., po, tr py, tr cpy. 40° W.C.A.						
		143.8: 2" sil. po, Irregular contacts.						
		163.5: 2" sil. po, py, tr cpy, Irregular contacts.						
		164.5: 2" fracture fillings of po, py.						
		167.0: Smears of cpy along fractures.						
		Lower portion of this unit is "scrambled-up", fine grained and partly silicified. Lower contact 50° W.C.A.						
174.0	175.5	FELSIC TUFF						
		This is a homogeneous dark grey-purplish felsic unit containing white irregular fragments which range in size from 1 to 3mm.						
		Fractures are chloritized and weakly mineralized in diss. py.						
		Lower contact 60° W.C.A.						
175.5	188.6	MAFIC FLOWS						
		These are fine grained flows containing amarked increase in silicification and quartz veining. Sulphide mineralization increases as well but is exclusively related to the quartz-rich portions of rock.						
		185.8: 3/4" q.v., po, minor py, tr cpy.						
		This unit grades into the next unit.						
188.6	198.0	INTERMEDIATE FLOW	10%+ po, py, tr cpy					
		This unit is lighter coloured and richer in quartz than previous mafic units but could very well be an intensely altered equivalent of a mafic flow. The rock is extensively chloritized, biotized and may contain some serpentine. A weak brecciation adds to the intensity of alteration This is the only unit that contains any encouraging cpy.						
		189.5 - 190.5: Silicified, biotized, contains po, cpy and py to a total of 30%. Cpy occurs as fracture coatings through this interval.						
198.0	210.9	MAFIC FLOWS						
		This is a sequence of fine grained mafic flows, very weakly mineralized in quartz vein, and silicification. This unit is broken up extensively in the upper portions and fractures have subsequently been healed by quartz-carbonate. The final 1.0' are extensively biotized and contain some veined py and po.						
210.9	213.5	FELSIC TUFF - This is very similar to 174 - 175.5. The physical appearance is very similar to the referred -to unit except that this unit does exhibit bedding features by varying colorations of siliceous bands. which trend at 50° W.C.A. White fragments are especially prominent at either end of the section and range to 3mm in size. Fragments in						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
210.9	213.5	CONTD. the central portion have been thoroughly altered. Unit is weakly mineralized in diss. and fracture coatings of po. Top contact is at 35°.						
213.5	266.1	MAFIC FLOWS This is a sequence of medium-green, homogeneous, massive, fine-med. grained mafic flows, barren for the most part, containing only scattered quartz veins most of which are barren. Feldspar content is slightly more noticeable than normal. Weak fracturing has been subsequently healed by quart-carb. material. 226.0: 2" q.v., barren, 25° W.C.A. 236.0: 1½" q.v., barren, 60° W.C.A. 237.2: ½" q.v., barren, 80° W.C.A.						
266.1	282.7	FELSIC FLOW This is a massive homogeneous felsic unit containing diffuse feldspar crystals in a purplish-greenish matrix. Varying amounts of chlorite and biotite are responsible for the matrix colouration. The C.S. is spotted with blotchs of epidote, some of which reach to 1cm in length. This unit is very weakly mineralized in diss. py.						
282.7	312.5	MAFIC FLOWS This is a sequence of fine-medium grained mafic flows, containing short interflow section of bedded fine grained material which appears tuffaceous. Some of the tuffaceous material contains weak sulphide mineralization. 307.5 - 308.2: Mineralized agglomeratic section, containing 30% po, minor py, tr cpy, Weakly silicified. 309.0: Flow banding at 50° W.C.A. 300.8: 1½" sil. epidote, barren, 75° W.C.A. 301.3: 1" sil., cpy, po, 60° W.C.A.						
312.5	321.2	CHERTY METASEDIMENT This is a thoroughly mixed-up unit consisting of brownish cherty material intermixed with coarse brown biotite, feldspar, epidote and some chlorite. The biotite is fairly prominent and occurs as irregular bands at 75° W.C.A. The unit is mineralized throughout with po to 10% and minor py. The sulphides are stratiform. The final 5' show an appearance and gradual increase of green fine-grained mafic tuff material. Sedimentary material is of less significance.	10% po, minor py					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
321.2	323.0	FELSIC FLOW This felsic unit is grey, weakly banded, containing chloritized, epidotized fragments through length. Bands of varying colour are separated by thin whisps of biotite at 50° W.C.A. Sulphide mineralization is sparse at about 5% po and py occurring as diss. grains and thin lenses. Bottom contact at 90° W.C.A.						
323.0	324.4	METASEDIMENT Very similar to 312.5 - 321.2. This short section is coarse biotite rich, and contains more mafic tuff material than previous section. 323.4: ½" sil. py, 70° W.C.A. 323.5: ½" sil. tr po, 70° W.C.A.						
324.4	336.5	FELSIC FLOW - Similar to 321.5 - 323.0. This unit is banded over most of the interval at 60° W.C.A. Phenos. of feldspar are rounded, anhedral, white, 2mm in size and sparsely distributed. Sulphide mineralization is sporadic, scattered. 328.5: 1½" wil., minor po, py, 70° W.C.A. 332.6: 1" q.v., barren, 35° W.C.A. 332.7: ½" q.v., barren, 35° W.C.A. 334.1: ½" q.v., barren, 90° W.C.A. 334.6: 5" sil. tr sulphides, Irregular 336.0: 5" sil, po Irregular						
336.5	339.2	METASEDIMENT - Similar to 312.5 - 321.5. This unit is irregularly bedded and contains bands of coarse brown biotite, clots of light green chlorite, irregular blebs of quartz and thin lenses of light brown (buff) chert. Bedding is anywhere from 70-90° W.C.A. Sulphide mineralization is restricted to odd blebs of po.						
339.2	397.3	MAFIC FLOWS This is a scrambled mafic section of flows with short sections of tuffaceous material. Feldspar content varies considerably over short intervals and for the most part these mafic rocks are fine-medium grained. Quartz veining and silicification is of minor significance, consequently sulphide min. is weak and generally occurs as isolated blebs of po, or sulphide associated with quartz. Portions of the rock have been chloritized and epidotized and contains some sulphide. Odd tr of cpy occur over this entire length. 349.4 - 350.0: Felsic lava, purple - epidotized fragments. 346.5 - 348.0: Felsic lava, fine grained, weakly porphyritic. 375.4 - 378.2: Felsic lava, purple - epidotized phenos.						

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
397.3	439.5	FELSIC FLOW This is a sequence of felsic flows which are porphyritic over the entire length with white feldspar phenos. set in a brownish matrix which owes its colour to a small biotite content. Sulphide content is very weak with only tr of diss. po and py. Unit is not fractured, is no quartz veining. 438.0: Flow banding 40° W.C.A. Bottom contact sharp at 70° W.C.A.						
439.5	450.8	MAFIC FLOWS This is a motley association of mafic material, mainly fine grained and light green- probably portions of flows. This unit is characterized by thin irregular white aphanitic (cherty?) bands over the entire core length and varying colourations of green. Sulphide content is minimal. Variously orientated fractures are healed by quartz-carbonate.						
450.8	455.3	FELSIC TUFF This is a homogeneous, grey, fine grained, banded felsic unit containing fragments which average 1mm in size are white, locally resorbed, and rounded. Sulphide content is nil. 453.5 - 453.8: 4" mafic tuff Bedding 60° W.C.A.						
455.3	460.0	MAFIC TUFF This is a fine grained, irregularly bedded, green mafic unit, well bedded at 65° W.C.A. and containing scatterings of sulphide. Bedding is indicated by varying colourations of mafic material and probably slight chemical variations.						
460.0	460.5	FELSIC TUFF - Same as 450.8 - 455.3. Traces of py and po. Contacts at 55° W.C.A.						
460.5	464.5	MAFIC TUFF - Same as 455.3 - 460.0. Bedding at 55° W.C.A. Weak py and po.						
464.5	468.9	INTERMEDIATE TUFF This is a thinly bedded siliceous, homogeneous unit containing a great deal of fine-medium grained brown biotite. The unit itself is medium grained and weakly mineralized in po lineation of biotite is at 60°W.C.A. and constant. Fragments are scattered randomly through interval, average about 1mm and are partially resorbed.						

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PROPERTY ATKINSON LAKE HOLE NO. 31 - 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
468.9	479.9	MAFIC FLOW This is a fine grained mafic unit, massive and weakly fractured at various orientations. Mineralization is weak, blebs of py and po.						
479.9	491.2	INTERMEDIATE FLOW - Similar to 464.5 - 468.9 This unit is massive, siliceous, contains biotite and a small amount of chlorite. Sulphide mineralization is nil.						
491.2	554.0	MAFIC TUFFS This is a fairly homogeneous sequence of mafic tuffs characterized by the presence of irregular bedding, fracture fillings of quartz-carb. and the presence of actinolite - tremolite heedles', 2mm long, over the entire interval. 514.0: $\frac{1}{2}$" q.v., tr cpy, 80° W.C.A. Bedding at 60° W.C.A. Sulphide mineralization is nil.						
554.0	570.0	MAFIC FLOWS This is a thoroughly homogeneous medium-coarse grained mafic flow, massive, weakly fractured and void of sulphide mineralization. No quartz veining. Odd 1/16" quartz-carbonate veinlets.						
	570.0	END OF HOLE						

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	289 NORTH	STARTED	11th April, 1976						
HOLE NO.	38W-9	DEPARTURE	256 EAST	FINISHED	13th April, 1976	200'	40°				
BEARING	180°	ELEVATION	-	LENGTH	507 FEET	400'	35°				
DIP-COLLAR	- 45° SOUTH	SECTION		LOGGED BY	J. KORENIC	500'	34°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
0	78.0	CASING		26234	85	90	5	T
				26235	105	110	5	N
78.0	507.0	DIORITE	Tr py throughout hole	26236	110	115	5	T
		The unit throughout the hole is that of diorite. Comp. it is locally		26237	125	130	5	T
		variable from diorite to quartz diorite although this may locally appear		26238	158	163	5	T
		to be the case due to silicification.		26239	195	200	5	T
		This intrusive is generally dark green and white (7:3), it is med.-		26240	222	227	5	T
		coarse grained (2-8mm). Grain size appears to be quite variable		26241	227	232	5	T
		throughout. Slightly to mod. mag. throughout. Quartz veining is rather		26242	232	237	5	T
		minor with only several veins throughout. Sulphides consist of minor		26243	237	242	5	T
		py throughout.		26244	268	273	5	T
		The intrusive consists in general of 60-70% subhedral mafic minerals		26245	273	278	5	T
		with the remainder being feldspar (principally plagioclase) Quartz is		26246	278	283	5	T
		generally <10% and occurs as anhedral interstitial grains.		26247	295	300	5	T
		The feldspar appear in places to have been saussuritized (minor). They		26248	325	330	5	T
		also appear to have been altered to k-spar in places particularly where		26249	340	345	5	T
		fracturing or diking has taken place. Epidote is quite common throughout		26250	371	376	5	T
		the intrusive principally occurring in narrow veinlets.		26251	400	405	5	T
		In the upper 100' of the hole several mafic inclusions (1-3") are present.		26252	405	410	5	T
		There appares to be a series of mafic (diabase) dikes throughout the		26253	410	415	5	N
		intrusive. The dikes are quite variable in size however they are generally		26254	435	440	5	N
		1-2' in width. In several cases silicification occurs adjacent to the		26255	475	480	5	T
		contacts. These mafic dikes (?) are generally dark green, med. to		26256	492	497	5	T
		fine grained, massive and generally have contacts that are quite variable						
		with respect to the C. A. Some of the mafic units have quite fresh contacts						
		with minor alt. present.						
		A number of these mafic units are foliated. Orientation of the foliation						
		is quite variable. Narrow (several inches) felsic dikes or veins are						
		present particularly below 230' - this felsic unit is quite minor - 1% py						
		associated.						
		79.6: $\frac{1}{2}$" q.v. at 45° to C.A. Barren						
		86.0: $1\frac{1}{2}$" q.v. tr py						
		86.0: fine grained, mafic dike - diabase.						
		Green, $\frac{1}{2}$-1% py, contains upto 4mm feldspar						
		phenocrysts. Lower contact is at 45° to						
		C.A. This unit appears to have weak foliation						
		at 20° to C.A. Non-mag.						
		98.8: 1"x$2\frac{1}{2}$" rectangular shaped mafic inclusion, tr py.						

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PROPERTY DETOUR LAKE HOLE NO. 38W-9

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
78.0	507.0	Contd.						
		107.0 - 107.8: Mafic dike - med. grained, upper contact sharp at 90° to C.A., contains ½% py, diss. throughout. Foliated at 60° to C.A. Several narrow ½" q.v. at 75° to C.A. at 109.5 and 109.8 and 110.1 - all are barren						
		126.8 - 128.2: Felsic(dike) (??) orange to grey in colour, several tiny epidote veinlets present. Upper contact is at 30° to C.A. Lower contact is at 50° to C.A. Contacts of this unit are quite sharp.						
		153 - 155: Feldspars appear to have been altered to k-spar.						
		156.4 - 157.2: Mafic dike - med. grained,						
		From 156.9 - 162.8: this zone has been highly altered to a olive green epidote, orange k-spar and a dark green euhedral hornblende. Epidote appears to form the matrix. No sulphides present. Below the altered unit down to 182' there is a highly broken up or shattered zone containing a 8' ground core, assoc. with this broken-up zone is tr py. Minor hematite and epidote present. From 189 - 193 the feldspars appear to have been altered to k-spar.						
		191.5 - 192.0: Broken up zone. Throughout the above "broken-up" zones no true gouge evident.						
		197 - 198.3: Mafic dike.						
		208.0 - 211.0: Diorite with ;mafic fragments or inclusions Fragments are upto 3" in size and contain ¼-½% py diss. throughout. Fragments make up to 25-30% of the rock.						
		220.5 -222.0: Mafic dike. Sharp lower contact at 45° to C.A.						
		224.1 - 222.4: 3 - ¼" q.v. - barren.						
		224.8: 3½" felsic vein, tr py						
		225.6: 2" felsic vein, tr py.						
		228.6 - 229.1: Broken up zone.						
		228 - 233.0: Numerous ⅛-½" q.v. at various orientations upto 4" total, ½% py throughout.						
		234.9 - 236.2: Mafic dike.						
		237.9: ½" q.v. at 40° to C.A. several ¼" py blebs above q.v.						
		241.4 - 242.4: Mafic dike. fine grained, foliated at 50° C.A.						
		264.5 - 266.8: Felsic vein, contains numerous 2-3mm amph. needles.						

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PROPERTY DETOUR LAKE HOLE NO. 38W-9

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
78.0	507.0	Contd.						
		269.8 - 271.0: Mafic dike (?) Rimmed with a 1-2" k-spar zone and stringers of epidote.						
		289.0 - 292.5: Mafic (diabase) dike, both contacts are at 45° to C.A.						
		293 - 305.0: Mafic dike - well developed foliation at 60° to C.A.						
		313.5 - 319.0: Siliceous zone with 2mm felsic crystals, Both contacts are quite sharp but irregular.						
		321.0 - 326.0: Silicified zone.						
		366.0 - 368.5: Mafic dike						
		369.3 - 372.1: Mafic dike Appears to be weakly foliated at 45° to C.A. Upper contact at 60° to C.A. Lower contact at 40° to C.A. No sulphides.						
		400.7: $1\frac{1}{2}$" q.v. at 45° to C.A.						
		410.7: $5\frac{1}{2}$" q.v. tr py along upper contact otherwise barren. 60° to C..A.						
		425.3: 7" felsic vein - med. grained (1-2mm), $\frac{1}{2}$ -1% py. contacts are at 50° to C.A., somewhat narrow $\frac{1}{2}$" chloritic zone along either contact.						
		425.9 - 428.3: Mafic dike. Medium grained, lower 2" fine grained, lower contact at 50° to C.A. 3" felsic veins at 435.0 and 437.2 -1% py						
		442.7: 8" felsic vein (dike) contact is at 60° toC.A.						
		453.5 - 467.5: Grey silicified unit (dike) ??. Upto 4-5mm feldspar phenos. 1% py throughout. k-spar alt. along contacts along with epidote stringers.						
		475.9 - 478.5: Mafic dike at 20° to C.A.						
		494.4: 5" felsic vein - tr py.						
	507.0	END OF HOLE						

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
OPERTY	DETOUR LAKE	LATITUDE	208 + 50 NORTH	STARTED	22nd March, 1976						
LE NO.	38W-7	DEPARTURE	88 EAST	FINISHED	28th March, 1976	200'	36°				
ARING	180°	ELEVATION		LENGTH	517 FEET	400'	36°				
-COLLAR	- 45°	SECTION		LOGGED BY	J. KORENIC						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
0	219	CASING		26179	219	224	5	T
				26180	224	229	5	T
219.0	236.0	MAFIC LAVA FLOW (1a)	½ - 1% po, minor py	26181	229	234	5	.005
		Green, fine grained, ½-1% po, and minor py in diss. form throughout,		26182	234	239	5	T
		minor carb. quartz veins throughout 1"/5' - these veins contain 5%		26183	239	244	5	.005
		sulph. principally po, py. Flows show distinctive foliation - mag.		26184	244	249	5	.005
		219.4: flow contact at 70° to C.A.		26185	249	254	5	T
		232.3: ¼" quartz-carb. vein, 5-10% po, py ½% cpy		26186	254	259	5	.005
		Between 234 - 236 flow becoming somewhat amphi. and only slightly		26187	259	264	5	.005
		mag. - appears to be grading into the pyroxenite beneath. In this zone		26188	280	285	5	T
		there is 1% po - py in diss. form throughout.		26189	285	290	5	T
				26190	290	295	5	T
236.0	285.0	PYROXENITE (6d)	No sulphides	26191	295	300	5	T
		Generally dark grey to black, coarse grained. The unit is composed		26192	300	305	5	T
		mainly of pyroxene crystals with rather minor leucocratic minerals.		26193	305	310	5	T
		Pyroxene crystals range in size upto ¼-½" in certain sections; highly		26194	335	340	5	T
		mag., several sections appear to show foliation at 60-65° to C.A.		26195	340	345	5	T
		This unit is massive, containing no quartz-veins or quartz-carb. veins		26196	355	360	5	T
		No sulphides present. Minor local distinctive reddish hematite some-		26197	360	365	5	T
		times assoc. with fractures. Several somewhat "talcy" (slightly)		26198	370	375	5	T
		sections present.		26199	405	410	5	T
		240.5 - 241.0: Minor hematite along fracture. Between		26200	420	425	5	T
		241.5 - 243.0 several tiny veinlets of hema-		26201	425	430	5	T
		tite present.		26202	430	435	5	T
		241.5 - 243.2: Pyroxenite: coarse grained, blacker than the		26203	435	440	5	N
		above somewhat coarser grained and foliated		26204	450	455	5	N
		mod. at 70° to C.A., lower contact relatively		26205	455	460	5	N
		sharp at 70° to C.A.		26206	485	490	5	T
		243.2 - 247.0: Gabbroic textured intrusive (6c)	No sulphides	26207	510	515	5	T
		Green, coarse grained, massive, may have						
		been slightly chl. no sulph. throughout.						
		2 barren ¼" carb. veins present. This unit						
		is quite mag. - unlike the typical "gabbroic						
		textured rock (6c)" found.						
		252 - 262: Quite coarse grained, with pyroxene crystals						
		upto ½" - dark grey to black in colour.						
		262 - 263.3: Med. grained pyroxenite: soft, grey and talcy.						
		276.9: Contact (?) at 70° to C.A. underlying						
		unit quite coarse grained.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
236.0	285.0	Contd.						
		276.9: Contd. Slightly talcy sections are present in this unit, particularly between 258 - 260; 264 - 267; and 274 - 277.						
285.0	296.4	ALTERED PYROXENITE (6d) Green - grey, fine to med. grained, massive, no q.v. or sulph. Appears as though this unit was originally. similar to the pyroxenite above, however it has since been chloritized and slightly serp. with the resultant "minor" talc relict pyroxene crystals appear to have been replaced or altered to chlorite and to a lesser extent talc. This unit is also mag. and its contacts are gradational. 285 - 285.7: Slightly talcy zone.	No sulphides					
296.4	298.0	GABBROIC TEXTURED INTRUSIVE (6c) Green, coarse grained, massive, slightly chl, mag. no sulph. Gradational contacts. No q.v. present.	No sulphides					
298.0	517.0	PYROXENITE (6d) Dark grey to black, coarse grained, very massive, no q.v. - several minor carb. veins present within several cases minor (tr) po, py assoc.. Tr amounts of hematite and limonite throughout particularly along fractures. Rock is generally composed of pyroxene and contains only minor leucocratic minerals. Unlike the upper pyroxenite this unit appears somewhat more uniform in grain size. Serp. to a very minor extent has taken place present in sections with the resultant "slightly talcy" sections present. With the exception of a 9" talc carb. section at 355.7 the amount of talc is very minor. Several narrow veins of serp. present - minor. This unit is also highly magnetic.	Only tr py and minor po					
		298 - 304.5: Altered zone, slightly talcy and chl. Intermixed with the "fresh" pyroxenite.						
		319.1: 2" zone of hematite assoc. with a fracture.						
		323.0: 1" carb./quartz vein at 30° to C.A. barren.						
		355.7: 9" TALC-CARBONATE ZONE: quite talcy soft, mag. appears to be weakly foliated at 70° to C.A. gradational contacts no sulph. present.						
		376.6, 377.5: Minor hematite.						
		402.0: ½" quartz-carb. vein, 60° to C.A. 30-40% hematite.						
		402.7: Orange limonite and reddish hematite assoc. with "black" mag.(?) in a narrow fracture.						
		406.4: 1/8" bed of py with minor hematite.						
		419.3: Hematite assoc. with carb. vein no sulph.						

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PROPERTY DETOUR LAKE HOLE NO. 38W-7 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
298.0	517.0	CONTD.						
		423.4: ½" quartz-carb. vein, minor diss. mag .(?) throughout - considerable hematite present.						
		435.4: Several thin beds (1/8") of py						
		451.4 - 452: ¼" vein: "layers" of quartz-carb. green serp. hematite and py with minor limonite. Well zoned - vein is at 10-20° to C.A.						
		456.5: 1½" carb. quartz vein 2-3% po, minor hematite.						
		The pyroxenite contains several slightly talcy sections principally at 370 - 373, 459 - 463 and 515 - 516. No sulphides or q.v. present within any of the zones.						
	517.0	END OF HOLE						

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	217 NORTH	STARTED	March 13th, 1976						
HOLE NO.	38 W - 6	DEPARTURE	16 EAST	FINISHED	March 18th, 1976	200'	43°				
BEARING	180o	ELEVATION		LENGTH	623 FEET	400'	40½°				
DIP-COLLAR	- 45° SOUTH	SECTION		LOGGED BY	J. KORENIC	597'	38½°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Zn.	Ni.
				26133	85	90	5	T			
0	74.0	CASING		26134	100	105	5	T			
				26135	110	115	5	T			
74.0	97.5	MAFIC FLOW (1a)	tr py, po	26136	115	120	5	T			
		Green, medium grained, tuffaceous in places, slightly chloritic in		26137	120	125	5	T	.02	.09	
		sections, contains several narrow quartz-carb. veins, tr py, po		26138	125	130	5	T			
		throughout. Minor q.v. slightly foliated at 55° to C.A.		26139	130	135	5	T			.008
		74.8: Contains several specks of a black, non-mag.		26140	135	140	5	T			.012
		metallic "lustre" mineral. Found along		26141	140	145	5	.01			.022
		the rim of a narrow q.v.		26142	145	150	5	T			
		75.5: 1/8" quartz-quartz-carb. vein 5% po, py,		26143	150	155	5	N			
		tr sphalerite.		26144	155	160	5	N			
		88.5: ½" quartz-carb. vein 35° to C.A., ½-1% py		26145	160	165	5	N			
		throughout 40-50% garnets throughout vein.		26146	165	170	5	N			
		Vein is rimmed by a black non-mag. mineral		26147	170	175	5	N			
		in the form of a peppery texture, same		26148	185	190	5	N			
		mineral also found along a very narrow		26149	190	195	5	N			
		carb. quartz-vein at 88.7'.		26150	210	215	5	N			
				26151	215	220	5	N			
97.5	122.6	MAFIC TUFFS (1c)	½% py + po	26152	230	235	5	N			
		Green and brown in colour, highly tuffaceous, bedding at 50° to C.A.,		26153	250	255	5	N			
		carb. rich, very highly bio./phlog. rich, chl. in places, ½% sulph.		26154	255	260	5	N			
		(po - py) present throughout.		26155	280	285	5	N			
		97.5 - 112.0: Mafic tuff.		26156	285	290	5	T			
		Green, (brown between 110 - 112) biotitic.		26157	305	310	5	.02			
		98.5 - 99.0: Chlorite - phlog. rich.		26158	310	315	5	T			
		99.0 - 100.3: Bedding deformed - irregular possible		26159	315	320	5	N			
		slumpage features.		26160	335	340	5	T			
		100.7: ½" q.v. at 50° to C.A., barren, chl.		26161	365	370	5	N			
		Narrow q.v. at 101.0, 101.1 (½"), 101.5(¼")		26162	380	385	5	N			
		101.7 (½"), all generally barren.		26163	385	390	5	N			
		102.2: ½' zone of q.v. barely tr py, chl. phlog.-carb		26164	395	400	5	N			
		assoc.		26165	410	415	5	N			
		107.4: ½" q.v. barely tr po, sph. sericitic alt.		26166	420	425	5	T			
		alongside q.v.		26167	445	450	5	N			
		110 - 112: Becoming quite micaeous and brown in colour.		26168	465	470	5	.005			
		110.2: Minor tr diss. sphal. in a carb/quartz rich		26169	485	490	5	N			
		matrix.		26170	500	505	5	T			
				26171	505	510	5	T			

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Zn.	ASSAYS Ni.
97.5	122.6	Contd.		#26172	510	519	5	T	(4' ground core)		
		111.1: Minor garnets along a carb. vein.		26173	519	524	5	.193			
		112.0 - 112.8: Felsic tuff. Violet-brown in colour, minor bio. throughout, barren. Lower contact at 25 - 30° to C.A.		26174	535	540	5	.015			
				26175	560	565	5	N			
				26176	565	570	5	N			
		112.8 - 122.6: Mafic tuff		26177	575	580	5	N			
		Brown, very highly phlog./bio. rich, bedding appears to be in the order of 35-45° to C.A.		26178	590	595	5	N			
		Tr garnets present.		26208	524	529	5	T			
		118 - 122.6: Green, not as bio. rich as above unit.		26209	529	535	6	T			
		122.1: ½" q.v. fine phlog. rim present 1-2% garnets present.		26210	540	545	5	T			
				26211	545	550	5	T			
				26212	550	555	5	T			
122.6	124.6	CHERT TUFF (3c)	3-5% py	26213	555	560	5	T			
		Grey, very well bedded at 40-45° to C.A. Upper contact sharp at 45° to C.A. 3-5% py, 2-3% po, throughout generally in diss. form and along bedding planes. Approx. ½% sphal. occurring as tiny crystals in diss. form and along bedding. Barely tr cpy.	2-3% po, ½% sphal.								
		122.7: 1" zone of chlorite, 5% py throughout.									
		122.9: a "line" of sphal. conformable with bedding.									
		123.3 - 123.5: 20% py, finely diss. sph. and po. assoc. Lower contact of chert at 50° to C.A.									
124.6	131.0	MAFIC TUFF (1c)	½ - 1 % py								
		Brown and green in colour, phlog. rich, carb. rich, minor garnets in tr amounts throughout, ½-1% py along bedding. Bedding at 50-55° to C.A.									
		125.9: 1-2" quartz zone, tr po, py.									
		127.6: ¼" q.v. barren									
		128.6: ¼" q.v. 2-3% po, py									
		128.9: 1" q.v. 1% po, tr cpy									
		129.5 - 131.0: Mafic flow. Bio. rich, med. grained, green no q.v. lacks bedding.									
131.0	147.7	MAFIC TUFF (1c)	10-15% sulp. (10-12% py, 3-5% po)								
		Brown and slightly green, highly bio./phlog. rich, very well bedded, disturned in places appears to have somewhat slumped. Silicified in places q.v. 1-2/5', Carb. rich, 10-15% sulp. throughout, principally py with lesser po (3-5%) Sulphides generally conformable to bedding.									
		134.7: Several thin (1/16") beds of py, chl. bio. assoc.									
		136.0 - 137: Highly broken up zone - chl. pyritic.									
		137.0 - 138.0: Sulphide zone: 70% py, 10-15% po.	70% py, 10-15% po								
		140.6 - 140.8: 30-40% py, 20% po, py in somewhat euhedral and appears to be surrounded by po (1/16 - 1/8" crystals)	30-40% py, 20% po								
		*138.6: 2" Cherty Zone.									

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
131.0	147.7	CONTD.						
		140.8 - 141.5: Contact along C.,A. between a chloritic - po, py zone and a bio. zone containing garnets and quartz phenos.						
		141.0: 3" zone of a bright bluish green micaeous mineral - possibly "fuchsite"?.						
		142.5 - 144.0: Sulphide zone strictly po, py, 20% po,10% py	20% po, 10% py					
		142.9: 1" q.v. 40% sulph. (po, py)						
		144.2: 1" q.v. fractured, 30% py, minor po.						
		Numerous ¼" q.v. at 144.9, 145.1 and 145.3 all appear to be orientated along bedding (50-60° to C.A.) 10% py present.						
147.7	150.0	INTERMEDIATE - MAFIC TUFF (1c-2c)						
		Greyish green, bedded weakly at 40° to C.A., biotite rich especially in the lower part of the unit, no significant sulphides throughout, 2 narrow (1/16 - 1/8") q.v. present both barren.						
150.0	152.9	FELSIC TUFF (4c) Crystal tuff						
		Beige in colour, contains 1/8" felsic crystals throughout, black bio. up-to 1/8" scattered throughout the tuff - elongated along bedding. Very sharp upper contact at 50° to C.A. Barren.						
152.9	160.2	CHLORITIZED MAFIC FLOW (1a)						
		Green, med. grained, chl. quite massive, bio. rich, non-mag, no q.v. or sulphides except in a narrow tuffaceous zone in the upper part.						
		152.9 - 153.6: Mafic tuff. Similar to the above mafic tuffs bedded at 60° to C.A., chloritic - phlog. rich, 3-5% py along bedding, minor po.	3-5% py, minor po					
		153.6 - 158.5: Chloritized mafic flow. Lower ½' highly chloritic contains a 2" cherty felsic unit. No significant sulphides.						
		158.5 - 160.2: Intermediate mafic tuff. Highly bio./phlog. rich well bedded at 40° to C.A. Generally brown, 2-3% py along bedding.	2-3% po					
160.2	165.0	CRYSTAL FELSIC TUFF (4c)						
		Beige, 1/8" felsic crystals throughout, contains black bio. crystals elongated along C.A. Minor q.v. no sulphides except along lower q.v.						
		163.3: 1" quartz-feldspar vein, tr py						
		164.2: ½-1" q.v. contains 10% py, tr po.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
165.0	171.4	MAFIC TUFF (1c)	$<\frac{1}{2}$% po, py					
		Green, well bedded at 60-65° to C.A., slightly chl. in places, minor sulphides (po, py) throughout ($<\frac{1}{2}$%) Contact with above felsic at 60° to C.A. fine grained.						
		165.0: 1" sulphides zone partially within the above felsic and within the mafics and along the contact - 40-50% py, minor sphl.						
		168.0: 3/4" quartz and quartz-carb. vein, tr py						
		170.9: 1" q.v. - 1% py.						
171.4	177.5	CRYSTAL FELSIC TUFF (4c)						
		Beige, brown, med. grained, no significant sulph. lower contact at 55° to C.A.						
		174.6 - 176.1: Mafic tuff						
		Green, bio./chl. rich med. grained, minor sulphides.						
		174.7: $\frac{1}{4}$" q.v. barren.						
177.5	234.1	MAFIC TUFF (1c)						
		Colour variable from green to brown, contains carb. phlog. rich sections, bedding 55-60° to C.A. Upto 1% po, py in places, med. grained.						
		177.5 - 182.2: Mafic tuff. Green, carb. rich, well bedded. at 55-60° to C.A.						
		178.5 - 179 - minor zone of narrow $\frac{1}{4}$"quartz pods along bedding - generally barren.						
		$<\frac{1}{2}$% po, py throughout.						
		182.2 - 188.3: Mafic tuff - green, med. grained, rather massive in appearance, lacks the above carb./phlog. Bedded at 55° to C.A.						
		Minor sulphides assoc. with the carb./quartz vein.						
		188.3 - 199.2: Mafic tuff - carb./phlog. rich, somewhat deformed: slumped? green (+brown)						
		193.1: $\frac{1}{4}$" q.v. tr po, py						
		196.4: $\frac{1}{2}$" q.v. 50° to C.A., barren.						
		198 - 199: Zone of $\frac{1}{2}$-1% py principally along bedding.						
		199.2 - 202.5: Mafic tuff.						
		Not well bedded, $\frac{1}{2}$-1% po, principally along bedding, green, fine-med. grained.						
		202.5 - 234.1: Mafic tuff.						
		Carb/phlog. rich, upto 25-30%, carb. in sections q.v. relatively minor $\frac{1}{2}$"/5-10'.						
		205.7: Sev. narrow 1/8"-$\frac{1}{4}$" q.v. barren.						
		210.5: Minor po and a black peppery min. in quartz-carb. vein.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
177.4	234.1	Contd.						
		215.0 - 217.0: Numerous (9) narrow 1/8"-¼" q.v. tr sulph. or; barren.						
		217.1 - 219.2: Gabbroic dike. Green, med. grained, upper contact at 10° to C.A., non-mag. no sulphides.						
		230.1: 1-2% po, (minor py) in a 1" quartz-carb. vein.						
234.1	249.9	MAFIC FLOW (1a) Green, slightly streaky carb. present, med. -fine grained, vaguely foliated at 75° to C.A., rather massive ½"/5' q.v. tr sulph. diss.						
		235.7: q.v. (1/8") 80° to C.A. barren.						
249.9	252.6	FELSIC TUFF - Crystal (4c) Greyish brown, contains 1/16" feldspar crystals throughout, minor black bio. scattered throughout, Upper flow contact at 80° to C.A. No sulphides.						
		251.2 - 251.7: Mafic zone, Carb./bio. rich.						
252.6	308.4	MAFIC LAVA FLOWS (1a) Green, fine grained, contains several tuffs interbedded, massive, minor sulphides throughout. The q.v. or pods present are generally barren.						
		282 - 292: Mafic tuff Carb./phlog. rich, green -brown in colour, well bedded, ½"/5' narrow q.v. - barren. Contains narrow ½-1" Intermediate units interbedded ½% py.						
		286.2 - 287.2: Cherty tuff. Light olive - grey, minor speckled black peppery mineral upper contact at 75° to C.A.						
		304.5 - 308.4: Mafic tuffs.						
308.4	315.4	FELSIC TUFF (4c) Grey, med. grained, numerous (?15) narrow q.v. throughout (1/8"-¼") orientated at 80° to C.A. tr py.						
		311.8 - 313.4: Mafic tuff- highly phlog/bio. rich.						
315.4	382.8	MAFIC FLOWS AND INTERBEDDED TUFFS (1a, c) Green, fine grained, minor carb. particularly below 340'. Massive between 323 - 354 - ½"/5' q.v. No significant sulphides throughout - generally tr py, po.						
		315.4 - 323.0: Mafic tuff						
		323 - 354.0: Mafic flow - green, massive, foliated at mod. at 80° to C.A. fine grained, no signi. sulphides.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
315.4	382.8	Contd.						
		339.9: 1" q.v. at 70-75° to C.A., barely tr po.						
		354 - 382.8: Mafic tuffs/flows						
		Tuffaceous sections at 65° to C.A. No						
		significant sulphides throughout.						
		364.9: 4" zone of intermediate.						
		366.9 - 367.7: FELSIC TUFF						
		Grey, contains biotite scattered throughout,						
		very well bedded. Contains several narrow						
		q.v. barren.						
		382.5: 4" Intermediate section.						
382.8	521.6	MAFIC TUFFS (lc)						
		Green, coarse grained, generally amphibolised, bedding at 80° to C.A.						
		contains stringers of carb. conformable to bedding throughout, inter-						
		bedded with fine grained flows, upper tuffs slightly magnetic quite						
		mag. below 470'. Only traces of py (and po) throughout, nothing sign.						
		382.8 - 392.3: Mafic tuff						
		Coarse grained, amphi. non-magnetic.						
		Contains sev. thin felsic - cherty felsic beds.						
		At 384.2 ($3\frac{1}{2}$") and at 396.7 (3"). Several q.v. present between 390 -						
		392' - generally $\frac{1}{4}$" veins only tr py present.						
		392.3 - 503.0: Mafic tuffs.						
		Contain several interbedded inter. units,						
		green, coarse to med. grained in places.						
		Amphi. mag. appears to be bedded at 80°						
		to C.A. carb. rich, particularly in the form						
		of streaks. Minor sulph. q.v. $\frac{1}{2}$"/10'.						
		395.8: $\frac{1}{4}$" q.v. - tr po						
		406.3: 1" coarse quartz zone - 1-2% garnets 1%						
		py assoc.						
		458 - 460: Carb. rich bedding quite deformed.						
		472.0 - 472.7: Interbedded intermed. tuff.						
		Grey, upper and lower contact at 20° to C.A.						
		486.5 - 486.9: Cherty felsic tuff						
		Grey, tr py, lower contact at 75° to C.A.						
		498.6 - : 10 - 20% garnets in a $\frac{1}{2}$" quartz-carb. vein						
		503 - 506: Intermediate tuff.						
		Brown, bio. rich, non-mag. well bedded						
		at 80° to C.A.						
		506.0-518: Mafic tuff - Light green, fine grained, slightly						
		chl. at 510'. Inter. interbedded. Broken up						
		zone 510-516, possible fault zone ? Bio. rich						
		partic. 517 - 518. 517 - 518:2-3% py generally						
		along fractures. 518 - 521.6 felsic to inter.						
		tuff. Grey, non-mag. 1% diss. py						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
521.6	623.0	MAFIC FLOWS AND INTERBEDDED TUFFS (1a, c)						
		Fine to med. grained, upper flows are somewhat coarse grained, green, streaky carb. generally throughout, amphi. highly so 536 - 542, generally slightly mag. Only tr sulph. present throughout, quartz veining rather minor. Tuffaceous sections present.						
		521.6 - 536.4: Mafic flow. Fine grained, foliated at 80° to C.A.						
		536.4 - 542.0: Mafic flow. Coarse grained, highly amph. 2-3 "/5' quartz carb. vein. Non-mag. tr po, py present.						
		542 - 623.0: Mafic flow. Med. to fine grained, q.v. minor throughout, streaky carb. present along foliation (75° to C.A., green, slightly magnetic.						
		565.7 - 566.3: 1-2% po in a quartz-chl. mafic zone.						
		572.5 - 575.1: Intermediate tuff. ½% py along bedding. Bedding at 80° to C.A.						
		594.2: 2" quartz-carb. vein contains 10-20% py diss. throughout. 7' ground core at 607', 619 - 623 ground core.						
	623.0	END OF HOLE						

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	239 + 50 NORTH	STARTED	25th Feb., 1976						
HOLE NO.	38W - 4	DEPARTURE	78 EAST	FINISHED	29th Feb., 1976	200'	41½°				
BEARING	360°	ELEVATION		LENGTH	567 FEET	400'	34°				
DIP COLLAR	- 45° N	SECTION		LOGGED BY	J. Korenic						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
				26042	12	17	5	T			
0	12.0	CASING		26043	17	22	5	.015			
				26044	22	27	5	T			
12.0	192.0	MAFIC TUFFS (1c)	1-2% po throughout	26045	27	32	5	T			.004
		Green, fine to med. grained, well bedded at 55° to C.A. Considerable		26046	32	37	5	T			
		carb. quartz veining throughout - 1-2"/5'. 1-2% po along bedding, py		26047	37	42	5	.005			
		increasing with depth, minor garnet crystals scattered throughout, tr		26048	42	47	5	T			
		amounts of cpy and sphal. in places (minor).		26049	47	52	5	.005		.10	
		15.8: Small (1/8") Garnet crystals present.		26050	65	70	5	.010			
		23.2: Tr cpy along bedding assoc. with po.		26051	70	75	5	.020			
		30.5: Garnets diss. throughout a 1" band of carb.		26052	80	85	5	T		.03	
		rich mafic.		26053	85	90	5	T			
		31.8: q.v. (¼") 55° to C.A. (along bedding)	¼" q.v. - 2% grey	26054	100	105	5	T			
		1-2% py, 1-2% sphl, 2% grey metallic min.	metallic min. 1-2% py	26055	120	125	5	.005		.04	
		Galena(?) several blebs present in the vein.	1-2% sphalerite	26056	135	140	5	.005		.03	.007
		32.9: q.v. (½") 5-10% po.		26057	140	145	5	T		.03	.023
		37.6 - 41.4: Med. grained, light green carb. rich,		26058	145	150	5	.005			
		mafic flow, several narrow (¼") q.v. barren		26059	150	155	5	.010		.03	
		sharp lower contact at 60° to C.A.		26060	170	175	5	.015		.04	.006
		41.8: quartz carb. vein (1") 15-20% po, tr cpy.		26061	175	180	5	T		.03	.006
		46.4: ¼" bed of po (along bedding)		26062	180	185	5	T		.020	.005
		47.2: Cpy with po along bedding (minor)		26063	185	190	5	T			
		58.7: q.v. (¼") 1-2% po, tr cpy		26064	190	195	5	T			
		67.7 - 69.2: Light green mafic flow - 1% po, tr cpy,		26065	215	220	5	T			
		5-10% garnets diss.		26066	220	225	5	T			
		80.1: ¼" carb.-quartz vein 10-15% po, 1% cpy,		26067	225	230	5	T			
		80.7 - 91.0: Mafic flow (tuff?)		26068	240	245	5	T			
		Green, med. grained, slightly foliated at		26069	245	250	5	.010			
		60° to C.A., ⅓% diss. po and py throughout,		26070	250	255	5	.040			
		spotted throughout with tiny carb. specks.		26071	263	268	5	.005			
		83.9: q.v. (¼") 60° to C.A. 2% po, contains upto		26072	273	278	5	T			.004
		¼" carb.-quartz crystals - well developed		26073	300	305	5	T			
		euhedral quartz crystals.		26074	305	310	5	T			
		86.1: q.v. (½") 10° to C.A., 10-15% po, 1% cpy,		26075	325	330	5	.005			
		minor py.		26076	340	345	5	T			
		86.7: ½" q.v. nicks the above q.v. Orientated at	½" q.v. 25-30% po,	26077	355	360	5	.015			
		70° to C.A. oblique to foliation 25-30% po,	2-3% cpy,	26078	360	365	5	T	.04		
		2-3% cpy.		26079	365	370	5	.07		.12	.002
				26080	370	375	5	.010			

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

PROPERTY DETOUR LAKE HOLE NO. 38W-4 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION		% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
					26081	405	410	5	.005			
12.0	192.0	CONTD.			26082	420	425	5	.015			
		91.0 - 192.0:	MAFIC TUFFS		26083	435	440	5	.005			
			Gradational, bedded at 55° to C.A. contains		26084	440	445	5	.005			
			1-2% po, py principally along bedding planes.		26085	445	450	5	.005			
			Contains several occurrences of garnet		26086	450	455	5	.005			
			(103.3).		26087	460	465	5	.010			
		104.8:	1" quartz-carb. vein - 10-15% po.		26088	475	480	5	T			
		108.0:	Tuffs are extremely well bedded at 60° toC.A.		26089	495	500	5	T			
		121.5:	Carb. quartz vein (1") 15-20% po, 1-3% py		26090	510	515	5	T			
		123.6:	1/16" quartz carb. vein 10-20% cpy, 5% po		26091	530	535	5	.005			
		127.5:	q.v. ($\frac{1}{4}$") 5% py, 1-2% po.		26092	555	560	5	T			
		129.9:	$\frac{1}{4}$" q.v. 20-25% py, 20° tp C.A.									
		131.8:	$1\frac{1}{2}$" quartz carb. vein at 65° to C.A. 5-7% py									
			2-4% po.									
		139.2:	Quartz-carb. vein, brecciated, 1% cpy, tr									
			sphalerite.									
			Several pyritic zones present throughout									
			particularly at 143.0, 144.0, 147.9.	4" zone of diss. py								
		144.0:	4" zone of diss. py (5%) 3-5% sphal.	3-4% sphalerite								
		147.1:	$\frac{1}{2}$" q.v. minor sulphides.									
		150.4:	quartz-carb. vein (4") 5% py, 1% cpy.									
		154.8:	quartz-carb. vein (1") 20% po, 5% py.	$\frac{1}{4}$"q.v. 10% sphl. 2%py								
		174.1:	q.v. ($\frac{1}{4}$") 10% sphl. 2% py, 60° to C.A.									
		Below 175.0:	Well bedded, 1% py along bedding.									
		177.2:	quartzcarb. vein, ($\frac{1}{2}$") 2% po, tr sphal.									
			cpy.									
		189.5:	q.v. ($\frac{1}{4}$") along bedding, tr sulphides.									
		191.1:	q.v. ($\frac{1}{4}$") 10% py, 3% cpy.									
		Minor cpy at 191.4										
192.0	533.0	MAFIC TUFFS - (1c)										
		Green, med. grained, bedded at 60° to C.A., lacks the quartz-carb.										
		veins prevalent in the above tuffs. $\frac{1}{3}$% sulphides (po-py) along bedding										
		Contains 1"/5° q.v. below 420.										
		192 - 201.6:	Mafic tuffs. Minor sulp. throughout, tr									
			sphal. in q.v. at 197.1.									
		201.6 - 226.8:	Mafic tuffs. Bedded at 60° to C.A., green,									
			lacks quartz-carb. vein.									
		216.4 - 217.9:	Felsic tuff.									
			Greyish beige, barren, no q.v. Upper contact									
			at 65° to C.A.									
		220.8:	3/4" quartz-carb. vein - minor py.									
		226.8 - 248:	Mafic flow (?) Fine grained, rich bio. in									
			places, massive.									
		229 - 231.0:	quartz-k-spar vein at 10° to C.A.									

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
192.0	533.0	Contd.						
		241.8: 6" intermediate - felsic tuff, grey, slightly micaeous.						
		245.0: $8\frac{1}{2}$" CHERT TUFF Beige, minor py along bedding. Bedding at 65° to C.A.						
		248 - 263.8: Mafic tuff. Some carb.-quartz veins throughout, considerable po, along bedding.						
		257.6 - 258.7: Mafic flow (?). Coarse grained, py th/out.						
		262 - 263.0: Broken up, slightly chloritic zone, minor sulphides.						
		263.5: 4" CHERTY TUFF Creamy colour, barren.						
		263.8 - 284: Mafic tuff. Bedded at 65° to C.A. Considerable carb quartz veins along bedding throughout. 2-3"/5'. Minor py throughout.						
		274.5: q.v. (3/4") 50° to C.A. 2-3% sphalerite						
		284 - 463.0: Mafic tuffs. Green, well bedded in places at 60° to C.A. Minor quartz-carb. veining. Minor sulphides throughout $\frac{1}{2}$% increasing q.v. below 420.						
		302.3 - 303.3: CHERTY TUFF Fine grained, crimson to a light orange in colour, barren, contacts at 70° to C.A.						
		307.3: 3" q.v. and quartz-carb. vein, minor po.						
		329.2: $\frac{1}{4}$" -1" q.v. - barren.						
		353.7: 2" light green, grey, felsic vein (?) contacts at 75° to C.A., tr py.						
		358.2: 8" Mafic (flow) (tuff?) Contains 1/8" feldspar phenos. and $\frac{1}{4}$" elongated amphibole crystals. Well developed foliation (?) 70° to C.A.						
		359.1: q.v. (1") 1-3% py, tr sphal.						
		359.6: q.v. (3/4") 30% po, 1-3% py.						
		361.0: Contains coliform py crystals rimmed by later coarse grained py. Also assoc. is a jet black, glassy like mineral with a conchoidal cleavage. Appears to be fracture/cavity filling. Tr cpy present.						
		367.3: q.v. ($\frac{1}{4}$") 5% po, 1% sphal.						
		367.6: 1" q.v. at 75° to C.A. 5% po, 1-2% cpy, minor sphal.						
		368.1: 3/4" q.v. 10-20% po.						
		369.9: q.v. (1") tr sphal. py						
		372.8: $2\frac{1}{2}$" cherty bed - brownish crimson in colour, contacts at 75° to C.A.						

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
192.0	533.0	CONTD.						
		399.5: 1" carb. zone - 70% py.						
		405.2: q.v. (1") 10-15% po.						
		414.2: 7" intermediate tuff. Grey, bedded at 75° to C.A.						
		Below 420' q.v. increases to over 1"/5' q.v. Q.V. are generally orientated at 60-75° to C.A., generally along bedding.						
		422.9: 1-1½" q.v. 10-15% po, tr py, 7-10% sphal.						
		424.9: 1" q.v. Minor po.						
		426.1: 1" q.v. minor sulphides.						
		437.4: 1" q.v. 10-15% py 5-7% po.						
		441.2: ⅓" q.v. 30% po.						
		442.1: 1¼" q.v. minor sulphides.						
		447.3: 1" q.v. - minor sulphides						
		449.3: 1" q.v. - 10% py						
		450.3: 1" q.v. 5% po and py						
		457.3: 3/4" q.v. 10% po						
		463.0: 1" q.v. minor sulphides.						
		463.0 - 533.0: Mafic tuff. Green med. grained, slightly amphi., bio. rich in places. Somewhat poorly bedded at 75° to C.A., contains ¼" feldspar phenos. Minor ½" q.v. at 469.7, 472.8, 477.8 - minor po associated.						
		475.1 - 477.3: Mafic zone. Green, bio., very minor q.v. Tr po assoc. with q.v. at 490.9, 493.4, 494.5, 499.8, 502.3.						
		497.6: 1" q.v. tr sulphides.						
		512.4: a pair of 1" q.v. including minor po.						
		515.8: 1" q.v. - 10% po.						
		522.7: 3/4" q.v. - barren.						
		530.8: 1" q.v. barren.						
533.0	567.0	AMPHIBOLE GNEISS						
		Coarse grained (1/8" - ¼" crystals), green, comprises generally of amphi. feldspar & quartz. Massive, minor q.v., odd ¼" q.v. present Non-mag. foliated at 60° to C.A. Contains bands of chlorite (slightly) mafic - tr sulphides associated.						
		533 - 535.4: Alteration zone. Appears to be a narrow alt. zone between the above tuffs and underlying amph. gneiss. Has the appearance of aamph. mafic - dark in appearance - lacks quartzor feldspar.						
		535.4 - 567.0: Amph. gneiss. Numerous bands of fine grained mafic s in the gneiss, found at 549.8 - 550.2, 550.9 -551.0;553.1-553.7 and 556.3 - 557.6. 562.0- q.v. (¼") 65° to C.A., barren.						
		557.6: q.v. (1¼") barren. 567.0: END OF HOLE						

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	208 NORTH	STARTED	13th Feb., 1976						
HOLE NO.	76 - 38W-2	DEPARTURE	92 EAST	FINISHED	16th Feb., 1976	200'	42°				
BEARING	180°	ELEVATION		LENGTH	610'	400'	41°				
COLLAR	- 45°	SECTION		LOGGED BY	J. KORENIC	600'	39°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.
				25961	75	80	5	.005	
0	72.0	CASING		25962	80	85	5	.005	
				25963	85	90	5	.005	
72.0	95.0	MAFIC TUFF (1c)		25964	97	102	5	T	
		Green and brownish in colour, med. to fine grained, non-mag., well		25965	102	107	5	T	
		bedded at 50° to C.A., minr q.v. 1"/10', phlog. and carb. rich.		25966	115	120	5	.015	
		$\frac{1}{4}$-$\frac{1}{3}$% diss. po throughout -principally along bedding planes, tr py.		25967	120	125	5	.040	.113
		79.2: set of fractures at 50° to C.A., oblique to		25968	125	130	5	.187	10'
		bedding, carb./quartz infilled fractures		25969	149	154	5	.025	
		contain tr cpy, po.		25970	154	159	5	T	
		80.5: 4" felsic zone with a narrow q.v. -limonite		25971	171	176	5	T	
		and py present.		25972	235	240	5	.005	
		82.8: 3" q.v. irregular contact, contains a 2"		25973	275	280	5	.005	
		chlorite carb. zone above, 5% po, tr cpy		25974	298	303	5	T	
		predominantly in the zone above the q.v.		25975	327	332	5	N	
		90.0: q.v. (1") 90° to C.A., tr po.		25976	352	357	5	T	
		91.7: q.v. ($\frac{1}{4}$") 60° to C.A., tr po.		25977	377	382	5	T	
				25978	394	399	5	.015	.04
95.0	98.2	FELSIC TUFF (4c)		25979	399	404	5	.015	
		Grey, hard, gradational contact, contains 1 narrow ($\frac{1}{4}$") q.v. -barren		25980	430	435	5	.020	
		non-mag. light grey, tr po, bedded at 60° to C.A.		25981	435	440	5	.005	
				25982	475	480	5	.005	
98.2	135.1	MAFIC TUFF (1c)		25983	480	485	5	.005	
		Green and brown, med. grained, highly phlog. rich, well bedded at		25984	485	490	5	.005	
		25-50° to C.A., $\frac{1}{3}$% po, throughout, minor q.v.		25985	490	495	5	.015	
		98.7 - 99.8: Mafic flow (dike?)		25986	495	500	5	.010	
		Light green and brown, coarse grained,		25987	500	505	5	.045	
		biotitic, consistent grain size throughout.		25988	505	510	5	.010	
		115.6: q.v. ($1\frac{1}{2}$") barren. 2" above contains a		25989	510	515	5	.005	
		chl. carb. zone that has 5-10% po, $\frac{1}{2}$% cpy.		25990	515	520	5	.005	
		124.5: q. carb. vein ($\frac{1}{4}$") 5-7% py, tr cpy.		25991	540	545	5	.010	
		126.5 - 128: tr cpy.		25992	545	550	5	.010	
		127.6: q.v. ($\frac{1}{4}$-$\frac{1}{2}$"), 5% cpy		25993	550	555	5	.005	
				25994	555	560	5	T	
135.1	141.4	INTERMEDIATE TUFF (2c)		25995	603	608	5	.005	
		Brown, med. grained, 50° to C.A. bedding tr sulphides, biotite rich,							
		Underlying contact at 40° to C.A.							
									....Contd.

A.C.P.C.L. - MINING DIVISION - D.D.H. RECORD PROPERTY DETOUR LAKE HOLE NO. 76 - 38W-2 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
141.4	164.0	MAFIC TUFF (1c)		26093	130	135	5	T
		Green, med. grained, bedded at 40° to C.A. ½% diss. po veinlets of		26094	135	140	5	T
		quartz-carb. throughout - conformable to bedding, tr cpy.		26095	140	145	5	T
		141.4 - 141.8: Mafic tuff		26096	145	149	4	.005
		141.8 - 148.0: Mafic flow. Similar in comp. to the surrounding tuffs - lacks bedding. Gradational contacts, contains 1/8" - siliceous blebs.						
		148.0 - 164.0: Mafic tuff.						
		153.0: Tr cpy, minor py.						
164.0	326.7	MAFIC LAVA FLOWS (1a)						
		Green, fine - med. grained, tr sulphides very massive, minor q.v. phlog. - bio. concentration, non-mag.						
		171.5: q.v. (¼") 40° to C.A., py and reddish/ orange limonite.						
		171.3 - 171.8: Broken up zone, contains limonite - gouge material.						
		171.8 - 179.4: Intermediate - mafic flow. Greyish green, massive, tr sulphides.						
		179.4 - 252.0: Mafic flow. Green, massive, bio. rich, no q.v. several narrow carb.-quartz filled fractures excellent flow contact at 25° to C.A.						
		200.9: Carb.-quartz zone - (4") brecc. tr po, py.						
		206.4: q.v. (¼") 75° to C.A. barren.						
		213.0 - 213.7: Intermediate to mafic tuff, well bedded at 30° to C.A.						
		237.4: ¼" q.v. 90° to C.A., barren.						
		252 - 256: Very fine grained mafic flow. Vague contacts						
		256 - 287: Mafic flow.						
		258.8: 6" zone of gouge slightly chloritic. Minor py diss. throughout.						
		287 - 288: Intermediate flow. Fine grained, greyish green, ½% diss. py sharp irregular flow contact at 287'.						
		288 - 326.7: Mafic flow. Massive, green med. grained. Foliated at 75° to C.A.						
		302.1: ¼" - ½" q.v. barren.						
		313.1: ½" q.v. - 25° to C.A. - barren.						
326.7	332.3	FELSIC TUFF (4c)						
		Grey, fine grained, hard, 60° to C.A. Upper contact, tr py, throughout 45° to C.A. Lower contact. No. q.v. no distinct bedding.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
332.3	397.3	MAFIC LAVA FLOW (1a)						
		Green, med. grained, virtually no q.v., massive, foliated slightly at 75° to C.A., minor sulp. - principally in the form of py.						
		337.3: 2" felsic tuff.						
		Grey, sharp upper contact at 75° to C.A., tr py.						
		339.4: ½" q.v., light green colour, 20° to C.A. ½-1% py immediately alongside.						
		348.2: Flow contact; 30° to C.A., underlying mafic flow finer grained, fractured.						
		352 - 353.5: A set of minute fractures at 20-40° to C.A.						
		353.5 - 354.5: Concentration (5-7%) of euhedral py crystals.						
		372.2: Flow contact at 60° to C.A., med. grained, mafic flow underlying.						
		386.4 - 386.7: Mafic tuff. Bedded at 80° to C.A. phlog. rich, tr py diss.						
		389.9 - 390.7: Felsic tuff. Grey, tr sulph. no q.v. lower contact at 75° to C.A.						
		390.7 - 397.3: Mafic flow. Med. to fine grained, green, massive, lacks sulph. no q.v.						
		396.8: q-carb. vein, minor assoc. py.						
397.3	398.8	CHERT TUFF (3c)						
		Colour is orange grading downwards to grey, fine grained, very well bedded at 75° to C.A. Sharp upper contact at 75° to C.A. tr py at top increasing downwards to ½% - several euhedral cubic crystals of py along fractures and diss. lower down.						
		398.3: q.v. (¼") barren.						
		Lower contact sharp at 70° to C.A.						
398.8	451.6	MAFIC FLOW (1a)						
		Green, med. grained, massive, tr py throughout.						
		405.7: q.v. (½") 60° to C.A. - barren.						
		414.5 - 416.0: zone of fractures and carb. quartz infilling, 1% diss. py.						
		425.9: ¼" q.v. - 60° to C.A. - barren.						
		430.5 - 431.5: 2-3% py, principally in the form of thin diss. bands of py.						
		436.2 - 450.0: Mafic flow - slightly intermediate.						
		Greyish green, minor py, po. bio., slightly tuffaceous.						
		450.0 - 451.6: Intermediate tuff. Very well bedded at 75° to C.A. ½% diss. py throughout.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
451.6	512.5	MAFIC TUFFS (1c)						
		Green, med. grained, well bedded at 75° to C.A., ½% diss. py and po principally along bedded biotite rich.						
		465.0 - 465.7: Contains several ¼" garnets, pinkish in colour, anhedral.						
		469.9 - 472.2: Felsic tuff. Grey, tr sulphides along bedding, 75° to C.A. contains minor garnets.						
		472.2: Mafic tuff. Green and brownish green, contains considerable carb. throughout, q.v. 1⅓"/10' contain minor sulphides.						
		477.6: q.v. (½") tr sulphides.						
		478.6: Minor cpy present along fracture - ⅓% po,py throughout.						
		481.4: ½"-1" q.v.- barren.						
		487.3: q. carb. vein (1") 75° to C.A., 1% po, phlog. alt. zones alongside.						
		490.4: ½" q.v. - 75° to C.A., 15% po, py.						
		492.7 - 493.0: Felsic tuff. Minor po along upper contact, contact 80° to C.A.						
		494.0: q.v. (½") 10% po						
		495.7: q.v. (½") barren						
		497.0: a pair of ½" q.v. 5% po, cpy.						
		498.8: q.carb. vein (1") - barren.						
		503.0 - 503.8: 7" q.v. (total) q.v. ¼-½" in width all consistent with bedding at 80° to C.A. tr sulp;						
		504.9 - 507.5: Intermediate tuff (flow?) Sharp upper contact at 75° to C.A. Greyish brown in colour, med. grained, bio./phlog. rich.						
		507.5 - 508.0: Mafic tuff. Sharp upper contact at 80° to C.A.						
		509.6 - 512.8: Mafic tuff. Well bedded at 80° to C.A. Minor sulphides.						
		512.0 - 512.5: Intermediate tuff. Good upper contact at 75° to C.A. 3-5% po, py.						
		* 508.0 - 509.6: Int. tuff. Sharp contact @ 90° to c.A.						
512.5	516.4	FELSIC TUFF (4c)						
		Greyish pink, med, coarse grained, very massive in appearance, non-mag, tr sulphides.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
516.4	537.7	MAFIC FLOW (1a) green, med. grained, minor q.v. top 1½' tuffaceous in appearance, tr sulph. 517.0: 2" zone - 2-3% cpy, 5-10% po, py. 536.2: Sharp flow contact at 60° to C.A. 536.8: 1" quartz-carb. vein displaced 2" along fracture - barren.						
537.7	545.8	FELSIC TUFF (4c) Greyish violet in colour, well bedded at 60° to C.A., several narrow q.v. throughout - 3, ¼" q.v. barren, tr py. throughout. 544.3: Gabbroic - dike (1½"), coarse grained, very sharp distinct contact at 60° to C.A., non-magnetic, no sulphides.						
545.8	552.9	MAFIC LAVA FLOW (1a) Green, med. grained, massive, tr py. 548.2: 2" zone of felsic tuff, ½% py.						
552.9	555.4	FELSIC FIKE (TUFF) (4) Coarse grained, slightly finer grained to the sides, non-mag. minor amphibole throughout, minor py throughout. Underlying contact contains a ½" zone of bluish green serp. with blebs of white carb.						
555.4	572.7	MAFIC LAVA FLOW (1a) Green, med. grained, minor q.v. 556.9: ¼" q.v. 5% cpy, 5% py. 557.4 - 558.2: Intermediate tuff. Greyish green bedded at 75° to C.A. 558.0: q.v. (½") 10° to C.A., 3-5% py. 559.8 - 560.2: Intermediate tuff. Below 561.2 numerous carb. quartz filled fractures, one set at 30°toC.A.						
572.7	575.4	FELSIC TUFF (4c) Flow contact and bedding at 80° to C.A. Grey, tr py, no q.v.						
575.4	610.0	MAFIC LAVA FLOW (1a) Green, med. grained, minor q.v. contains concentration of py in places. 582.7: 2¼" gabbroic dike. Contact at 75° to C.A. 601.7: Flow contact at 60° to C.A. 606.9 - 607.9: Several felsic veins pinkish in colour, barren						
	610	END OF HOLE						

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	269 + 50 NORTH	STARTED	April 18th, 1976						
HOLE NO.	38W-11	DEPARTURE	216 EAST	FINISHED	April 22nd, 1976	200'	44°				
BEARING	180°	ELEVATION		LENGTH	500 FEET	400'	43°				
DIP-COLLAR	- 45° SOUTH	SECTION		LOGGED BY	J. KORENIC						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
				26278	157	162	5	N
				26279	185	190	5	N
0	136.0	CASING		26280	237	242	5	N
				26281	253	258	5	N
136.0	250.0	DIORITE		26282	258	263	5	N
		Greenish grey/white, med. coarse grained (4-6mm) slightly mag. through-		26283	307	312	5	N
		out. The intrusive appears to be quite uniform in terms of grain size		26284	312	317	5	T
		and comp. It is generally composed of 30-40% mafic minerals with the		26285	317	322	5	T
		rest being mainly feldspar and minor quartz. In several sections		26286	365	370	5	T
		(136 - 146) there is upto 10% quartz, this would classify the rock as a		26287	395	400	5	T
		quartz diorite. The leucocratic minerals appear as anhedral to		26288	420	425	5	T
		subhedral crystals around and between the mafic crystals. Sulphides are		26289	425	430	5	T
		present only in the form of diss. py specks (tr).		26290	455	460	5	T
		From 146 - 161: there is a zone of brecciated mafic flow (?) inclusion.		26291	465	470	5	T
		The mafic unit is med. grained (2-3mm) green and contains subangular		26292	485	490	5	T
		fragments upto a foot in size. The matrix appears to be a silicified						
		diorite. Epidote is present in fractures. Secondary k-spar present.						
		157.6: 1" quartz vein - barren.						
		161 - 165.0: Silicified zone.						
		176.0 - 179.3: Inclusion of a biotite/feldspar/ amph. gneiss.						
		Fine grained, soft, greyish brown, no						
		sulphides present. The inclusion appears to						
		be bedded or banded at 20° to C.A. Has a						
		granular feel. It is possible that the origin						
		of the inclusion is sedimentary (?).						
		182.1 - 187.0: Grey, gneissic inclusion (?) - similar to						
		above. Weakly bedded at 50° to C.A.						
		considerably harder than above inclusions.						
		190.0 - 191.0: good saussurization of feldspar.						
		200.8 - 215.0: Mafic (tuff?) inclusion.						
		Green, fine grained, appears tuffaceous in						
		character, bedding (?) at 15-20° to C.A. 1%	1% py throughout					
		py throughout.						
		215.0 - 219.5: Med. grained diorite (1mm) with upto 5mm						
		feldspar phenos. throughout. Very weakly						
		foliated at 20° to C.A. dike(?) Contains						
		50-70% mafics.						
		219.4 - 222.4: Intermediate inclusion (?)						
		Fine grained, greyish green, hard, has a						
		mafic appearance, possibly a silicified mafic (?)						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
136.0	250.0	Contd.						
		219.4 - 222.4: Contd. Contains small 1mm amph. phenos.						
		222.4 - 226.0: Porphyritic med. grained. Diorite. Med. grained (1-2mm) contains upto 5mm feldspar phenos. Lower contact at 20° to C.A.						
		226.0 - 233.2: Intermediate inclusion. Greyish green, fine grained, massive, porphyritic (upto 3-5mm feldspar phenos.) Lower contact at 10° to C.A.						
		242.0 - 243.0: Sinuous flow (?) structure - 1% py assoc.						
250.0	305.0	DIORITE - ALTERED Comp. this unit is the same as the above except that the intrusive has been quite highly altered probably by hydrothermal activity along the underlying shear or fault zone. Distinctive orange colour present. Considerable k-spar alteration appears to be present throughout. Propylitic alt. quite mod. to intense throughout with the dominant mafic mineral being chlorite with lesser biotite. Epidote is present throughout principally along fractures but also in the form of stringers and patches. Minor py diss. throughout.						
		251.4 - 258.5: Fine grained, mafic inclusion. Intense propylitic alteration. Contacts are at various angles, a pair of q.v. present - barren. Degree of alt. appears to somewhat increase with depth.						
305.0	328.5	ULTRAMAFIC DIKE (?) - Non-magnetic Dark greenish black - black, very fine grained, soft, non-mag. This unit appears to have been serp. Considerable talc and serp. present. Minor (very) carb. appears to be present. The unit does not react with HCL. This unit is quite highly broken up (low RQD) being part of the shear zone. Narrow gouge at 312.0. Minor secondary k-spar blebs present. No sulphides or q.v. present.	No sulphides					
328.5	345.5	DIORITE ALTERED - Highly silicified, appears to be weakly foliated at 75° to C.A. Has a "Granite" appearance due to the alt. of the feldspars. Mafics appear here - have been altered to chlorite. Epidote present.						
		332.8 - 335.0: Dioritic dike - schlieren? 50-70% mafics, both contacts at 60° to C.A.						
345.5	353.0	GABBROIC (DIKE ?) - Green, coarse grained, contains approx. 80% mafic minerals predominantly amphiboles and pyroxenes. Feldspars appear to have been altered. Non-magnetic.						

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

PROPERTY DETOUR LAKE HOLE NO. 38W-11 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
345.5	353.0	Contd.						
		From 345.5 - 347 there is a dark green to black unit similar to the above ultramafic unit however this unit is very hard - silificied (?) non-magnetic.						
		There is a highly broken up zone at 338.5 - 1½' and between 345 - 350.						
		From 351.5 - 362 there is a highly broken - up zone - several gouges present throughout - fault zone.						
353.0	395.3	DIORITE - Altered						
		From 362 - 368.5 the diorite is essentially the same as the above altered diorites. Chlorite and epidote are quite abundant. Considerable k-spar alt. Several narrow slightly silicified zones present, cemented fractures.						
		368.5 - 393.0: Highly silicified diorite. Very hard, barely tr py present. Propylitic alt. evident. Feldspar alt. present - characteristic orange colour. Several zones are highly broken-up with several gouge zones present (379.3).						
395.3	500.0	DIORITE						
		Dark green, med. grained size (2-3mm) mafic content appears slightly higher than in the upper part of the hole (50-60% mafics) Generally unaltered except below 449'. Slightly magnetic. Massive.						
		400.0 - 405.5: Fine grained, olive green, mafic inclusion ? Upper contact at 45° to C.A., lower contact at 60° to C.A. Numerous epidote fractures.						
		407.4 - 409.2: Mafic inclusion. Below 447' the intrusive becoming increasing altered with alt. of feldspars increasing chlorite and epidote content. Several felsic veins present, tr py Silicified sections below 469.3.						
		467 - 469.3: Mafic inclusion. Contains ½% diss. py (1mm crystals throughout) fine grained, non-magnetic. Below 478' - several hematite stringers and thin veinlets throughout.						
		489.0: 1" q.v. barren. Intense k-spar alt. alongside.						
	500.0	END OF HOLE						

TROPARI

300' DIP 29° 205°
Bottom of hole DIP 24° 176.5°

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE	198+ 00N	STARTED	August 15th, 1975						
HOLE NO.	38 - 68	DEPARTURE	178+ 00 E	FINISHED	August 18th, 1975	200'	39½°				
BEARING	180°	ELEVATION		LENGTH	583'	400'	29°				
DIP-COLLAR	-45°	SECTION		LOGGED BY	P. M. H. RITCHIE						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.		
				A11515	90.0	95.0	5.0	.010				
0	90.0	CASING		A11516	95.0	100.0	5.0	T				
				A11517	100.0	105.0	5.0	T				
90.0	250.0	Fine to medium grained green grey mafic flows (1a)		A11518	105.0	110.0	5.0	T				
		Tr py, po, cpy	tr py, po, cpy	A11519	110.0	115.0	5.0	T				
		212 - 250: Fine to medium grained green grey mafic flows, (1a) minor tuffs		A11520	115.0	120.0	5.0	.010				
				A11521	120.0	125.0	5.0	.01				
		½-1% po, py, tr cpy	½-1% py, po, cpy	A11522	125.0	130.0	5.0	.02				
				A11523	130.0	135.0	5.0	.005				
250.0	253.5	Grey brown cherty tuff (3) No sulfides		A11524	135.0	140.0	5.0	T				
				A11525	140.0	145.0	5.0	.01				
253.5	331.0	Fine to medium grained green grey mafic flows and tuffs (1a, 1c)	no sulfides.	A11526	145.0	150.0	5.0	.01				
		½-1% po, py, tr cpy	½-1% po, py, tr cpy	A11527	150.0	155.0	5.0	T				
		Tuffaceous bedding at 275' 57° to C.A.		A11528	155.0	160.0	5.0	T				
		254.9: V.G. 3 specks in 3" quartz vein	V.G. 3 specks	A11529	160.0	165.0	5.0	T				
				A11530	165.0	170.0	5.0	.01				
331.0	386.0	Grey and grey green mafic tuffs and fine grained mafic flows (1a, 1c)		A11531	170.0	175.0	5.0	.005				
		1% py, po, tr cpy	1% py, po, tr cpy	A11532	175.0	180.0	5.0	.005				
				A11533	180.0	185.0	5.0	T				
386.0	404.2	Grey felsic tuffs (4c)		A11534	185.0	190.0	5.0	.025				
		Contact 68° to C.A.		A11535	190.0	195.0	5.0	T				
		¼% py, po	¼% py, po	A11536	195.0	200.0	5.0	.03				
		386.0 - 388.0: Cherty tuff (3)		A11537	200.0	205.0	5.0	.035				
		396.0 - 401.0: Green grey mafic tuff (1c)		A11538	205.0	210.0	5.0	.04				
		387.3: V.G. 10 specks in quartz stringer	V.G. 10 specks	A11539	210.0	215.0	5.0	T				
				A11540	215.0	220.0	5.0	T				
404.2	426.7	Chloritic alteration zone (5b)		A11541	220.0	225.0	5.0	T				
		Green chlorite schist		A11542	225.0	230.0	5.0	T				
		406.6 - 407.0: Grey felsic tuff		A11543	230.0	235.0	5.0	.040				
		Tr cpy, py	tr cpy, py	A11544	235.0	240.0	5.0	T				
				A11545	240.0	245.0	5.0	.025				
426.7	439.8	Ultramafic zone		A11546	245.0	250.0	5.0	.015				
		Contact 63° to C.A. Talc chlorite schist (6a)		A11547	250.0	254.4	4.4	T				
		No sulfides	no sulfides	A11548	254.4	255.4	1.0	.090			V.G.	whole core
				A11549	255.4	259.0	3.6	T				
439.8	452.0	Grey mafic to intermediate tuff (1c)		A11550	259.0	264.0	5.0	T				
		phlogopitic		A11551	264.0	269.0	5.0	T				
		448 - 449: grey felsic tuff.		A11552	269.0	274.0	5.0	.005				
		Tr py	tr py	A11553	274.0	279.0	5.0	.010				
				A11554	279.0	284.0	5.0	.020				

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

PROPERTY DETOUR LAKES HOLE NO. 38 - 68

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.		
				A11555	284.0	289.0	5.0	T				
452.0	455.6	Light grey felsic tuff (4c) cherty the last foot		A11556	289.0	294.0	5.0	.010				
		Tr py	tr py	A11557	294.0	299.0	5.0	T				
		454.2: ¼" vein of shiny metallic (?) mineral		A11558	299.0	304.0	5.0	.005				
				A11559	304.0	309.0	5.0	.005				
455.6	481.0	Ultramafic zone (6a)		A11560	309.0	314.0	5.0	.015				
		Talc chlorite schist ; becomes more chloritic the last few feet		A11561	314.0	319.0	5.0	.025				
		Contact 58° to C.A.		A11562	319.0	324.0	5.0	T				
		Tr py, po cpy	Tr py, po, cpy	A11563	324.0	329.0	5.0	T				
				A11564	329.0	334.0	5.0	.005				
481.0	532.5	Green and grey mafic tuff (1c); minor felsic tuff chloritic in places		A11565	334.0	339.0	5.0	T				
		517.3 - 517.6: Light grey felsic tuff		A11566	339.0	344.0	5.0	.01				
		520.3 - 522.0: light grey cherty felsic tuff (3)		A11567	344.0	349.0	5.0	.015				
		¼ - ½% py, po	¼-½% py, po	A11568	349.0	354.0	5.0	T				
				A11569	354.0	359.0	5.0	.02				
532.5	556.5	Light grey to grey felsic tuff (4c); minor mafic tuffs. Contact 63° to C.A.		A11570	359.0	364.0	5.0	.005				
		532.5 - 533.5: Cherty tuff (3)		A11571	364.0	369.0	5.0	.01				
		540.5 - 541.5: Green grey mafic tuff		A11572	369.0	374.0	5.0	.01				
		543.0 - 546.0: pink cherty tuff (3)		A11573	374.0	379.0	5.0	.005				
		¼% py	¼% py	A11574	379.0	384.0	5.0	T				
				A11575	384.0	386.7	2.7	T				
556.5	572.0	Green chloritic mafic tuff (1c)		A11576	386.7	387.7	1.0	.248			V.G.	w/core
		Contact 64° to C.A.		A11577	387.7	392.0	4.3	.015				
		Also contains a few rounded feldspar (pink and white) fragments up to ½"		A11578	392.0	397.0	5.0	.015				
		¼% py	¼% py	A11579	397.0	402.0	5.0	.02				
				A11580	402.0	407.0	5.0	.015				
572.0	583.0	Felsic agglomerate (4b)		A11581	407.0	412.0	5.0	.005				
		Chloritic carbonaceous matrix. White rounded feldspar fragments upto		A11582	412.0	417.0	5.0	.005				
		1" representing 40% of the rock. A few pink fragments.		A11583	417.0	422.0	5.0	.005				
		tr py	tr py	A11584	422.0	427.0	5.0	T				
				A11585	427.0	432.0	5.0	T				
				A11586	432.0	437.0	5.0	N				
				A11587	437.0	442.0	5.0	T				
	583.0	END OF HOLE		A11588	442.0	447.0	5.0	T				
				A11589	447.0	452.0	5.0	T				
				A11590	452.0	457.0	5.0	T				
				A11591	457.0	462.0	5.0	T				
				A11592	462.0	467.0	5.0	T				
				A11593	467.0	472.0	5.0	.020				
				A11594	472.0	477.0	5.0	T				
				A11595	477.0	482.0	5.0	T				
				A11596	482.0	487.0	5.0	T				
				A11597	487.0	492.0	5.0	T				
				A11598	492.0	497.0	5.0	.01				
				A11599	497.0	502.0	5.0	T				
				A11600	502.0	507.0	5.0	T				
				A11601	507.0	512.0	5.0	T				
				A11602	512.0	517.0	5.0	T				
				A11603	517.0	522.0	5.0	T				
				A11604	522.0	527.0	5.0	T				
				A11605	527.0	532.0	5.0	.045				
				A11606	532.0	537.0	5.0	T				
				A11607	537.0	543.0	5.0	.03				

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

PROPERTY DETOUR LAKES HOLE NO. 38 - 68

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
				A11608	542.0	547.0	5.0	T		
				A11609	547.0	552.0	5.0	.01		
				A11610	552.0	557.0	5.0	T		
				A11611	557.0	562.0	5.0	.005		
				A11612	562.0	567.0	5.0	.005		
				A11613	567.0	572.0	5.0	T		
				A11614	572.0	577.0	5.0	T		
				A11615	577.0	583.0	6.0	T		

Tropari 400' 176° 33° Dip
905' end of hole 182° 21° Dip

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE	201 + 50N	STARTED	AUGUST 7th, 1975						
HOLE NO.	38 - 65	DEPARTURE	180 + 00 E	FINISHED	AUGUST 12th, 1975	200'	40°	800'	21°		
BEARING	180°	ELEVATION		LENGTH	905'	400'	31°				
COLLAR	- 45°	SECTION		LOGGED BY	P. M. H. RITCHIE	600'	27°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	16.0	CASING	
16.0	89.0	Fine grained green grey mafic flow and tuffs. (1a, 1c)	
		Tr to ¼% py, po, cpy	tr to ¼% py, po, cpy
		Small quartz, carbonate and quartz carbonate veins are common.	
89.0	162.0	GREY MAFIC TUFFS, MINOR FLOWS (1c)	
		1½% py, tr po, cpy	1½% py, tr po, cpy.
		Abundant small quartz, carbonate and quartz-carbonate veins.	
		93.5 - 98.5: Light grey felsic flow (4a)	
		Fine grained porphyritic tr py, po	tr po, py
		106.0 - 107.8: Grey intermediate to felsic tuff	
		154.0 - 160.0: Grey intermediate tuff; (2c) tr py	tr py
		Tuffaceous bedding at 159' 39° to C.A.	
162.0	216.3	GREY MAFIC TUFF (1c) MINOR FLOWS.	
		1% py, tr po, cpy.	1% py, tr po, cpy.
		Small quartz, carbonate and quartz-carbonate veins are common.	
216.3	224.0	GREY INTERMEDIATE FINE GRAINED FLOW (2a)	
		No sulphides.	No sulphides
224.0	316.0	MEDIUM GRAINED GREY GREEN MAFIC FLOWS (1a) 60° contact with	
		C.A. "Green measle appearance", minor fine grained tr py, po	tr py, po
		Many quartz, carbonate and quartz-carbonate veins (small)	
316.0	322.0	LIGHT GREY FELSIC TO INTERMEDIATE FLOW (4a)	
		Tr py, po, cpy	tr py, po, cpy
322.0	380.0	FINE TO MEDIUM GRAINED GREY MAFIC FLOW (1a)	
		Tr py, po, cpy	tr py, po, cpy
		348.8: V.G. 3 very small specks in quartz stringer	V.G. 3 very small spks
		355.5: V.G. 10-15 small specks in 1/3" quartz vein	V.G. 10-15 small
		and in chlorite adjacent to the quartz	specks

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	D.
A11329	16.0	21.0	5.0	.03			
A11330	21.0	26.0	5.0	.01			
A11331	26.0	31.0	5.0	T			
A11332	31.0	36.0	5.0	T			
A11333	36.0	41.0	5.0	T			
A11334	41.0	46.0	5.0	T			
A11335	46.0	51.0	5.0	T			
A11336	51.0	56.0	5.0	T			
A11337	56.0	61.0	5.0	T			
A11338	61.0	66.0	5.0	T			
A11339	66.0	71.0	5.0	T			
A11340	71.0	76.0	5.0	T			
A11341	76.0	81.0	5.0	T			
A11342	81.0	86.0	5.0	T			
A11343	86.0	91.0	5.0	T			
A11344	91.0	96.0	5.0	T			
A11345	96.0	101.0	5.0	T			
A11346	101.0	106.0	5.0	.025			
A11347	106.0	111.0	5.0	T			
A11348	111.0	116.0	5.0	T			
A11349	116.0	121.0	5.0	.015			
A11350	121.0	126.0	5.0	T			
A11351	126.0	131.0	5.0	.01			
A11352	131.0	136.0	5.0	T			
A11353	136.0	141.0	5.0	T			
A11354	141.0	146.0	5.0	.01			
A11355	146.0	151.0	5.0	.015			
A11356	151.0	156.0	5.0	.01			
A11357	156.0	161.0	5.0	.005			
A11358	161.0	166.0	5.0	.085			.06
A11359	166.0	171.0	5.0	T			
A11360	171.0	176.0	5.0	T			
A11361	176.0	181.0	5.0	T			
A11362	181.0	186.0	5.0	.045			
A11363	186.0	191.0	5.0	T			
A11364	191.0	196.0	5.0	.09	.175 / 10'		.07
A11365	196.0	201.0	5.0	.26			.25
A11366	201.0	206.0	5.0	.02			
A11367	206.0	211.0	5.0	.01			
A11368	211.0	216.0	5.0	T			

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.		
				A11369	216.0	221.0	5.0	T				
380.0	453.0	FINE TO MEDIUM GRAINED GREY-GREEN MAFIC FLOW (1a)		A11370	221.0	226.0	5.0	T				
		Tr - ¼% py, po, cpy	Tr - ¼% po, py, cpy	A11371	226.0	231.0	5.0	.05				
		392.7: V.G. 7 very small specks in ½" quartz vein and in chlorite adjacent the quartz vein.	V.G. 7 very small specks	A11372	231.0	236.0	5.0	T				
				A11373	236.0	241.0	5.0	.002				
		422.7: V.G. 8 small specks in a 1½" quartz vein with cpy	V.G. 8 small specks with cpy.	A11374	241.0	246.0	5.0	N				
				A11375	246.0	251.0	5.0	.002				
		422.95: V.G. 2 specks in a quartz stringer with cpy	2 specks V.G. with cpy	A11376	251.0	256.0	5.0	.001				
				A11377	256.0	261.0	5.0	.04				
				A11378	261.0	266.0	5.0	.035				
453.0	526.0	FINE TO MEDIUM GRAINED GREY MAFIC TO INTERMEDIATE FLOWS (1a)		A11379	266.0	271.0	5.0	.01				
				A11380	271.0	276.0	5.0	.02				
		Carbonate blebs, ¼% Py, po, cpy.	¼% Py, po, cpy	A11381	276.0	281.0	5.0	.005				
				A11382	281.0	286.0	5.0	.002				
526.0	598.0	GREY AND GREY-GREEN MAFIC TO INTERMEDIATE (1a)		A11383	286.0	291.0	5.0	.002				
		Fine to medium grained flows; minor dioritic texture. Carbonate blebs.		A11384	291.0	296.0	5.0	.005				
		Tr to ¼% py, po, cpy (mostly in a few quartz and carbonate veins)		A11385	296.0	301.0	5.0	.002				
		578.4: V.G. 1 small speck in ¼" grey quartz vein.	V.G. 1 small speck.	A11386	301.0	306.0	5.0	.002				
				A11387	306.0	311.0	5.0	N				
598.0	671.0	FINE TO MEDIUM GRAINED GREY AND GREY-GREEN MAFIC FLOWS (1a)		A11388	311.0	316.0	5.0	N				
		Except 640.5 - 642.5: Pink cherty tuff (3)		A11389	316.0	321.0	5.0	.01				
		625.0 - 625.3: Cherty tuff (3)		A11390	321.0	326.0	5.0	.005				
		625.8 - 626.0: Cherty tuff (3)		A11391	326.0	331.0	5.0	.005				
		Tr - ¼% py, po, cpy.	tr - ¼% py, po, cpy	A11392	331.0	336.0	5.0	T				
		625.2: V.G. 2 small specks in pinkish cherty tuff with cpy	V.G. 2 small specks with cpy.	A11393	336.0	341.0	5.0	.01				
				A11394	341.0	346.0	5.0	T				
				A11395	346.0	348.3	2.3	T				
671.0	718.0	FINE TO MEDIUM GRAINED GREY-GREEN MAFIC FLOWS (1a)		A11396	348.3	349.3	1.0	.084			V.G.	~~whole~~ core
		½% - 1% Py, po, tr cpy.	½-1% py, po, cpy	A11397	349.3	353.3	4.0	T				
		707.9: V.G. 3 specks in chlorite adjacent to a 1½" quartz vein.	V.G. - 3 specks	A11398	353.3	355.0	1.7	.01				
				A11399	355.0	356.0	1.0	.302			V.G.	w/core
				A11400	356.0	361.0	5.0	T				
718.0	744.7	LIGHT GREY CRYSTAL FELSIC TUFF (4c) CHERTY IN PLACES.		A11401	361.0	366.0	5.0	T				
		½ - 1% py, po.	½-1% py, po.	A11402	366.0	371.0	5.0	T				
		734.5 - 737.0: Green grey mafic tuff (1c)		A11403	371.0	376.0	5.0	T				
		Lower contact 54° to C.A.		A11404	376.0	381.0	5.0	.01				
				A11405	381.0	386.0	5.0	T				
744.7	751.0	CHLORITIC MAFIC TUFF (1c)		A11406	386.0	392.3	6.3	T				
		Tr po, py, cpy.	tr po, py, cpy	A11407	392.3	393.3	1.0	.217			V.G.	w/core
				A11408	393.3	398.0	4.7	T				
751.0	758.0	CHLORITE ALTERATION ZONE (5)		A11409	398.0	403.0	5.0	N				
		Tr py.	tr py.	A11410	403.0	408.0	5.0	N				
		757.7 - 758.0: Grey felsic tuff with tr po, cpy.		A11411	408.0	413.0	5.0	T				
				A11412	413.0	418.0	5.0	.01				
758.0	765.2	TALC CHLORITE SCHIST - ULTRA MAFIC (6a)		A11413	418.0	422.3	4.3	.355	.477			
		No sulphides.	No sulphides.	A11414	422.3	423.3	1.0	1.01	5.3'		V.G.	w/core
				A11415	423.3	428.0	4.7	.02				
765.2	774.7	GREY MAFIC TO INTERMEDIATE TUFF (1c)		A11416	428.0	433.0	5.0	.01				
		Tr py, po.	tr py, po	A11417	433.0	438.0	5.0	.01				
				A11418	438.0	443.0	5.0	T				
774.7	781.0	LIGHT GREY CHERTY TUFF (3)		A11419	443.0	448.0	5.0	T				
		Tr py, po	tr py, po	A11420	448.0	453.0	5.0	.01				
				A11421	453.0	458.0	5.0	.01				
				A11422	458.0	463.0	5.0	T				

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PROPERTY DETOUR LAKES HOLE NO. DLO-38-65

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.		
				A11423	463.0	468.0	5.0	T				
781.0	825.0	TALC CHLORITE SCHIST - ULTRAMAFIC (6a)		A11424	468.0	473.0	5.0	.01				
		Becoming more chloritic the last 20'. Tr py	tr py	A11425	473.0	478.0	5.0	T				
		799.0 - 801.0: Light grey felsic tuff (4c).		A11426	478.0	483.0	5.0	T				
				A11427	483.0	489.0	6.0	.04				
825.0	905.0	GREY-GREEN MAFIC TUFFS (1c)		A11428	489.0	493.0	4.0	.04				
		Tr py, po, cpy (one large speck only)	tr py, po, cpy	A11429	493.0	498.0	5.0	T				
				A11430	498.0	503.0	5.0	T				
				A11431	503.0	508.0	5.0	.01				
				A11432	508.0	513.0	5.0	.01				
	905.0	END OF HOLE		A11433	513.0	518.0	5.0	.03				
				A11434	518.0	523.0	5.0	.02				
				A11435	523.0	528.0	5.0	T				
				A11436	528.0	533.0	5.0	T				
				A11437	533.0	538.0	5.0	T				
				A11438	538.0	543.0	5.0	T				
				A11439	543.0	548.0	5.0	.01				
				A11440	548.0	553.0	5.0	T				
				A11441	553.0	558.0	5.0	T				
				A11442	558.0	563.0	5.0	T				
				A11443	563.0	568.0	5.0	T				
				A11444	568.0	573.0	5.0	T				
				A11445	573.0	578.0	5.0	T				
				A11446	578.0	579.0	1.0	.254			V.G.	w/core
				A11447	579.0	584.0	5.0	.02				
				A11448	584.0	589.0	5.0	.02				
				A11449	589.0	594.0	5.0	T				
				A11450	594.0	599.0	5.0	.01				
				A11451	599.0	604.0	5.0	T				
				A11452	604.0	609.0	5.0	.02				
				A11453	609.0	614.0	5.0	T				
				A11454	614.0	619.0	5.0	T				
				A11455	619.0	625.0	6.0	.01				
				A11456	625.0	626.0	1.0	.393			V.G.	w/core
				A11457	626.0	631.0	5.0	.03				
				A11458	631.0	636.0	5.0	T				
				A11459	636.0	641.0	5.0	.02				
				A11460	641.0	646.0	5.0	.025				
				A11461	646.0	651.0	5.0	T				
				A11462	651.0	656.0	5.0	T				
				A11463	656.0	661.0	5.0	T				
				A11464	661.0	666.0	5.0	T				
				A11465	666.0	671.0	5.0	T				
				A11466	671.0	676.0	5.0	T				
				A11467	676.0	681.0	5.0	.03				
				A11468	681.0	686.0	5.0	.045				
				A11469	686.0	691.0	5.0	.03				
				A11470	691.0	696.0	5.0	.04				
				A11471	696.0	701.0	5.0	.03				
				A11472	701.0	706.0	5.0	.01				
				A11473	706.0	707.5	1.5	.01				
				A11474	707.5	708.5	1.0	.99			V.G.	w/core
				A11475	708.5	713.0	4.5	.015				
				A11476	713.0	718.0	5.0	.015				

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

PROPERTY DETOUR LAKES HOLE NO. 38 - 65

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
				A11477	718.0	723.0	5.0	.045		
				A11478	723.0	728.0	5.0	.015		
				A11479	728.0	733.0	5.0	T		
				A11480	733.0	738.0	5.0	.025		
				A11481	738.0	743.0	5.0	.01		
				A11482	743.0	748.0	5.0	T		
				A11483	748.0	753.0	5.0	.010		
				A11484	753.0	758.0	5.0	.005		
				A11485	758.0	763.0	5.0	.005		
				A11486	763.0	768.0	5.0	T		
				A11487	768.0	773.0	5.0	T		
				A11488	773.0	778.0	5.0	T		
				A11489	778.0	783.0	5.0	T		
				A11490	783.0	788.0	5.0	T		
				A11491	788.0	793.0	5.0	T		
				A11492	793.0	798.0	5.0	T		
				A11493	798.0	803.0	5.0	.005		
				A11494	803.0	808.0	5.0	T		
				A11495	808.0	813.0	5.0	T		
				A11496	813.0	818.0	5.0	.010		
				A11497	818.0	823.0	5.0	.005		
				A11498	823.0	828.0	5.0	.005		
				A11499	828.0	833.0	5.0	T		
				A11500	833.0	838.0	5.0	T		
				A11501	838.0	843.0	5.0	T		
				A11502	843.0	848.0	5.0	T		
				A11503	848.0	853.0	5.0	T		
				A11504	853.0	858.0	5.0	T		
				A11505	858.0	863.0	5.0	T		
				A11506	863.0	868.0	5.0	T		
				A11507	868.0	873.0	5.0	T		
				A11508	873.0	878.0	5.0	T		
				A11509	878.0	883.0	5.0	N		
				A11510	883.0	888.0	5.0	N		
				A11511	888.0	893.0	5.0	N		
				A11512	893.0	898.0	5.0	T		
				A11513	898.0	903.0	5.0	T		
				A11514	903.0	905.0	2.0	N		

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKES	LATITUDE	204 + 00N	STARTED	JULY 27th, 1975						
HOLE NO.	38 - 61	DEPARTURE	186 + 00E	FINISHED	AUGUST 4th, 1975	200'	43°	800'	32°		
BEARING	180°	ELEVATION		LENGTH	1187'	400'	39°	1000'	35°		
DIP-COLLAR	- 45°	SECTION		LOGGED BY	P. M. H. RITCHIE	600'	38°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
				A11094	42.0	47.0	5.0	.04			
0	42.0	CASING		A11095	47.0	52.0	5.0	T			
				A11096	52.0	57.0	5.0	.03			
42.0	209.0	GREY GREEN FINE GRAINED MAFIC TUFFS AND FLOWS (1a, 1c)		A11097	57.0	62.0	5.0	.01			
		Minor medium grained. Minor breccia.		A11098	62.0	67.0	5.0	T			
		1½% py, po, cpy (in order of abundance) blebs, stringers and diss.	1½% py, po, cpy	A11099	67.0	72.0	5.0	T			
		(less cpy from 100 - 136 than from 42 - 100)		A11100	72.0	77.0	5.0	.01			
		44.6: 1" quartz vein with cpy, py		A11101	77.0	82.0	5.0	.04			
		53.7: 1/3" quartz vein with po, cpy, py		A11102	82.0	87.0	5.0	T			
		62.5: 2" quartz vein with po, cpy, py		A11103	87.0	92.0	5.0	T			
		68.6: 1/3" quartz vein with po, py		A11104	92.0	97.0	5.0	T			
		71.0: 1/3" quartz vein with po, py and cpy		A11105	97.0	102.0	5.0	T			
		74.0: ½" quartz vein with po and cpy		A11106	102.0	107.0	5.0	T			
		90.0: 1" quartz vein with py, po		A11107	107.0	112.0	5.0	.03			
		107.0: 3/4" quartz vein with py, po		A11108	112.0	117.0	5.0	T			
		122.0: 1/3" quartz vein with py, po		A11109	117.0	122.0	5.0	T			
				A11110	122.0	127.0	5.0	.04			
		146.0: 2-1" irregular quartz veins po, py		A11111	127.0	132.0	5.0	T			
		167.0: ½" quartz vein parallel to C.A. po, py		A11112	132.0	137.0	5.0	.005		.054	
		177.2: ½" quartz vein py, po		A11113	137.0	142.0	5.0	T		.02	
		180.0: 1" quartz vein		A11114	142.0	147.0	5.0	T		.03	
		191.0: 3" quartz vein py, po		A11115	147.0	152.0	5.0	T		.021	
		197.7: ½" quartz vein py, po, cpy		A11116	152.0	157.0	5.0	T		.022	
		203.6: ½" quartz vein py		A11117	157.0	162.0	5.0	T		.013	
				A11118	162.0	167.0	5.0	T		.018	
209.0	427.0	GREY GREEN FINE TO MEDIUM GRAINED MAFIC TO INTER. FLOWS		A11119	167.0	172.0	5.0	.01		.007	
		AND TUFFS (1a), (1c)		A11120	172.0	177.0	5.0	T		.014	
		Small quartz carbonate veins and blebs are common.		A11121	177.0	182.0	5.0	T		.021	
		218.8: ½" quartz vein py		A11122	182.0	187.0	5.0	T		.026	
		243.2: 3/4" quartz vein py, po, cpy		A11123	187.0	192.0	5.0	.255			
		245.5: Calcite blebs.		A11124	192.0	197.0	5.0	.005			
		249.0: ½" quartz vein - V.G. - 1 speck	V.G., (1)	A11125	197.0	202.0	5.0	T			
		249.7: 3" quartz vein py, po, cpy		A11126	202.0	207.0	5.0	.010			
		251.6: 6" carbonate vein		A11127	207.0	212.0	5.0	.020			
		257.1: 2" carbonate vein		A11128	212.0	217.0	5.0	.02		.027	
		258.3: ¼" quartz carbonate vein		A11129	217.0	222.0	5.0	.02		.085	
		260.5: ¼" quartz carbonate vein po, py		A11130	222.0	227.0	5.0	.011	.215	.123	
		271.0: 2" carbonate vein		A11131	227.0	232.0	5.0	.32	10'	.039	
		272.0: 0.8' quartz carbonate vein		A11132	232.0	237.0	5.0	.02		.023	
		275.0: 3" quartz carbonate vein		A11133	237.0	242.0	5.0	.03		.027	

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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 Pulp Assay	
				A11134	242.0	248.5	6.5	.01				
209.0	427.0	CONTD.		A11135	248.5	249.5	1.0	.230			V.G.	whole core
		209.0 - 240.0: 1% py, po, tr cpy	1% py, po, tr cpy	A11136	249.5	255.0	5.5	T		.02		
		296.7: 6" quartz - carbonate vein - pink		A11137	255.0	260.0	5.0	T		.01		
		301.5: 0.3' quartz - carbonate vein po, py		A11138	260.0	265.0	5.0	T		.02		
		303.2: 6" quartz - carbonate vein po, py		A11139	265.0	270.0	5.0	.02		.02		
		332.0: 4" quartz - carbonate vein py, po, tr cpy		A11140	270.0	275.0	5.0	.025		.01		
		314.0: 0.6' quartz - carbonate vein py, po		A11141	275.0	280.0	5.0	.01		.02		
		323.1: 1½" quartz vein py		A11142	280.0	285.0	5.0	T		.03		
		342.7: 2' quartz vein py		A11143	285.0	290.0	5.0	T				
		347.7: ½" quartz vein py		A11144	290.0	295.0	5.0	.02				
		354.0: 1" quartz vein tr py, po, cpy		A11145	295.0	300.0	5.0	.01				
				A11146	300.0	305.0	5.0	.005				
		240.0 - 356.0: ½% py, po, tr cpy	½% py, po, tr cpy	A11147	305.0	310.0	5.0	T				
		359.0: 1" quartz vein		A11148	310.0	315.0	5.0	.005				
		370.8: 3/4" quartz vein po, py		A11149	315.0	320.0	5.0	T				
		388.0: ½" irregular quartz - carbonate vein po, cpy		A11150	320.0	325.0	5.0	T				
		399.5: 2" quartz vein py		A11151	325.0	330.0	5.0	T				
		411.0: 0.6' quartz vein separated by 1½" flow material po, cpy. V.G. one speck.	V.G. (1)	A11152	330.0	335.0	5.0	T		.03		
				A11153	335.0	340.0	5.0	T				
		415.5: 1" quartz vein py		A11154	340.0	345.0	5.0	.16		.04		
		415.8: 1" quartz vein py		A11155	345.0	350.0	5.0	.03	.06			
		426.4: ½" quartz vein V.G. 1 speck with smaller specks surrounding	V.G. (1) with smaller spks. surrounding.	A11156	350.0	355.0	5.0	T	20'			
				A11157	355.0	360.0	5.0	.055				
				A11158	360.0	365.0	5.0	T				
		356.0 - 427.0: ¼ - ½% po, py, cpy.		A11159	365.0	370.0	5.0	T				
				A11160	370.0	375.0	5.0	.04				
427.0	726.0	DARK GREY FINE TO MEDIUM GRAINED MAFIC FLOW (la) MINOR TUFF		A11161	375.0	380.0	5.0	.005				
				A11162	380.0	385.0	5.0	T				
		427.0: 2½" quartz vein cpy, po		A11163	385.0	390.0	5.0	T				
		435.7: 1/3" quartz vein V.G. 4 areas composed of very small specks	V.G. 4 areas composed of very small spks	A11164	390.0	395.0	5.0	.005				
				A11165	395.0	400.0	5.0	T				
		436.8: 3/4" quartz vein V.G. 2 very small specks	V.G. 2 v. small spks.	A11166	400.0	405.0	5.0	T				
		441.5: 3" quartz vein.		A11167	405.0	411.0	6.0	T				
		461.5: 3" quartz vein V.G. 2 very small specks	V.G. 2 v.small spks.	A11168	411.0	412.0	1.0	.42			V.G.	w/core
		462.3: 0.7' quartz vein possible V.G. very small Cpy, po	Possible V.G. v.small	A11169	412.0	417.0	5.0	T				
				A11170	417.0	422.0	5.0	T				
		478.4: ½" quartz vein		A11171	422.0	426.0	4.0	.025				
		478.7: ½" quartz vein		A11172	426.0	427.0	1.0	.075			V.G.	w/core
		479.0: ½" quartz vein		A11173	427.0	432.0	5.0	.06				
		490.3: 1" quartz vein po, cpy		A11174	432.0	435.0	3.0	T				V.G.
		494.0 - 495.0: 7% po	7% po	A11175	435.0	437.5	2.5	.345			.322	w/core
		494.1: 1½" quartz vein po, cpy		A11176	437.5	442.0	4.5	.015				
		500.6: 5" quartz vein po		A11177	442.0	447.0	5.0	T				
		506.7: 2" quartz vein po		A11178	447.0	452.0	5.0	.005				
		512.7: 1.8' quartz vein po, cpy		A11179	452.0	457.0	5.0	T				
		518.7: 1" quartz vein		A11180	457.0	461.0	4.0	T				V.G.
		522.7: ½" quartz vein		A11181	461.0	463.0	2.0	.60	pulp .575	.07	.575	w/core
		523.4: ½" quartz vein		A11182	463.0	468.0	5.0	.04				
		427.0 - 526.0: ⅓% po, cpy, py in order of abundance	⅓% po, cpy, py in order of abundance	A11183	468.0	473.0	5.0	T				
				A11184	473.0	478.0	5.0	.02				
		526.5: 2" quartz vein		A11185	478.0	483.0	5.0	.01				
		534.7: 3" quartz vein		A11186	483.0	488.0	5.0	T				
		537.5: 1½" quartz - carbonate vein		A11187	488.0	493.0	5.0	.01		.14		

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PROPERTY DETOUR LAKES HOLE NO. 38 - 61 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS pulp assay	
				A11188	493.0	498.0	5.0	.01		.07		
427.0	726.0	CONT'D.		A11189	498.0	503.0	5.0	.01				
		540.4: 2" quartz vein		A11190	503.0	508.0	5.0	.01				
		545.8: 1" quartz vein		A11191	508.0	513.0	5.0	.06				
		550.0: 0.75' quartz vein interbedded with mafic flows po		A11192	513.0	518.0	5.0	.06	.06 / 15'			
				A11193	518.0	523.0	5.0	.07				
		551.4: 1" quartz vein po, cpy		A11194	523.0	528.0	5.0	T				
		555.5: 1" quartz vein		A11195	528.0	533.0	5.0	T				
		561.3: 2" quartz vein po, cpy, py		A11196	533.0	538.0	5.0	T				
		562.2: 1' quartz vein po		A11197	538.0	543.0	5.0	T				
		563.7: 3" quartz vein		A11198	543.0	548.0	5.0	T				
		571.7: ½" quartz vein		A11199	548.0	553.0	5.0	T				
		572.1: 1½" quartz vein		A11200	553.0	558.0	5.0	T				
		577.4: 3/4" quartz-carbonate vein		A11201	558.0	563.0	5.0	.005				
		Small quartz-carbonate veins are common		A11202	563.0	568.0	5.0	.125			.115	
		526.0 - 601.0: ¼% po, cpy, py	¼% po, cpy, py	A11203	568.0	573.0	5.0	T				
		602.0: 1½" quartz vein cpy		A11204	573.0	578.0	5.0	T				
		602.5: 3" quartz vein py		A11205	578.0	583.0	5.0	T				
		620.5: 1½" quartz vein po		A11206	583.0	588.0	5.0	T				
		621.0: 2" quartz vein po, py, cpy		A11207	588.0	593.0	5.0	T				
		624.5: 1½" quartz vein		A11208	593.0	598.0	5.0	T				
		625.0: 3" quartz vein		A11209	598.0	603.0	5.0	T				
		648.9: ½" quartz vein		A11210	603.0	608.0	5.0	T				
		649.4: 5" quartz vein separated by 1" mafic flow		A11211	608.0	613.0	5.0	T				
		V.G. - 1 speck	V.G. (1)	A11212	613.0	618.0	5.0	T				
		656.1: 1/3" quartz vein po, py		A11213	618.0	623.0	5.0	T				
		659.3: 0.8' quartz vein po, cpy		A11214	623.0	628.0	5.0	T				
		670.0: ½" quartz vein		A11215	628.0	633.0	5.0	T				
		673.6: 1½" quartz vein		A11216	633.0	638.0	5.0	.005				
		681.0: 1½" quartz vein po		A11217	638.0	643.0	5.0	T				
		691.0: 2½" quartz vein		A11218	643.0	649.0	5.0	.02				
		696.0: 1½" quartz vein.		A11219	649.0	650.0	1.0	.41			V.G.	whole core
		701.4: 1½" quartz vein cpy, po		A11220	650.0	655.0	5.0	T				
		704.4: ½" quartz vein cpy, po		A11221	655.0	660.0	5.0	.005				
		718.0: ½" quartz vein cpy, po		A11222	660.0	665.0	5.0	T				
		719.6: 3/4" quartz vein cpy, po		A11223	665.0	670.0	5.0	T				
		720.0: 3" quartz vein cpy, po		A11224	670.0	675.0	5.0	T				
		723.4: 1½" quartz vein.		A11225	675.0	680.0	5.0	T				
		601.0 - 726.0: ¼% po, cpy, tr py	¼% po, cpy, tr py	A11226	680.0	685.0	5.0	T				
				A11227	685.0	690.0	5.0	T				
726.0	802.0	DARK GREY FINE GRAINED MAFIC FLOW (dense appearance) (1a)		A11228	690.0	695.0	5.0	T				
		Tr po, py, cpy	tr po, py, cpy	A11229	695.0	700.0	5.0	N				
		727.8: 3" quartz vein po, py, cpy		A11230	700.0	705.0	5.0	.02				
		740.7: 3/4" quartz vein po, cpy		A11231	705.0	710.0	5.0	.02				
		744.0: 1" quartz vein po, cpy		A11232	710.0	715.0	5.0	T				
		744.3: V.G. 2 very small specks in a quartz stringer	V.G. 2 v. small specks	A11233	715.0	720.0	5.0	T				
		773.2: 1½" quartz vein py		A11234	720.0	725.0	5.0	T				
		789.2: ½" quartz vein po		A11235	725.0	730.0	5.0	T				
				A11236	730.0	735.0	5.0	.005				
802.0	876.0	FINE GRAINED GREY MAFIC TO INTERMEDIATE FLOWS, MINOR (1a)		A11237	735.0	740.0	5.0	T				
		Medium grained; minor tuff		A11238	740.0	744.0	4.0	T				
		Tr - ¼% po, cpy, py	tr - ¼% po, cpy, py	A11239	744.0	745.0	1.0	.073			.065	
				A11240	745.0	750.0	5.0	T				
				A11241	750.0	755.0	5.0	.005				

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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 pulp assay
				A11242	755.0	760.0	5.0	.01			
876.0	948.0	FINE TO MEDIUM GRAINED GREY INTER. FLOWS (2a) MINOR TUFF		A11243	760.0	765.0	5.0	T			
		Contact gradational		A11244	765.0	770.0	5.0	T			
		Tuffaceous bedding at 895 - 54° to C.A.		A11245	770.0	775.0	5.0	.005			
		¼ - ½% po. py. cpy	¼-½% po. py. cpy	A11246	775.0	780.0	5.0	.01			
		897.7: ½" quartz vein po		A11247	780.0	785.0	5.0	.01			
		942.0: 2" quartz vein.		A11248	785.0	790.0	5.0	T			
				A11249	790.0	795.0	5.0	T			
948.0	989.0	FINE GRAINED GREY GREEN INTERMEDIATE FLOWS (2a)		A11250	795.0	800.0	5.0	T			
		½% po. py. cpy	½% po. py. cpy	A11251	800.0	805.0	5.0	T			
		966.8: ½" carbonate - quartz vein		A11252	805.0	810.0	5.0	T			
		973.4: 1" carbonate - quartz vein		A11253	810.0	815.0	5.0	T			
				A11254	815.0	820.0	5.0	T			
989.0	1014.0	LIGHT GREY TO GREY CHERTY FELSIC TUFF (3)		A11255	820.0	825.0	5.0	T			
		Tuffaceous bedding 57° to C.A. at 997'.		A11256	825.0	830.0	5.0	T			
		½% - 1% py. po. cpy	½-1% py. po. cpy	A11257	830.0	835.0	5.0	.01			
				A11258	835.0	840.0	5.0	.005			
1014.0	1020.6	CHLORITIC PHLOGOPITIC MAFIC TUFF (1c)		A11259	840.0	845.0	5.0	T			
		¼% py	¼% py	A11260	845.0	850.0	5.0	T			
				A11261	850.0	855.0	5.0	T			
1020.6	1026.8	GREY FELSIC TUFF (4c)		A11262	855.0	860.0	5.0	T			
		Tr py	tr py	A11263	860.0	865.0	5.0	.01			
				A11264	865.0	870.0	5.0	.005			
1026.8	1060.0	CONTACT 56° with C.A. CHLORITE ALTERATION ZONE - (5b)		A11265	870.0	875.0	5.0	T			
		Chlorite schist. Tr py. po. cpy	tr py. po. cpy	A11266	875.0	880.0	5.0	T			
		1037.0: 6" quartz vein po. py. cpy		A11267	880.0	885.0	5.0	T			
				A11268	885.0	890.0	5.0	.005			
1060.0	1121.0	TALC CHLORITE SCHIST (6a)		A11269	890.0	895.0	5.0	T			
		Ultramafic zone. Magnetic. Tr py. cpy. po	tr py. cpy. po	A11270	895.0	900.0	5.0	.005			
		1083.0 - 1084.0: Quartz vein po. cpy		A11271	900.0	905.0	5.0	.015			
				A11272	905.0	910.0	5.0	.01			
1121.0	1130.0	CHLORITE ALTERATION ZONE (5b)		A11273	910.0	915.0	5.0	.01			
		Chlorite schist. ¼-½% po. cpy	¼-½% po. cpy	A11274	915.0	920.0	5.0	T			
				A11275	920.0	925.0	5.0	T			
1130.0	1173.5	GREY AND GREY-GREEN FINE GRAINED MAFIC FLOWS AND TUFFS (1a, 1c)		A11276	925.0	930.0	5.0	.005			
				A11277	930.0	935.0	5.0	T			
		Tuffaceous bedding at 1140 57° to C.A. ¼-½% py. po. tr cpy	¼-½% py. po. tr cpy	A11278	935.0	940.0	5.0	T			
		1132.0 - 1133.0: Grey felsic tuff		A11279	940.0	945.0	5.0	T			
		1143.0 - 1144.0: Grey felsic tuff		A11280	945.0	950.0	5.0	T			
		1145.5 - 1146.6: Grey felsic tuff		A11281	950.0	955.0	5.0	T			
		1148.0 - 1149.0: Grey felsic tuff		A11282	955.0	960.0	5.0	T			
				A11283	960.0	965.0	5.0	T			
1173.5	1187.0	GREY FELSIC TUFF (4c)		A11284	965.0	970.0	5.0	T			
		Tuffaceous bedding at 1176' - 59° to C.A. Minor mafic tuff. ⅓% py	⅓% py	A11285	970.0	975.0	5.0	T			
				A11286	975.0	980.0	5.0	.005			
				A11287	980.0	985.0	5.0	.290	.16		.25
	1187.0	END OF HOLE		A11288	985.0	990.0	5.0	.010	15'		
				A11289	990.0	995.0	5.0	.170			.21
				A11290	995.0	1000.0	5.0	T			
				A11291	1000.0	1005.0	5.0	T			
				A11292	1005.0	1010.0	5.0	T			
				A11293	1010.0	1015.0	5.0	.015			
				A11294	1015.0	1020.0	5.0	T			
				A11295	1020.0	1025.0	5.0	T			

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.	Ag.	Cu.	
				A11296	1025.0	1030.0	5.0	T			
				A11297	1030.0	1035.0	5.0	.010			
				A11298	1035.0	1040.0	5.0	.025			
				A11299	1040.0	1045.0	5.0	T			
				A11300	1045.0	1050.0	5.0	T			
				A11301	1050.0	1055.0	5.0	T			
				A11302	1055.0	1060.0	5.0	.020			
				A11303	1060.0	1065.0	5.0	.020			
				A11304	1065.0	1070.0	5.0	T			
				A11305	1070.0	1075.0	5.0	.005			
				A11306	1075.0	1080.0	5.0	T			
				A11307	1080.0	1085.0	5.0	T			
				A11308	1085.0	1090.0	5.0	.390		.78	.42
				A11309	1090.0	1095.0	5.0	.020	.13		
				A11310	1095.0	1100.0	5.0	.010	20'		.02
				A11311	1100.0	1105.0	5.0	.100			.109
				A11312	1105.0	1110.0	5.0	.010			
				A11313	1110.0	1115.0	5.0	.005			
				A11314	1115.0	1120.0	5.0	T			
				A11315	1120.0	1125.0	5.0	T			
				A11316	1125.0	1130.0	5.0	.025			
				A11317	1130.0	1135.0	5.0	T			
				A11318	1135.0	1140.0	5.0	T			
				A11319	1140.0	1145.0	5.0	.01			
				A11320	1145.0	1150.0	5.0	.01			
				A11321	1150.0	1155.0	5.0	T			
				A11322	1155.0	1160.0	5.0	T			
				A11323	1160.0	1165.0	5.0	T			
				A11324	1165.0	1170.0	5.0	T			
				A11325	1170.0	1175.0	5.0	T			
				A11326	1175.0	1180.0	5.0	T			
				A11327	1180.0	1185.0	5.0	T			
				A11328	1185.0	1187.0	2.0	N			

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	200+ 50N	STARTED	April 22nd, 1975						
HOLE NO.	38 - 36	DEPARTURE	186+ 00E	FINISHED	April 26th, 1975	0	-45°	600'	-26°		
BEARING	180°	ELEVATION		LENGTH	721'	200'	-41.5°	721'	-24.5°		
COLLAR	-45°	SECTION		LOGGED BY	TERRY GATES	400'	-34°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	64	CASING	
64	133	MAFIC VOLCANIC TUFFS AND LAVAS WITH BEDS OF FELSIC & INTERMEDIATE TUFF:	
		Fine to medium grained, dark greyish green to brownish green (C.S.) H:4-5. Section carries up to 20 - 30% brown biotite in places - common throughout but decreases downhole. Quartz veining (silicification) varies from 1" to 8"/10' and is accompanies by chlorite and biotite alteration. Sulphides mostly minor po, py with po disseminated up to 1% in mafics, py confined to quartz veins and/or shears. Section schistose average 50 - 55° to C.A.	
		64 - 64.5: Felsic tuff, sericitic grey H:6.0	
		67 - 69: NW core - lost.	
		72 - 88: Intermediate to felsic tuff downhole. Rich in brown biotite. Quartz veining - 10%. Sulphides vein type 3-5% concentrated with felsic. Schistosity and bedding 45-50° to C.A.	
		120 - 133: Mostly intermediate tuff with minor amounts of mafic tuff. Intermediate has 1% diss. po, py. Quartz veining and biotite decrease. Bedding 50 to C.A.	
133	150	MAFIC VOLCANIC FLOWS	
		Medium grained, schistose, rich in brown biotite. Schistosity varies in this section from 50° (top) to 0° (145') to 50° at 150'. Minor disseminated po throughout. H: 4.0.	
150	221	MAFIC VOLCANIC FLOWS	
		Medium grained, massive to coarsely schistose. H:4-5. (harder when free of biotite) Quartz veining sporadic	
		190 - 210: 3-4"/10' rest less than 1.5"/10'. Minor disseminations of po. Little sulphides with quartz veining. Schistosity varies but average 50 - 55° to C.A. Specks of V.G. at 194'.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
13803	64	69	5.0	T				
13804	69	74	5.0	T				
13805	74	79	5.0	T				
13806	79	83	4.0	tr				
13807	83	88	5.0	.02				
13808	88	93	5.0	.01				
13809	93	97	4.0	tr				
13810	97	102	5.0	tr				
13811	102	107	5.0	tr				
13812	107	112	5.0	tr				
13813	112	117	5.0	tr				
13814	117	122	5.0	tr				
13815	122	127	5.0	NIL				
13816	127	132	5.0	tr				
13817	132	137	5.0	tr				
13818	137	142	5.0	NIL				
13819	142	147	5.0	NIL				
13820	147	152	5.0	0.02				
13821	152	157	5.0	tr				
13822	157	162	5.0	tr				
13823	162	167	5.0	0.01				
13824	167	172	5.0	tr				
13825	172	177	5.0	0.01				
13826	177	182	5.0	0.01				
13827	182	187	5.0	tr				
13828	187	192	5.0	tr				
13829	192	193.5	1.5	0.02				
13830	193.5	194.5	1.0	0.13				
13831	194.5	197	2.5	tr				
13832	197	202	5.0	tr				
13833	202	207	5.0	0.02				
13834	207	212	5.0	tr				
13835	212	217	5.0	tr				
13836	217	222	5.0	tr				
13837	222	227	5.0	tr				
13838	227	232	5.0	tr				
13839	232	237	5.0	0.12				
13840	237	239	2.0	0.01				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
221	237	VOLCANIC BRECCIA - FRAGMENTAL		13841	239	242	3.0	tr				
		(Similar to zone in 38 - 33)		13842	242	247	5.0	tr				
		Consists of biotitic fragments or breccia in a siliceous matrix and mafic		13843	247	252	5.0	tr				
		lenses (bombs?) in a medium grained mafic lava. flow. Mafic fragments		13844	252	257	5.0	tr				
		composed of biotite actinolite - tremolite. Soft H 3-4. Parts of mafic		13845	257	262	5.0	tr				
		flow quartz rich , therefore, intermediate? Top, bottom contacts fairly		13846	262	267	5.0	tr				
		distinct..		13847	267	272	5.0	0.06				
				13848	272	277	5.0	2.45				
237	444	MAFIC VOLCANIC FLOWS		13849	277	282	5.0	0.23				
		Massive to schistose, medium grained, dark greyish green. Parts		13850	282	287	5.0	tr				
		appear to have more than the usual amount of quartz. Quartz veining		13851	287	292	5.0	tr				
		increases to 3" - 7"/10' down to 350 then drops off - generally with		13852	292	297	5.0	0.03				
		chlorite and biotite alteration especially if carrying any sulphides.		13853	297	302	5.0	tr				
		Degree of fracturing (low < to C.A.) increases downhole as does calcite		13854	302	307	5.0	NIL				
		veining, blebs. Rock grain size gets progressively coarser grained down		13855	307	312	5.0	NIL				
		hole. Schistosity 50o-55 to C.A.		13856	312	317	5.0	NIL				
		Visible gold at 238, 348.5.		13857	317	322	5.0	NIL				
				13858	322	327	5.0	T				
444	473.5	MAFIC - INTERMEDIATE TUFFS INTERBEDDED WITH MAFIC LAVA		13859	327	332	5.0	.01				
		Top part of section is similar to 221 - 237 with biotitic fragments in a		13860	332	337	5.0	T				
		fine grained siliceous matrix. This appears to be gradational into an		13861	337	342	5.0	T				
		intermediate biotite rich tuff at 450'. Bedding 60° to C.A. Some fract-		13862	342	347	5.0	.005				
		uring with CO_3 fillings. Rest of section is composed of medium grained		13863	347	349	2.0	T				
		mafic lava (with patchy feldspar) with mafic fine grained actinolite -		13864	349	352	3.0	T				
		tremolite lenses.		13865	352	357	5.0	T				
		454.8: ½" K-spar vein.		13866	357	362	5.0	T				
		457.8 - 461.5: Mafic rock. Siliceous top to more mafic downhole.		13867	362	367	5.0	T				
		H:3-4. Bottom contact gradational.		13868	367	372	5.0	T				
		461.5 - 473.5: Mafic lava schistose at 60° - 65° to C.A. Minor		13869	372	377	5.0	T				
		to 1% po blebs.		13870	377	382	5.0	T				
		Very little quartz in section. Calcite stringers, blebs up to 5%.		13871	382	387	5.0	T				
				13872	387	392	5.0	.005				
473.5	479	PYRITIC INTERMEDIATE TUFF?		13873	392	397	5.0	T				
		Medium grained, H: 3-4. Dark brownish grey. Composition feldspar/		13874	397	402	5.0	T				
		quartz, 10 - 15% calcite, black biotite, amphibole. Little fracturing.		13875	402	407	5.0	T				
		Contains and few chloritic clasts 1-2% euhedral to anhedral pyrite.		13876	407	412	5.0	T				
				13877	412	417	5.0	T				
479	513	INTERMEDIATE TUFF - LAVA (To Mafic)		13878	417	422	5.0	T				
		Fine grained, dark greenish grey (C.S.) Fairly massive. Little fractur-		13879	422	427	5.0	T				
		ing. Slight drop - off in CO_3. Minor silicification and sulphides. Contains		13880	427	432	5.0	T				
		two 1.0' wide dark grey fine grained intermediate tuff lenses.		13881	432	437	5.0	T				
		494.5: Mafic fragments in siliceous matrix. Very		13882	437	442	5.0	T				
		schistose (shear) Talc, epidote. Schistosity and		13883	442	447	5.0	T				
		bedding 55° - 60° to C.A.		13884	447	452	5.0	T				
				13885	452	457	5.0	T				
513	548	MAFIC LAVA		13886	457	462	5.0	T				
		Medium grained, fairly massive. Dark greyish green (C.S.) Contains		13887	462	467	5.0	T				
		minor blotches of po. Minor calcite stringers (low < to C.A.) but up to		13888	467	472	5.0	T				
		5% diss. in places. Little brown biotite.		13889	472	477	5.0	T				
				13890	477	482	5.0	T				
				13891	482	487	5.0	T				

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
548	572	MAFIC TO INTERMEDIATE TUFFS AND FLOWS		13892	487	492	5.0	0.01				
		Fine to medium grained, dark greenish grey H:4. Section characterized		13893	492	497	5.0	0.02				
		by its inhomogeneity i.e. biotite and chlorite alteration, silicification,		13894	497	502	5.0	0.01				
		calcite veining and stringers, fracturing and sulphides. Major part of		13895	502	507	5.0	T				
		section looks like altered mafic to intermediate flow with narrow tuff		13896	507	512	5.0	T				
		sections. Calcite up to 20% mostly vein - stringer. Sulphides po, py cpy		13897	512	517	5.0	T				
		3-5% overall (up to 20% over 1" - 2") generally vein type but some		13898	517	522	5.0	T				
		disseminated.		13899	522	527	5.0	T				
		548 - 557: Little alteration		13900	527	532	5.0	0.01				
		557 - 572: As described above, Parts appear to have vague		13901	532	535	3.0	T				
		biotitic fragments 1-2" in size but probably due		13902	535	537	2.0	.01				
		to alteration around quartz sulphides.		13903	537	542	5.0	.02				
				13904	542	547	5.0	tr				
572	588.2	FELSIC TUFF - TUFFITE		13905	547	552	5.0	.20				
		572 - 580: Cherty, felsic tuff. Well bedded at 65° to C.A.		13906	552	557	5.0	.01				
		gradational to 30° to C.A. Downhole. Appears to		13907	557	559	2.0	t		.03		
		have been recrystalized. Consists of sugary greyish		13908	559	562	3.0	3.68 (364-372)		.19		
		white quartz and granular sericitic tuff. Cherty		13909	562	565	3.0	.02		.33		
		sections near top. Parts biotite rich running to		13910	565	567	2.0	tr	.22 Cut	.06		
		massive associated with stringer and vein po, cpy.		13911	567	571	4.0	.51	33.5'	.08		
		3-5% po, py along bedding planes. Total sulphide		13912	571	574.5	3.5	.34		.20	.014	
		10% with some more massive sections. Traces of		13913	574.5	577	2.5	.09		.17	.017	
		sphalerite.		13914	577	580.5	3.5	.26		.45	.10	
		580 - 588.2: FELSIC TUFFITE		13915	580.5	582	1.5	tr		.01	.006	
		Dark grey, fine grained H:5.0. Sericitic, granular		13916	582	587	5.0	tr				
		Fairly massive. Bedding vague 60° - 65° to C.A.		13917	587	592	5.0	.11				
		Trace py - po.		13918	592	597	5.0	.05				
				13919	597	602	5.0	.01				
588.2	600	MAFIC VOLCANIC (Amphibolite)		13920	602	607	5.0	.01				
		Fine grained, dark greyish green (C.S.) dark green black (B.S.)		13921	607	612	5.0	.01				
		Mostly amphibole with quartz - feldspar, biotite, epidote, 2-3% calcite		13922	612	617	5.0	.02				
		(stringer). Gradational to a more altered actinolite tremolite chloritic		13923	617	622	5.0	T				
		rock.		13924	622	627	5.0	T				
		596 - 597.5: Felsic - Intermediate Tuff		13925	627	632	5.0	T				
		Fine grained, sericitic. Bedded at 65° to C.A.		13926	632	637	5.0	.01				
		Bedding of tuff does not match schistosity of enclo-		13927	637	642	5.0	T				
		sing mafic and as such may be a fragment.		13928	642	647	5.0	T				
				13929	647	652	5.0	.005				
600	609.7	FELSIC VOLCANIC TUFF		13930	652	657	5.0	T				
		Fine grained, dark grey. Essentially quartz - feldspar with minor		13931	657	662	5.0	T				
		amphibole - biotite. Buff coloured feldspar? Bedding vague but ≃ 45°		13932	662	667	5.0	T				
		to C.A. Weakly mineralized with py.		13933	667	670	3.0	T				
				13934	670	674	4.0	.06				
609.7	617	MAFIC META VOLCANICS		13935	674	677	3.0	T				
		Dark green - pistachio green. Schistose. Very chloritic, epidote.		13936	677	682	5.0	T				
		Would appear to be similar to 588.2 - 600. only more altered. Few quartz		13937	682	687	5.0	T				
		veins with good po, cpy mineralization. Schistosity ≃ 50°.		13938	687	692	5.0	T				
				13939	692	696	4.0	.01		.02	.03	
617	625.5	INTERMEDIATE VOLCANIC TUFF		13940	696	699.5	3.5	.02		.012	.03	
		Similar to 473.5 - 479 but biotite constitutes 30-40% of rock and only		13941	699.5	702	2.5	T		.006	.008	
		minor py.		13942	702	707	5.0	T		.007	.008	

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

PROPERTY DETOUR LAKE HOLE NO. 38 - 36

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
625.5	692.5	MAFIC META VOLCANICS		13943	707	712	5.0	T				
		Soft 2-3, Schistose to felty. Gradational from a chloritic rock to a talcose corbonaceous rock back to a chloritic rock. Talcose rock - actinolite CO_3 1-2% magnetite. Parts of section display extreme shearing.		13944	712	717	5.0	T				
				13945	717	721	4.0	T				
		General schistosity 55° chloritic sections show microfolding especially the bottom zone.										
		643 - 657: Shear zone, fracturing. Few narrow 1-3" sections gouge.										
		670 - 674: Quartz veining (40%) with 3-5% po, cpy.										
		Bottom chloritic zone gradational into a more unaltered mafic rock and is well fractured with calcite stringers, some biotite.										
692.5	699	FELSIC FLOW (Agglormerate?)										
		Appears to be a rhyolitic flow breccia with narrow beds of intermediate tuff. Fragments cherty looking, light green to purplish in a crenulated siliceous matrix. Fragments surrounded by py in many cases. Total sulphide is 2-10% py traces of Zns.										
699	725	INTERBEDDED FELSIC AND INTERMEDIATE TUFF										
		Mostly of an intermediate nature well bedded at 55° to C.A. (biotite rich bands) with narrow 3" - 6" sections of dark grey felsic tuff. Section shows microfolding and a fair amount of fracturing (calcite filled).										
		715 - 716: 2-3% py along bedding planes.										
		END OF HOLE										
		[signature] 1/17/71										

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	200 + 50 N	STARTED	November 11th, 1975						
HOLE NO.	38 - 107	DEPARTURE	194 + 00 E	FINISHED	November 15th, 1975	200'	41½°				
BEARING	180° SOUTH	ELEVATION		LENGTH	507 FEET	400'	41°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	L. JONES						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	70.0	CASING	
70.0	404.5	FINE TO MEDIUM GRAINED MAFIC FLOW AND TUFF (1a - 1c)	
		70.0 - 193.5: FINE TO MEDIUM GRAINED DARK GREEN MAFIC FLOW AND MAFIC TUFF (1a-1c) There are several short intermediate - mafic tuff units in this section.	
		MAFIC FLOW: 70.0 - 94.0; 96.0 - 110.0; 114.0 - 154.0; 155.5 - 162.5; 163.5 - 178.5; 180.0 - 193.5	
		MAFIC TUFF: 94.0 - 96.0; 110.0 - 112.0 Int. to mafic tuff, Lower contact 45°; 112.0 -114.0; 154.5 - 155.5 Int. Mafic Tuff; 162.5 - 163.5 Int. Mafic Tuff; 178.5 - 180.0	
		This section has strong foliation at 45 - 50° to C.A. Chlorite alteration is strong throughout and biotite alteration is restricted to the mafic and intermediate to mafic tuffs. There is abundant streaky carbonate throughout.	
		73 - 193.5 - 1½" - 2" of quartz and quartz-carbonate veining /5' and most veins have minor po, py and tr cpy. 1% po, py, tr cpy. A large 15" quartz veins occurs at 138 -139.3 with minor po, py.	1% po, py , tr cpy.
		173.5 - 3" quartz vein barren	
193.5	404.5	FINE TO MEDIUM GRAINED MAFIC FLOW AND TUFF (1a-1c) (CONTD)	
		MAFIC FLOW: 193.5 - 207.0	tr py, po
		MAFIC TUFF: 207.0 - 210.0	tr po, cpy
		MAFIC FLOW: 210.0 - 215.0 massive	½% po, cpy
		MAFIC TUFF: 215.0 - 217.0	no mineralization
		MAFIC FLOW: 217.0 - 219.0	no mineralization
		MAFIC TUFF: 219.0 - 237.0	½-1% po
		MAFIC FLOW: 237.0 - 257.0	1% po, cpy, py

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	
25242	247.3	252.3	5.0	.025			
25243	252.3	257.3	5.0	T			
25244	257.3	262.3	5.0	T			
25245	262.3	267.3	5.0	T			
25246	291.0	296.0	5.0	T			
25247	296.0	301.0	5.0	T			
25248	301.0	306.0	5.0	.005			
25249	328.0	333.0	5.0	.005			
25250	333.0	338.0	5.0	T			
25251	338.0	343.0	5.0	T			
25252	357.0	362.0	5.0	T			
25253	362.0	367.0	5.0	.015			
25254	367.0	372.0	5.0	.255	.255/5' (1.28)		w/core
25255	372.0	377.0	5.0	T			"
25256	377.0	382.0	5.0	.005			"
25257	382.0	387.0	5.0	.005			"
25258	387.0	392.0	5.0	.015			"
25350	343.0	348.0	5.0	T			
25351	348.0	353.0	5.0	T			
25352	353.0	357.0	5.0	T			
25353	392.0	397.0	5.0	T		.008	"
25355	397.0	402.0	5.0	.01		.008	"
25356	402.0	407.0	5.0	.05			"
25357	407.0	412.0	5.0	.02			
25358	412.0	417.0	5.0	.02			
25359	417.0	422.0	5.0	.01			
25360	422.0	427.0	5.0	.02			
25361	427.0	432.0	5.0	.005			
25362	432.0	437.0	5.0	.005			
25363	437.0	442.0	5.0	.010			
25364	442.0	447.0	5.0	T			
25365	447.0	452.0	5.0	T			

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
		193.5 - 404.5 CONTD.						
		MAFIC FLOW / MAFIC TUFF						
		257.0 - 264.0	tr py					
		264.0 - 282.0, massive	½% po, cpy					
		282.0 - 282.2	282.0 - 342.0					
		282.2 - 329.5, massive	½-1½% po					
		329.5 - 332.0	tr to ½% cpy, py					
		332.0 - 336.0, massive						
		336.0 - 342.0						
		342.0 - 357.0						
		357.0 - 361.0	tr to ½% py, diss.trcpy					
		361.0 - 364.3						
		364.3 - 388.0	2% po, py, massive in places					
		Massive mineralization in places in quartz-carbonate veins, mainly po.						
		388.0 - 398.0: FELSIC TUFF (4c)	388 - 404					
		Dark grey colour, groundmass, small (1mm - 1cm) felsic phenocrysts set in the grayish matrix	tr to ½% py					
		Weak foliation, phenocrysts showing preferred orientation at approximately 45° to C.A.						
		398.0 - 398.3: MAFIC TUFF (1c)						
		Banding at 45° to C.A.						
		400.0 - 404.5: MAFIC FLOW (1a)						
404.5	405.5	CHERT HORIZON (3)						
405.4	429.0	CHLORITE ALTERATION (5b)						
		Similar to the mafic flow and it is more altered with more chlorite.						
		406.9 - 408.0: Felsic tuff (4c)						
		408.0 - 429.0: Chlorite alteration (5b)						
429.0	503.0	TALC CARBONATE (6a)						
		Above highly chloritized unit grades into more talcy material at about 429' with abundant veins of quartzcarb., which decrease down section.						
		Foliation of about 45° to C.A. Resembles mafic tuff, with its banding.						
		449.0 - 452.0: Chlorite alteration zone (5b)						
		452.0 - 458.0: Talc-carbonate (6a)						
		458.0 - 460.0: Mafic flow (1a)						
		Massive, gray-green, with no quartz-carb.	tr py.					
		460.0 - 468.0: Talc- carbonate (6a)						

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

PROPERTY DETOUR LAKE HOLE NO. 38 - 107 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
429.0	503.0	CONTD.						
		468.0 - 488.2: Felsic tuff (4c)						
		Well developed banding at bottom of section						
		at 40-45° to C.A.	tr py					
		488.2 - 502.0: Talc-carbonate (6a)						
		498.0 - 498.2 Felsic tuff (4c)						
		500.0 - 500.5: " " "						
503.0	507.0	CHLORITE ALTERATION (5b)	tr py					
	507.0	END OF HOLE						

1/17/11

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

				DIP TEST					
PERTY DETOUR LAKES	LATITUDE L34+00W	STARTED October 9, 1974	Footage	Corrected	Footage	Corrected	Footage	Corrected
E NO. DL-0-74-36-1	DEPARTURE 2+00S	FINISHED October 11, 1974	200'	52°				
RING 0°	ELEVATION	LENGTH 432'9"	400'	50°				
COLLAR -45°	SECTION	LOGGED BY Robert Johnson						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au oz/t	Ag oz/t	Cu%	Zn%	Pb%
0	90	Casing; 0-86' till & many boulders; 86'-90' bedrock.										
90	193'6"	Metasediments; 90'-109' fine gr. black slate and arkosic slate; almost massive (low degree of schistosity) minor biotite and feldspars; very slightly graphitic; arkose occurs as lighter coloured beds 1mm - 10mm wide at 30-35° to core (dip 75-80°); few narrow (2 cm) gabbro lenses; 109-193'6" grey arkosic siltstones and sandstones, mudstone, minor chert, mafic tuff(?) and slate as beds 1mm - ≃1m in width and at 50° to core; schistosity varies with rock type from none to poor and is ≃ ll to bedding; no. and size of black slate increase with depth; bed contacts very gradational to sharp; mod. to tr. sulphides (<1%) & highest concentrations in slates; occur as fine disseminations of po less py and possible cpy in a quartz vein at 113'.	1% diss. py and po cpy in qtz vein 93&8" wide) at 113.	1 - 962	112'8"	113'8"	1'	Tr		0.002	0.006	ND
193'6"	194'9"	feldspar porphyry dike; white subhedral - euhedral feld gr. 3-4 mm; fine ground mass (feld and biotite); contacts sharp and X-cut bedding (55-90° to core)										
194'9"	250'8"	graphite, less graphitic greywacke, minor greywacke (201-203'8" and 205-206') black; mod-good schistosity 40-50% core (dip ≃ 85°) minor chert pods; greywacke is very light green-grey fairly massive and very soft; sulphides as diss. grains, elongate pods and veinlets up to 80%; average for section 15-20% (80% po, 20% py, several blebs of cpy in po); mafic tuff (?) ≃ 2% po and py.	3-80% average 15-20% (80% po, 20% py) several blebs of cpy in po	2-963 3-964 4-965 5-966	215 223 240'4" 250	215'6" 225 241'11" 250'9"	6" 2' 1'7" 9"	Tr Tr Tr Tr	0.04 0.04 0.05 0.03	0.03 0.05 0.06 0.02	0.15 0.15 0.21 0.09	0.004 0.004
250'8"	286'11"	mafic tuff(?) light grey-green; very soft (chloritic) mod schistosity ≃ 30° to core (dip 75°N); resembles greywacke (not fissle) but contains no quartz or feld; minor f.g. diss. py and po; qtz. vein at 280 carried 40% po and py	40% po and py in qtz. vein at 281	6-967	280	281'2"	1'2"	Tr	0.04	0.02	0.01	
286'11"	297'6"	graphite grading into a arkosic siltstone at ≃ 296' schistosity good at 50° to core; same narrow (3-6cm) bands of nearly poor biotite; 20-25% sulfides mainly po less py in graphite tr. ≃ 0.01% cpy at 287'10"-289'; tr. diss. sulphides in arkose.	≃ 0.01% cpy in po at 287'10" - 289'; 20-50% po and py in graphite.	7-968	287'10"	288'10"	1'	Tr	0.05	0.05	0.11	
297'6"	341'6"	mafic tuff; as above; schistosity at 50° to core; graphitic at 299' - 205'9" and carrying 1-65% sulphides (60% po, 40% py) averaging 4%; stretched siliceous pebbles (?) 3 cm. long at 321-327'.	4% po and less py at 299'-305'9"	3-969	303	305	2'	Tr	0.05	0.02	0.22	

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

PROPERTY DETOUR LAKES HOLE NO. DL-0-74-36-1

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au oz/t	ASSAYS Ag oz/t	ASSAYS Cu%	ASSAYS Zn%
341'6"	367'8"	alternating beds of arkosic siltstone and mudstone; beds 3 mm-10 cm at 80° to core.									
367'8"	432'9"	mafic tuff and banded seds as above at 395-397									
	432'7"	END OF HOLE									

1/17/77

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

PROPERTY	DETOUR LAKE	LINE: LATITUDE	164 + 00 EAST	STARTED	June 19th, 1975
HOLE NO.	DLO - 38 - 50	STA: DEPARTURE	197 + 00 NORTH	FINISHED	June 24th, 1975
BEARING	180°	ELEVATION		LENGTH	478 FEET
DIP-COLLAR	- 50°	SECTION		LOGGED BY	BABU GAJARIA

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	50°				
400'	47°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	64	CASING	
64	115.8	MAFIC LAVA FLOW (1a)	
		Grey-green in colour, generally amphibolised, medium grained, contains	
		characteristic carbonate blebs and some quartz veins. Some biotization	
		in places, trace sulphides except in quartz veins.	
		68.5: 1" quartz vein, trace lent. pyrite	
		73.1: $\frac{1}{2}$" quartz vein, barren	
		74.1: $\frac{1}{4}$" quartz vein, containing disseminated	
		pyrite and trace cpy.	
		79.5: $\frac{1}{2}$" quartz vein - barren	
		82.5: $1\frac{1}{2}$" quartz vein - barren	
		84.5: 1" quartz vein, disseminated py and trace	
		chalcopyrite	
		97.8: $1\frac{1}{2}$" quartz vein with diss. py, po and cpy	
		112: 1" quartz vein - barren.	
115.8	285	MAFIC TO INTERMEDIATE TUFF (1c + 2c)	
		Light grey-green in colour, light brown where biotization has occured,	
		it is well bedded and schistose and characteristically contains carbonate	
		blebs. Contains some intermixed mafic flow - trace sulphides except	
		in quartz veins.	
		137: Bedding/core axis angle is 55°.	
		143: Contact/core axis angle is 55°.	
		162: Schistosity/core axis angle is 45°	
		202: Quartz vein wall/core axis angle is 55°	
		115.5: 1" quartz vein - barren	
		120.1: 3" quartz vein - barren	
		136.6 - 137.8: INTERMEDIATE TUFF: (2c) Heavy	
		biotization is associated with quartz veining.	
		The country rock and the vein contain lenti-	
		cular pyrrhotite and chalcopyrite.	
		139.3: 2" quartz vein - barren.	
		143.2 - 145.9: FELSIC FLOW - tuffaceous - cherty (4c)	
		Mauve-green in colour, containing fine	
		grained fragments highly siliceous. No	
		sulphides.	
		156.5: 1" quartz vein - barren.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
A6553	64.0	65.0	1.0	T				
A6554	65.0	70.0	5.0	T				
A6555	70.0	73.5	3.5	T				
A6556	73.5	75.0	1.5	T		.02		whole core
A6557	75.0	80.0	5.0	T				
A6558	80.0	84.0	4.0	.02				
A6559	84.0	85.0	1.0	.005		.11		w/core
A6560	85.0	90.0	5.0	T				
A6561	90.0	95.0	5.0	.01				
A6562	95.0	97.5	2.5	T				
A6563	97.5	98.5	1.0	.01		.05		w/core
A6564	98.5	100.0	1.5	T				
A6565	100.0	105.0	5.0	.01				
A6566	105.0	110.0	5.0	.12				
A6567	110.0	115.0	5.0	.01				
A6568	115.0	120.0	5.0	.01				
A6569	120.0	125.0	5.0	T				
A6570	125.0	130.0	5.0	.01				
A6571	130.0	135.0	5.0	T				
A6572	135.0	136.0	1.0	T		.03		
A6573	136.0	137.0	1.0	T		.04		w/core
A6574	137.0	140.0	3.0	.005		.04		
A6575	140.0	145.0	5.0	.01				
A6576	145.0	150.0	5.0	.01				
A6577	150.0	155.0	5.0	.005				
A6578	155.0	160.0	5.0	N				
A6579	160.0	164.0	4.0	N				
A6580	164.0	165.0	1.0	.07		.07		w/core
A6581	165.0	170.0	5.0	N				
A6582	170.0	172.0	2.0	.01				
A6583	172.0	174.0	2.0	.29		.06		w/core
A6584	174.0	175.0	1.0	T				
A6585	175.0	178.0	3.0	.005				
A6586	178.0	179.0	1.0	T		.10		w/core
A6587	179.0	180.0	1.0	N				
A6588	180.0	185.0	5.0	T				
A6589	185.0	190.0	5.0	T				
A6590	190.0	191.5	1.5	.02				
A6591	191.5	192.5	1.0	.02		.14		w/core
A6592	192.5	195.0	2.5	.005				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
				A6593	195.0	200.0	5.0	T				
115.8	285	CONTD.		A6594	200.0	205.0	5.0	T				
		164.3: 1" quartz vein with lenticular pyrrhotite and chalcopyrite.		A6595	205.0	210.0	5.0	T				
				A6596	210.0	215.0	5.0	T				
		172.2: ¼" quartz vein with diss. pyrite, pyrrhotite and chalcopyrite.		A6597	215.0	220.0	5.0	T				
				A6598	220.0	225.0	5.0	T				
		173.3: ¼" quartz vein with diss. pyrite, pyrrhotite and chalcopyrite.		A6599	225.0	227.5	2.5	T				
				A6600	227.5	230.0	2.5	N		.02		
		178.3: 1" quartz vein.		A6601	230.0	235.0	5.0	.01				
		192.1: 2" quartz/carbonate vein with Po, Py and Cpy		A6602	235.0	240.0	5.0	N				
		202.0: 1" quartz vein - barren.		A6603	240.0	242.0	2.0	.15				whole core
		227.9 - 228.9: INTERMEDIATE TUFF (2c): Concentrations of pyrite (2%) and traces of chalcopyrite.		A6604	242.0	245.0	3.0	.04				
				A6605	245.0	250.0	5.0	T				
		237.3: 1½" quartz vein with 1 pod of pyrrhotite.		A6606	250.0	255.0	5.0	T				
		241.5: ½" quartz vein with lent. py and po.		A6607	255.0	260.0	5.0	T				
		244.7: 2" quartz vein, trace po.		A6608	260.0	261.0	1.0	T		.014		w/core
		260.2: 1/8" carbonate pod with lent. po and cpy.		A6609	261.0	265.0	4.0	T				
				A6610	265.0	270.0	5.0	T				
285.0	327.0	INTERMEDIATE TUFF: 2C		A6611	270.0	275.0	5.0	T				
		Light green to buff brownish in colour, well schistose and bedded, similar to above tuff but silica content increases and sulphide content increases too. Contains characteristic carbonate veinlets.	½% diss. pyrite	A6612	275.0	280.0	5.0	T				
				A6613	280.0	285.0	5.0	T				
				A6614	285.0	290.0	5.0	T				
		296.0: Siliceous zone containing lenticular pyrrhotite, pyrite and trace chalcopyrite.		A6615	290.0	295.5	5.5	T				
				A6616	295.5	296.5	1.0	T		.04		w/core
		298.9: Siliceous zone containing lenticular pyrrhotite, pyrite and trace chalcopyrite.		A6617	296.5	298.5	2.0	T				w/core
				A6618	298.5	300.0	1.5	.005		.03		w/core
		313.7 - 315.7: FELSIC TUFF (Cherty) 3		A6619	300.0	305.0	5.0	.005				
		Purple to light green in colour, highly siliceous, well bedded.	1½% lent. pyrite	A6620	305.0	310.0	5.0	.01				
				A6621	310.0	313.5	3.5	.01				
		318.0 - 324.9: FELSIC TUFF (4c)		A6622	313.5	316.0	2.5	.02				w/core
		Light purple in colour, well bedded.	trace sulphides	A6623	316.0	320.0	4.0	T				
				A6624	320.0	325.0	5.0	N				
327.0	332.0	INTERMIXED MAFIC TUFF AND MAFIC FLOW (1a+1c)		A6625	325.0	330.0	5.0	T				
		Fine grained, well schistose, bedded in places, amphibolised.	trace pyrite	A6626	330.0	335.0	5.0	T				
				A6627	335.0	340.0	5.0	.01				
332.0	340.7	CHLORITE ALTERATION ZONE: (5b)		A6628	340.0	345.0	5.0	.02				
		Essentially made up of fine grained, neddlelike crystals of green chlorite.	trace sulphides	A6629	345.0	347.0	2.0	.01				w/core
		It is well bedded and schistose, some biotite is present along the plane of schistosity. It is probably heavily chloritised mafic tuff.		A6630	347.0	351.0	4.0	T				w/core
				A6631	351.0	355.0	4.0	.005				
				A6632	355.0	360.0	5.0	T				
340.7	384.0	SERPENTINISED ZONE (6a)		A6633	360.0	365.0	5.0	T				
		Essentially made up of talc - carbonate - chlorite, well schistose, weakly magnetic.	trace sulphides	A6634	365.0	370.0	5.0	T				
				A6635	370.0	375.0	5.0	T				
		345.3 - 350.6: FELSIC TUFF - Cherty (3)		A6636	375.0	380.0	5.0	T				
		Light mauve in colour, thinly bedded, contains		A6637	380.0	385.0	5.0	T				
		some intermixed felsic flow, stratigraphically		A6638	385.0	390.0	5.0	.01				
		it represents the main mineralised horizon,		A6639	390.0	391.0	1.0	.005				
		however it contains few lenses of pyrite.		A6640	391.0	393.0	2.0	T				w/core
		366.8 - 368.8: FELSIC FLOW - Porphyrytic:		A6641	393.0	395.0	2.0	T				
		Dark mauve in colour, porphyrytic, massive.		A6642	395.0	400.0	5.0	T				
		No sulphides.		A6643	400.0	405.0	5.0	T				
		302.0: Bedding/core axis angle is 60°		A6644	405.0	410.0	5.0	T				
		351.0: Schistosity/core axis angle is 50°.		A6645	410.0	415.0	5.0	T				
				A6646	415.0	420.0	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.
				A6647	420.0	425.0	5.0	T			
384.0	477.7	INTERMEDIATE TUFF AND TUFFITE: (2c)		A6648	425.0	430.0	5.0	T			
		Light green to buff brown in colour, well schistose and bedded, contains		A6649	430.0	435.0	5.0	T			
		numerous carbonate veinlets, some biotization. Some sections which are		A6650	435.0	440.0	5.0	T			
		rich in biotite show rheomorphic folding.	3/4% sulphides	A6651	440.0	445.0	5.0	T			
		391.5 - 392.5: FELSIC TUFF - Cherty (4c)		A6652	445.0	450.0	5.0	T			
		Light mauve in colour, thinly bedded, contains		A6653	450.0	455.0	5.0	T			
		disseminated pyrite.		A6654	455.0	460.0	5.0	T			
		406.4 - 407.0: FELSIC TUFF (4c)		A6655	460.0	465.0	5.0	T			
		Well bedded, siliceous, trace sulphides.		A6656	465.0	470.0	5.0	T			
		419.5 - 420.0: FELSIC TUFF (4c)		A6657	470.0	475.0	5.0	T			
		Well bedded, siliceous, trace sulphides.		A6658	475.0	478.0	3.0	T			
		442.2 - 443.0: FELSIC TUFF - Cherty									
		Well bedded, siliceous and some intermixed									
		felsic flow.									
		444.7 - 446.7: FELSIC TUFF:									
		Greyish purple in colour, well bedded,									
		siliceous, trace sulphides.									
477.7	478.0	FELSIC FLOW (4a)									
		Light purple, massive, trace pyrite.									
		463: Bedding/core axis angle is 55°.									
478.0		END OF HOLE									

MOCO 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 colour, massive, sharp contacts on either side with mafic tuff.	No sulphides	A6444	120.0	125.0	5.0	T				
				A6445	125.0	130.0	5.0	.005				
				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 and pyrrhotite		A6462	172.5	173.5	1.0	.005				whole core
				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, trace cpy		A6469	200.0	205.0	5.0	.01				
				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 not schistose, enrichment of chalcopyrite	3/4% chalcopyrite	A6472	215.0	216.0	1.0	T				w/core
				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

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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.	Ag.	Cu.	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			
444.7	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	½% 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	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
0	35.0	CASING	
35.0	50.5	INTERMEDIATE LAVA FLOW: (maybe Mafic in composition) (2a) It is light green in colour. Contains characteristic carbonate bands. The rock is rich in chlorite and weakly magnetic. The flow becomes tuffaceous at the south contact. The rock contains occasional quartz veinlets, which are barren.	Trace pyrrhotite
50.5	112.0	INTERMEDIATE TUFFITE: (2c) Light brown to buff white in colour, rich in biotite, it is characteristically banded into alternate mafic and felsic rich bands. The rock is well bedded and sericitic. 100.2 - 101.7: Felsic tuff, cherty. Light purplish green in colour, and shows medium to fine grained felsic fragments. The rock has sharp contacts on either side of intermediate tuffite. 111.8 - 112.3: Graphite intermixed with mafic tuff.	Trace sulphides ⅓% lenticular Py
112.0	117.0	MAFIC TO INTERMEDIATE TUFF (1c - 2c) Light grey - green in colour, fine grained.	
117.0	128.6	FELSIC LAVA FLOW: (4a): Buff white to grey in colour, essentially contains quartz and white feldspar and muscovite. It contains dendritic pyrite (could be pyrolusite), trace. The rock is heavily sericitised.	
128.6	136.0	INTERMEDIATE TUFF (2c) Banded, dark grey to black in colour, contains numerous quartz veins which are parallel to schistosity and banding. 131.3 - 132.9: Mafic Tuff. 43.0: Bedding/core axis angle is 45° 90.0: Bedding/core axis angle is 42°	
136.0	137.2	GRAPHITE (pyritised) (7)	1% pyrite
137.2	138.9	INTERMEDIATE TUFFITE: (2c) Similar in composition to above.	½% pyrite

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
5929	35.0	40.0	5.0	Tr				
5930	40.0	45.0	5.0	N				
5931	45.0	50.0	5.0	Tr				
5932	50.0	55.0	5.0	Tr				
5933	55.0	60.0	5.0	N				
5934	60.0	65.0	5.0	N				
5935	65.0	70.0	5.0	N				
5936	70.0	75.0	5.0	N				
5937	75.0	80.0	5.0	.005				
5938	80.0	85.0	5.0	N				
5939	85.0	90.0	5.0	N				
5940	90.0	95.0	5.0	N				
5941	95.0	99.0	4.0	N				
A5762	99.0	102.0	3.0	T				
5942	102.0	105.0	3.0	N				
5943	105.0	110.0	5.0	N				
5944	110.0	115.0	5.0	N				
5945	115.0	120.0	5.0	N				
5946	120.0	125.0	5.0	N				
5947	125.0	130.0	5.0	N				
5948	130.0	135.0	5.0	N				
A5763	135.0	140.0	5.0	T	.03		.04	
5949	140.0	145.0	5.0	N				
5950	145.0	150.0	5.0	N				
5951	150.0	155.0	5.0	N				
5952	155.0	160.0	5.0	N				
5953	160.0	165.0	5.0	N				
5954	165.0	170.0	5.0	N				
5955	170.0	175.0	5.0	N				
5956	175.0	180.0	5.0	N				
5957	180.0	185.0	5.0	Tr				
5958	185.0	190.0	5.0	Tr				
5959	190.0	195.0	5.0	N				
5960	195.0	200.0	5.0	N				
5961	200.0	205.0	5.0	Tr				
5962	205.0	210.0	5.0	N				
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.	Ag.	Cu.	Zn.	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	199 + 50 N	STARTED	JULY 20th, 1975
HOLE NO.	DLO - 38 - 58	DEPARTURE	191 + 00 E	FINISHED	JULY 24th, 1975
BEARING	180°	ELEVATION		LENGTH	577 FEET
DIP-COLLAR	- 45°	SECTION		LOGGED BY	BABU GAJARIA

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	44°				
400'	43°				
577'	41°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	160.0	CASING	
160.0	317.0	MAFIC LAVA FLOW (1a)	
		Light grey green, amphibolised, with characteristic carbonate blebs.	
		The flow contains characteristic pyrrhotite blebs at the south contact.	½% py. ½% po
		Quartz veins are infrequent and average 2½" per any 10' section.	
		162: Schistosity/core axis angle is 50°.	
		167.2: 1" Quartz vein - 20% pyrite. tr cpy.	
		177.6 - 178.0: Flow top breccia; brecciated to the north; undisturbed at the south side. indicates top to the north.	
		180.4 - 181.2: INTERMEDIATE FLOW: Light purple grey in colour, with pyrite enrichment.	10% pyrite
		183.0 - 183.6: FELSIC DYKE (4a). 10% pyrite.	
		203.9 - 204.0: Quartz vein with 20% pyrite. 10 cpy.	
		216.8: 1" quartz vein, with lenticular pyrite and chalcopyrite in vein and in adjacent country rock.	
		220.2: 1½" quartz vein, with lenticular po and py.	
		237.3: 1" quartz vein with 20% pyrite.	
		243.6: 1" quartz vein with 20% chalcopyrite.	
		244: Schistosity/core axis angle is 35°.	
		252: Schistosity/core axis angle is 0°. Schistosity is parallel to core axis.	
		263: Schistosity/core axis angle is 60°. Dip of schistosity charges at exactly 263.	
		265.2: 1" quartz vein with lenticular pyrrhotite and pyrite.	
		284.3: 1" quartz vein - barren	
		290.6 - 290.9: FELSIC TUFF (4c) with quartz vein concentration of sulphides.	2% sphalerite, 5% py, tr cpy, and V.G.
		292.0: 1" quartz vein, 40% pyrite.	
		292.0: Schistosity /core axis angle is 0°.	
		297.7: ½" quartz vein - barren.	
		317.1: ½" quartz vein - barren.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
A10717	160.0	165.0	5.0	T				
A10718	165.0	170.0	5.0	T				
A10719	170.0	175.0	5.0	T				
A10720	175.0	180.0	5.0	T				
A10721	180.0	185.0	5.0	T				
A10722	185.0	190.0	5.0	T				
A10723	190.0	195.0	5.0	T				
A10724	195.0	200.0	5.0	T				
A10725	200.0	203.5	3.5	T				
A10726	203.5	205.0	1.5	T				whole core
A10727	205.0	210.0	5.0	T				
A10728	210.0	215.0	5.0	T				
A10729	215.0	216.0	1.0	T				
A10730	216.0	217.0	1.0	T				w/core
A10731	217.0	220.0	3.0	N				
A10732	220.0	225.0	5.0	N				
A10733	225.0	230.0	5.0	N				
A10734	230.0	235.0	5.0	N				
A10735	235.0	240.0	5.0	N				
A10736	240.0	243.0	3.0	N				
A10737	243.0	244.0	1.0	T				w/core
A10738	244.0	245.0	1.0	N				
A10739	245.0	250.0	5.0	T				
A10740	250.0	255.0	5.0	T				
A10741	255.0	260.0	5.0	N				
A10742	260.0	265.0	5.0	N				
A10743	265.0	270.0	5.0	N				
A10744	270.0	275.0	5.0	T				
A10745	275.0	280.0	5.0	T				
A10746	280.0	285.0	5.0	T				
A10747	285.0	290.0	5.0	T				
A10748	290.0	291.5	1.5	.151				V.G.
A10749	291.5	295.0	3.5	T				
A10750	295.0	300.0	5.0	N				
A10751	300.0	305.0	5.0	N				
A10752	305.0	310.0	5.0	T				
A10753	310.0	315.0	5.0	T				
A10754	315.0	320.0	5.0	T				
A10755	320.0	325.0	5.0	N				
A10756	325.0	330.0	5.0	N				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
				A10757	330.0	335.0	5.0	N				
317.0	346.4	INTERMEDIATE FLOW (2a)		A10758	335.0	340.0	5.0	T				
		The intermediate flow has a gradational contact with the mafic flow above,		A10759	340.0	345.0	5.0	T				
		however, it does not contain carbonate blebs. It is fine grained, light	½% py, ½% po	A10760	345.0	346.0	1.0	.01				
		green in colour and more siliceous than above. It characteristically		A10761	346.0	347.5	1.5	T				whole core
		contains pyrrhotite blebs.		A10762	347.5	350.0	2.5	T				
		318.2: 1" quartz vein - barren		A10763	350.0	355.0	5.0	T				
		322.6 - 323.1: ½" quartz vein; parallel to core axis; contains blebs of po.		A10764	355.0	356.0	1.0	T				
				A10765	356.0	357.5	1.5	.01				w/core
		324.2 - 324.5: ½" quartz veinlet parallel to C.A. it contains blebs of po.		A10766	357.5	360.0	2.5	.01				
				A10767	360.0	365.0	5.0	T				
		325.7 - 325.8: 1½" quartz vein, with pyrite along the wall.		A10768	365.0	370.0	5.0	.005				
		345.6: ½" quartz veinlet, barren.		A10769	370.0	375.0	5.0	T				
		346.9: ½" quartz vein with diss. cpy and py.		A10770	375.0	380.0	5.0	T				
				A10771	380.0	385.0	5.0	.005				
346.4	442.2	INTERMEDIATE TUFF (2c)		A10772	385.0	390.0	5.0	T				
		Light green in colour, well schistose, characteristic carbonate blebs		A10773	390.0	395.0	5.0	T				
		along bedding plane. The rock contains some intercalated sections of	1%py, 1% po, tr cpy	A10774	395.0	400.0	5.0	T				
		intermediate flow. Biotization is associated with quartz veining. Quartz		A10775	400.0	403.0	3.0	T				
		veins average 2½" per 10'.		A10776	403.0	404.0	1.0	.08				w/core
		356: Schistosity/core axis angle is 60°.		A10777	404.0	405.0	1;0	T				
		352: 1" quartz vein with disseminated pyrite.		A10778	405.0	410.0	5.0	T				
		356.4: 1" quartz vein with disseminated pyrite.		A10779	410.0	415.0	5.0	.01				
		356.9: 1" quartz vein with dissemimated py, po & cpy.		A10780	415.0	420.0	5.0	T				
		369.7: ½" quartz vein with disseminated pyrite.		A10781	420.0	425.0	5.0	T				
		375.4 - 375.5: 1½" quartz vein with disseminated py & po		A10782	425.0	430.0	5.0	T				
		376.8 - 382.2: INTERMEDIATE DYKE (2a)		A10783	430.0	435.0	5.0	.005				
		Medium grained, dirty brown in colour.	3-4% diss. py, ¼% cpy	A10784	435.0	440.0	5.0	T				
		389.2: 3/4" quartz vein, lenticular pyrite.		A10785	440.0	442.0	2.0	T				
		389.8: 3/4" quartz vein with lenticular py and po.		A10786	442.0	443.5	1.5	.229				V.G.
		399.6: ½" quartz vein with dissemimated py.		A10787	443.5	445.0	1.5	.01	.076 / 8'	.054 / 13'		
		403.2: 2" quartz vein with disseminated py and cpy.		A10788	445.0	450.0	5.0	.05				
		440: Bedding/core axis angle is 60°.		A10789	450.0	455.0	5.0	.02				
				A10790	455.0	460.0	5.0	T				
442.2	453.7	FELSIC TUFF - Cherty - (3): Main mineralized horizon.	5-7% py, ¼% cpy	A10791	460.0	465.0	5.0	T				
		Purplish grey in colour, cherty at the north contact. Concentration of		A10792	465.0	470.0	5.0	T				
		pyrite associated with the cherty tuff.		A10793	470.0	475.0	5.0	T				
		442.9: Quartz vein and cherty tuff.	V.G.	A10794	475.0	480.0	5.0	.13				
				A10795	480.0	485.0	5.0	.05				
453.7	477.5	MAFIC TUFF (1c)		A10796	485.0	490.0	5.0	.01				
		Light green in colour, alternating biotite and amphibole rich bands,	½% py	A10797	490.0	495.0	5.0	T				
		carbonate veinlets.		A10798	495.0	500.0	5.0	T				
		462.0 - 467.1: FELSIC TUFF (4c)		A10799	500.0	505.0	5.0	T				
		Light purple grey in colour, siliceous; well		A10800	505.0	510.0	5.0	.005				
		bedded sharp contact with the mafic tuff to		A10801	510.0	515.0	5.0	T				
		the south.		A10802	515.0	520.0	5.0	T				
				A10803	520.0	525.0	5.0	T				
477.5	487.0	CHLORITE ALTERATION ZONE: (5a)		A10804	525.0	530.0	5.0	T				
		Dark green chlorite, gradational contact with the mafic tuff above.	½% po, ½% py	A10805	530.0	535.0	5.0	.01				
		478.5: 2" quartz vein, trace py.		A10806	535.0	540.0	5.0	.01				
				A10807	540.0	545.0	5.0	T				
				A10808	545.0	550.0	5.0	T				
				A10809	550.0	555.0	5.0	.01				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
				A10810	555.0	560.0	5.0	T			
		SERPENTINIZED ZONE		A10811	560.0	565.0	5.0	T			
487.0	514.4	TALC-CARBONATE ROCK: (6a)		A10812	565.0	570.0	5.0	T			
		Greyish green in colour, talcy, numerous carbonate veinlets parallel to the schistosity.		A10813	570.0	575.0	5.0	T			
		Schistosity/core axis angle is 65°.		A10814	575.0	577.0	2.0	T			
		497.2 - 505.0: FELSIC TUFF (4c) Light purple grey in colour, siliceous, trace py.									
		512.2: 1" quartz vein - 1% py.									
515.4	521.3	CHLORITE ALTERATION ZONE (5a)									
		Dark green chlorite, well schistose, trace pyrite.									
521.3	559.6	FELSIC TUFF (4c)									
		Purple grey in colour, quartz eyes, siliceous, well bedded and schistose, characteristically contains disseminated pyrite.	1% py								
		528.8 - 533.6: INTERMEDIATE TUFF (2c) Well bedded, alternation of biotite and amphibole rich bands.	5% pyrite								
		529: Bedding/core axis angle is 55°.									
		537.6 - 550.4: INTERMEDIATE TUFF (2c) Mafic at the north contact, grading into intermediate to the south, well bedded and similar to above.	1-2% py								
559.6	562.0	INTERMEDIATE TUFF (2c)									
		Dark brown in colour, heavy biotization, well bedded, carbonate and pyrite lenses.	2-3% py								
562.0	577.0	MAFIC TUFF (1c)									
		Light green in colour, thinly schistose, contains tiney epidote veinlets.	3-4% py								
		574.8 - 575.5: 1" quartz vein parallel to core axis.									
	577.0	END OF HOLE									

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

PROPERTY	DETOUR LAKES	LATITUDE 199 + 00N	STARTED	April 8th, 1975	
HOLE NO.	38 - 29	DEPARTURE 188 + 00E	FINISHED	April 12th, 1975	
BEARING	-180°	ELEVATION -	LENGTH	632'	
DIP-COLLAR	-45°	SECTION	LOGGED BY	TERRY GATES	

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
0	-45o	400'	-47°		
200'	-48°	600'	Bad etch -44° ??		
Tropari 295'	Az 1°E -45°	Tropari 632'	Az 20W -40°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	176	CASING (170 OVB)	
176	429	MAFIC LAVA FLOWS	
		Medium grained, dark greyish green (C.S.) dark green black (BS.)	
		Minerals plagioclase, amphibole, black biotite, quartz. H:4-5. Massive (subophitic texture to coarsely schistose). An overall increase in schistosity, sulphides, brown biotite downhole. Light fracturing at 15° - 20° to C.A.	
		176 - 200: Medium grained, coarsely schistose at 40° to C.A. Weakly mineralized with disseminated po, py.	
		200 - 202: Shear zone. Rock crenulated, silicified, chloritic 1-2% po, cpy, marcasite.	
		202 - 224: Slightly finer grained than 176 - 200. Brown biotite more conspicuous. Schistose at 40-45° to C.A.	
		224 - 235: Fine to medium grained lava. Schistosity vague but in places it is 11 to C.A.	
		235 - 261: Medium grained. Brown biotite, diss. po increases downhole. Schistosity 40°→ 50° to C.A. downhole.	
		261 - 272.5: Medium grained. More schistose than above or below. Quartz content higher. Schistosity 45° to C.A.	
		272.5 - 288: Medium grained. Felsic - Femg. segregation. Diss. Po (py) content increases to 2-5% then falls off again towards 288. Odd calcite bleb towards end.	
		288 - 350: Mafic Lava. Calcite veining and especially blebs common up to 315. Significant decrease after. Schistosity 45°→ 0° at 310 to 60° downhole. Felsic content falls off.	Sulphide < 1%
		350 - 354.7: Mafic to Intermediate Tuff. (Similar to pyrite tuff in hole 38 - 28 at 654.5 - 668.8) 1mm clasts of quartz, feldspar in a amphibole biotitic matrix. No apparent bedding except for vague grain size decrease downhole (Top to south) Has 2-3% euhedral to anhedral pyrite.	

SAMPLE NO.	FOOTAGE From	To	Length	ASSAYS Au.
13551	176.	177	1.0	Tr
13552	177	182	5.0	Tr
13553	182	187	5.0	Tr
13554	187	192	5.0	Tr
13555	192	197	5.0	Tr
13556	197	202	5.0	NIL
13557	202	207	5.0	Tr
13558	207	212	5.0	Tr
13559	212	217	5.0	NIL
13560	217	222	5.0	NIL
13561	222	227	5.0	Tr
13562	227	232	5.0	Tr
13563	232	237	5.0	Tr
13564	237	242	5.0	Tr
13565	242	247	5.0	Tr
13566	247	252	5.0	Tr
13567	252	257	5.0	Tr
13568	257	262	5.0	Tr
13569	262	267	5.0	0.005
13570	267	272	5.0	0.005
13571	272	277	5.0	0.01
13572	277	282	5.0	Tr
13573	282	287	5.0	0.01
13574	287	292	5.0	Tr
13575	292	297	5.0	Tr
13576	297	302	5.0	Tr
13577	302	307	5.0	Tr
13578	307	312	5.0	Tr
13579	312	317	5.0	0.01
13580	317	322	5.0	Tr
13581	322	327	5.0	Tr
13582	327	332	5.0	Tr
13583	332	337	5.0	Tr
13584	337	342	5.0	Tr
13585	342	347	5.0	0.01
13586	347	354	7.0	Tr
13587	354	357	3.0	Tr
13588	357	362	5.0	Tr
13589	362	367	5.0	Tr

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
176	429	CONTD.		13590	367	372	5.0	0.01			
		354.7 - 386: Medium grained, schistose mafic lava. Hairline fracturing vaguely orientated at a low angle to C.A. Schistosity is 50° to C.A. Lower part of this section is characterized by amphibole - pyroxene Xtals completely surrounded by plagioclase.		13591	372	377	5.0	Tr			
				13592	377	382	5.0	Tr			
				13593	382	387	5.0	Tr			
				13594	387	392	5.0	0.01			
				13595	392	397	5.0	T			
		386 - 417: Medium grained mafic lava. Silicification and more so calcite veining and stringers increase perceptably. General increase in sulphides po, py, minor cpy and marcasite. Chlorite is the main alteration with brown biotite increasing towards end of section. Po blebs with felsic envelope common. Schistosity is 50° to C.A.		13596	397	402	5.0	0.005			
				13597	402	407	5.0	Tr			
				13598	407	412	5.0	0.02			
				13599	412	417	5.0	0.02			
				13600	417	422	5.0	Tr			
				13601	422	427	5.0	Tr			
				13602	427	432	5.0	0.19		0.05	
		386 - 388: 5-15% py, po. Vuggy. Minor cpy.		13603	432	435	3.0	0.03	.13 Au.	.13	
		417 - 429: Generally of a finer grained nature. Sulphides po, py increase to 1-3% but silicification and calcite drop off.		13604	435	438	3.0	0.005	20'	.08	.005
				13605	438	440	2.0	0.025		.43	.020
				13606	440	443	3.0	0.20		.09	.12
				13607	443	447	4.0	0.23		.04	.009
429	440	MAFIC LAVA AND OR AGGLOMERATE		13608	447	452	5.0	0.02			
		Rock contains biotitic fragments (?) 1" to 6" in a massive to crenulated quartz rich matrix. Sulphides: 2-20% py, po, minor cpy occur as blebs, stringer and vein. Buff coloured mineral, H: 5.0, 2-10% occurs with chloritic alteration. Two gouge zones 1/8" wide at 434.		13609	452	457	5.0	0.02			
				13610	457	462	5.0	Tr			
				13611	462	467	5.0	Tr			
				13612	467	472	5.0	Tr			
		438 - 440: Banded: biotite, chlorite quartz with 20 - 30% py, po. Sulphides contain 1-2% cavities (leaching).		13613	472	477	5.0	Tr			
				13614	477	482	5.0	Tr			
				13615	482	487	5.0	Tr			
440	487.6	FELSIC AND INTERMEDIATE TUFFITE AND TUFFS.		13616	487	490	3.0	0.15	.15 Au.		
		Grey to dark brownish grey. Felsic fragments <1mm to 1mm in size in a qhite mica and brown biotite rich matrix. There are several instances where fragments grade from fine to medium grained downhole. Both bedding and schistosity is 40 - 65° to C.A. Some of the intermediate sections have 1-2% grey-blue quartz eyes. Minor py, trpo, cpy, zns.		13617	490	492	2.0	0.01	3'		
				13618	492	497	5.0	0.01			
				13619	497	502	5.0	0.01			
				13620	502	507	5.0	0.02			
				13621	507	512	5.0	0.04			
		440 - 446: Probably felsic tuff. Aphanitic, banded at 65° to C.A. Contains 5 - 10% white mica. H:~5.0. 1 - 2% py. Minor Zns.		13622	512	514	2.0	0.01			
				13623	514	517	3.0	0.01			
				13624	517	522	5.0	0.01			
		446 - 456.6: Sericitic felsic unit. Probable tuffite. Gradational from fine to medium grained downhole. Composition is white felsic fragments in a grey siliceous sericitic matrix. Bedding is 55° to C.A.		13625	522	527	5.0	Tr			
				13626	527	532	5.0	Tr			
				13627	532	537	5.0	Tr			
				13628	537	542	5.0	0.01			
		456.6 - 459.4: Mafic Rock. Fine grained, granular. Has brown biotite rich areas. Schistose at 55° to C.A.		13629	542	547	5.0	0.01			
				13630	547	552	5.0	0.01			
		459.4 - 467: Similar to 446 - 456.6:		13631	552	557	5.0	Tr			
		467 - 487.6: Intermediate to mafic in composition. Dark greyish brown (C.S.) 1mm quartz - feldspar fragments in a biotitic matrix. Contains short 1'-2' sections that are fine grained, dark brownish black with 1-2% py and also minor amounts of garnet. Schistosity changes from 55° to 40° to C.A. downhole.		13632	557	562	5.0	0.01			
				13633	562	567	5.0	0.03			
				13634	567	572	5.0	0.02			
				13635	572	577	5.0	Tr			
				13636	577	582	5.0	Tr			
				13637	582	587	5.0	Tr			
				13638	587	592	5.0	Tr			
				13639	592	597	5.0	Tr			
				13640	597	602	5.0	Tr			
				13641	602	607	5.0	Tr			

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
487.6	571	META-MAFIC VOLCANIC		13642	607	612	5.0	Tr			
		Soft H:2-3, schistose to felty texture, talcose, carbonaceous green to		13643	612	617	5.0	0.01			
		greenish grey rock. Composition is actinolite-tremolite, chlorite, talc,		13644	617	622	5.0	Tr			
		minor to 10% CO_3, 1% magnetite. Few short sections with up to 20%		13645	622	627	5.0	Tr			
		quartz. Schistosity is 60° - 50° to C.A.		13646	627	632	5.0	Tr			
		487.6 - 492: Chloritic, actinolite - tremolite. Little talc. Last 1.5' are quartz with minor po, cpy.									
		492 - 507: Grey, greenish grey. Schistose. Few more massive sections with felty looking texture. Carries minor po, 1% magnetite, 1-5% disseminated, stringers of CO_3.									
		502 - 507: 5% quartz. Slight increase in chlorite. The quartz is fractured, with CO_3 fillings.									
		507 - 531: Similar to 487.6 - 492. Schistose. Some felty sections. Green to pistachio green.. Schistosity 45° - 55°. Minor Cpy, po. Section contains few angular dark green, black, soft, chloritic fragments elongated ll to schistosity.									
		507 - 514: 10% - 15% quartz with py, marcasite, cpy.									
		531 - 571: Similar to 492 - 507. Few chloritic sections									
		565.5 - 571. Mixture of talcose and chloritic rock									
		566 - 567: Talc schist. Extreme fracturing. Core broken up.									
571	632	INTERBEDDED MAFIC' INTERMEDIATE AND FELSIC TUFFITE.									
		Section characterized by extreme fracturing over short intervals and									
		general schistose nature. Carbonate stringers (fracture fillings) are									
		common. The grain size of the tuffites are gradational from fine to									
		coarse downhole indicating tops to the north. Schistosity varies from 35° to 55° to C.A.									
		571 - 572: Intermediate tuffite. Fine grained, brownish grey. Sericitic. H:5.0.									
		572 - 576.8: Fine grained mafic tuffite. Dark green. H:4.0 5-10%. calcite filled fractures.									
		576.8 - 578.3: Intermediate Tuffite. Greenish grey H:4-5. Schistose. Top contact sharp at 45°. Bottom contact vague.									
		578.3 - 588: Mafic Tuff or Tuffite. Schistose. 10-15% brown biotite. 1-3% calcite stringers ll to schistosity (45°) Approaching a biotite - amphibole schist.									
		588 - 592.5: Similar to 572 - 576.8.									
		592.5 - 611.5: Intermediate (Parts mafic) Tuffite. Greenish grey to green. H:4-5. Well bedded - thin chert beds mixed with felsic, intermediate and mafic beds. Felsic beds generally have 1-2mm pyrite bands and/or diss. pyrite. Whole section is fractured - parts severally with some fractures. Calcite filled. Schistosity and bedding is 45° to C.A. Last 5' the beds vary from 1/8" to 2" in thickness.									

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
571	632	CONTD.						
		611.5 - 617: Felsic Tuffite. Gradational from a fine grained grey siliceous rock with chloritic stringers to a reddish cherty rock with 1-2mm chloritic bands. Diss. py occurs along bedding planes.						
		617 - 632: Mafic Tuffite? (Lapilli Tuff) Medium grained green (C.S.) dark green (B.S.) schistose. Contains amphibole fragments 1-4mm in size in chlorite feldspar matrix. There are also >1mm felsic fragments scattered throughout. Schistosity and bedding is 50° to C.A. Fracturing decreases substantially. Minor py.						
	632	HOLE ENDED AT 632.0'.						

TROPARI

700' DIP 39° CORR. AZ. 173°
1400' DIP 180°? CORR. AZ. 171.5°

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	204+ 00 NORTH	STARTED	May 2, 1976						
HOLE NO.	38 - 124 AQ	DEPARTURE	166+ 00 EAST	FINISHED	May 9th, 1976	200	- 49.5°	800'	-38°	1400'	-29.5°
BEARING	180°	ELEVATION		LENGTH	1444 FEET	400	- 45.5°	1000'	-38°		
DIP-COLLAR	-50°	SECTION		LOGGED BY	P. Maingot, D. Visagie	600	-42°	1200'	-32°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS	ASSAYS Cu.	ASSAYS	ASSAYS
				31601	115	120	5	.01				
0	98.0	CASING		31602	135	140	5	.005				
				31603	140	145	5	.01				
98.0	370.5	INTERMEDIATE - MAFIC FLOW (2a, 1a)	1-3% po	31604	195	200	5	.01				
		Grey to green, massive, hard quartz-bio. alt. slightly mag. (from 1-3% fine po) locally heavy bio. alt. Medium graval at collar (boulder to 101'?) to finer grained from 105.6.		31605	200	205	5	.01				
				31606	205	210	5	.01				
				31607	210	215	5	.015				
		at 115' 3-¼" q.v. at 50-60° to C.A.		31608	215	220	5	.055				
		at 136.0: 1" q.v. at 45° to C.A. with large splash		31609	220	225	5	.060		VG	W.Gree	
		of po, tr py cpy.		31610	225	230	5	.01				
		at 140.5: 1½" q.v. at 55° to C.A., minor po		31611	240	245	5	.010				
		½" at 151 and 167 at 70-90° to C.A. -barren.		31612	245	250	5	.015				
		At 191.5: 1" q.v. at 35° to C.A.		31613	250	255	5	.015				
		At 186.0: ½" q.v. at 70° to C.A. barren.		31614	255	260	5	.01				
		At 196.2: Vuggy carb. and stringers		31615	260	265	5	.025				
		At 196.6 - 197.4: Carb. zone and bio. flakes 30/60° to C.A.		31616	265	270	5	.04				
		and po, py in carb.		31617	270	275	5	.015				
		At 194.5 - 219: Separate flows pale green, green chl.		31618	285	290	5	.01				
		carb. alt. fine -med. grained, sharp		31619	290	295	5	.005		.026		
		changes scattered carb. strike and spots		31620	295	300	5	.005				
		slightly more mag. than above section.		31621	300	305	5	.025				
		At 204.3: 1" q.v. barren 50° to C.A.		31622	320	325	5	.02				
		219 - 240: Similar to 101 - 194: Darker green, harder		31623	335	340	5	.025				
		slightly finer grained increased sulphides		31624	340	345	5	.03				
		content as fine diss. bio. larger po blebs		31625	345	350	5	.015				
		carb.-chl. po, py grains and stringer zones		31626	393	398	5	.01				
		245.6, 262.8, 269 -270, 271-272.		31627	420	425	5	.005				
		223.4: ½" q.v. at 60° to C.A. 3 fine spots of V.G.	V.G.	31628	465	470	5	.01				
		240 - 323.0: increase in bio. alt. 2-3% py, po blebs		31629	470	475	5	.005				
		273: 1" q.v. at 50°, 301.2 q.v. 1" at 80° to C.A.		31630	475	480	5	.005				
		307.2 - ½" at 75° 309 - 2" q.v. bio. sulph.		31631	480	485	5	.065				
		zones.		31632	510	515	5	.03				
		323.0: q.v. spotted fine bio. alt.		31633	515	520	5	.005				
		342.2 - 342.8: quartz-carb. chl. sulphide zone 3-5% cpy		31634	520	525	5	.01				
		2-4% po, py 346 - ½" q.v. at 60°.		31635	550	555	5	.01				
		387.5: quartz carb. zone		31636	555	560	5	.005				
				31637	560	565	5	.01				
370.5	372.0	Feldspar porp. dyke at 40-45o to C.A.		31638	565	570	5	.01				
				31639	585	590	5	.02				

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

PROPERTY DETOUR LAKE HOLE NO. 38 - 124

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.
372.0	422.6	MAFIC FLOW (1a)	po, py, cpy, 3-5%	31640	590	595	5	.01
		Core is generally a coarse grained weakly bio. and chl. rock. Quartz.		31641	610	615	5	.11
		carb. occurs throughout the section in small veinlets at 40-50° to C.A. py is found in fractures occupying upto 15%		31642	645	650	5	.01
		of the assemblege. Other sulph. not common. Py is in addition found		31643	670	675	5	.01
		as small diss. in varying amounts.		31644	675	680	5	.01
		421: q.v. ½" barren at 50° to C. A.		31645	700	705	5	.03
				31646	730	735	5	.225
422.6	425.9	INTERMEDIATE - MAFIC FLOW (1a, 2a)	py, po, 1-5%	31647	760	765	5	.005
		A chaotic assemblege of coarse - medium grained mafic to inter. rocks.		31648	790	795	5	.015
		The section in the first 1' typically features an intermixing of Inter.		31649	815	820	5	.136
		and mafic rocks. The mafics are typically highly bio. and in sections		31650	820	825	5	.025
		weakly chl. Sulphides are predominantly py found as diss. and stringers		31651	825	830	5	.015
		ranging in content from 1-5% po is found in trace amounts as blebs.		31652	830	835	5	.056
		Inter. rocks are generally more med. grained and less heavily bio. and		31653	845	850	5	.01
		appear to be more siliceous .		31654	860	865	5	.04
		423.3: Quartz vein ½" barren.		31655	865	870	5	.02
				31656	875	880	5	.01
425.9	426.8	MAFIC FLOW (1a)		31681	880	885	5	.02
		A more biotized rock than above is coarse grained slightly chloritically		31657	885	890	5	.005
		atl. Small carb. veinlets are found these are generally less than ¼" in		31658	890	895	5	.015
		width. Sulphides are not seen.		31688	895	900	5	.01
				31659	900	905	5	.01
426.8	429.5	INTERMEDIATE FLOW - MAFIC (1a - 2a)	py - 1-3%	31660	905	910	5	.02
		Gradational contact with the above, rock in the first 1' section the rock is	tr po	31689	910	915	5	.01
		a chaotic assemblege of mafic fragments within an intermedaite rock as we		31661	915	920	5	.053
		go down the length the silica content increases and the rock becomes		31662	920	925	5	.01
		more intermediate in appearance. and the rock appears to be more		31663	935	940	5	.035
		uniform. The intermediate rocks in this section contain py is small strongers		31664	940	945	5	.01
		and diss. blebs. po is found as small diss. blebs. Unit grades into a		31665	945	950	5	.045
		mafic units within this section there are many small carb. veinlets		31666	950	955	5	.025
		at 40° to C.A.		31667	955	960	5	.01
		428.3: q.v. ¼" with py tr at 45° to C. A.		31668	985	990	5	.01
				31669	990	995	5	.005
429.5	470.0	MAFIC FLOW (1a)	py, tr,	31670	995	1000	5	.03
		Coarse grained, highly mafic rock that is green to black, chloritically alt.	cpy -tr	31671	1015	1020	5	.005
		homogeneous. comp. good bio. Tr mineralization of py in diss. and		31672	1020	1025	5	.01
		stringers found throughout the section. The zone contains much		31673	1025	1030	5	.01
		quartz-carb. veinlets. In addition the rock has been amphibolized.		21674	1030	1035	5	.015
		Cpy is found in one section in tr amounts vesicules are seen throughout		31675	1035	1040	5	.015
		the section.		21676	1040	1045	5	.025
				31677	1045	1050	5	.005
470.0	483.0	MAFIC FLOW - BIOTIZED (1a)	py - 1-5%, po -1-5%	21678	1055	1060	5	.005
		Mafic flow that is coarse grained dark green to brown. Bio. (good) has		31679	1060	1065	5	.015
		occured throughout the rock bio. content is upto 15%. Within this section		21680	1065	1070	5	.01
		much quart and carb. veining occurs. These are generally barren .		31682	1095	1100	5	.01
		Within this section there seems to be at 40o to C. A. a weak foliation.		31683	1100	1105	5	.01

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.				
470.0	483.0	CONTD.		31684	1105	1110	5	.005				
		Section has chaotic assemblege in places due to mixing between biotized		31685	1110	1115	5	.005				
		and non-bio. fragments.		31686	1115	1120	5	.01				
		477.5: ½" quartz vein contains po, py - 60%.		31687	1120	1125	5	.01				
		Po is also found as diss. blebs.		31690	1125	1130	5	.025				
				31691	1130	1135	5	.015				
483.0	546.0	MAFIC FLOW - NON-BIOTIZED (1a)		31692	1135	1140	5	.01				
		Rock is generally same as 429.5 - 470 only that it hasn't been bio. to		31693	1140	1145	5	.01				
		any great degree. Chloritization well developed. In section the assem-		31694	1145	1150	5	.035				
		blage is rather chaotic featuring bio. fragments with non-bio. Mafic		31695	1150	1155	5	.105				
		and quartz-carb. This occurs predominantly at top of section and 483		31696	1155	1160	5	.01				
		as go down the section becomes more homogeneous.		31697	1160	1165	5	.035				
		Many small veinlets occur throughout the section at 40° to C.A.	py tr, po - tr	31698	1165	1170	5	.08				
		Sulphides present are py and po generally found as diss. At 506' there	cpy, tr	31699	1170	1175	5	.01				
		appears to be a 6" zone of bio. rich area which could be a large		31700	1175	1180	5	.01				
		inclusion. At 509' there appears to be over a 1' section an increase in		31701	1180	1185	5	.16				
		quartz and carb. This zone is generally barren. At 523 - 524 there		31702	1185	1190	5	.02				
		appears to be a highly siliceous zone of epicotization.		31703	1190	1195	5	.01				
		484.5: q.v. ¼" tr py, at 40° to C.A.		31704	1195	1200	5	.005				
		501.3: q.v. 2" at 40° to C.A.		31705	1200	1205	5	.03				
		511.0: q.v. ¼" 5% py at 40° to C.A.		31706	1205	1210	5	.03				
		517.5: q.v.		31707	1210	1215	5	.015				
		517.7: q.v. 1" 8% py and 12% cpy, at 45° to C.A.		31708	1215	1220	5	.010				
		522.5: q.v. ½" 20% py and 5% cpy, 45° to C.A.		31709	1220	1225	5	.005				
				31710	1225	1230	5	.005				
546.0	546.9	MAFIC FLOW - BRECCIA (1a)		31711	1230	1235	5	.015				
		A silicified and epidotized mafic unit that is fine grained and green in		31712	1235	1240	5	.02				
		colour. Angular fragments of mafic rock are generally found.		31713	1240	1245	5	.01				
				31714	1245	1250	5	.02				
546.9	745.3	MAFIC - INTERMEDIATE FLOW (1a-2a)		31715	1250	1255	5	.03				
		This section is generally a zone where the rocks grade from one very		31716	1255	1260	5	.01				W.Gore
		mafic unit to a unit that is almost inter. in content. The rocks in this		31717	1260	1265	5	.02				"
		section are gen. med to coarse grained and have been biotized and		31718	1265	1270	5	.187				"
		chloritized. Typically the top of the unit is a mixture of mafic rocks		31719	1270	1275	5	T				
		and fragments and resembles a breccia as one goes down the sequence		31720	1275	1280	5	.04				
		the rock becomes more uniform in character. This unit resembles the		31721	1280	1285	5	.01				
		more typical mafic units i.e. dark in colour biotized chloritized and		31722	1285	1290	5	.01				
		coarse grained. As one goes farther down the sequence the silica content		31723	1290	1295	5	T				
		of the rock seems to increase and the rock looks almost intermediate in		31724	1295	1300	5	T				
		character. This area in 634 - 745.3 is typically a brownish coloured		31725	1300	1305	5	.005				
		rock due to the bio. This unit contains many areas of chaotic		31726	1305	1310	5	.005				
		assemblage i.e. mixed mafic and inter. In this section there are many		31727	1310	1315	5	.005				
		carb. veinlets, however quartz veins are rare. As go towards end of		31728	1315	1320	5	T				
		section the rock becomes increasingly more mafic in content. Sulphides		31729	1320	1325	5	.005				
		in this section are found only in tr amounts. The sulphide is predomin-		31730	1335	1340	5	T				
		antly py with some po. These are found in stringers and diss. There		31731	1340	1345	5	.005				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
546.9	745.3	CONTD.		31732	1385	1390	5	T
		are sections i.e. at 632.3 where against a fracture py is 60% of the rock..		31733	1050	1055	5	T
		Veins: 542.5: $\frac{1}{2}$" q.v. tr py 20° to C.A.						
		543.8: $\frac{1}{2}$" q.v. barren 10° to C.A.						
		547.5: $\frac{1}{2}$" q.v. tr py. 40° to C.A.						
		549.0: $\frac{1}{2}$" q.v. barren 30° to C.A.						
		Note: 558.9 - 556.0: Zone of silicified and epidotized fine grained mafic rock whose top contact is at 50° C.A.						
		589.9: $\frac{1}{2}$" q.v. , tr py						
		620.0: 2" q.v. barren						
		624.7: 2" q.v. tr py						
745.3	748.0	MAFIC FLOW (1a)						
		A good contact with the above is formed over 2". This is a coarse grained rock that has been heavily chloritized and biotized. The rock is cut by veinlets of carb. Quartz veining not in evidence, no sulph. seen.						
748.0	753.8	INTERMEDIATE FLOWS AND FLOW BRECCIA (2a)	tr py					
		Core for the first 1.5' is chaotic assemblage of mafic fragments within an intermediate matrix. Fragments are $\frac{1}{4}$" in diameter. After the first 1.5' unit becomes more homogeneous till it becomes a silica rich rock which is fine grained. Py is found in trace amounts as elongated blebs. Flow seems to exist at 10° to C.A. In addition weakly diss. po is found.						
		752.4: $4\frac{1}{2}$" q.v. - barren.						
753.8	756.5	MAFIC FLOW (1a)						
		Grades from the above light coloured rock to a dark green mafic. Sulph. are tr py and po.						
756.5	765.0	INTERMEDIATE FLOW (2a)	py 3-5%					
		Highly siliceous weakly chloritic fine grained, contains py upto 20% in limited section. Further one goes down the greater the increase in maficcontent till one goes into a mafic unit.						
765.0	773.0	MAFIC FLOW (1a)	tr py					
		Black green brown coarse grained rock. tr py.						
773.0	806.8	GABBROIC TEXTURE (6c) - is amphibole and pyroxene rich rock which has been chloritically alt. in places. Some minor bio. Rock is very coarse grained and is massive overall. The rock has very limited sulphides and is not cut by veins of any type - non- magnetic.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
806.8	834.4	MAFIC FLOW (1a) A coarse grained rock has a hackly fracture, is dark coloured, chloritized and biotized also amphibilized. 823.7: ½" q.v. barren at 50° to C.A. 817.0: ½" q.v. 10% py at 40° to C.A.	tr py					
834.4	839.0	INTERMEDIATE FLOW (2a) First real good intermediate, it is a fine grained high in silica slightly brownish grey. Contains no observable sulphides, however, it is weakly magnetic. Unit is very homogenous. Minor quartz veining at 839 that is barren. Unit is almost felsic in places.						
839.0	843.0	MAFIC FLOW - BIOTIZED (1a) Coarse grain, flow that has been strongly biotized. No good veining. Sulphides in the form of diss. py.	tr py					
843.0	844.1	INTERMEDIATE FLOW (1a) An intermediate to felsic flow that has been slightly biotized. Silica content is high and the rock is fine grained contact with below mafic is sharp at 50° to C.A.						
844.1	848.2	MAFIC FLOW AND INTERMEDIATE (1a-2a) A rather cyclic sequence of units that are less than a ? these form gradational contact. Py and po are generally only found in tr amounts. however, in areas py and po range upto 5% py and po are found in veins and as diss.	tr py, tr po					
848.2	907.1	MAFIC FLOWS (1a) An amphibolised and biotite rich coarse grained. Biotite seems to be foliated at 20° to C.A. The rock is in addition chloritized. The core is generally sulphide poor. There are many veins of quartz which are cutting the mafic flow. These are: 860.5: 3/4" q.v. tr py at 80° to C.A. 865.2: ½" q.v. tr py at 10° to C.A. 867.1: 1" q.v. tr py at 10° to C.A. 874.0: 1" q.v. - barren. 876.0: 1" q.v. at 20° to C.A. 877.5: 1" q.v. tr py at 20° to C.A. 883.0: 3" q.v. 5% py at 80° to C.A. 890.6: 3/4" q.v. tr py at 10° to C.A. 902.5: 5" q.v. zone along fracture has 30% sulphide 20% py, 5% cpy, 5% po.	tr py					
907.1	913.8	INTERMEDIATE FLOW (2a) - rock is a silica rich slightly bio. uniform, rock med. grained tr py diss. Tr py found within q.v. Rock is weakly mag. Contact with below is at 30° to C.A.	tr po					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
913.8	1218.0	MAFIC ROCK (1a)						
		Same as previous only in this section we have a series of mafic flows which range comp. but are still mafic.						
		913.8 - 1100.5: A relatively homogeneous unit that is bio; weakly - strongly, amphibolized, coarse grained massive weakly mag. py and po are found as diss. in core and in veins. At 1022 find a good section where sulphides content - 15% veining is not to prevalent being mostly barren.	po, cpy - tr py - tr - 3%					
		931.0: 1" q.v. barren						
		937.2: 2" q.v. barren						
		945.2: 6" q.v. barren.						
		955.0: 2" q.v. tr py at 40°						
		987.5: 3" q.v. run with C.A.						
		1106.5 - 1109.0: As we go down notice that the core becomes fine grained, highly chloritized weakly bio. in places have diss. po and py gradational contact at 70° to C.A.	po - tr, py - tr					
		1109.0 - 1112.0: Features a coarse grained biotite alt. mafic rock not as much chlorite as previous.						
		1110.0: 2" q.v. at 70° to C.A.						
		1112 - 1114.6: Highly biotized mafic - intermediate rock. Chloritically alt. Along fracture have py at 15% at 1113. have q.v. with py, po and cpy in varying amount. Cpy is in small stringers 1-3% tr in veinlets.	py - 1-3% po - 1-3% tr cpy					
		1114.6 - 1126: Typical mafic similar to 1106.5 - 1109 with above average biotite at 1117 have q.v. 2% py, 2% po. Have cpy in vein that is 5% po, 5% py.	2% po, 2% py					
		1126 - 1128: Have an increase of biotite till the rock has 10% biotite in it.	po 30% along vein.					
		1127.1: Have 1½" q.v. 30% po, 40° to C.A.						
		1128 - 1138.8: Increase in carb. content of the mafic unit rock is massive in comp.						
		1138.8 - 1142.7: Carb. rich mafic volcanics. Along carb. get good mineralization in the form of po, py upto 30% in veins and diss. Core very spotted in appearance due to carb.	po and py					
		1142.7 - 1145.0: Less carb. form of the above good veining:						
		1143.8: good po and cpy in q.v.						
		1144.5: massive po and cpy in q.v. 35o to C.A.						
		1145.4: 10% py and tr cpy in q.v.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
913.8	1218.0	CONTD.						
		1145 - 1159: Have an increase in carb.						
		1147: q.v. tr py at 50° to C.A.						
		1147.5: q.v. tr py at 50° to C.A.						
		1154.0: q.v. 5% po, 5% cpy, 5% py						
		1157.2: ¼" q.v. po, tr cpy, at 30° to CA.						
1159.0	1162.3	CHERTY TUFF (3)						
		A poorly defined cherty unit that is tuffaceous in content. Rock is fine grained light in colour and very silica rich. Top contact 35° to C.A.						
		Highly siliceous banding at 50° to C.A.						
1162.3	1218.0	MAFIC FLOW (1a)	po, tr - massive.					
		Highly uniform slightly amphibolized not much carb. as in previous sections po and py are found in tr diss. except for some high localization around veins.	cpy tr, py 5%					
		1169: 3" sulphides rich zone of po and cpy						
		1165.5: have ½" section of massive po						
		1168.3: have tr py in small q.v. at 40°.						
		1183 - 1187: decrease in biotite content.						
		1182.5 : po and py come through ½".						
		In this section have stringer like py, po and diss. cpy in tr amounts through section from 1174 on. Good cpy along fractures at 1183.						
		1200: 2" q.v. po 3-% at 60° to C.A.						
		1205: ½" massive po with py at 70° to C.A.						
1218	1220.5	INTERMEDIATE FLOW (2a)						
		Have change from the above foliated mafic to a more intermediate form rock is more siliceous seems to be a gradational contact. Min. not seen.						
1220.5	1231	MAFIC - NON-BIOTIZED (1a)	po - tr-3%					
		Is a coarse grained mafic that is chloritically alt. Rock is green in color	py - tr-3%					
		There is a seemingly a biotitic zone around sulphides found in the q.v.	cpy, tr					
		Cpy is found to be diss. in tr amounts while py and po are common.						
1231	1240	INTERMEDIATE FLOW (2a)						
		Core starts off as good intermediate rock, high silica content in sections fine grained. Po is solid for ¼" cpy is found in tr diss. amout. In places have po and commonly forming 5% py. Have many small carb. veins much of the min. is assoc. with quartz-carb. veins.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1240	1263.5	INTERMEDIATE TUFF (2c) A sequence of finely layered mafic and inter. rocks forming a tuffaceous sequence. Banding at 45° to C.A. Cpy forms as tr diss. blebs and in stringers. The mafic rocks are typically chloritized. The rocks are med. coarse grained. Some of the sections are heavily biotized. At 1263.5 have a 2" section of massive py and po. In this sequence py found as stringers and diss. po is found as diss. Cpy is found as diss. and in quartz veining.	tr cpy, 1-3% py, 1-3% po					
1263.5	1266.5	CHERTY ZONE (3) Generally not a true chert for most of the area. The rock is generally silica rich fine grained and light grey in colour. Mineralization consists of py and po in diss. and stringers. The section has minor quartz veins going through it. Tr cpy is found diss. in places. At the start of the unit over the first 1' is more felsic than cherty. This unit grades into a true chert at 1265.0. This true chert unit is 6" wide and as we go away from this zone. As we go away from this zone have an increase in bio. content also notice that chlorite content along fractures is great. Throughout this zone there is much quartz veining.	tr-1% cpy, tr po, tr py					
1266.5	1280.5	FELSIC FLOW (4a) This flow is the result of gradational changes in the cherty zone. The rock is quartz rich with a fine grain appearance in places there are large muscovite flakes. Rock has been bio. alt. in places. Units starts off with a ½" massive po, py, cpy. Py generally diss. in many places. Cpy is found diss. in the section. q.v. throughout this section contain cpy and py. 1271.6: 1" q.v. py (20%) at 70° to C.A. 1279: 1.5' q.v. cpy -3%, py-5%, po 5%. at 60°C.A. Right after the last large q.v. a mafic flow starts.	tr -1% cpy py 3%, po -1%					
1280.5	1292.3	MAFIC FLOW (1a) Dark coloured green coarse grained with tr py. Well bio. in places particularly the first 1' section generally massive. Biotite decreases with depth. In addition rock is weakly amphibolized.	tr py					
1292.3	1299.8	FELSIC FLOW (4a) Very fine grained siliceous rock light grey in colour with tr of diss. py Upper contact is sharp at 50° to C.A. while lower is 55° to C.A.						
1299.8	1306.0	MAFIC FLOW (1a) A unit that starts off as the coarse grained dark mafic flow.. As we go down in depth we get a more chloritically alt. rock with large flakes of chlorite and the core grades into a talc-carb. at 1299.4 a 3" q.v. with tr cpy.	tr cpy					

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1306	1310.9	TALC-CARB. (6a) A coarse grained rock that is the result of a gradational change with the above, Rock has been heavily chloritized in most places and is relatively massive. It is not mineralized nor is it cut by any veining.						
1310.9	1313.5	MAFIC FLOW (1a) A heavily biotized fine grained non-mineralized dark coloured weakly chloritized rock generally massive.						
1313.5	1322.5	TALC-CARBONATE (6a) Similar to 1306 - 1310.9. Foliation at 40° to C.A.						
1322.5	1329.0	INTERMEDIATE - MAFIC (1a-2a) FLOW Is coarse grained, dark coloured siliceous, biotized with tr diss. py. In places the rock has been heavily biotized. At 1328.7 po in a 3" q.v. Foliation in sequence is 40° to C.A.	Tr py, tr po					
1329.0	1348.0	TALC-CARBONATE (6a) Section is same as 1306 - 1310.9. Starts off on the other side of the above mentioned q.v. as a heavily chloritized rock this last for 2", after that we have a return to common talc-carb. The talc-carb. in places however almost grades back to a mafic rock.						
1348.0	1352.0	MAFIC TUFF (1a) Rock is a very fine grain, med. grained, rock that is chloritized and biotitized and seems to form in bands of a alternate comp. This units banding occurs at 55° to C.A.						
1352.0	1352.8	FELSIC FLOW (4a) A siliceous rosy coloured fine grained rock with sharp but irregular contacts that have diss. py in tr amounts.	tr py					
1352.8	1357.0	MAFIC FLOW (1a) Fine grained, med. grain rock chloritized highly fractured very limited biotite slightly amphibolized tr py.	tr py					
1357.0	1366.5	MAFIC TUFF - AGGLOMERATE (?) (1a, 1b) A fine grained rock that is dark coloured banded alternating with felsic bands. Rock in places due to some of the felsics has a "splotchy" appearance. This "splotchy" appearance last to 1364 after which the rock is more uniform in comp. The bands are 20° to C.A.						
1366.5	1372.2	FELSIC FLOW (4a) Similar to 1352 - 1352.8. 1371.3 to 1371.6 is mafic flow. Py found diss.	tr py					

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1372.2	1409.7	MAFIC FLOW (1a) Typically dark green med. coarse grained highly chloritic slightly biotitic unit with tr sulphides in the form of py and po in diss. Carb. is common in the rock and have inclusions of felsics. In places rock grades into an intermediate section 1386 - 1387 is high ly fractured and broken up. No quartz veining is seen. In places (1390 - 1398.5) the rock appears to be tuffaceous.						
1409.7	1402.8	FELSIC FLOW (4a) A light grey siliceous fine grained rock with no sulphides. Reddish tinge in spots.						
1402.8	1421.5	MAFIC FLOW (1a) Similar to 1372 - 1409.7. Some sections are more intensly flowed than others. The greater the flow the greater the amount of biotitization, tr sulphides seen in the form of diss. py. 1408: 6" zone of felsic fragment $\frac{1}{4}$-$\frac{1}{2}$" within matrix flow. 1396: Have more intensly mafic fragments within the flow over 1'. Rock undulates from a heavy flow - massive form - heavy flow throughout the section. 1414.7 - 1421.5: Rock seems to be tuffaceous.	tr py					
1421.5	1423.3	FELSIC FLOW (4a) A very silicic fine grained core with a reddish tinge and some orange "splotches" of quartz in it. Bottom contact is at 80° to C.A. while top is 10°.						
1423	1444.0	MAFIC FLOW (1a) Similar to 1402.8 0 1421.5. 1435: Have 1' section of flow with felsic $\frac{1}{4}$-$\frac{1}{2}$" fragments in the rock. 1840: Have 6" zone of $\frac{1}{4}$-$\frac{1}{2}$" felsic fragments in the flow. END OF HOLE	tr py					

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	220 + 50 NORTH	STARTED	28th April, 1976						
HOLE NO.	38W-14	DEPARTURE	240 + 00 EAST	FINISHED	30th April, 1976	200'	38°				
BEARING	180°	ELEVATION		LENGTH	500FEET	400'	34°				
DIP-COLLAR	- 45°	SECTION		LOGGED BY	P. MAINGOT.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	84.0	CASING	
84.0	173.8	MAFIC FLOW (1a)	tr of po, py
		Series of flows - fine to med. grained , dark green. Massive to foliated at 60° to C.A.	
		100.5 - 103.5: Increased biotite alt. and sulphides.	
		132.0 - 138.0: Increased biotite alt. and sulphides.	
		170.0 - 173.8: Increased biotite alt. and sulphides.	
		Flows scattered quartz veins - only tr sulph.	
		84.8: ¼" at 40° to C.A.	
		117.1: ½" at 75° to C.A.	
		122.2: ¼" at 65° to C.A.	
		129.5: 1" at 40o to C.A.	
		142.0: 2" at 70° to C.A.	
		132.4 - 132.8: Sili-carb. zone with minor sulphides streaks - flow, etc.	
173.8	177.3	FELSIC DIKE OR 4c TUFF PORPHYRITIC.	—
		Grey mauve colour, massive, fine grained, aphantic groundmass.	
		1mm feldspars. Sharp contacts at 40° to C.A. 1/16" py cpy streak at	
		Upper contact.	
177.3	181.4	MAFIC FLOW (1a)	
181.4	184.8	INT. DIKE OR (2a -c)	1-2% py
		Grey, massive, fine to med. grained, feldspar phenos. Feld. rich plus bio. altered. Sharp lower contact at 70° to C.A.	
184.8	318.2	MAFIC FLOW (1a) as above.	10
		Slightly magnetic to 262'. Dark green, fine to med. grained, generally with a weak foliation locally increased biotite alteration.	1-2% po, to 235
		1-2% po streaks and blebs to 235'. 3" q.v. at 189.6.	
		194.7 - 195.3: Mauve cast felsic dike/4c - feldspar phenos.	
		204 - 205: Py stringers in bleached zone.	
		208.0: 4" stringers zone + minor py, po	
		222.9 - 2231: Quartz vein, and stringers in bio. rich zone.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Cu.
21021	100	105	5	.015	
21022	130	135	5	.015	
21023	135	140	5	.010	
21024	173	178	5	.01	
21025	180	185	5	.01	
21026	200	205	5	.01	
21027	205	210	5	.01	
21028	235	240	5	.01	
21029	265	270	5	.01	
21030	305	310	5	.01	
21031	310	315	5	.015	
21032	315	320	5	.015	
21033	320	325	5	.035	
21034	325	330	5	.01	
21035	340	345	5	.015	
21036	345	351	6	.015	
21037	351	356	5	.04	.14
21038	356	361	5	.015	
21039	361	366	5	T	
21040	366	371	5	.01	
21041	405	410	5	.01	
21042	481	486	5	.01	
21043	491	496	5	.015	

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
184.8	318.2	CONTD.						
		225.4 - 227.3: Int. dike (2a) Sharp contacts at 60° to C.A. Fine grained, aphan. with white feldspar phenos. dark green, massive.						
		233.3 - 236.8: (1a) Massive homogeneous, fine grained, grey-dark green :						
		At 237.7: ¼" sulph. streak po. py. cpy at 45° to C.A.						
		At 239.0: ¼" blue quartz and sulph. at 20° to C.A.						
		At 242.5: ½" at 75° to C.A. - tr sulph.						
		249 - 259: Increased biotite alt. and carb.						
		267 - 269.6: Int. flow (2a) Grey-brown, biotite rich, sharp contacts at 50° to C.A.	2-3% po in streaks and blebs.					
		270 - 300: Fine grained, more homogeneous appearance						
		289: 3" bio. rich zone.						
		From 300' slightly coarser appearance.						
		308 - 313: Heavy bio. alt. - minor quartz streaks and sulph.						
318.2	321.8	FELSIC DIKE (4c) Mauve to orange coloured - porphyritic with aphanitic groundmass. Sharp upper contact at 70° to C.A.						
321.8	329.6	MAFIC FLOW (1a) Dark green, chloritic, aphanitic to fine grained, massive.	2% scattered po streaks and blebs.					
		322.3 - 322.9: zone of sulphides in sil. chl. groundmass 6-8% mainly po, minor py						
329.6	341.1	INT. DIKE (2a) Massive , homogeneous, biotite-rich, fine grained. Scattered white feldspar phenos.						
341.1	353.6	MAFIC - INT. FLOW (1a- 2a) Heavy bio. carb. alt. foliated appearance in part. Scattered py streaks and po blebs.	2% py, po					
353.6	355.7	CHERT - QUARTZ- SULPHIDE ZONE Chert and sulph. to 354; then quartz and sulphides. 15% sulph. (10-11% po, 2-3% cpy, 1-2% py)	15% po, cpy, py 11 - 2 - 2					
355.7	359.8	FELSIC TUFF Mauve cast - to green, grey, massive. bedding? at 70° to C.A. Lower contact at 70o to C.A.	1-2% po					

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
359.8	411.8	MAFIC/ULTRAMAFIC FRAGMENTAL ? (Talc/carb alt.) Dark green fine grained massive rock with fair chlorite/biorite alt. gradually takes on patchy banded app. from 369' with some talc/carb. alt. Rock fairly mag. from bands and patches of mag. from 378' increase in talc-carb. alt. /banding at 90° to C.A. at 369.5 -1" q.v. with sulph. along edges at 80° to C.A. 377 - 377.8 - felsic /int. dyke 406 - 409: 2-4% po, tr py						
411.8	418.0	FELSIC TUFF - grey, mauve - bedding at 60° to C.A.						
418.0	428.7	FELSIC - INT. FLOW, grey-green speckled white (feldspar phenos) Contacts at 40 and 60° to C.A. - massive.						
428.7	443.4	FELSIC TUFF Mauvecast fine grained - aphanitic. Bedding/foliation at 65-70° to C.A. 438.3 - 441.3: Mafic flow contacts at 70° 442.6 - 443.4: Int. flow rock.	1% py, streaks and grains					
443.4	448.4	MAFIC TUFF/FLOW - pales grey-green, foliated at 40-60° to C.A. Talc-carb. alteration.						
448.4	455.6	RHYOLITE FLOW Pale grey, blotchy appearance, massive aphanitic colour, banding/ foliation at 50° to C.A.						
455.6	461.0	INT. TUFF (2c) Fine - med. grained, orange/mauve coloured, massive appearance.						
461.0	466.4	FELSIC - INT. TUFF FLOW - gradual change from above. Slightly more sil. appearance.						
466.4	467.8	MAFIC TUFFS - ULTRAMAFIC ? Pale green strongly schistose talc, chl. altered.						
467.8	470.4	INT. FLOW (Tuffs?) Dark grey green, massive, fine grained. Bedding at 50° to C.A.						
470.4	483.0	Alternating bands of talc/ser. /chl. schist (a fault gouge?) pale green basic/ultrabasic tuffs - bedding at 55° to C.A. with massive int. /mafic tuffs - gradual changes. 476.2 - 476.9: felsic inclusions in 2 narrow bands.						
483.0	500.0	MAFIC FLOW - Coarse chloritized pyroxenes - generally rounded to oval (often with po) in fine grained matrix. 2-4% po, minor py minor scattered quartz-carb. filled stringers. 5-6% pink quartz-filled stringers from 490.5 - 493.3.	2-4% po, py					
	500.0	END OF HOLE						

TROPARI: 825' AZ. 174°

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	227 + 50 NORTH	STARTED	May 2nd, 1976						
HOLE NO.	38W-15	DEPARTURE	L 240 + 00 EAST	FINISHED		200'	43.5°	800'	27°		
BEARING	180° AQ.	ELEVATION		LENGTH	1231'	400'	35°	1000'	23.5°		
DIP COLLAR	- 45°	SECTION		LOGGED BY	P. Maingot, J. Korenic						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	6	CASING	
6	53.7	MAFIC FLOWS (1a) Fine grained, aphanitic - fine to med. grained dark green initially heavy bio. alteration to ~12' then diminishes, becomes spotty. 1" q.v. at 19', ½" at 28'.	
53.7	91.0	BASIC AGGLOMERATE (1b) Dark green chloritic matrix with 30% felsic fragments to 1" foliated at 40-60° to C.A. At 66' 2" q.v.	
91.0	95.5	INTERMEDIATE FLOW (2a) Fine to med. grained, chilled, sharp contacts at 30° to C.A.	
95.5	98.7	BASIC AGGLOMERATE - as above 1b.	
98.7	213.0	MAFIC FLOWS AND TUFFS (1a/1c) Massive to banded appearance -dark grey green - appears to be a series of thin flows with interflow tuffaceous bands/flow breccia horizons at 50° to C.A. essentially now mineralized with only minor (2-5%) py at 175', 178 - 179, 183 - 185, scattered q.v. at 105, 115, 142, 160, 176, 177.	
213.0	439.4	MAFIC FRAGMENTAL (1b/1c) Chl. alt. agglomerate, foliated at 35-45° to C.A., interbedded with tuffs ? - massive to banded, mauve coloured with fine fld. fragments and fewl larger (4mm ch. fragments. 247 - 249: Good bedding at 50° to C.A. with orange cherty fragment /band and quartz veins and minor py veins. Includes some mafic flow units - e.g. 370 - 377 with scattered large pale fld. phenos. and odd fragments? From 300 - more tuffs than agglomeratic - includes cherty horizons broken core from 377. 1" quartz carb. py at 318' at 70° to C.A. At 381.7' = 1" q.v. 350 - 351.6: sil. zone and bio. alteration. 352 - 360: 5% po blebs 394.5 - 394.8: 20% py vuggy - plus few scattered py streaks.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Cu.
21044	105	110	5	.01	
21045	110	115	5	.015	
21046	140	145	5	.005	
21047	170	175	5	.005	
21048	245	250	5	.01	
21049	360	365	5	.005	
21050	390	395	5	.005	
21051	395	400	5	.005	
21052	400	405	5	.01	
21085	405	410	5	.01	
21086	410	415	5	.005	
21053	435	440	5	.01	
21054	460	465	5	.01	
21055	490	495	5	.01	
21056	510	515	5	.01	
21057	530	535	5	.005	
21058	590	595	5	.005	
21059	595	600	5	.005	
21060	600	605	5	.005	
21061	605	610	5	.134	
21062	630	635	5	.01	
21063	655	660	5	.005	
21064	685	690	5	.005	
21065	710	715	5	.01	
21066	730	735	5	.01	
21067	765	770	5	.01	
21068	800	805	5	.01	
21069	815	820	5	.01	
21070	820	825	5	.005	
21071	825	830	5	.005	
21072	830	835	5	.005	
21073	850	855	5	.005	
21074	880	885	5	.005	
21075	885	890	5	T	
21076	890	895	5	.005	
21077	906	911	5	.005	
21078	911	916	5	.01	.026
21079	916	921	5	.005	
21080	921	926	5	T	

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

PROPERTY DETOUR LAKE HOLE NO. 38W-15

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS	ASSAYS Cu.	ASSAYS
213.0	439.4	CONTD.		21081	926	931	5	.01			
		424.2 - 424.7: Felsic dyke, mauve, sharp contacts at 50-60° to C.A.		21082	931	936	5	.005			
				21083	936	941	5	.005			
				21084	941	946	5	.005			
439.4	483.0	MAFIC FLOW		21087	946	951	5	.005			
		Porphyritic? - scattered large (to ½") pinkish white porcelanic clots		21088	951	956	5	.01			
		with generally irregular ragged outlines. No significant mineralization.		21089	956	961	5	.01			
				21090	980	985	5	.015			
483.0	524.0	MAFIC FLOW		21091	998	1003	5	.015			
		Fine - med. grained with mod. chlorite alteration, massive, no		21092	1013	1018	5	.005			
		significant min. Becoming more coarse grained from 498 to 513.8 with		21093	1018	1023	5	.005			
		chloritic alt. clots to 3/16".		21094	1035	1040	5	.01			
		513.8 - 514.7: q.v. stringer zone.		21095	1060	1065	5	.005			
		Finer grained from 514.7.		21096	1085	1090	5	.005			
				21097	1090	1095	5	.005			
524.0	538.3	MAFIC FRAGMENTAL ZONE		21098	1095	1100	5	.01			
		Flow breccia to finely banded tuffs at 75° to C.A.		21099	1100	1105	5	.01			
				*21215	1105	1110	5	.015			
538.3	586.0	MAFIC FLOW		21100	1110	1115	5	.01			
		Pillowed ? - selvages /flow contacts with odd assoc. fragments.		21201	1139	1144	5	.01			
		Non- mineralized.		21202	1144	1149	5	.01			
				21203	1149	1154	5	.015			
586.0	595.3	MAFIC FLOW BRECCIA/AGGLOMERATE (FRAGMENTED) ZONE		21204	1154	1159	5	.01			
		½" cherty band at 586.1. Possibly still part of previous unit to 587 or so.		21205	1159	1164	5	.01			
		From 587.5 has a blotchy/squeezed fragment texture with moderate		21206	1164	1169	5	.01			
		chlorite alt. Foliated at 70° to C.A. No significant min. or veining	—	21207	1169	1174	5	.005			
				21208	1174	1179	5	.01			
595.3	631.0	MAFIC FLOW		21209	1179	1184	5	.01			
		Fine to fine-med. grained, weak foliation at 60° to C.A. No significant		21210	1184	1189	5	.01			
		mineralization - chl./carb. alt., locally weak bio. alt.		21211	1189	1194	5	.015			
		except 603.8 - 606.3, shd./brecciated zone with carb. 5-7% py,		21212	1194	1199	5	.01			
		stringer over 1'. ½" q.v. at 608, 610.5 at 70° to C.A. alt. barren.		21213	1199	1204	5	.01			
				21214	1220	1225	5	.01			
631.0	635.2	MAFIC FLOW, BRECCIA/AGGLOMERATE - Similar to 586 - 595.									
		Moderate chlorite alteration.									
635.2	638.4	MAFIC FLOW									
		Massive, dark green, fine grained, as above.									
638.4	643.0	MAFIC FLOW									
		Porphyritic - few 1/16" euhedral feldspar phenos. and more numerous									
		other whitish irregular shaped fragments/vesicules.									

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
643.0	820.1	MAFIC FLOW						
		Dark green, fine grained becoming slightly coarser with chloritic streaks/veins. (hydrothermal alt.)? and scattered large (to $\frac{1}{2}$") porcelanic clots of irregular/ragged outlines generally ch./carb/weak bio. alt. - bio. alt. locally moderate at 658.6 - 10% py over $\frac{1}{2}$".						
		673.3 - 678.1: fine grained, int. flow bio. rich sharp contacts with 1" q.v. at 60° to C.A.						
		683.8 - 687.2: 2a, as above but only minor biotite alteration.						
		$\frac{1}{2}$" quartz patch at 686'.						
		1" rhyolite bands at 75° to C.A. at 687.4 and 688.0.						
		At 710.3 - 3" bio. carb. zone tr of quartz and sulphides.						
		At 731.0: Intermed. flow/ as above in part - possibly tuffs.						
		At lower contact bedding at 50° to C.A. increasing carb. alt. from 749' so that with depth mafic (elongated) phenos. (1-2mm) become prevalent - these phenos. are possibly due to metamorphic growth?? rather the being of a agglomeratic source - porphyroblastic texture??						
		The unit below 770' appears to be taking on a tuffaceous character, throughout it contains upto 10% $\frac{1}{4}$-$\frac{1}{2}$" porcelanic felsic clots; these clots are quite uniformly distributed throughout are irregularly shaped, somewhat sub-rounded, possibly have a agglomeratic source? Bedding is moderately developed at 60° to C.A. Minor quartz vein present throughout. Quite carb. chl. rich						
		792.0: Several felsic blebs with a porphyroblasic texture.						
		778 - 779: Chloritic zone.						
		802 - 803.5: Several $\frac{1}{2}$" irregular felsic veins. No sulphides at low angle to C.A.						
		804.3: Tr cpy diss. minor.						
		809.7 - 812.4: Mafic dike						
		Green, fine grained, 1% py diss. throughout, chloritic, biotite rich, lower contact at 65° to C.A.						
		813.1 - 814.5: Mafic dike. - Same as above.						
		Between 814.5 - 820.1 the mafic unit contains upto 5mm elongated porphyroblasts/fragments along bedding.						
		816.8: $\frac{1}{2}$" q.v. present.						
820.1	829.0	CHERT (3)	No sulphides					
		Creamy to violet colour, fine grained, contains 2mm felsic crystals throughout (crystal tuff?) Contacts are at 45-60° to C.A., no sulphides throughout.						
		826.8 - 827.8: Typical mafic unit as above contains a pair of cherty sections.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
829.0	888.6	MAFIC TUFF ? This unit is identical to that above the chert. It appears to be tuffaceous with bedding? at 60° to C.A. - 10-15% of the unit is composed of ⅛" felsic clots (agglomerate?) Along bedding there is what appears to be 2-4mm mafic (elongated) porphyroblasts. The matrix consists primarily of chl. and carb. Below 840' several 1-3" chl. veins are present - appears to be late stage as it does bisect the felsic blebs. 832.7 - 833.6: Chert Dark grey, no significant sulphides. 834.8: Minor po and tr cpy diss. 838.7: ¼" band of po and minor cpy streaks orientated at 50° to C.A. 851.4: 1" q.v. barren - chl. assoc. alongside. 860.7 - 861.8: Chloritized mafic dike. 881.2: 2" - 1/8" q.v. with 20% po, 1-2% cpy.	2- 1/8" q.v. 20% po, 1-2% cpy.					
888.6	890.3	FELSIC TUFF (4c) Dark grey, tr po, py, fine grained appears to contain several cemented fractures. Minor pinkish garnets (1mm) associated. A 4" chl. mafic unit interbedded. Lower contact at 75° to C.A.	tr po, py					
890.3	939.8	MAFIC FLOW (1a) - Tremolitic (6b) Green, med. to fine grained (1mm) non-magnetic, massive with only minor narrow carb. felsic fracture fillings, several narrow ch. section present, hard, tr sulphides diss. throughout. Several bio. rich sections present. Tremolite needles are generally - 1mm. 892.9 - 893.0: Felsic (Cherty) tuff Dark grey, several tiny garnet crystals present (??) tr sulphides. Lower contact is at 65° to C.A. 893.0 - 900.0: Quite tremolitic. Several sections are speckled throughout with tiny carb. specks (902 - 907) 907.3: ½" carb/quartz vein barren. 908.0: ¼" felsic (ptygmatic) vein - similar comp. to the felsic clots present. 908.5: ¼" chl. carb. vein - 5% po, ½% cpy. 910.2: 1" zone of 10-15% po, 1% cpy. Sulphides appear assoc. along fractures - chl. assoc. 913.7: 3/8" q.v. (tiny pinkish feldspar) Contains two 4-6mm blebs of cpy and po within the vein. 5% cpy, 2-3% po. 914.0: ¼" quartz-carb. vein 3-5% cpy, 5% po.	1" zone, 10-15% po, 1% cpy 3/8" vein: 5% cpy, 2-3% po. ¼" vein, 3-5% cpy, 5%po					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
890.3	939.8	Contd.						
		916.0: ¼" q.v. 30-40% chlorite, 2-3% sulphides (tr sphal. ?).						
		917.5 - 918.5: Porphyritic with upto 2mm felsic phenos.						
939.8	940.4	CHERT TUFF (3c) - Mineralized	12-15% po, py, cpy					
		Greyish violet colour, has well developed bedding at 55° to C.A.	(⅓-1% cpy)					
		Contains 12-15% sulphides principally po, py with ½-1% cpy. Sulphides						
		are assoc. along bedding. Contacts at 50-60° to C.A.						
940.4	958.0	MAFIC FLOW (1a)	tr sulphides					
		Fine grained, tr sulphides throughout. Several carb/quartz veins present						
		minor sulphides assoc. Numerous chl. sections and (1½") veins.						
		Green. The unit contains several "minor" tremolitic sections - insig.						
		942.5 - 944.3: Intermediate dike - porphyritic.						
		Greyish, fine grained, contains ½% sulphides						
		incl. minor cpy, diss. throughout, tr						
		garnets present? Contacts are at 50-60°						
		to C.A. Porphyritic with upto 2-3mm						
		feldspar phenos.						
		953.3: 1/8" q.v. at 60° to C.A., 20% cpy, 5% po,	1/8" q.v. 20% cpy					
		tr sphal.	5% po					
		954.3: ¼" chert bed at 60° to C.A., 5% sulphides,						
		principally py.						
		957.7: ¼" q.v. at 60° to C.A. 1-3mm cpy bleb						
		truncated by a ¼" serp. vein.						
958.0	996.0	SERPENTINIZED ZONE						
		GABBROIC TEXTURED UNIT (6c) - Altered.						
		Green, med. grained, slightly porphyritic in places with 4-6mm						
		(upto 10mm) relict pyroxene crystals. These crystals appear to have						
		been altered to a light green chl./talc. Considerable chl. -carb.						
		and lesser biotite appear in the matrix. Numerous unaltered pyroxene						
		crystals present throughout. No significant sulphides throughout.						
		Slightly tremolitic sections present. This unit is very massive and						
		contains no q.v. or foliation. Non-magnetic.						
		This gabbroic unit appears to have undergone serp. (minor -mod.) with						
		the resultant: talc and carb. present.						
		995.0 - 995.3: Talc carb. zone.						
996.0	1001.3	CHLORITE ALTERATION ZONE (5)						
		Green, fine grained, very weakly mag., several quartz pods present						
		with tr py assoc. Contains several brown biotite rich sections - ½% diss.						
		py. 999 - 999.9: CHERT: Grey to orange colour, ½-1% py diss.						
		throughout. Several cemented fractures present throughout. Very						
		irregular contacts.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
996.0	1001.3	CONTD.						
		999.9 - 1001.3: CHLORITE ALT. ZONE - Porphyritic with upto 3mm k-spar phenos. serp. blebs present - talcy.						
1001.3	1020.9	GABBROIC TEXTURED INTRUSIVE (6c)						
		Green , med. to coarse grained, non-mag. , massive, no q.v. , only tr sulphides. This unit appears to have been slightly serp. From 1001.3 - 1006.3 the unit is only slightly altered - slightly talcy and quite chloritic - Relict 2-3mm pyroxene crystals present.						
		1004.1: tr po, diss.						
		Between 1006.3 - 1015 the unit is somewhat mod. serp. - being quite talcy. Quite chloritic . Upper contact is relatively sharp however irregular at 80° to C.A. No significant sulphides. Lower 2' are quite chl. and talcy, it is somewhat broken up .- chloritic coating along fractures. Bio. rich sections present.						
		1009.7: Very thin stringer of po.						
		1015 - 1017.4: Mafic tuff. Green to brownish green, fine grained, contains bio. rich sections throughout, slightly chl. Massive. Contains ½% po, py throughout principally within fractures and in diss. form.	½% po, py					
		1017.4 - 1020.9: Gabbroic textured intrusive - upper part is quite talcy - and broken up.						
1020.9	1085.9	FELSIC TUFF (4c)						
		Grey, fine grained, hard, quite massive, contains tiny felsic crystals diss. throughout. Possible bedding is weakly developed at 80° to C.A. Only tr sulphides (principally py) is diss. throughout. No significant - q.v. vpresent. The unit contains mafic and intermediate units throughout.						
		1020.9 - 1021.7: Mafic (flow?)						
		1021.7 - 1031.2: Felsic tuff. Upper contact at 75° to C.A. ½% py prin. along bedding and diss. several narrow q.v. (¼") present - barren.						
		1031.2 - 1033.1: Mafic flow. Green, med. grained (1-3mm), quite massive, no bedding or foliation evident Tr py throughout.						
		1033.1 - 1034.2: Felsic tuff. Slightly cherty in places, contains a 2" chl.-epid. vein.						
		1034.2 - 1036.5: Mafic flow Contains 1% finely diss. py throughout, Contacts at 70° to C.A.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1020.9	1085.9	CONTD.						
		1036.5 - 1065.0: Felsic tuff						
		Appears to ;be slightly coarser grained than above - slightly porphyritic (1mm) tiny felsic crystals - crystal tuff? Minor bio. present throughout. Very massive unit. No well developed bedding evident - $\frac{1}{8}$% po, py diss. throughout.						
		Very minor q.v.						
		1040.1: 1" pod of py						
		1040.3: 1" mafic bed at 75° to C.A.						
		1040.7: 2" mafic bed at 75° to C.A.						
		1045.0: $5\frac{1}{2}$" chl. mafic bed at 75° to C.A.						
		1049.0: $1\frac{1}{2}$" quartz pod - barren.						
		Contains minor muscovite throughout 2-3mm, muscovite flakes present at 1061.4, 1961.8,						
		1065 - 1066.5: Intermediate tuff						
		Dark grey, fairly sharp contact at 75°to C.A.						
		1066.5 - 1068.8: Felsic tuff						
		1067.0: $\frac{1}{2}$" q.v. - barren						
		1068.8 - 1074.3: Intermediate flow/tuff						
		Dark grey, fine to med. grained, quite bio. rich, no significant sulphides.						
		1070.6: $\frac{1}{2}$" q.v. - barren.						
		1074.3 - 1076.7: Mafic flow						
		Green, fine grained, very weakly foliated at 75° to C.A., contains "minor" small feldspar phenos. (1mm)						
		1076.7 - 1085.9: Felsic tuff						
		Contains 20-25% white feldspar crystals throughout (1-2mm) Unit itself is grey, grading in places to a creamy colour with minor thin (<1mm) mafics streaked in places. $\frac{1}{2}$% py throughout. Several contacts present (1079.3) at 75° to C.A.						
1085.9	1101.5	TALC-CARBONATE (6a)	1-2% po, py throughout					
		Grey, fine grained, contains several chl. sections present. This unit appears as the typical talc-carb. - it is mag., soft and is essentially composed of talc and carb: Foliation is well developed in places at 80° to C.A. 1-2% po, py in the form of blebs (2-3mm) and fracture fillings is present throughout. Minor gouge present at upper contact Upper 3" is chl.						
		1094.8 - 1095.4: Mafic flow						
		1095.4 - 1097.5: Chl. alt. zone.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	ASSAYS FOOTAGE From	To	Length
1085.9	1101.5	CONTD.					
		1097.5 - 1099.5: Altered Gabbroic unit - quite talcy, highly magnetic, trace sulphides.					
		1099.7 : Very well developed foliation (talc-carb) at 50-60° to C.A.					
1101.5	1104.7	CHLORITE ALTERATION ZONE (5) Fine to med. grained, green, highly chloritic, biotite rich sections present, unit is speckled throughout with carb. clots (1mm). 1% py diss. throughout. Quite soft. Several 1/8" carb. vein throughout, often highly pyritic.	1% py				
1104.7	1139.8	MAFIC FLOW (1a) Green, fine grained, contains numerous carb. quartz stringers and blebs throughout several felsic veins throughout 1"/5'. Contains ½-1% py. Contains chl. sections.	½-1% py				
		1112.0: 3/4" carb/q.v. 10% py, tr cpy.	3/4" vein - 10% py				
		1134 - 1135.5: Chloritic zone. Slightly mag. green, fine grained.	tr cpy				
		1136.8: ¼" q.v. 7-10% py					
		1139.5 - 1139.8: Pyritic zone - 10-15% py, several 7mm euhedral crystals.					
1139.8	1168.5	TALC - CARBONATE (Highly altered pyroxenite) (6a, d) Grey, generally coarse grained, (5-7mm) with fine grained sections, quite talcy and carb. rich. This unit appears as though it is possibly a highly serpentinized and carbonatized pyroxenite (6d) in which case the pyroxene crystals have generally been altered to talc whilst the carb. fills in the matrix. The unit has an intermediate softness between a pyroxenite and the typical talc-carb. It is highly mag., massive and contains no q.v. or sulphides. Several typical talc - carb. sections present throughout. Upper foot is chloritic. Minor serp. present throughout.	No sulphides				
		1155.5 - 1157: Chloritized talc-carb. greenish grey, well developed foliation at 75° to C.A. Slightly crenulated.					
1168.5	1212.7	TALC-CARBONATE ZONE (6a) Grey, fine grained, mag., well developed foliation at 55° to C.A. - Crenulated in places. The unit is very, however it is quite barren in appearance with minor q.v. and no sulphides.	No sulphides				
		1191.2: ½" q.v. - barren					
		1192.5 - 1194: Chloritic zone.					
		1196 - 1197: Chloritic zone.					
		1199.3: Several ¼-½" quartz pods - barren.					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1168.5	1212.7	CONTD.						
		1204 - 1207: Highly altered mafic/Int. flow. Almost completely altered to chl.-bio. Non-mag., very fine grained, massive, no sulphides, green to dark green.						
		1207 - 1207.8: Pyroxenitic zone - slightly altered. Highly chl. + mag., barren.						
		1207.8 - 1210.5: Chloritic zone.						
		1210.5 - 1212.7: Talc/carb. - highly altered pyroxenite - ½% py blebs diss. throughout.						
1212.7	1231.0	MAFIC LAVA FLOW (la) Fine grained, dark green, contains several gouge and broken up zones particularly in the upper part of the unit. Several concentrations of py present - 1% py.						
		1212.7: 5" well developed gouge - highly chloritic. Minor quartz assoc. The gouge appears to be orientated at 50° to C.A. Tr py assoc.						
		1214.3 - 1215.1: Broken up (fractured) zone. Minor gouge material present. One ;major fracture at 20° to C.A. (opposite to above gouge).						
		1219.5 - 1221.5: Broken up zone.						
		1222.8: 8" CHERT Orange colour, 2-3% py throughout.						
		1223.5 - 1225.3: Cherty felsic tuff Grey, highly fractured and recemented fine grained, ½% py.						
		1225.3 - 1231.0: Mafic flow: - slightly chloritic (minor) ½-1% py diss. throughout several 1/8" - ¼" felsic veins present - No preferred orientation.						
	1231.0	END OF HOLE						

4/17/77

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.	Ag.	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				
145.0	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	248.0	5.0	N				

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: ⅓" 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: ⅓" 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: ⅓" 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. ½-1% py, po (mostly py)	½-1% py, po(mostly py)	A11078	518.0	523.0	5.0	T		
		315.2: ½" 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		A11081	533.0	538.0	5.0	T		
		326.0: 0.8' quartz vein - chloritized		A11082	538.0	543.0	5.0	T		
		327.5: 1½" pinkish chert, 1½" quartz vein		A11083	543.0	548.0	5.0	T		
				A11084	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. ½% py	½% 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)								
		¼% py, po	¼% 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								
		½-1% py, tr po, cpy	½%-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								
		½-1% py, tr po	½-1% 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 ½% py, tr po	½% py, tr po							
		392.0: ½" quartz vein								
		395.0: 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. ¼% py, po	¼% py, po							
		4-15mm angular lapillis								

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

PROPERTY DETOUR LAKES HOLE NO. DLO-38-71

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 480.0 - 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 508.0: 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 LAKES	LATITUDE	201 + 50 N	STARTED	JULY 26th, 1975
HOLE NO.	DLO-38 - 60	DEPARTURE	184 + 00 E	FINISHED	JULY 30th, 1975
BEARING	180°	ELEVATION		LENGTH	877 '
DIP-COLLAR	-45°	SECTION		LOGGED BY	BABU GAJARIA

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	43½°	800'	36½°	Tropari 875	Didn't work
400'	41½°	Tropari 300	Az 123°, 34° dip?		
600'	39°	Tropari 600	Az 181° Dip 42°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	24.0	CASING	
24.0	313.5	INTERMIXED INTERMEDIATE TUFFS AND FLOWS (2c and 2a)	
		Light buff brown (biotite rich) to light green (chlorite rich) in colour.	
		Varies from being bedded (tuff) blebs of pyrite and a few blebs of pyrrho-	
		tite. Occasionally contains carbonate blebs.	
		Quartz veins average 2½" /10' section.	
		52.0: Schistosity/core axis angle is 60°	
		100.0: Schistosity/core axis angle is 55°	
		27.1: ½" quartz vein - tr py and po	
		30.1: ½" quartz vein - py	
		33.3: ½" quartz vein - 20% py	
		38.0: 3/4" quartz vein - 10% py, tr cpy.	
		41.8: 3/4" quartz vein - 10% py, tr cpy.	
		44.9: ½" quartz vein - barren.	
		58.2: CO_3= replacement veinlet containing po, py	
		and tr cpy.	
		69.7: 1" quartz vein - barren.	
		71.7: ½" quartz vein - barren.	
		75.1: ½" quartz vein - barren.	
		100.3: 1½" carbonate vein - 1 bleb of py.	
		102.6: 1" carbonate vein - barren.	
		110.3: Carbonate replacement vein; po, py and cpy.	
		119.3: Carbonate replacement vein; po and py.	
		121.3: CO_3= vein with blebs of po.	
		123.1: 3/4" quartz vein - blebs of po	
		124.6: 1" quartz vein - py along the wall.	
		134.5: 1" carbonate vein with tr po and py.	
		134.8: 1½" quartz vein with 20% po and 10% cpy.	
		135.4: 1" quartz vein with diss. py and po.	
		135.8: 3/4" quartz vein - trace cpy.	
		137.1: 1½" quartz - carbonate vein with 20% po, 2% cpy.	
		137.9: Quartz -carbonate replacement veinlets,	
		containing po and cpy.	
		138.5: 2" quartz vein - tr py and cpy.	
		141.8: 2" carbonate vein, py and tr cpy.	
		147.3: 1" CO_3= vein - py.	
		147.5: 1" quartz vein with diss. py.	
		152.0: 1" quartz vein - barren.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
A10815	24.0	30.0	6.0	T				
A10816	30.0	35.0	5.0	T				
A10817	35.0	40.0	5.0	T				
A10818	40.0	45.0	5.0	T				
A10819	45.0	50.0	5.0	T				
A10820	50.0	55.0	5.0	T				
A10821	55.0	60.0	5.0	T				
A10822	60.0	65.0	5.0	T				
A10823	65.0	70.0	5.0	N				
A10824	70.0	75.0	5.0	N				
A10825	75.0	80.0	5.0	N				
A10826	80.0	85.0	5.0	N				
A10827	85.0	90.0	5.0	T				
A10828	90.0	95.0	5.0	T				
A10829	95.0	100.0	5.0	T				
A10830	100.0	105.0	5.0	T				
A10831	105.0	110.0	5.0	T				
A10832	110.0	115.0	5.0	T				
A10833	115.0	120.0	5.0	T				
A10834	120.0	125.0	5.0	T				
A10835	125.0	130.0	5.0	.02				
A10836	130.0	134.0	4.0	.05				
A10837	134.0	135.5	1.5	.08				Whole core
A10838	135.5	136.5	1.0	.01				
A10839	136.5	138.5	2.0	.22				w/core
A10840	138.5	140.0	1.5	.02				
A10841	140.0	145.0	5.0	.01				
A10842	145.0	150.0	5.0	T				
A10843	150.0	155.0	5.0	.01				
A10844	155.0	160.0	5.0	.005				
A10845	160.0	165.0	5.0	.005				
A10846	165.0	170.0	5.0	T				
A10847	170.0	173.0	3.0	.005				
A10848	173.0	174.5	1.5	.21		.54		w/core
A10849	174.5	180.0	5.5	T				
A10350	180.0	185.0	5.0	.01				
A10851	185.0	190.0	5.0	.005				
A10852	190.0	195.0	5.0	T				
A10853	195.0	200.0	5.0	T				
A10854	200.0	205.0	5.0	T				

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

PROPERTY DETOUR LAKES HOLE NO. DLO-38-60 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	ASSAYS Pulp Assay Au
				A10855	202.0	203.0	1.0	T				
24.0	313.5	CONTD.		A10856	203.0	205.0	2.0	2.75	.54	.21	V.G.	
		157.6: 1" quartz vein - trace po.		A10857	205.0	210.0	5.0	T				
		172.0: $\frac{1}{2}$" quartz vein - barren.		A10858	210.0	214.0	4.0	T				
		173.0: 3/4" quartz vein tr po and cpy.		A10859	214.0	215.0	1.0	.15				
		173.7 - 174.0: Quartz vein with 20% po and 20% cpy.		A10860	215.0	218.0	3.0	T				
		177.6 - 178.6: 2% cpy, 4% po within host rock.		A10861	218.0	219.0	1.0	.04				
		184.5 - 185.0: Quartz vein with diss. po, py and tr cpy.		A10862	219.0	220.0	1.0	T				
		192.0: 1" quartz vein - barren.		A10863	220.0	224.0	4.0	T				
		196.6: $\frac{1}{2}$" quartz vein - barren.		A10864	224.0	226.0	2.0	T				
		197.0: $1\frac{1}{4}$" quartz vein - tr py.		A10865	226.0	229.0	3.0	T				
		200.9: $\frac{1}{4}$" quartz vein - with 20% po, 10% cpy.		A10866	229.0	230.0	1.0	.285			V.G.?	.285
		203.9: 1" carbonate vein which is partly vughy and		A10867	230.0	232.0	2.0	.01				
		contains diss. py, cpy and 12 specks V.G.	V.G.	A10868	232.0	235.0	3.0	.005				
		204.9: 2" quartz vein with diss. py and cpy.		A10869	235.0	240.0	5.0	.01				
		206.3 - 207.4: FELSIC TUFF (4c)		A10870	240.0	242.0	2.0	.15				
		Light purple in colour, siliceous, character-		A10871	242.0	245.0	3.0	.01				
		istically. Contains quartz eyes.		A10872	245.0	250.0	5.0	T				
		209.9 - 213.0: FELSIC TUFF (4c) Similar to above.		A10873	250.0	255.0	5.0	.01				
		214.7: 3/4" vein of quartz with lent. po and cpy.		A10874	255.0	260.0	5.0	T				
		216.8: $\frac{1}{2}$" quartz vein tr po.		A10875	260.0	265.0	5.0	.02				
		218.4: $2\frac{1}{2}$" quartz vein with diss. py, po and cpy.		A10876	265.0	266.5	1.5	T				
		219.8: 3/4" quartz vein - tr po.		A10877	266.5	270.0	3.5	T				
		224.9: $\frac{1}{2}$" carbonate vein with py and cpy.		A10878	270.0	271.5	1.5	T				
		227.6: 3/4" quartz vein with py.		A10879	271.5	272.5	1.0	.26				
		229.2: 2" quartz vein with diss. po, py tr cpy and		A10880	272.5	275.0	2.5	T				
		V.G.(?)	V.G.	A10881	275.0	280.0	5.0	T				
		232.0: $1\frac{1}{2}$" quartz vein with diss. py, po and tr cpy.		A10882	280.0	285.0	5.0	T				
		232.9 - 235.0: Quartz vein with diss. py po and tr cpy.		A10883	285.0	286.5	1.5	T				
		235.9 - 236.2: Quartz vein - barren.		A10884	286.5	290.0	3.5	T				
		240.1: $1\frac{1}{2}$" quartz vein with tr. py and po.		A10885	290.0	291.5	1.5	.03	.04			
		242.4: $1\frac{1}{2}$" quartz vein with 30% py.		A10886	291.5	295.0	3.5	.03				
		243.8: $1\frac{1}{2}$" quartz vein - barren.		A10887	295.0	300.0	5.0	T				
		249.9: $\frac{1}{2}$" quartz vein with diss. py.		A10888	300.0	305.0	5.0	T				
		251.8: 1" quartz vein - barren.		A10889	305.0	310.0	5.0	N				
		254.8: 3/4" quartz vein - tr py.		A10890	310.0	315.0	5.0	N				
		261.0: $1\frac{1}{2}$" quartz vein - barren.		A10891	315.0	320.0	5.0	T				
		265.9: 3/4" quartz vein with lent. po and tr py.		A10892	320.0	322.5	2.5	.01				
		272.0: 2" quartz vein with po and tr cpy.		A10893	322.5	324.0	1.5	T				
		272.5: $1\frac{1}{2}$" quartz vein with diss. py and tr po.		A10894	324.0	327.0	3.0	N				
		282.5: $\frac{1}{2}$" quartz vein - barren.		A10895	327.0	329.5	2.5	T				
		285.7: $\frac{1}{2}$" quartz vein with 10% po and 10% cpy.		A10896	329.5	330.5	1.0	.055				
		290.8 - 291.0: Quartz vein with po and native silver(?)		A10897	330.5	335.0	4.5	T				
		291.7: 1" quartz vein with lent. po.		A10898	335.0	337.0	2.0	T				
		302.4 - 302.8: Quartz vein - barren.		A10899	337.0	338.5	1.5	T				
		313.2: 3/4" quartz vein - po.		A10900	338.5	340.0	1.5	T				
				A10901	340.0	345.0	5.0	T				
313.5	553.0	INTERMIXED MAFIC TUFFS AND FLOWS (1c + 1a)		A10902	345.0	350.0	5.0	T				
		Light grey-green in colour, amphibolised, schistose in places.		A10903	350.0	355.0	5.0	N				
		Quartz veins average 2"/10' section.		A10904	355.0	360.0	5.0	N				
		318.1: $\frac{1}{2}$" quartz vein - barren.		A10905	360.0	365.0	5.0	N				
		320.7: 2" quartz vein tr po, py and cpy.		A10906	365.0	370.0	5.0	T				
		322.4: 1" quartz vein with diss. py		A10907	370.0	375.0	5.0	T				
		323.2: 3/4" quartz vein with diss. po and cpy.		A10908	375.0	380.0	5.0	T				

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

PROPERTY DETOUR LAKES HOLE NO. DLO-38-60 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag	ASSAYS Cu	ASSAYS Zn	~~Pulp Assay Au~~
				A10909	380.0	381.0	1.0	.01				
313.5	553.0	CONTD.		A10910	381.0	385.0	4.0	.28				
		326.0: 3" carbonate vein - barren.		A10911	385.0	390.0	5.0	.03				
		330.0: 1" quartz vein - with 1 speck of V.G.	V.G.	A10912	390.0	395.0	5.0	.01				
		333.1: 3/4" quartz vein - barren.		A10913	395.0	397.0	2.0	.02				
		337.9: 2" quartz vein, diss. py, po and cpy.		A10914	397.0	398.5	1.5	3.34			V.G.	
		358.4: 1" quartz vein - barren.		A10915	398.5	400.5	2.0	T	~~.46 oz~~ 4.5'	~~1.24 oz/T~~ 4.5'		
		360.1: $\frac{1}{2}$" quartz vein - barren.		A10916	400.5	401.5	1.0	.574		.015		.51
		371.2: 3/4" quartz vein - barren.		A10917	401.5	405.0	3.5	T				
		378.4: $1\frac{1}{2}$" quartz vein - barren.		A10918	405.0	410.0	5.0	T				
		380.2: $\frac{1}{2}$" quartz vein - diss. py, po and cpy.		A10919	410.0	415.0	5.0	.10				
		382.0: 2" quartz vein - barren.		A10920	415.0	416.5	1.5	.01				
		385.2: $\frac{1}{2}$" quartz vein - barren.		A10921	416.5	418.0	1.5	.01				
		394.1: $\frac{1}{2}$" quartz vein - barren.		A10922	418.0	420.0	2.0	T				
		397.0: 1" quartz vein - 30% po.		A10923	420.0	425.0	5.0	T				
		397.6: $1\frac{1}{2}$" quartz vein = po and 11 specks of V.G.	V.G.	A10924	425.0	430.0	5.0	.015				
		401.0: $\frac{1}{4}$" quartz vein, po, cpy and 1 speck of V.G. ?	V.G. ?	A10925	430.0	435.0	5.0	T				
		409.2: 1" quartz vein - barren.		A10926	435.0	436.5	1.5	T				
		412.3 - 412.8: Quartz vein - barren.		A10927	436.5	440.0	3.5	T				
		415.9: $\frac{1}{2}$" quartz vein with po and cpy.		A10928	440.0	443.0	3.0	.005				
		418.7: $\frac{1}{4}$" quartz vein, po and cpy.		A10929	443.0	445.0	2.0	T				
		418.8 - 419.0: Quartz vein with tr po.		A10930	445.0	450.0	5.0	T				
		423.1: 1" quartz vein - barren.		A10931	450.0	452.0	2.0	.01				
		431.2: 2" quartz vein - barren.		A10932	452.0	455.0	3.0	T				
		432.3: $\frac{1}{2}$" quartz vein. Tr po and cpy.		A10933	455.0	457.0	2.0	T				
		435.6: $2\frac{1}{2}$" quartz vein, with diss. po and cpy.		A10934	457.0	460.0	3.0	T				
		436.2: $\frac{1}{2}$" quartz vein with lent. py.		A10935	460.0	465.0	5.0	T				
		443.6: 1" quartz vein with lent. po and cpy.		A10936	465.0	470.0	5.0	T				
		447.9: 3/4" quartz vein with po.		A10937	470.0	475.0	5.0	T				
		450.9: 1" quartz vein with po and tr cpy.		A10938	475.0	480.0	5.0	T				
		456.3: 1" quartz vein with 20% po, 10% cpy, 5% py.		A10939	480.0	483.0	3.0	T				
		458.1: $\frac{1}{2}$" quartz vein - barren.		A10940	483.0	484.0	1.0	.01				
		462.7: $\frac{1}{2}$" quartz vein - 30% py tr cpy.		A10941	484.0	485.0	1.0	.01				
		465.0: 3/4" quartz vein lent. po.		A10942	485.0	490.0	5.0	T				
		479.9: 3/4" quartz vein - barren.		A10943	490.0	495.0	5.0	T				
		482.3: 1" quartz vein - barren.		A10944	495.0	500.0	5.0	T				
		483.2: 1" quartz vein with po, py and tr cpy.		A10945	500.0	505.0	5.0	T				
		484.3: $\frac{1}{4}$" quartz vein - po.		A10946	505.0	507.0	2.0	T				
		484.9: 2" quartz vein - barren.		A10947	507.0	508.0	1.0	T				
		495.6: $2\frac{1}{2}$" quartz vein - barren.		A10948	508.0	510.0	2.0	T				
		507.4: $1\frac{1}{2}$" quartz vein - cpy.		A10949	510.0	515.0	5.0	T				
		524.8: 3/4" quartz vein - po.		A10950	515.0	520.0	5.0	T				
				A10951	520.0	525.0	5.0	T				
553.0	652.0	INTERMEDIATE TO MAFIC TUFF (2c to 1c)		A10952	525.0	530.0	5.0	T				
		Light green in colour, charac. Well schistose, containing an abundance of		A10953	530.0	535.0	5.0	.02				
		carbonate blebs. Quartz veins average 2" /10' section.		A10954	535.0	537.5	2.5	T				
		528.4: $\frac{1}{2}$" quartz vein with po and py.		A10955	537.5	538.5	1.0	T				
		530.2: 3/4" quartz vein with po.		A10956	538.5	540.0	1.5	N				
		532.0: $\frac{1}{2}$" quartz vein - po.		A10957	540.0	545.0	5.0	N				
		534.1: $\frac{1}{2}$" quartz vein - barren.		A10958	545.0	550.0	5.0	N				
		536.6: $\frac{1}{2}$" quartz vein - po, py and cpy.		A10959	550.0	555.0	5.0	T				
		537.7: $\frac{1}{2}$" quartz vein infilled with py.		A10960	555.0	560.0	5.0	T				
		535.0: Schistosity/core axis angle is 55°.		A10961	560.0	565.0	5.0	.04				
		592.0: Schistosity/core axis angle is 55°.		A10962	565.0	570.0	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 Pulp Assay
				A10963	570.0	575.0	5.0	T				
553.0	652.0	CONTD.		A10964	575.0	580.0	5.0	T				
		538.0: 1" quartz vein with po, py and cpy.		A10965	580.0	585.0	5.0	T				
		547.6 - 553.3: MAFIC DYKE (1a)		A10966	585.0	590.0	5.0	T				
		Medium grained, grey in colour, not schistose		A10967	590.0	595.0	5.0	N				
		charac. Contains 7-8% py (diss)	7-8% py	A10968	595.0	600.0	5.0	.045				
		553.3 - 555.2: FELSIC TUFF (4c)		A10969	600.0	605.0	5.0	T				
		Light grey, very fine grained, probably a		A10970	605.0	610.0	5.0	T				
		crystal tuff.		A10971	610.0	615.0	5.0	T				
		555.2 - 556.6: CHLORITE ALTERATION ZONE (5a)		A10972	615.0	620.0	5.0	T				
		Light green, chloritic, slightly talcy,	tr py	A10973	620.0	625.0	5.0	T				
		non-magnetic.		A10974	625.0	630.0	5.0	T				
		558.8 - 559.6: PYROXENITE DYKE: (6c)		A10975	630.0	631.5	1.5	T				
		Essentially composed of medium grained		A10976	631.5	633.0	1.5	T			V.G.?	
		pyroxene crystals.		A10977	633.0	635.0	2.0	T				
		591.6: 1" quartz vein - barren.		A10978	635.0	640.0	5.0	T				
		610.1: 1" quartz vein - barren.		A10979	640.0	641.0	1.0	T				
		621.0: 3/4" quartz vein - barren.		A10980	641.0	642.5	1.5	.065			V.G.	
		632.4: $\frac{1}{4}$" quartz vein with 30% py tr cpy and V.G.?	V.G. ?	A10981	642.5	645.0	2.5	.005				
		637.2: 3/4" quartz vein - barren.		A10982	645.0	650.0	5.0	.005				
		641.9: 1" quartz vein with lent. po, tr cpy and V.G.	V.G.	A10983	650.0	655.0	5.0	T				
		(1 speck)		A10984	655.0	656.5	1.5	T				
		646.5: 1" quartz vein tr po and py.		A10985	656.5	658.0	1.5	.04				
		647.8: 1" carbonate vein - barren.		A10986	658.0	660.0	2.0	.07				
				A10987	660.0	665.0	5.0	.005				
652.0	755.3	MAFIC TO INTERMEDIATE TUFF (WITH INTERMIXED INT. FLOW)		A10988	665.0	670.0	5.0	.005				
		Light grey-green in colour, well schistose, biotization in places,		A10989	670.0	675.0	5.0	T				
		generally above average chlorite Content. Increase in sulphides with		A10990	675.0	680.0	5.0	T				
		7-8% py and 1% po and tr cpy. At the contact with felsic tuff.		A10991	680.0	685.0	5.0	T				
		Quarts veins average $1\frac{3}{4}$" /10' section.		A10992	685.0	690.0	5.0	T				
		705.6: 3/4" quartz vein with tr py		A10993	690.0	695.0	5.0	T				
		709.6: $\frac{1}{4}$" quartz vein - barren.		A10994	695.0	700.0	5.0	.015				
		710.9: 3/4" quartz vein - barren.		A10995	700.0	705.0	5.0	.01				
		712.6: 3/4" quartz vein - tr py		A10996	705.0	710.0	5.0	.03				
		717.0 - 722.0: Sulphides in host rock and 3;$\frac{1}{2}$" quarts veins.	4% po, 1%py, $\frac{1}{2}$% cpy	A10997	710.0	715.0	5.0	T				
		722.0 - 727.0:	3% po, 1% py, $\frac{1}{3}$% cpy	A10998	715.0	720.0	5.0	.055		.09		.06
		726.0: 3/4" quartz vein with po, cpy and V.G.	V.G. (1 speck)	A10999	720.0	725.0	5.0	.045		.06		.030
		731.3: 3/4" quartz vein with po, cpy, py and V.G.	4-5 specks V.G.	A11000	725.0	727.0	2.0	.095		.38	V.G.	
		727.0 - 732.0:	3% po, 1% py, 1% cpy	A15001	727.0	730.0	3.0	.01		.07	.08	
		732.0 - 737.0:	4% po, $\frac{1}{2}$%cpy, tr py	A15002	730.0	732.0	2.0	.165		.08	V.G.	
		742.7: Felsic fragments containing diss. po		A15003	732.0	735.0	3.0	.02		.03		
		737.0 - 742.0:	$\frac{1}{2}$% po, $\frac{1}{2}$% cpy	A15004	735.0	740.0	5.0	.06		.23		
		742.0 - 747.0:	6% po, 3% py, $\frac{1}{2}$% cpy	A15005	740.0	745.0	5.0	.01		.13		
		747.0 - 752.0:	4% po, 2% py, $\frac{1}{4}$% cpy	A15006	745.0	750.0	5.0	T		.09		
		754.0: Schistosity/core axis angle is 45°.		A15007	750.0	755.0	5.0	T		.08		
		752.0 - 757.0:	10% py, 6%po, $\frac{1}{4}$% cpy	A15008	755.0	760.0	5.0	T		.05		
				A15009	760.0	765.0	5.0	.19	.12	.10		.18
755.3	777.8	FELSIC TUFF - Cherty - (4c + 3)		A15010	765.0	769.0	4.0	.03	9'	.47		
		Extremely siliceous at the north contact, thinly bedded and cherty to the	4% py, tr po + cpy	A15011	769.0	771.0	2.0	.01	.09			
		south. Sharp contact with mafic tuff above. Contact/core axis angle 30°.		A15012	771.0	775.0	4.0	.06	15'			
		761.0: 3/4" quartz vein with po and py.		A15013	775.0	780.0	5.0	T				
		769.3 - 770.2: Quartz vein with py, po and cpy.		A15014	780.0	785.0	5.0	T				
				A15015	785.0	790.0	5.0	.01				
				A15016	790.0	795.0	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.
				A15017	795.0	800.0	5.0	.02			
777.8	815.3	CHLORITE ALTERATION ZONE (5a)		A15018	800.0	805.0	5.0	.02			
		Light green, chloritic, amphibolised mafic flow at the north contact.	tr sulphides.	A15019	805.0	810.0	5.0	.01			
		It is slightly talcy and non-magnetic.		A15020	810.0	815.0	5.0	.01			
		789.3 - 794.9: FELSIC TUFF (4c)		A15021	815.0	820.0	5.0	T			
		Light purple grey in colour, siliceous, thinly		A15022	820.0	825.0	5.0	T			
		bedded, medium grained fragments. Sharp	tr sulphides	A15023	825.0	830.0	5.0	T			
		contact to the north with chlorite alteration		A15024	830.0	835.0	5.0	.01			
		zone.		A15025	835.0	840.0	5.0	.01			
				A15026	840.0	845.0	5.0	.02			
815.3	830.3	FELSIC TUFF (4c)		A15027	845.0	850.0	5.0	T			
		Light grey in colour, schistose, quartz eyes, charac. Contains diss.		A15028	850.0	855.0	5.0	T			
		medium grained blebs of py.		A15029	855.0	860.0	5.0	T			
		Schistosity/core axis angle is 60°.		A15030	860.0	865.0	5.0	T			
				A15031	865.0	870.0	5.0	T			
		SERPENTINIZED ZONE		A15032	870.0	877.0	7.0	T			
830.3	877.0	TALC - CARBONATE ROCK (6a)									
		Light green, talcy, charac. contains carbonate veinlets. No Quartz veins.	Tr sulphides.								
	877.0	END OF HOLE									

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

PROPERTY	DETOUR LAKE	LATITUDE	212 + 50 NORTH	STARTED	23rd September, 1975
HOLE NO.	DLO-38-87	DEPARTURE	192 + 00 EAST	FINISHED	26th September 1975
BEARING	180°	ELEVATION		LENGTH	668 FEET
DIP-COLLAR	-60°	SECTION		LOGGED BY	BABU GAJARIA

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	56°				
400'	43°				
600'	36½°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	30.0	CASING	
30.0	32.7	FELSIC TUFF (4c	
		Purple grey in colour, siliceous, well bedded, and schistose, tr py.	
		Bedding/core axis angle is 40°	
32.7	109.0	INT. to MAFIC LAVA FLOW (2a to 1a)	
		Charac. light grey-green in colour, with numerous quartz-carbonate	
		(¼"-⅛") veins parallel to the schistosity charac. felsic blebs and veinlets.	⅓% po
		Po in the form of blebs mostly assoc. with quartz-carbonate veins.	
		Quartz veins average 2"/10' section.	
		59.6: 2; 1" quartz vein, diss. po tr cpy	
		66.3: ½" carbonate vein with po and chlorite	
		71.0: ½" quartz vein po and diss. cpy	
		75.4: ½" quartz vein - po and cpy.	
109.0	113.6	INT. TUFF (2c)	
		Buff brown in colour (biotite rich) siliceous fine grained, bedded, sharp	tr sulfides
		contact on either side with mafic flow.	
113.6	668.0	MAFIC LAVA FLOW (1a)	
		Light grey, green, in colour, charac. shows 1/8" - 1/4" quartz carb.	tr sulfides
		veins. occ. carbonate blebs. charac. felsic blebs.	
		256.0 - 260.8: Porphyrytic, mafic flow	
		287.2 - 295.6: Felsic to int. dyke. (4a to 2a)	
		Purple grey in colour, fine to medium	
		grained.	tr sulfides.
		379.2: ½" quartz vein, po and py	
		427.7: 3" lense, po and cpy blebs	
		433.5: 1" quartz vein, po and tr cpy	
		440.0: Chlorite, epidote zone - po and cpy	
		450.8: 3/4" quartz vein, tr po and cpy.	
		453.1 - 454.9: MAFIC DYKE (1)	
		Med. grained, biotite rich, charac. contains	
		diss. py.	
		460.5 - 461.5: MAFIC DYKE (1)	
		Sim. to above.	
		465.7: ½" quartz vein, tr cpy	
		467.1: 1" quartz vein, po and tr cpy	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.		
A17066	57.0	62.0	5.0	T				
A17067	62.0	67.0	5.0	T				
A17068	67.0	72.0	5.0	T				
A17069	376.0	381.0	5.0	T				
A17070	425.0	430.0	5.0	T				
A17071	430.0	435.0	5.0	T				
A17072	435.0	440.0	5.0	T				
A17073	440.0	445.0	5.0	T		.01		
A17074	445.0	450.0	5.0	T				
A17075	450.0	455.0	5.0	T				
A17076	465.0	470.0	5.0	.030				
A17077	470.0	475.0	5.0	T				
A17078	475.0	480.0	5.0	N				
A17079	575.0	580.0	5.0	N				
A17080	625.0	630.0	5.0	N				
A17081	630.0	635.0	5.0	.05				
A17082	635.0	640.0	5.0	1.14				V.G.
A17083	640.0	645.0	5.0	.035				
A17084	645.0	650.0	5.0	T				
A17085	650.0	655.0	5.0	.010				
A17086	655.0	660.0	5.0	T				

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

PROPERTY DETOUR LAKE HOLE NO. DLO-38 - 87 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
113.6	668.0	CONTD.						
		479.0: ½" quartz vein, diss po.						
		486.5: 2" quartz vein - barren.						
		527.2 - 535.1: INT. DYKE (2)						
		Medium grained, buff brown in colour sharp contacts.	tr sulfides					
		535.1 - 537.6: MAFIC DYKE (1)						
		Grey-green in colour, medium grained	tr sulfides					
		579.4: 2" quartz vein - barren						
		607.6: ½" quartz vein - po and py						
		620.0: 1" quartz vein, tr py						
		622.5: ½" quartz vein, po and cpy						
		633.0: ½" quartz vein, po and cpy						
		637.5: 1' quartz vein, po, py and cpy and 20 specks of V.G.	20 specks V.G.					
		645.4: ½" quartz vein, po, py and tr cpy						
		657.9: ¼" quartz vein, po and cpy						
		661.8: 2" quartz vein, barren						
	668.0	HOLE STOPPED: It had flattened so much that is would have intersected d.d.h. 85 (192 E ; 210 N)						

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 INTERMEDIA TE TUFF (1c to 2c)	
		Light green to buff white in colour. The mafic and felsic minerals are	1% diss. Pyrite
		segregated into different bands. The tuff is moderately bedded.	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	½% diss. pyrite
		is chloritised mafic flow. It is slightly talcy. The rock contains a few	
		felsic fragments (5%) at the south contact and therefore agglomeratic.	
		86.8 - 89.8: INTERMEDIATE TUFF: dark greyish black, very fine grained.	trace sulphides
125.0	146.5	FELSIC AGGLO MERATE (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.	trace sulphides
		(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.	
		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	trace diss. Pyrite
		at the north contact becoming more felsic to the south. It is non	
		magnetic.	
		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	80.0	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			

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

PROPERTY DETOUR LAKES HOLE NO. DLO-39-5

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, however there is greater concentration of mafic minerals. The rock is light		A12387	260.0	265.0	5.0	N			
			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	A12399	320.0	325.0	5.0	N			
			crystals of pyrite	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 disseminated pyrite and magnetite.	6% magnetite	A12405	350.0	355.0	5.0	N			
				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 magnetite. Sharp contacts on either side with		A12420	425.0	430.0	5.0	T			
				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

						DIP TEST					
PROPERTY	DETOUR LAKES	LINE LATITUDE	318 + 00 EAST	STARTED	11th June , 1975	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	.08	.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	.008
		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

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS 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	10% Po, 1% py, $\frac{1}{4}$% cpy	A12480	225.0	230.0	5.0	N		.02	.003
		contact with mafic flow in gradational.		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, $\frac{1}{4}$% cpy	A12488	265.0	270.0	5.0	T		.05	.009
		210.0 - 220.0:	1% po, $\frac{1}{2}$% 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
			$\frac{1}{4}$% 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
			$\frac{1}{4}$% 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:	$\frac{1}{3}$% py, $\frac{1}{3}$% 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, $\frac{1}{2}$% 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, $\frac{1}{4}$% 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			

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

PROPERTY DETOUR LAKES HOLE NO. DLO - 39 - 6 Page 3

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, $\frac{1}{4}$% cpy	A12536	505.0	510.0	5.0	N			
		305.0 - 315.0:	$\frac{1}{2}$% 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, $\frac{1}{4}$% 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:	$\frac{1}{4}$% 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.	Trace pyrite
		190.0 - 209.1: Disseminated pyrite	3/4% pyrite
		195.6 - 198.6: MAFIC TUFF (1c): Light green-grey in colour, well schistose and bedded, some biotization and carbonate veinlets.	$\frac{1}{2}$% 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			

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 rusted, probably intersected a minor fault	10-15% pyrite	A12590	310.0	315.0	5.0	N	.04			
				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 $1\frac{1}{2}$"-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.	Ag.	Cu.	Zn.	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 $\frac{1}{2}$".										
631.0	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.										

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

PROPERTY DETOUR LAKES HOLE NO. DLO-39-7

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 ¼". (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	172 + 00 EAST	STARTED	7th June, 1975
HOLE NO.	DLO - 38 - 47	DEPARTURE	196 + 00 NORTH	FINISHED	10th June, 1975
BEARING	180°	ELEVATION		LENGTH	601 FEET
DIP-COLLAR	- 45°	SECTION		LOGGED BY	BABU GAJARIA

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	45°	601'	Az. 193° Dip. 41°		
400'	43°				
600'	41°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	81	CASING	
81	219.0	INTERMEDIATE TUFF (2c) WITH SOME INTERCALACTED MAFIC TUFF (1c)	
		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.	$\frac{1}{8}$% diss. pyrite + $\frac{1}{2}$% pyrrhotite
		81.0 - 89.0: Mafic flow + mafic tuff (1a + 1c)	
		83.5 - 83.7: Quartz vein	1% py + po trace cpy
		87.9 - 88.0: Quartz vein	1% Po $\frac{1}{3}$% cpy along wall
		99.1 - 102.0: Cherty felsic flow (4a): Light purple, highly siliceous	trace sulphides
		110.3 - 110.4: Quartz vein	trace cpy
		114.3 - 114.4: Quartz vein	trace pyrite
		114.4 - 116.9: Cherty felsic tuff (3): light purple in colour, highly siliceous.	trace sulphides
		128.9 - 129.1: Quartz vein	$\frac{1}{4}$% cpy
		130.0 - 135.0:	1% Po, $\frac{1}{2}$% Py, tr cpy
		170.8 - 170.9: Quartz vein	1% pyrite
219.0	252.0	TUFFACEOUS MAFIC FLOW (1c + 1a)	
		Similar in texture to above, but becoming finer grained and mafic. Sulphide content increases.	1% diss. pyrite 1% diss. pyrrhotite.
		194.3 - 194.5: Quartz vein	trace pyrite
		194.7 - 194.8: Quartz vein	$\frac{1}{3}$% chalcopyrite
		240.9 - 241.1: Quartz vein - barren	
		241.9 - 242.4: Quartz vein - barren	
		243.0 - 245.0: Quartz stringers:	3% cpy, 4% pyrite
		248.0 - 248.2: Quartz vein with flakey pyrite	
		130.0: Schistosity/core axis angle is 58°	
		114.0: Contact/core axis angle is 60°	
		122.0: Bedding/core axis angle is 65°	
		227.0: Schistosity/core axis angle is 55°	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
A6322	81.0	83.0	2.0	N				whole core
A6323	83.0	84.0	1.0	T				
A6324	84.0	87.5	3.5	N				whole core
A6325	87.5	88.5	1.0	.01				
A6326	88.5	90.0	1.5	N				
A6327	90.0	95.0	5.0	T				
A6328	95.0	100.0	5.0	N				
A6329	100.0	105.0	5.0	N				
A6330	105.0	110.0	5.0	T				
A6331	110.0	111.0	1.0	T				whole core
A6332	111.0	115.0	4.0	N				
A6333	115.0	120.0	5.0	N				
A6334	120.0	125.0	5.0	T				
A6335	125.0	128.5	3.5	T				
A6336	128.5	130.0	1.5	.05				whole core
A6337	130.0	135.0	5.0	.01				
A6338	135.0	140.0	5.0	.06				
A6339	140.0	145.0	5.0	.07				
A6340	145.0	150.0	5.0	.02				
A6341	150.0	155.0	5.0	.01				
A6342	155.0	160.0	5.0	.01				
A6343	160.0	165.0	5.0	.005				
A6344	165.0	170.0	5.0	T				
A6345	170.0	175.0	5.0	.005				
A6346	175.0	180.0	5.0	T				
A6347	180.0	185.0	5.0	T				
A6348	185.0	190.0	5.0	T				
A6349	190.0	194.0	4.0	.005				
A6350	194.0	195.0	1.0	.26				whole core
A6351	195.0	200.0	5.0	.03				
A6352	200.0	205.0	5.0	T				
A6353	205.0	210.0	5.0	T				
A6354	210.0	215.0	5.0	N				
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				

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

PROPERTY DETOUR LAKES HOLE NO. DLO-38-47 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	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	½% pyrite	A6414	485.0	490.0	5.0	N			
		grained felsic fragments.		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		A6433	580.0	585.0	5.0	N			
		intercalacted sections of tuffaceous felsic flow. In places the mafic flow		A6434	585.0	590.0	5.0	N			
		is amphibolised, especially at the south end.		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									

	DIP.	AZ.
TROPARI-1400 -	40°	153°
700	37°	179°

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

						DIP TEST					
PROPERTY	DETOUR LAKES	LATITUDE	205 + 00N	STARTED	August 14th, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	38 - 69	DEPARTURE	180 + 00E	FINISHED	August 23rd, 1975	200'	38½°	800'	40°	1400	31½°
BEARING	180°	ELEVATION		LENGTH	1433'	400'	36°	1000'	35°		
DIP-COLLAR	- 50°	SECTION		LOGGED BY	A. Jackson P. M. H. RITCHIE	600'	40°	1200'	31½°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	pulp assay	
				A15392	8.0	13.0	5.0	.005				
0	8	CASING		A15393	13.0	18.0	5.0	T				
				A15394	18.0	23.0	5.0	.005				
8	200	Fine to medium grained mafic flows and tuffs - grey green (la, lc)		A15395	23.0	28.0	5.0	T				
		¼% py, tr po, cpy	¼% py, tr po, cpy	A15396	28.0	33.0	5.0	.010				
		125.0 - 125.7: Grey intermediate tuff		A15397	33.0	38.0	5.0	.005				
		Tuffaceous bedding at 86' 39°		A15398	38.0	43.0	5.0	.005				
		Tuffaceous bedding at 168' 54°		A15399	43.0	48.0	5.0	N				
		Carbonate and quartz veins.		A15400	48.0	53.0	5.0	N				
		178.1: V.G. 1 very small speck in quartz stringer	V.G. 1 v. small speck	A15401	53.0	58.0	5.0	.005				
		181.7: V.G. 1 very small speck in quartz stringer	V.G. 1 v. small speck	A15402	58.0	63.0	5.0	T				
		183.5: V.G. 2 specks in quartz stringer with cpy	V.G. 2 specks	A15403	63.0	68.0	5.0	T				
				A15404	68.0	73.0	5.0	T				
200.0	274.0	Fine grained mafic flows and tuffs - (la, lc) grey green		A15405	73.0	78.0	5.0	T				
		¼% py, tr po, cpy	¼% py, tr po, cpy	A15406	78.0	83.0	5.0	T				
		Tuffaceous bedding at 254' 40° with C.A.		A15407	83.0	88.0	5.0	T				
		Carbonate and quartz veins		A15408	88.0	93.0	5.0	T				
				A15409	93.0	98.0	5.0	T				
274.0	346.0	Grey and grey-green mafic tuffs; (lc) minor fine grained flows		A15410	98.0	103.0	5.0	T				
		Tuffaceous bedding at 289', 61° with C.A.		A15411	103.0	108.0	5.0	T				
		¼-½% po, py, cpy	¼-½% py, po, cpy	A15412	108.0	113.0	5.0	T				
		More carbonate veins than above.		A15413	113.0	118.0	5.0	T				
		328.8: V.G. 1 very small speck in quartz stringer	V.G. 1 v. small speck	A15414	118.0	123.0	5.0	T				
				A15415	123.0	128.0	5.0	T				
346.0	418.0	Green grey and grey mafic tuffs; (lc)		A15416	128.0	133.0	5.0	T				
		Minor fine grained flows		A15417	133.0	138.0	5.0	T				
		Many carbonate veins.		A15418	138.0	143.0	5.0	T				
		Tuffaceous bedding at 372', 50° to C.A.		A15419	143.0	148.0	5.0	T				
		Tr - ¼% py, po, cpy	tr-¼% py, po, cpy	A15420	148.0	153.0	5.0	T				
		350.0 - 353.0: ¼% silver matallic mineral (galena)?		A15421	153.0	158.0	5.0	T				
				A15422	158.0	163.0	5.0	T				
418.0	492.0	Green grey mafic tuffs and fine to medium grained flows (lc, la)		A15423	163.0	168.0	5.0	T				
		Quartz and carbonate veins, chloritic		A15424	168.0	173.0	5.0	.01				
		Tuffaceous bedding at 430', 43° to C.A.		A15425	173.0	177.5	4.5	.015				
		¼-½% py, po, tr cpy	¼-½% py, po, tr cpy	A15426	177.5	178.5	1.0	.173			V.G.	w/core
		(Mineralization is greater in the tuffs)		A15427	178.5	181.0	2.5	.005				
				A15428	181.0	182.0	1.0	.07	).10		V.G.	w/core
492.0	562.5	Fine to medium grained mafic to intermediate flows and tuffs (la, lc)		A15429	182.0	183.0	1.0	.01	11.5'			
		Grey and grey-green		A15430	183.0	184.0	1.0	.395			V.G.	w/core
		Tr- ¼% py, tr po	Tr - ¼% py, tr po	A15431	184.0	189.0	5.0	.095		.085		

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	pulp	
				A15432	189.0	194.0	5.0	.005				
492.0	562.5	CONTD..		A15433	194.0	199.0	5.0	.025				
		492.0 - 492.5: Fine grained grey intermediate flow		A15434	199.0	204.0	5.0	.01				
		511.0 - 513.5: Grey felsic tuff (4c)		A15435	204.0	209.0	5.0	T				
		Contact 35° to C.A.		A15436	209.0	214.0	5.0	T				
				A15437	214.0	219.0	5.0	.015				
562.5	591.0	Grey and grey-green mafic tuff (1c)		A15438	219.0	224.0	5.0	.005				
		1 - 1½% py, tr po, cpy	1-1½% py, tr po, cpy	A15439	224.0	229.0	5.0	T				
				A15440	229.0	234.0	5.0	.01				
591.0	599.2	Grey felsic to intermediate tuff (4c)		A15441	234.0	239.0	5.0	T				
		Tr - ¼% py	tr - ¼% py	A15442	239.0	244.0	5.0	.01				
				A15443	244.0	249.0	5.0	.015				
599.2	658.0	Fine grained grey and grey-green mafic tuff and flows (1a, 1c)		A15444	249.0	254.0	5.0	.03				
		1% py, tr po, cpy	1% py, tr po, cpy	A15445	254.0	259.0	5.0	.01				
		611.0 - 612.0: Grey intermediate tuff		A15446	259.0	264.0	5.0	T				
				A15447	264.0	269.0	5.0	.03				
658.0	733.0	Grey and grey-green mafic tuff and fine to medium grained flows (1a, 1c)		A15448	269.0	274.0	5.0	.01				
		1% py, tr po, cpy	1% py, tr po, cpy	A15449	274.0	279.0	5.0	.005				
		Tuffaceous bedding at 710' 60° to C.A.		A15450	279.0	284.0	5.0	.035				
				A15451	284.0	289.0	5.0	.005				
733.0	804.0	Grey and grey-green mafic tuffs and fine to medium grained mafic flows (1a, 1c)		A15452	289.0	294.0	5.0	.02				
				A15453	294.0	299.0	5.0	.04				
		Many quartz veins		A15454	299.0	304.0	5.0	.01				
		¼% py, tr po, cpy (mostly in the tuff)	¼% py, tr po, cpy	A15455	304.0	309.0	5.0	.05			.04	
		801.5 - 803.5: Grey felsic tuff (4c)		A15456	309.0	314.0	5.0	T				
		Contact 57° to C.A.		A15457	314.0	319.0	5.0	.01				
		745.2: V.G. 2 specks in 2" quartz vein	V.G. 2 specks	A15458	319.0	324.0	5.0	.01				
				A15459	324.0	328.3	4.3	T				
804.0	877.0	Fine to medium grained light green grey mafic to intermediate flows (1a)		A15460	328.3	329.3	1.0	.042			V.G.	w/core
		minor tuff		A15461	329.3	334.0	4.7	.005				
		Phlogopite is common		A15462	334.0	339.0	5.0	.005				
		Tr py, po, cpy	tr py, po, cpy	A15463	339.0	344.0	5.0	.015				
				A15464	344.0	349.0	5.0	.03				
877.0	1207.6	MAFIC LAVA FLOW (1a)		A15465	349.0	350.0	1.0	T				
		Grey-green in colour, fine to medium grained, amphibolised, schistose		A15466	350.0	353.0	3.0	.23 .204	.21	.063	.026 .204	check out w/core galena ?
		in places. Quartz veins average 1¼"/10' section.	tr py.	A15467	353.0	358.0	5.0	T				
		967.6: 2" quartz vein - tr po		A15468	358.0	363.0	5.0	T				
		989.0: Schistosity/core axis angle is 55°		A15469	363.0	368.0	5.0	.005				
		1042.8 - 1043.7: Barren quartz vein, milky white		A15470	368.0	373.0	5.0	.01				
		1043.7 - 1045.0: 2 quartz veins 1", qwith po, cpy		A15471	373.0	378.0	5.0	T				
		1050.0 - 1195.0: Rare quartz vein with minor po, cpy.		A15472	378.0	383.0	5.0	.005				
		Quartz-carbonate with prominent as blebs throughout.		A15473	383.0	388.0	5.0	.015				
				A15474	388.0	393.0	5.0	.01				
		1082.0 - 1083.0: Barren quartz vein - milky white		A15475	393.0	398.0	5.0	.005				
		1195.0 - 1207.6: 2-3 quartz vein every 5', 1-2% po, cpy	1-2% po, cpy	A15476	398.0	403.0	5.0	.025				
				A15477	403.0	408.0	5.0	T				
1207.6	1210.0	INTERMEDIATE TUFF (2c)		A15478	408.0	413.0	5.0	.005				
		Fine grained, medium brown, mod. biotitic, well bedded at 45°, lower 3"	3-5% po, cpy	A15479	413.0	418.0	5.0	T				
		has quartz "bombs", ½", with 5-10% po, cpy and 1 speck V.G.	1 speck of V.G.	A15480	418.0	423.0	5.0	T				
				A15481	423.0	428.0	5.0	.01				
1210.0	1211.5	CHERTY TUFF		A15482	428.0	433.0	5.0	T				
		Light creamy-grey, well laminated at 45°, 1-2% po, py		A15483	433.0	438.0	5.0	T				
				A15484	438.0	443.0	5.0	T				
				A15485	443.0	448.0	5.0	.005				

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PROPERTY DETOUR LAKES HOLE NO. 38 - 69

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	pulp	D. Au.
				A15486	448.0	453.0	5.0	.005				
1211.5	1216.0	FELSIC TUFF		A15487	453.0	458.0	5.0	T				
		Light grey, massive, tr py	tr py	A15488	458.0	463.0	5.0	T				
				A15489	463.0	468.0	5.0	T				
1216.0	1225.0	MAFIC TUFF.		A15490	468.0	473.0	5.0	N				
		Medium dark green, mod. chloritic and biotitic, upper part tuffaceous,		A15491	473.0	478.0	5.0	N				
		grades down to flow.		A15492	478.0	483.0	5.0	N				
				A15493	483.0	488.0	5.0	N				
1225.0	1227.0	FELSIC TUFF		A15494	488.0	493.0	5.0	N				
				A15495	493.0	498.0	5.0	T				
1227.0	1253.0	CHLORITE ALTERATION		A15496	498.0	503.0	5.0	T				
		Dark green, highly chloritic, grades down into talc carbonate rock.		A15497	503.0	508.0	5.0	T				
		1239.0 - 1250.0: FELSIC TUFF		A15498	508.0	513.0	5.0	T				
				A15499	513.0	518.0	5.0	T				
1253.0	1428.0	TALC-CARBONATE		A15500	518.0	523.0	5.0	T				
		Dark-grey-black, massive.		A15501	523.0	528.0	5.0	T				
		1261.0 - 1264.0: Felsic - int. tuff, bedded at 80°, biotitic		A15502	528.0	533.0	5.0	T				
		1294.0 - 1302.0: Cherty tuff		A15503	533.0	538.0	5.0	.005				
		Creamy grey, reddish, bedding at 40°		A15504	538.0	543.0	5.0	T				
		1309.0 - 1313.0: Mafic flow, slightly chloritic		A15505	543.0	548.0	5.0	T				
				A15506	548.0	553.0	5.0	T				
1428.0	1433.0	MAFIC FLOW		A15507	553.0	558.0	5.0	T				
		Dark green, fine grained, massive.		A15508	558.0	563.0	5.0	T				
				A15509	563.0	568.0	5.0	T				
				A15510	568.0	573.0	5.0	T				
	1433.0	END OF HOLE		A15511	573.0	578.0	5.0	T				
				A15512	578.0	583.0	5.0	.005				
				A15513	583.0	588.0	5.0	.005				
				A15514	588.0	593.0	5.0	T				
				A15515	593.0	598.0	5.0	T				
				A15516	598.0	603.0	5.0	T				
				A15517	603.0	608.0	5.0	T				
				A15518	608.0	613.0	5.0	.005				
				A15519	613.0	618.0	5.0	.005				
				A15520	618.0	623.0	5.0	.01				
				A15521	623.0	628.0	5.0	.01				
				A15522	628.0	633.0	5.0	T				
				A15523	633.0	638.0	5.0	T				
				A15524	638.0	643.0	5.0	T				
				A15525	643.0	648.0	5.0	.065				
				A15526	648.0	653.0	5.0	.03				
				A15527	653.0	658.0	5.0	.005				
				A15528	658.0	663.0	5.0	.01				
				A15529	663.0	668.0	5.0	.005				
				A15530	668.0	673.0	5.0	.035				
				A15531	673.0	678.0	5.0	.005				
				A15532	678.0	683.0	5.0	T				
				A15533	683.0	688.0	5.0	T				
				A15534	688.0	693.0	5.0	T				
				A15535	693.0	698.0	5.0	T				.067
				A15536	698.0	703.0	5.0	T				
				A15537	703.0	708.0	5.0	T				
				A15538	708.0	713.0	5.0	T				
				A15539	713.0	718.0	5.0	T				

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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 pulp	ASSAYS D. Au
				A15540	718.0	723.0	5.0	.01				
				A15541	723.0	728.0	5.0	.015				
				A15542	728.0	733.0	5.0	.02				
				A15543	733.0	738.0	5.0	.005				
				A15544	738.0	743.0	5.0	T				
				A15545	743.0	744.7	1.7	.035				
				A15546	744.7	745.7	1.0	.844	.15/7'		.630 V.G. Woore	
				A15547	745.7	750.0	4.3	.035				
				A15548	750.0	755.0	5.0	T				
				A15549	755.0	760.0	5.0	.010				
				A15550	760.0	765.0	5.0	.030				
				A15551	765.0	770.0	5.0	.035				
				A15552	770.0	775.0	5.0	.01				
				A15553	775.0	780.0	5.0	.010				
				A15554	780.0	785.0	5.0	.010				
				A15555	785.0	790.0	5.0	T				
				A15556	790.0	795.0	5.0	T				
				A15557	795.0	800.0	5.0	.005				
				A15558	800.0	805.0	5.0	.010				
				A15559	805.0	810.0	5.0	.01				
				A15560	810.0	815.0	5.0	T				
				A15561	815.0	820.0	5.0	.46				.460
				A15562	820.0	825.0	5.0	T				
				A15563	825.0	830.0	5.0	T				
				A15564	830.0	835.0	5.0	.045				
				A15565	835.0	840.0	5.0	.015				
				A15566	840.0	845.0	5.0	T				
				A15567	845.0	850.0	5.0	.025				
				A15568	850.0	855.0	5.0	T				
				A15569	855.0	860.0	5.0	T				
				A15570	860.0	865.0	5.0	T				
				A15571	865.0	870.0	5.0	T				
				A15572	870.0	875.0	5.0	T				
				A15573	875.0	880.0	5.0	.025				
				A15574	880.0	885.0	5.0	.04				
				A15575	885.0	890.0	5.0	T				
				A15576	890.0	895.0	5.0	T				
				A15577	895.0	900.0	5.0	.015				
				A15578	900.0	905.0	5.0	T				
				A15579	905.0	910.0	5.0	T				
				A15580	910.0	915.0	5.0	T				
				A15581	915.0	920.0	5.0	T				
				A15582	920.0	925.0	5.0	T				
				A15583	925.0	930.0	5.0	T				
				A15584	930.0	935.0	5.0	T				
				A15585	935.0	940.0	5.0	T				
				A15586	940.0	945.0	5.0	T				
				A15587	945.0	950.0	5.0	T				
				A15588	950.0	955.0	5.0	T				
				A15589	955.0	960.0	5.0	T				
				A15590	960.0	965.0	5.0	T				
				A15591	965.0	970.0	5.0	.05				
				A15592	970.0	975.0	5.0	T				
				A15593	975.0	980.0	5.0	T				

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 Au.	Ag.	Cu.	pulp metallics	D. Au.
				A15594	980.0	985.0	5.0	T				
				A15595	985.0	990.0	5.0	T				
				A15596	990.0	995.0	5.0	T				
				A15597	995.0	1000.0	5.0	.010				
				A15598	1000.0	1005.0	5.0	T				
				A15599	1005.0	1010.0	5.0	.010				
				A15600	1010.0	1015.0	5.0	.005				
				A15601	1015.0	1020.0	5.0	.005				
				A15602	1020.0	1025.0	5.0	T				
				A15603	1025.0	1030.0	5.0	.005				
				A15604	1030.0	1035.0	5.0	.010				
				A15605	1035.0	1040.0	5.0	.010				
				A15606	1040.0	1045.0	5.0	.06				.06
				A15607	1045.0	1050.0	5.0	.015				
				A15608	1050.0	1055.0	5.0	.010				
				A15609	1055.0	1060.0	5.0	T				
				A15610	1060.0	1065.0	5.0	.005				
				A15611	1065.0	1070.0	5.0	.005				
				A15612	1070.0	1075.0	5.0	T				
				A15613	1075.0	1080.0	5.0	T				
				A15614	1080.0	1085.0	5.0	T				
				A15615	1085.0	1090.0	5.0	T				
				A15616	1090.0	1095.0	5.0	T				
				A15617	1095.0	1100.0	5.0	T				
				A15618	1100.0	1105.0	5.0	T				
				A15619	1105.0	1110.0	5.0	T				
				A15620	1110.0	1115.0	5.0	.14			.169	
				A15621	1115.0	1120.0	5.0	T				
				A15622	1120.0	1125.0	5.0	T				
				A15623	1125.0	1130.0	5.0	.005				
				A15624	1130.0	1135.0	5.0	T				
				A15625	1135.0	1140.0	5.0	T				
				A15626	1140.0	1145.0	5.0	T				
				A15627	1145.0	1150.0	5.0	.005				
				A15628	1150.0	1155.0	5.0	.005				
				A15629	1155.0	1160.0	5.0	.03				
				A15630	1160.0	1165.0	5.0	T				
				A15631	1165.0	1170.0	5.0	T				
				A15632	1170.0	1175.0	5.0	T				
				A15633	1175.0	1180.0	5.0	.055			.04	
				A15634	1180.0	1185.0	5.0	.01				
				A15635	1185.0	1190.0	5.0	T				
				A15636	1190.0	1195.0	5.0	.015				
				A15637	1195.0	1200.0	5.0	T				
				A15638	1200.0	1205.0	5.0	.035	.0435			
				A15639	1205.0	1209.0	4.0	.07	10'		.05	
				A15640	1209.0	1210.0	1.0	.05			V G	.04
				A15641	1210.0	1215.0	5.0	.005				
				A15642	1215.0	1220.0	5.0	.005				
				A15643	1220.0	1225.0	5.0	.005				
				A15644	1225.0	1230.0	5.0	.005				
				A15645	1230.0	1235.0	5.0	.01				
				A15646	1235.0	1240.0	5.0	.045				

TROPARI
700' DIP. 42° AZ.187
1400' DIP. 44° AZ. 184.

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

PROPERTY	DETOUR LAKES	LATITUDE	205 + 00 NORTH	STARTED	August 25th, 1975
HOLE NO.	DLO - 38 - 75	DEPARTURE	182 + 00 EAST	FINISHED	SEPT. 3rd, 1975
BEARING	180°	ELEVATION		LENGTH	1489'
DIP-COLLAR	-45°	SECTION		LOGGED BY	A. JACKSON

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	43½°	800'	40°	1400'	37°
400'	43½°	1000'	37½°		
600'	41½°	1200'	40½°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	16.0	CASING	
16.0	33.0	MAFIC LAVA (1a) Medium dark-green, coarse grained, massive.	
33.0	78.0	FELSIC TUFF (4c) Medium grey, well bedded at 50° - 60°, minor py throughout, diss. and is narrow quartz veins with po, traces cpy. 58.0 - 62.0: Mafic flow 71.0 - 73.0: Mafic flow	
78.0	287.0	MAFIC FLOW (1a) Medium - dark green, coarse grained, slight - mod. foliation at 45°; 93.0 - 103.0: Felsic tuff ; same as 33.0 - 78.0. 111.0 - 205.0: Fine grained, flows, interbedded mafic and felsic tuffs. High quartz - carbonate content in blebs and stringers throughout, 5-10%. 121.0 - 125.5: Felsic tuff. Po blebs and stringers become evident from 140.0', about 1-2%, occ. tr cpy, quartz vein increases from 165.0', about 2-3 every 5'. 170.0: ½" quartz vein with 4 specks of V.G. no sulf.	V.G. 4
		173.0: ¼" quartz vein, po, cpy, 2 specks V.G.	V.G. 2
		189.0 - 191.0: Felsic tuff, streaks of po, cpy	
		205.0 - 274.0: Fine grained, quartz-carbonate decreases to 2-5%, quartz vein drops to 1-2 every 5'. 218.0: 1" quartz vein, po, cpy, 1 speck V.G.	1 speck V.G.
		222.0: ¼" quartz vein, po, cpy, 1 small speck V.G.	1 speck V.G.
		233.5 - 236.0: Felsic - inter. flow, reddish grey, massive, 3-4% po, py in blebs and stringers.	3-4% po, py
		241.0 - 246.0: Zone of more intense quartz vein, 8-10 veins of 1/8" - ¼" with po, py, traces cpy.	
		246.0 - 274.0: Po and cpy increase to 2% in blebs and stringers throughout; mod. biotitic throughout, rare quartz vein.	2% po, minor cpy
		274.0 - 287.0: Fine-medium grained mafic flow, very minor quartz-carbonate material or quartz vein.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.		
15647	140.0	145.0	5.0	.01				
15648	145.0	150.0	5.0	.02				
15649	150.0	155.0	5.0	.02				
15650	155.0	160.0	5.0	.02				
15651	160.0	165.0	5.0	.01				
15652	165.0	169.0	4.0	.01				
15653	169.0	170.0	1.0	.185				V.G.
15654	170.0	172.0	2.0	.03				
15655	172.0	173.0	1.0	.03				V.G.
15656	173.0	178.0	5.0	.01				
15657	178.0	183.0	5.0	.05				
15658	183.0	188.0	5.0	.01				
15659	188.0	193.0	5.0	.07				
15660	193.0	198.0	5.0	.02				
15661	198.0	203.0	5.0	.01				
15662	203.0	208.0	5.0	.01				
15663	208.0	213.0	5.0	.01				
15664	213.0	217.0	4.0	.01				
15665	217.0	219.0	2.0	.07				V.G.
15666	219.0	221.0	2.0	T				
15667	221.0	222.0	1.0	243				V.G.
15668	222.0	227.0	5.0	.02				
15669	227.0	232.0	5.0	.01				
15670	232.0	237.0	5.0	.03				
15671	237.0	242.0	5.0	.01				
15672	242.0	247.0	5.0	.03				
15673	247.0	252.0	5.0	.04				
15674	252.0	257.0	5.0	.02				
15675	257.0	262.0	5.0	.01				
15676	262.0	267.0	5.0	.02				
15677	267.0	272.0	5.0	.01				
15678	272.0	277.0	5.0	.10				
15679	340.0	345.0	5.0	.09				
15680	345.0	350.0	5.0	.01				
15681	350.0	355.0	5.0	.01				
15682	355.0	360.0	5.0	T				
15683	360.0	365.0	5.0	.02				
15684	365.0	370.0	5.0	.01				
15685	370.0	375.0	5.0	.01				
15686	375.0	380.0	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
				15687	380.0	385.0	5.0	.03		
287.0	334.0	FELSIC TUFF (4c)		15688	385.0	390.0	5.0	.01		
		Medium grey, mod. bedded at 50° - 60°, numerous small 1/16"		15689	390.0	395.0	5.0	.08	.067 / 15'	
		feldspar "clots" or aggregates throughout. Minor py, po throughout.		15690	395.0	400.0	5.0	.02		
		294.0 - 296.0: Mafic flow		15691	400.0	405.0	5.0	.10		
				15692	405.0	410.0	5.0	.01		
334.0	360.0	INTERMEDIATE - MAFIC TUFF (2c, 1c)		15693	410.0	415.0	5.0	.01		
		Fine grained, medium-grey-green, well bedded at 50° - 60°; interbedded		15694	415.0	420.0	5.0	T		
		intermediate tuff with occ. section mafic tuff and narrow flows (2-4)		15695	420.0	425.0	5.0	T		
		341.0 - 360.0: py increases to 3-4% in blebs along bedding		15696	425.0	430.0	5.0	.01		
		and occ. quartz vein.		15697	430.0	435.0	5.0	T		
				15698	435.0	440.0	5.0	.02		
360.0	402.0	MAFIC - INT. FLOW (1a, 2a)		15699	440.0	445.0	5.0	.01		
		Medium - green-grey, massive with occ. 1' sections, tuffaceous,		15700	445.0	450.0	5.0	.01		
		highly biotitic, 5-10% quartz-carbonate material in veins and stringers		15701	450.0	455.0	5.0	.01		
		throughout. 3% py, minor po in blebs throughout.	3% py	15702	455.0	460.0	5.0	.01		
				15703	460.0	465.0	5.0	T		
402.0	419.5	MAFIC TUFF		15704	465.0	470.0	5.0	.02		
		Medium green-brown, well bedded at 50° - 60°; 5% quartz-carbonate		15705	470.0	475.0	5.0	T		
		material. 2% py, po in blebs throughout.	2% py, po	15706	475.0	480.0	5.0	T		
				15707	480.0	485.0	5.0	T		
419.5	434.0	FELSIC TUFF		15708	485.0	490.0	5.0	T		
		Same as 287.0 - 334.0		15709	490.0	495.0	5.0	.14		
				15710	495.0	500.0	5.0	.03		
434.0	670.0	MAFIC FLOW		15711	500.0	505.0	5.0	T		
		Fine grained, medium green, very minor quartz carbonate, rare quartz		15712	505.0	510.0	5.0	.03		
		vein, 3% py, po in blebs $\frac{1}{2}$" throughout to 470.0, then <1%.		15713	510.0	515.0	5.0	.07		
		488.0 - 499.0: Int. flow		15714	515.0	520.0	5.0	T		
		Medium grey-brown, massive, 3-5% py, po		15715	520.0	525.0	5.0	T		
		traces cpy in blebs throughout.	3-5% py, po, tr cpy	15716	525.0	530.0	5.0	.04		
		503.5 - 514.0: Int. Flow		15717	530.0	535.0	5.0	T		
		As above, 3-5% py, po, occ. blebs cpy	3-5% py, po, tr cpy	15718	535.0	540.0	5.0	T		
		553.0 - 585.7: Int. Flow		15719	540.0	545.0	5.0	T		
		As above, mod. biotitic throughout; upper 5'		15720	545.0	550.0	5.0	.01		
		has 2-3% py, po, tr cpy, thendecreases		15721	550.0	555.0	5.0	.02		
		to tr py, po.		15722	555.0	560.0	5.0	T		
		635.5 - 640.0: Int. tuff flow.		15723	635.0	640.0	5.0	.01		
		Medium grey, upper part appears tuffaceous		15724	640.0	645.0	5.0	.210		
		bedded at 50°, lower part like flow.		15725	645.0	650.0	5.0	.005		
		3-5% py, po, minor cpy in blebs.	3-5% po, py, minor cpy	15726	650.0	655.0	5.0	T		
		642.0 - 647.0: INT. TUFF.		15727	655.0	660.0	5.0	T		
		3-5% py, po, minor cpy		15728	660.0	665.0	5.0	T		
		649.0 - 658.0: Int. Flow, minor tuff. 2-3% py, po, tr cpy		15729	665.0	670.0	5.0	T		
		658.0-670.0: 2-3% po, py in blebs, occ. short 1-2' section		15730	670.0	675.0	5.0	T		
		appears intermediate.		15731	675.0	680.0	5.0	T		
				15732	680.0	685.0	5.0	.025		
				15733	685.0	690.0	5.0	.01		
				15734	690.0	695.0	5.0	.01		
				15735	695.0	700.0	5.0	.005		
				15736	700.0	705.0	5.0	T		
				15737	705.0	710.0	5.0	.04		
				15738	710.0	715.0	5.0	T		
				15739	715.0	720.0	5.0	.005		
				15740	720.0	725.0	5.0	T		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.		
				15741	725.0	730.0	5.0	T				
670.0	752.5	INTERMEDIATE FLOW. (2a)		15742	730.0	735.0	5.0	.04				
		Medium brown-green, occ. tuffaceous section, high biotite-phlogopite		15743	735.0	740.0	5.0	T				
		content. Quartz-carbonate occurs as "bombs" and veins from		15744	740.0	745.0	5.0	.07				
		670 - 680', then occurs mainly as veins and stringers from 680' on,		15745	745.0	750.0	5.0	T				
		3-4%. Quartz vein increases to 2-3/5' after 680.0, with po cpy assoc.	2-3% po. cpy. py	15746	750.0	755.0	5.0	T				
		also with good phlog. -biotite selvages.		15747	755.0	760.0	5.0	T				
		697.0 - 712.0: Mafic flow, minor quartz vein.		15748	760.0	765.0	5.0	.025				
		712.0 - 752.5: Quartz vein increases in size to 2"-4",		15749	765.0	770.0	5.0	.105				
		about 1 or 2 every 5', with po, cpy.	1-3% po, cpy.	15750	770.0	775.0	5.0	.005				
				15751	775.0	780.0	5.0	.005				
752.5	756.5	FELSIC TUFF		15752	780.0	785.0	5.0	.045				
		Medium grey-brown, well bedded at 50°-60°.		15753	785.0	790.0	5.0	T				
				15754	790.0	795.0	5.0	T				
756.5	1254.0	MAFIC FLOWS		15755	795.0	800.0	5.0	.005				
		Dark green-brown; mod. biotitic, decreasing from approx. 800'.		15756	800.0	805.0	5.0	T				
		2-3 quartz veins /5' usually 2-4" wide, with po, py cpy and good		15757	805.0	810.0	5.0	.025				
		biot.-phlog. selvages.		15758	810.0	815.0	5.0	T				
		800.0 - 1135.0: Quartz vein decreases in intensity, size,		15759	815.0	820.0	5.0	.005				
		sulfide content, and biotization.		15760	820.0	825.0	5.0	.005				
		1-2 quartz veins /5', <1".		15761	825.0	830.0	5.0	.01				
		825.0 - 835.0: More intense quartz vein, 6 or 7, 2-4"		15762	830.0	831.0	1.0	T				
		with one at 832.0 with 5 specks of V.G.	5 specks V. G.	15763	831.0	833.0	2.0	.43				V. G.
		841.7: 1" quartz vein, 3 flakes or blebs of V.G.	3 flakes V.G.	15764	833.0	835.0	2.0	.005				
		859. - 863.0: Mafic Dike		15765	835.0	840.0	5.0	T	.367			
		Dark grey-black, highly biotitic throughout		15766	840.0	841.0	1.0	T	16'			
		1-2% diss. py		15767	841.0	842.0	1.0	.054				V. G.
		895.5 - 896.5: 1' quartz vein, minor po, cpy		15768	842.0	847.0	5.0	.99				
		914.5: 1" quartz vein, po, cpy, 3 specks V.G.	3 specks of V.G.	15769	847.0	852.0	5.0	T				
		940.0 - 955.0: Quartz vein picks upto 2-3 every 5', $\frac{1}{8}$"-2"		15770	852.0	857.0	5.0	T				
		with po, cpy.		15771	857.0	862.0	5.0	T				
		1135.0 - 1200.0: Quartz vein increases to 2-3/5', but with		15772	862.0	867.0	5.0	T				
		mostly po, only minor cpy. Cpy increases		15773	867.0	872.0	5.0	T				
		slightly from 1155' on. 1181' - $\frac{1}{2}$" quartz		15774	872.0	877.0	5.0	T				
		vein, po, cpy, 2 specks of V.G.	2 specks of V.G.	15775	877.0	882.0	5.0	T				
		1200.0 - 1254.0: Quartz vein decreases to 1 or 2 every 5', but		15776	882.0	887.0	5.0	T				
		po, cpy occurs throughout as blebs and		15777	887.0	892.0	5.0	T				
		stks. 1-2%.	2-1% po, cpy	15778	892.0	897.0	5.0	.01				
		1225.0 - 1254.0: Po, cpy increases 2-3% in blebs and stringers		15779	897.0	902.0	5.0	T				
		rock becomes mod. biotitic throughout.		15780	902.0	907.0	5.0	T				
				15781	907.0	912.0	5.0	.01				
1254.0	1271.0	INTERMEDIATE TUFF (2c)		15782	912.0	914.0	2.0	T				
		Medium-grey-green, mod. well bedded at 60°, mixed felsic, inter.		15783	914.0	915.0	1.0	.973				V. G.
		and mafic fragments, with mafic to chloritic fragments and lenses mixed		15784	915.0	920.0	5.0	T				
		with biotitic intermediate and felsic material - much of it appears		15785	920.0	925.0	5.0	T				
		fragmental, or flow breccia with individual beds 6" wide, each one		15786	925.0	930.0	5.0	.015				
		consisting of 2"-3" fragments. - No quartz veining.	5% py, po, occ, upto	15787	930.0	935.0	5.0	T				
		5% py, po, occ, upto 1% cpy in blebs, stringers, and outlining fragments.	1% cpy	15788	935.0	940.0	5.0	T				
		1259.0 - 1263.5: Cherty tuff, creamy-grey-green, massive,		15789	940.0	945.0	5.0	T				
		no sulfides.		15790	945.0	950.0	5.0	T				
				15791	950.0	955.0	5.0	.01				
				15792	955.0	960.0	5.0	T				
				15793	960.0	965.0	5.0	T				
				15794	965.0	970.0	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.		
				15795	970.0	975.0	5.0	T				
1271.0	1276.0	CHERTY TUFF (3)		15796	975.0	980.0	5.0	.02				
		Light creamy grey-purple, fairly well bedded at 60°; Upper 3' has no		15797	980.0	985.0	5.0	T				
		sulfide, lower 2' consists of large (½"-2") quartz lapilli, or bombs		15798	985.0	990.0	5.0	T				
		in mostly sulfide matrix. 20-30% po, 1-2% cpy.	20-30% po, 1-2% cpy	15799	990.0	995.0	5.0	T				
				15800	995.0	1000.0	5.0	.025				
1276.0	1283.0	FELSIC TUFF ? (FLOW?) (4c, a)		18401	1000.0	1005.0	5.0	.01				
		Medium grey-purple, massive, upper 2' has 2-3% diss. py.		18402	1005.0	1010.0	5.0	T				
				18403	1010.0	1015.0	5.0	T				
1283.0	1297.0	MAFIC TUFF, FELSIC TUFF, MAFIC FLOW		18404	1015.0	1020.0	5.0	T				
		Upper 9' are interbedded mafic tuff and felsic tuff in 2' beds, lower 5'		18405	1020.0	1025.0	5.0	T				
		is mafic flow. Minor py, tr cpy.	Minor py, tr cpy	18406	1025.0	1030.0	5.0	T				
				18407	1030.0	1035.0	5.0	T				
1297.0	1306.0	CHLORITE ALTERATION (5a)		18408	1035.0	1040.0	5.0	T				
		Medium-dark green, highly chloritic, foliated at 60°		18409	1040.0	1045.0	5.0	.01				
		1301.0 - 1303.0: Talc - carb.		18410	1045.0	1050.0	5.0	T				
		1303.0 - 1304.0: Cherty Tuff.		18411	1050.0	1055.0	5.0	T				
		1304.0 - 1306.0: Talc-carbonate		18412	1055.0	1060.0	5.0	T				
		LOwer 1' is gouge.		18413	1060.0	1065.0	5.0	T				
				18414	1065.0	1070.0	5.0	T				
1306.0	1311.0	CHERTY TUFF (3)		18415	1070.0	1075.0	5.0	.005				
		Light creamy green, no sulfide		18416	1075.0	1080.0	5.0	T				
				18417	1080.0	1085.0	5.0	T				
1311.0	1353.0	FELSIC TUFF (4c)		18418	1085.0	1090.0	5.0	.01				
		Variably coloured, mostly light-medium grey quite massive but occ.		18419	1090.0	1095.0	5.0	.14				
		bedding at 60°, minor diss. py.		18420	1095.0	1100.0	5.0	T				
		1331.0 - 1333.5: Int. tuff. Biotitic, bedded at 60° 1%py, min.		18421	1100.0	1105.0	5.0	.01				
		minor cpy.	1% py, minor cpy	18422	1105.0	1110.0	5.0	.02				
		1333.5 - 1335.0: Ultramafic?, moderately altered to talc-		18423	1110.0	1115.0	5.0	.045				
		carbonate.		18424	1115.0	1120.0	5.0	T				
				18425	1120.0	1125.0	5.0	T				
1353.0	1465.0	TALC - CARBONATE (6a)		18426	1125.0	1130.0	5.0	T				
		Dark-grey-green, highly altered to talc-carb, upper 5' are mod.chloritic		18427	1130.0	1135.0	5.0	T				
		Generally bedded, some sections being very well bedded at 45°, occ.		18428	1135.0	1140.0	5.0	.005				
		definite fragments, of 1"-2", many fragments being felsic containing		18429	1140.0	1145.0	5.0	T				
		2-3% po, 1-2% po throughout, occ. short section 3-4%, traces cpy.	1-2% po, tr cpy	18430	1145.0	1150.0	5.0	.040				
		Rock becomes more massive with 6"-1' of interbedded tuff units every		18431	1150.0	1155.0	5.0	.010				
		2'-5' from 1400.		18432	1155.0	1160.0	5.0	.015				
		1370.0 - 1372.0: 4 quartz veins, 1" - 3" minor po, cpy.		18433	1160.0	1165.0	5.0	.045				
				18434	1165.0	1170.0	5.0	.020				
1465.0	1489.0	MAFIC TUFF		18435	1170.0	1175.0	5.0	T				
		Dark green, very well bedded at 45°, mod. chloritic and biotitic.		18436	1175.0	1180.0	5.0	T				
		Minor py. Contains two narrow, well-bedded cherty tuff units from		18437	1180.0	1182.0	2.0	.13				V.G.
		1468.4 - 1468.8 and 1478.5 - 1479.5.		18438	1182.0	1187.0	5.0	.015				
				18439	1187.0	1192.0	5.0	.005				
				18440	1192.0	1197.0	5.0	T				
	1489.0	END OF HOLE		18441	1197.0	1202.0	5.0	T				
				18442	1202.0	1207.0	5.0	T				
				18443	1207.0	1212.0	5.0	T				
				18444	1212.0	1217.0	5.0	T				
				18445	1217.0	1222.0	5.0	T				
				18446	1222.0	1227.0	5.0	T				
				18447	1227.0	1232.0	5.0	.005				
				18448	1232.0	1237.0	5.0	.005				

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

PROPERTY DETOUR LAKES HOLE NO. DLO-38-75

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
				18449	1237.0	1242.0	5.0	T		
				18450	1242.0	1247.0	5.0	T		
				18451	1247.0	1252.0	5.0	.01		
				18452	1252.0	1257.0	5.0	T		
				18453	1257.0	1262.0	5.0	T		
				18454	1262.0	1267.0	5.0	.005		
				18455	1267.0	1272.0	5.0	.005		
				18456	1272.0	1277.0	5.0	.122		
				18457	1277.0	1282.0	5.0	T		
				18458	1282.0	1287.0	5.0	T		
				18459	1287.0	1292.0	5.0	.01		
				18460	1292.0	1297.0	5.0	.01		
				18461	1297.0	1302.0	5.0	.01		
				18462	1302.0	1307.0	5.0	T		
				18463	1331.0	1336.0	5.0	.005		
				18464	1353.0	1358.0	5.0	T		
				18465	1358.0	1363.0	5.0	T		
				18466	1363.0	1368.0	5.0	T		
				18467	1368.0	1373.0	5.0	T		
				18468	1373.0	1378.0	5.0	T		
				18469	1378.0	1383.0	5.0	T		
				18470	1383.0	1388.0	5.0	T		
				18471	1388.0	1393.0	5.0	T		
				18472	1393.0	1398.0	5.0	T		
				18473	1398.0	1403.0	5.0	T		
				18474	1403.0	1408.0	5.0	T		
				18475	1408.0	1413.0	5.0	T		
				18476	1413.0	1418.0	5.0	T		
				18477	1418.0	1423.0	5.0	.005		
				18478	1423.0	1428.0	5.0	.010		
				18479	1428.0	1433.0	5.0	.035		
				18480	1433.0	1438.0	5.0	T		
				18481	1438.0	1443.0	5.0	T		
				18482	1443.0	1448.0	5.0	T		
				18483	1448.0	1453.0	5.0	T		
				18484	1453.0	1458.0	5.0	T		
				18485	1458.0	1463.0	5.0	T		
				18486	1463.0	1468.0	5.0	.010		

TROPARI	DIP.	AZ.
300'	56°	182½°
700'	53°	183°
1100'	51°	182½°
1397'	51°	181°

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	203 + 50 NORTH	STARTED	September 12th, 1975	200'	55½°	800'	50°		
HOLE NO.	DLO-38-82	DEPARTURE	178 + 00 EAST	FINISHED	September 20th, 1975	400'	54½°	997'	50°		
BEARING	180°	ELEVATION		LENGTH	1397 FEET	600'	51°	1200'	48½°		
DIP-COLLAR	- 60°	SECTION		LOGGED BY	A. Jackson, P. Brown						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	20.0	CASING	
20.0	25.0	MAFIC FLOW	
		Coarse grained, dark green, highly amphibolitic, slight foliation at 45°.	
		Minor py, diss.	
25.0	420.0	MAFIC FLOW (la)	
		Fine grained, medium green, slight foliation and flow contacts at 30-40°;	
		25.0 - 35.0: Tr po	
		35.0 - 65.0: Minor quartz-carb. stringer, 1-2% po, tr cpy in blebs throughout.	1-2% po, tr cpy
		65.0 - 310.0: Mod. high quartz-carb veining with 1-2% po, tr cpy in the veins and in blebs. Slightly mod. biotitic. Occ. quartz vein, with po, minor cpy	1-2% po, tr cpy
		1 quartz vein /5'.	
		84.0 - 6" quartz vein, with stringer of cpy, po	
		88.5: 2 quartz veins, ½" with stringer cpy, po	
		112.0 - 120.0: Massive flow, very minor quartz-carb.	
		120.0 - 210.0: Becomes very highly cut by quartz-carb. veins, from 10-15%; veins are mainly carb. slight increase in po, cpy.	
		147.0: 1/8" quartz-carb. with po, cpy, 1 speck V.G.	1 speck V.G.
		210.0 - 243.0: Sulfide decreases to 1% po, tr cpy.	
		243.0 - 247.5: Int. felsic tuff? Med. grey, poorly bedded at 30°, occ. garnets. 3% po, ½% cpy in stringers and blebs.	3% po, ½% cpy.
		310.0 - 420.0: Quartz-carb. decreases to 3-5%, 1 quartz vein /5'. 1/8" - ¼", with po, tr cpy.	
		2-3% po, py, tr cpy in blebs.	2-3% po, py, tr cpy.
420.0	605.0	MAFIC INTERMEDIATE FLOW.	
		Medium grey-green, fine grained, mixed zone of intermediate flow and mafic flow - not breccia but mixing of flows.	
		2-3% py, minor po, tr cpy in blebs and stringers.	2-3% , py, tr cpy
		485.0 - 523.0: Medium grey inter. flow, 2-3% py, in blebs throughout.	
		485.0 - 490.0: Highly brecciated with fragments surrounded by inter. flow and carbonate.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.		
18638	65.0	70.0	5.0	T				
18639	70.0	75.0	5.0	.06	.07 / 15'			
18640	75.0	80.0	5.0	.04				
18641	80.0	85.0	5.0	.11				
18642	85.0	90.0	5.0	.035				
18643	90.0	95.0	5.0	.010				
18644	95.0	100.0	5.0	T				
18645	100.0	105.0	5.0	.040				
18646	105.0	110.0	5.0	.015				
18647	110.0	115.0	5.0	T				
18648	115.0	120.0	5.0	T				
18649	120.0	125.0	5.0	.005				
18650	125.0	130.0	5.0	.040				
18651	130.0	135.0	5.0	T				
18652	135.0	140.0	5.0	T				
18653	140.0	145.0	5.0	T				
18654	145.0	150.0	5.0	.027				V.G.
18655	150.0	155.0	5.0	T				
18656	155.0	160.0	5.0	T				
18657	160.0	165.0	5.0	.040				
18658	165.0	170.0	5.0	.010				
18659	170.0	175.0	5.0	T				
18660	175.0	180.0	5.0	.295				
18661	180.0	185.0	5.0	.015				
18662	185.0	190.0	5.0	T				
18663	190.0	195.0	5.0	T				
18664	195.0	200.0	5.0	.005				
18665	200.0	205.0	5.0	.020				
18666	205.0	210.0	5.0	.015				
18667	210.0	215.0	5.0	.025				
18668	215.0	220.0	5.0	T				
18669	220.0	225.0	5.0	T				
18670	225.0	230.0	5.0	T				
18671	230.0	235.0	5.0	.025				
18672	235.0	240.0	5.0	.15				
18673	240.0	243.0	3.0	T				
18674	243.0	248.0	5.0	.10	.158			
18675	248.0	253.0	5.0	.02	28'			
18676	253.0	258.0	5.0	.005				
18677	258.0	263.0	5.0	.61				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
				18678	320.0	325.0	5.0	.030		
420.0	605.0	CONTD.		18679	325.0	330.0	5.0	.015		
		523.0 - 605.0: Mainly inter, but with some minor mafic sections - mixing.		18680	330.0	335.0	5.0	.005		
				18681	335.0	340.0	5.0	T		
		548.0 - 558.0: Felsic tuff, possible arkosic.		18682	340.0	345.0	5.0	T		
		577.0 - 580.0: Felsic tuff		18683	345.0	350.0	5.0	.010		
		580.0 - 605.0: py decreases to 1%		18684	350.0	355.0	5.0	T		
				18685	355.0	360.0	5.0	.010		
605.0	1289.5	MAFIC FLOW		18686	360.0	365.0	5.0	T		
		Medium - coarse grained, dark green, massive flows; rare quartz vein, barren.		18687	365.0	370.0	5.0	T		
				18688	370.0	375.0	5.0	T		
		676.0 - 680.0: Flow contains 2-3% feldspar phenocrysts 1/8"		18689	375.0	380.0	5.0	T		
		683.0 - 701.0: Int. tuff, or flow?		18690	380.0	385.0	5.0	T		
		Medium brown, quite massive but with slight foliation at 45°. Mod. biotitic, mod. quartz-carbonate in blebs and stringers.		18691	385.0	390.0	5.0	T		
				18692	390.0	395.0	5.0	.005		
				18693	395.0	400.0	5.0	.040		
		3-5% py, tr po, cpy in blebs and along quartz carb. stringers.		18694	400.0	405.0	5.0	.015		
				18695	405.0	410.0	5.0	T		
		706.0 - 710.0: Int. tuff		18696	410.0	415.0	5.0	T		
		Well bedded at 45° - 50°. 2% py in blebs and stringers.	2% py	18697	415.0	420.0	5.0	T		
				18698	420.0	425.0	5.0	T		
		711.0 - 724.5: Mafic tuff.		18699	425.0	430.0	5.0	T		
		Medium green, mod. well bedded at 45-50°		18700	430.0	435.0	5.0	T		
		6-8 quartz veins, $\frac{1}{2}$" - 2", with minor py, tr cpy.		18701	435.0	440.0	5.0	T		
				18702	440.0	445.0	5.0	T		
		720.0: 2" quartz vein, py, 3 specks of V.G.	3 specks V.G.	18703	445.0	450.0	5.0	T		
		734.0 - 744.0: Mafic dike		18704	450.0	455.0	5.0	T		
		Mod. biotitic, several large feldspar phenocrysts throughout; lower contact has 2'-3' alteration zone. Minor py, tr cpy.		18705	455.0	460.0	5.0	T		
				18706	460.0	465.0	5.0	T		
				18707	465.0	470.0	5.0	T		
		744.0 - 845.0: Quartz vein increases to 2-3/5', usually $\frac{1}{2}$"-3" many are barren but some have minor py.		18708	470.0	475.0	5.0	T		
				18709	475.0	480.0	5.0	T		
				18710	480.0	485.0	5.0	T		
		772.5 - 777.0: Mafic dike, biotitic, minor diss. py		18711	485.0	490.0	5.0	.01		
		793.0 - 796.5: Felsic tuff, arkosic?		18712	490.0	495.0	5.0	.01		
		802.0 - 807.0: 8 quartz veins $\frac{1}{2}$"-2" most are barren, but one or two with py, po.		18713	495.0	500.0	5.0	.01		
				18714	500.0	505.0	5.0	T		
		807.0 - 826.0: No quartz veins, massive.		18715	505.0	510.0	5.0	T		
		826.0 - 827.0: 2 quartz veins, minor po.		18716	510.0	515.0	5.0	.03		
		831.0-845.0: 10 quartz veins, most barren but occ. with py, po.		18717	515.0	520.0	5.0	.01		
				18718	520.0	525.0	5.0	.01		
		832.5 - 833.5: 1" quartz vein, minor po		18719	525.0	530.0	5.0	.01		
		835.0 - 835.5: 6" quartz vein, minor po		18720	530.0	535.0	5.0	.02		
		836.0: 1/8" quartz vein, po, cpy.		18721	535.0	540.0	5.0	.01		
		845.0 - 965.0: quartz vein decreases to 1-2/5', most are barren, or with minor py.		18722	540.0	545.0	5.0	.03		
				18723	545.0	550.0	5.0	.02		
		855.2: $\frac{1}{2}$" quartz vein, 6 or 7 specks V.G., 3 or 4 specks Ag.	6 or 7 specks V.G. 3 or 4 specks Ag.	18724	550.0	555.0	5.0	.01		
				18725	555.0	560.0	5.0	.01		
		855.5 - 856.0: 6" quartz vein, barren.		18726	560.0	565.0	5.0	T		
		907.5 - 912.0: Int. flow. Medium grey, slightly mod. biotitic, 5% po, minor cpy, py, tr sphal.		18727	565.0	570.0	5.0	.01		
			5% po, minor cpy, py, sphal.	18728	570.0	575.0	5.0	.02		
				18729	575.0	580.0	5.0	.04		
				18730	580.0	585.0	5.0	.02		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.	Ag.	Cu.	
				18731	585.0	590.0	5.0	.16	.255		
605.0	1289.5	CONT'D.		18732	590.0	595.0	5.0	.35	10'		
		845.0 - 965.0: Contd.		18733	665.0	670.0	5.0	T			
		915.0 - 965.0: Quartz-carb. increases to 4-5/5', occ. with minor po, py.		18734	670.0	675.0	5.0	.330			
				18735	675.0	680.0	5.0	T			
		965.0 - 1090.0: Quartz vein decrease to 1/10', quartz-carb. decreases to 1"-2"/5'.		18736	680.0	685.0	5.0	T			
				18737	685.0	690.0	5.0	.010			
		1007.0 - 1012.0: 4 quartz veins, minor po.		18738	690.0	695.0	5.0	.045			
		1090.0: 1-2 quartz veins/5', also occ. quartz-carb. vein with py, tr cpy. 1% py, po, tr cpy in quartz-carb. quar z, and along fractures.		18739	695.0	700.0	5.0	.020			
				18740	700.0	705.0	5.0	.180			
				18741	705.0	710.0	5.0	T			
		1107.0 - 1107.5: 6" quartz vein, barren.		18742	710.0	715.0	5.0	.005			
		1160.0: Mafic flow continued. Fine grained, Dark green and usually massive. Quartz veins are scarce usually about 1" to 2"/5', and many of them are barren.		18743	715.0	720.5	5.5	.113			V.G.
				18744	720.5	725.0	4.5	.010			
				18745	725.0	730.0	5.0	T			
				18746	730.0	735.0	5.0	.015			
		1170.0: 3" quartz vein, tr sulfides.		18747	735.0	740.0	5.0	T			
		1185.0: 3" quartz vein, 2-3% sulfides along vein contact with mafic flow, tr cpy.		18748	740.0	745.0	5.0	.005			
				18749	745.0	750.0	5.0	.005			
		1160.0 - 1203.0: The fine grained massive mafic flow has minor carbonate blebs in the form of veinlets and stringers.		18750	750.0	755.0	5.0	T			
				18751	755.0	760.0	5.0	.025			
				18752	760.0	765.0	5.0	.015			
		Foliation at 1205.0 is 50° to C.A.		18753	765.0	770.0	5.0	T			
		Quartz veins intersect the C.A. at highly irregular angles rouging from near round to almost parallel.		18754	802.0	807.0	5.0	T			
				18755	825.0	830.0	5.0	T			
				18756	830.0	835.0	5.0	.010			
		1203.0 - 1220.0: Mafic flow is slightly coarser grained with an increase in biotite and carbonate content. Afew 1' sections look tuffy.		18757	835.0	840.0	5.0	.020			
				18758	840.0	845.0	5.0				
				18759	845.0	850.0	5.0	T			
		1220.0 - 1242.5: Continuation of mafic flow - quartz carb. veins 1"-2"/5' interval.		18760	850.0	855.0	5.0	.01			V.G.
				18761	855.0	860.0	5.0	.250			
		1242.5 - 1243.5: 1' section of medium grained mafic tuff. Top contact 45° to C.A. bottom contact not well defined.		18762	860.0	865.0	5.0	T			
				18763	865.0	870.0	5.0	T			
				18764	870.0	875.0	5.0	T			
		1243.5 - 1255.0: Continuation of massive fine grained mafic flow. Quartz veining about 1"-1½"/5'. Most of these veins are barren.		18765	875.0	880.0	5.0	T			
				18766	880.0	885.0	5.0	T			
				18767	885.0	890.0	5.0	T			
		1255.0 - 1257.0: Discontinuous quartz vein with minor py that runs down the C.A. The rest of the core in this section is fine grained intermediate tuff and this inter. tuff continues down to 1260.0.		18768	890.0	895.0	5.0	T			
				18769	895.0	900.0	5.0	T			
				18770	900.0	905.0	5.0	.020			
				18771	905.0	910.0	5.0	.025			
		1260.0 - 1289.5: Continuation of mafic flow. Quartz veins ½"-1"/5' and are usually barren.		18772	910.0	915.0	5.0	.020			
				18773	925.0	930.0	5.0	T			
				18774	930.0	935.0	5.0	T			
1289.5	1294.0	LIGHT GREENISH GREY CHERT AND CHERTY TUFF (3, 3c)		18775	1006.5	1012.0	5.5	.26			
		The upper and lower 1" being purple in colour due to the presence of Fe.		18776	1012.0	1017.0	5.0	T			
		Fragments in the cherty tuff are usually <1mm.		18777	1090.0	1095.0	5.0	.010			
		Upper contact about 60° to C.A.		18778	1095.0	1100.0	5.0	T			
		Lower contact about 70° to C.A.		18779	1100.0	1105.0	5.0	.005			
		The cherty and cherty tuff contains No visible mineralization, however the mafic flow below it for two feet contains minor py.		18780	1105.0	1110.0	5.0	.020			
				18781	1110.0	1115.0	5.0	T			
				18782	1115.0	1120.0	5.0	T			
				18783	1120.0	1125.0	5.0	T			
				18784	1125.0	1130.0	5.0	T			

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	
1294.0	1340.3	DARK GREEN HIGHLY CHLORITIC MAFIC FLOW (1a)		18785	1130.0	1135.0	5.0	T			
		Within this section there are the occasional short felsic tuff to cherty		18786	1135.0	1140.0	5.0	T			
		tuff section. The sections occur at -		18787	1140.0	1145.0	5.0	T			
		1317.0 - 1318.0: Felsic to Cherty tuff		18788	1145.0	1150.0	5.0	.005			
		1324.0 - 1325.6: " " " "		18789	1150.0	1155.0	5.0	T			
		1333.0 - 1338.0: " " " "		18790	1155.0	1160.0	5.0	T			
		Abundant small quartz-carb. stringers throughout.		18791	1160.0	1165.0	5.0	T			
		Mineralization is scattered throughout but has a greater concentration		18792	1165.0	1170.0	5.0	T			
		in the felsic sections. About 3% po and py. combined over the		18793	1170.0	1175.0	5.0	T			
		46.3. Tr cpy. This is the main zone of mineralization.		18794	1175.0	1180.0	5.0	T			
		Foliation about 45° to C.A.		18795	1180.0	1185.0	5.0	.27			
		1294.0 - 1340.3:	3% po and py. tr cpy	18796	1185.0	1190.0	5.0	.010			
				18797	1190.0	1195.0	5.0	.010			
1340.0	1397.0	FINE GRAINED DARK GREEN TALC CARBONATE (6a)		18798	1195.0	1200.0	5.0	T			
		There are also several sections of very chloritic material as well as		18799	1200.0	1205.0	5.0	T			
		several felsic tuff to cherty tuff sections.		18800	1205.0	1210.0	5.0	T			
		1340.3 - 1352.0: Chlorite alteration		18801	1285.0	1290.0	5.0	T		.008	w/core
		1352.0:- 1362.0: Talc carbonate		18802	1290.0	1295.0	5.0	.01		.015	"
		1362.0 - 1364.5: Felsic to cherty tuff		18803	1295.0	1300.0	5.0	.105		.08	"
		1364.5 - 1389.0: Talc carbonate		18804	1300.0	1305.0	5.0	.005		.026	"
		1389.0 - 1397.0: Felsic to cherty tuff		18805	1305.0	1310.0	5.0	T		.07	"
		Foliation is about 60° to C.A.		18806	1310.0	1315.0	5.0	.05		.035	"
		No quartz veining and no visible mineralization.		18807	1315.0	1320.0	5.0	.020		.18	"
				18808	1320.0	1325.0	5.0	.025		.09	"
				18809	1325.0	1330.0	5.0	.010		.06	"
				18810	1330.0	1335.0	5.0	T			
	1397.0	END OF HOLE		18811	1335.0	1340.0	5.0	T			
				18812	1340.0	1345.0	5.0	T			
				18813	1345.0	1350.0	5.0	T			
				18814	1350.0	1355.0	5.0	.005			
				18815	1355.0	1360.0	5.0	.005			
				18816	1360.0	1365.0	5.0	.010			
				18817	1365.0	1370.0	5.0	T			
				18818	1370.0	1375.0	5.0	.005			
				18819	1375.0	1380.0	5.0	T			
				18820	1380.0	1385.0	5.0	T			
				18821	1385.0	1390.0	5.0	.005			
				18822	1390.0	1395.0	5.0	T			
				18823	1395.0	1397.0	2.0	.005			

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

PROPERTY	DETOUR LAKE	LATITUDE	198+ 00 NORTH	STARTED	June 9th, 1976	DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	38W - 17	DEPARTURE	L 146 EAST	FINISHED	June 11th, 1976	200'	45½°				
BEARING	180°	ELEVATION		LENGTH	475'	400'	39°				
DIP COLLAR	- 45° SOUTH	SECTION	L 146	LOGGED BY	D. Visagie						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
0	56.0	CASING						
56.0	59.1	MAFIC TUFFS (1c) A grey green, unit with brownish tinge due to abundant biotite, unit is coarse grained, poorly mineralized and generally massive. Where fractured, the unit is chloritized. The unit is well banded at 20° to C.A. At 59.0 - have 1½" q.v. at 40° - barren.						
59.1	62.3	INTERMEDIATE FLOW (2a) A fine grained, greyish coloured unit with brownish tinges due to biotite. Unit is massive, rarely fractured but where fractured, unit is weakly chloritized. The unit is poorly mineralized with tr py occurring along a fracture.	tr py					
62.3	64.3	MAFIC TUFFS (1c) A well banded, coarse grained, sequence generally dark green coloured section contains mod. carb. Fractures are well chloritized. Unit in addition contains mod. biotite. Unit is banded at 20° to C.A. Unitis non-mineralized.						
64.3	99.5	MAFIC FLOWS A coarse grained, green coloured unit. Amphibole is well developed and is well chloritized. Unit is generally massive and although minor q.v. are located. 72.5: ½" q.v. at 80° to C.A., barren. 75.7: ½" q.v. at 40° to C.A., barren 77.3: ½" irregular, 3% po 77.9: ½" q.v. at 20°, 3% py 81.2: ½" q.v. at 70°, 5% cpy, tr py 92.7: ½" q.v. at 30°, tr py 95.3: 1" q.v. at 30°, tr py and po 96.3: 2 small ½ q.v. separated by ½". 1 of mafic flows units at 40° to C.A. 1% cpy, 4% py.	tr po, tr py, tr cpy					
99.5	102.5	MAFIC TUFF (1c) a well banded section relatively homogeneous. Unit is coarse grained with mod. carb. Unit is banded at 30° to C.A. Unit is non-mineralized.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
102.5	110.3	MAFIC FLOWS (1a) Coarse grained, green weakly biotized and chloritized. Unit has well developed amphiboles and pyroxenes, bottom contact is at 30°.	tr py, tr cpy					
110.3	118.6	FELSIC TUFF (4c) A quartz rich unit, grey coloured and fine py grained. Unit is massive, tr py is found diss. in the unit and along fractures.	tr py					
118.6	138.7	MAFIC FLOW (1a) Generally similar to 102.5 - 110.3.						
138.7	141.0	INTERMEDIATE FLOW (2a) Top contact at 60°, bottom at 65°. Unit is fine grained, grey massive. Non-mineralized.						
141.0	153.5	MAFIC TUFFS (1a) A coarse grained, greenish-grey unit. Sections are heavily biotized (upto 15%). Sequence is cut by some q.v. 148.0: 1" q.v. at 40°, tr py diss. 149.4: ¼" at 40°, 40% py, tr cpy, 2 specks V.G. 145.5: Small q.v. Irregular 5% po, tr cpy. 149.9 - 151.3: Q.V. at 70°, tr py. 151.8: q.v. at 40°, tr cpy, and po. The unis banding is at 60° to C.A. Bottom contact at 30°.	tr py, tr po, tr cpy V.G. (2specks)					
153.5	155.0	INTERMEDIATE FLOW (2a) A fine grained generally non-mineralized section. It is silica rich grey homogeneous massive contact with the following unit is separated by a Q.V. 155.0: 1" q.v. 5% py, at 30° to C.A.	tr py					
155.0	156.7	MAFIC TUFF (1c) A well mineralized section. Unit is coarse grained, greenish brown. Biotite rich. Most of the section is out by small q.v. which are well mineralized with py. Unit is well chloritized in places. Unit contains 2% py, tr po, tr cpy.	2% py, tr po, tr cpy					
156.7	160.1	LAMPOPHYRE DYKE (1) Unit is coarse grained, biotite rich, grey black in colour. Apparently quartz and biotite rich. Unit is massive, non-mineralized. Bottom contact at 30° to C.A.						

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
160.1	277.0	SERIES OF INTERBEDDED MAFIC FLOWS AND MAFIC TUFFS (1a-1c) A medium grained, finely bedded and flowed unit generally massive. Poorly mineralizid. Unit is well chloritized, green coloured. Unit features interbedding between tuffs and flows. Most of the section has mod. carb. content, veinings are prevalent in the first 20' then not common. Biotite content is low. Fractures are well chloritized and in some sections, 162.6: $1\frac{1}{2}$" q.v. at 40°, tr py 166.4: $\frac{1}{2}$" q.v. irregular, 40% (?) py, tr cpy 169.1: $\frac{1}{2}$" q.v. at 50°, tr py. 169.3: $\frac{1}{2}$" at 50°, tr py, tr po. 170.0: $\frac{1}{2}$" q.v. at 60°, tr po. 173.0: 1" q.v. at 80°, tr po. 174.1: 2" q.v. at 40°, tr cpy, 5% py 176.3: $\frac{1}{4}$" q.v. at 40°, tr py. 177.3: $\frac{1}{4}$" q.v. at 40°, tr py. 206.3: 3" q.v. at 40°, tr cpy, tr po. 222.5: $\frac{1}{2}$" q.v. at 80°, tr po.	tr cpy, tr po, tr py.						
277.0	278.8	CHERT (3) A reddish, white coloured unit that is fine grained, silica rich, barren. Massive top contact at 50° bottom at 20°.						
278.8	301.2	MAFIC FLOWS (1a) A medium to coarse grained unit that has little carb. Biotite in section is high. Mineralization is generally poor although there are small diss. of po in the section. Po is also found in stringers as is py. Fractures are generally chloritized and in some places are mineralized with fractures.	tr - 1% po					
301.2	301.5	CHERT (3) Top contact at 40° bottom at 70°. The unit is greyish white, brownish coloured. Banding is at 20°. Unit is fine grained quartz rich, fractures are chloritized. The unit is generally massive.						
301.5	312.2	MAFIC FLOWS (1a) Same as 278.8 - 301.2 Py found diss. along fractures at 309.0 - 311.2 we have a zone which contains clay gouge and quartz. 311.7: 2" q.v. at 35°, 1% py. This q.v. is seemingly the start where the unit grades from a mafic flow to an intermediate tuff. Also notice that often this q.v. mineralization increases.	tr py					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
312.2	331.5	INTERMEDIATE TUFF (2c) A fine grained, brownish grey unit containing 2% py. Unit has tr py well biotized at 316' have ½" q.v. at 40° to C.A. From 318.6 - 319.4 have a cherty unit at 319.1 have 1" q.v. at 40° - 5% py. 321.9 - have 2" q.v. at 60° tr cpy fractured and chloritized. 325.0: 8" q.v. irregular barren. From 325.7 - 329.5 - the rock is well fractured. At 331.5 - 1" q.v. irregular - tr - 1% py tr. cpy.	tr py, tr cpy					
331.5	334.5	MAFIC FLOWS (4a) A coarse grained, dark green, massive non-mineralized, except for 1 small q.v. with 5% py. Unit is well chloritized.	tr py					
334.5	340.5	CHLORITE ZONE (5a) A massive medium coarse grained unit, generally massive. Unit is composed of actinolite-tremolite and chloirte. Fractures are chloritized Unit is non-mineralized, and is grading into a talc-carbonate unit.						
340.5	348.2	TREMOLITE - ACTINOLITE (6b) Unit is light green, coarse grained composed of tremolite and actinolite crystals. Unit is generally massive and in places has been altered to talc-carbonate. Along the fractures chlorite is prevalent, and in places have been pyritized. Unit forms a gradational contact with the above.	tr py					
348.2	349.1	FELSIC FLOW (4a) A fine grained siliceous unit white coloured - grey. Generally massive, non-mineralized, top contact at 50° to C.A., Bottom contact at 90° C.A.						
349.1	376.8	TREMOLITE - ACTINOLITE Similar to 340.5 - 348.2 At 355.5 - have 3" section of felsic flow. Top contact at 90°, bottom 30° to C.A.						
376.8	379.2	FELSIC FLOW Top contact at 30°. Unit is fine grained, highly fractured, silica rich, non-mineralized, greyish-white in colour.						
379.2	399.5	TREMOLITE - ACTINOLITE A coarse grained dark, green, highly fractured unit. In places tr diss py is found within the rock and along fracture faces. Unit is well chloritized. Unit is highly fractured. contd.....	tr diss py					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
399.5	402.7	MAFIC DIKE (1) A coarse grained unit that has black biotite flakes dispersed in the core. The unit is blackish green in colour and has a tr of diss. py. Top contact at 30°, bottom irregular.	tr diss py					
402.7	406.7	TREMOLITE ACTINOLITE (6b) Similar to 379.2 - 399.5 Q.V. at 405' at 40° to C.A. 3/ barren.						
406.7	413.0	MAFIC FLOW (1a) This unit form gradational contact with the above and following unit Unit is fine to medium grained dark green coloured with brownish streak due to heavy biotization. Unit is weakly mineralized with py along some fractures. 411.0: 6" q.v. at 20° barren.	tr py					
413.0	450.5	INTERMEDIATE TUFF (2c) Gradational contact with above. The formed unit is fine - medium grained, grey - black coloured. Unit is well biotized upto 15%. Fractures are chloritized. Unit is generally massive and is banded at 30°.						
450.5	453.0	MAFIC FLOW (1a) A coarse grained, black green unit, rich in large biotite flakes. Unit is massive, Top contact at 20°, bottom at 70°.						
453.0	475.0	INTERMEDIATE TUFF (2c) Similar to 413 - 450.5.						
	475.0	END OF HOLE						

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Page 1

ROPERTY DLC	LATITUDE 197+50 N	STARTED June 15/76	
OLE NO. 38W-18	DEPARTURE 136E	FINISHED June 18/76	
EARING 180°	ELEVATION	LENGTH 496	
IP-COLLAR -45°	SECTION	LOGGED BY D. Visagie	

DIP TEST Footage	Corrected	Footage	Corrected	Footage	Corrected
200	39½°				
400	37°				

FOOTAGE From	To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	To	Length	ASSAYS
0	130	Casing						
130	133.7	Mafic Flows (1a) 130-132.6 a coarse grained mafic flow that is gen dark green colored, non lithified, has well developed pyroxene x-stals (1 of 11). Contains moderate amt of carbonate. Unit is well chloritized. Tr disseminated pyrite is found within the core and along fractures @ 130.5 ½" qu @ 20° tr pyrite 132.6-133.7 a fine grained massive well chloritized, non lithified unit that is dark green in color. Unit ~~dark~~ contains limited amts of carbonate. Flow contact with the above is @ 50°	Tr pyrite					
133.7	134.5	Mafic Tuff (1c) a finely banded sequence which is coarse grained. Color is gen dark green with brownish tinge, due to biotite influence. Carbonate content is moderate. The core and its fractures are well chloritized. Along one fracture face, pyrite is found to comprise 40% of the face. Units top contact is @ 20° while bottom is @ 30°	Tr pyrite					
134.5	214.1	Mafic Flows (1a) 134.5-135.2 is similar to ~~130.6~~ ~~130~~ 132.6 - 133.7 (132.6 -133.7) bottom contact is @ 40° 135.2-153.0 similar to 130-132.6 from 145-153 the unit is heavily broken in the bottom contact with the following flow is very gradational	Tr pyr Tr po Tr cpy					

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PROPERTY D.L.O   HOLE NO. 38W-18.   Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS				
		153.0-173.8 a fine foliated sequence that is gen. coarse grained dark green colored. The unit is well chloritized and weakly biotized. The unit has trace disseminations of pyrite & pyrhotite in it The rock contains moderate amts of carbonate The unit is relatively massive with qv only occurring rarely ~~except for 1 zone~~	Tr pyr Tr cpy Tr po									
		@ 159.2 qv 1" @ 50° tr pyr										
		@ 161.0 qv ½" @ 30° tr po tr cpy										
		@ 162.0 qv ½" @ 60° 5% pyr										
		the units foliation is @ 35° to ca										
		173.8-187.4 a coarse grained mafic flow. The unit is dark green grey in color. Unit is gen non-foliated. Pyroxene x-stals are well developed and there is much carbonate in this unit. The fractures are well chloritized as is the rest of the unit and there is tr. pyrite occurring along the fractures The unit is massive containing no q.v.	Tr pyr									
		187.4-193 a med - fine grained unit that is greenish brown in color. The contact with the above is gradational Unit is ~~well~~ moderately foliated @ 30° to ca	Tr pyr Tr pyr									
		~~qv~~ @ 190.5 ½" qv @ 40° tr pyr										
		@ 191.4 1" qv @ 45° tr pyr.										
		195-214.1 a well ~~moliated~~ foliated sequence That has been biotized throughout at least weakly with ~~biotization being~~ biotite being well developed from 204.7-206.7). The unit is gen dark green-black with a brownish tinge. The unit has been chloritized and fractures are well chloritized In addition there ~~are~~ is along the fractures ~~traces~~ of pyr. is developed up to 40%. In the	Tr pyr Tr cpy									

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PROPERTY DL-0 HOLE NO. ~~DL-0~~ 38W-18 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
		section from 204.7 – 206.7 there are ~~6~~ 4 six 1/4" qv @ 45° to ca containing tr cpy & tr pyr. This unit forms a bottom contact @ 60° to ca.						
214.1	217.1	Intermediate Flow (2a) a fine grained siliceous unit. This unit is massive and grey in color. There is ~~weakly~~ developed foliation @ 70° to ca. Tr pyrite is found in this section. The bottom contact is @ 50° to ca	Tr pyr.					
217.1	245.7	Mafic Flows (1a) 217.1 – 232.7 is similar to 195-214.1 Bottom flow contact is @ 50° unit has tr pyr & cpy In addition the section is only weakly biotized throughout with no concentration of biotite being developed.	tr pyr tr cpy					
		232.7-238 a med-fine grained unit that has ~~been~~ well developed chlorite. Unit is massive Fractures are well chloritized This unit is ~~grey~~ green in color. At 237.2 we have a fracture that contains 60% py and 5% cpy.	Tr-5% pyr tr cpy					
		238-245.7 a well foliated mafic flow that is coarse-med grained and green colored. The unit is carbonate rich. Fractures are well chloritized. The unit contains tr. disem pyrite. The top contacts ~~are~~ is irregular						
245.7	246.8	Intermediate Flow similar to 214-217.1 top contact @ 30° bottom @ 40° tr disem pyr	tr pyr					
	256.1							
246.8	~~248.5~~	Mafic Flows (1a) 246.8-248.5 similar to 238-245.7 bottom contact @ 35° to ca	Tr pyr Tr cpy					

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
		248-251.2 a coarse grained pcp-foliated dark green colored unit that is massive and is non mineralized. The bottom contact is @ 35°						
		251.2-252.3 - similar to 238-245.7 Foliated @ 35° bottom contact @ 50° to ca						
		252.3-254.4 similar to 248-251.2 tr dissem pyrite bottom contact is @ 55° to ca	Tr pyr					
		254.4-256.1 similar to 238-245.7 cpy is well developed in any section in a 1/16" stringer Unit is foliated @ 45°. Bottom contact @ 50°	Tr-1% cpy					
256.1	261.2	~~256.1-264.2~~ Intermediate Flow (2a) a fine grained siliceous unit that is grey colored with brownish tinge The unit is non massive. Pyrite is developed along 1 fracture Bottom contact is @ 45° to ca	Tr pyr					
261.2	267.3	Mafic Flow (1a) a well foliated sequence, that is coarse grained, dark green colored. Unit is well bedded in sections. Foliation is @ 90° to ca. The unit is cut by small qv @ 264 1/2" @ 30 Tr pyr 264.3 1/8" @ 30 barren 264.4 1/8" @ 50 barren 264.5 1/16" @ 50 barren	Tr pyr.					
267.3	268	Chloride Zone (5a) a section of rock that is fine grained light green colored and very soft and fractured. Unit is non-mineralized						

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PROPERTY D.L.O HOLE NO. 3SW-18 Page 5

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
268	324.5	Mafic Flows (1a) 268-272.5 a coarse grained non-foliated sequence. The unit is dark green colored. Unit is well chloritized, non-biotized						
		272.5-310.8 generally well foliated, dark green coarse grained. Non-biotized, ~~contain~~ well chloritized. The unit contains minor to ~~out~~ of carbonate. Unit is generally massive. Foliation is developed @ 60° to ca. Unit ~~green~~ rarely has qv. although one is developed @ @ 303.8 1" qv @ 50° tr pyrite	Tr pyr.					
		310.8-313.2 Unit becomes ~~more~~ fine grained ~~grey~~ green, massive unit top contact @ 50 bottom @ 45°						
		313.2-322.5 similar to 272.5-310.8 some ~~of the~~ mine section ~~is~~ are well biotized mineralization is poor being confined to a fracture face qv @ 322.4 1" qv @ 35° barren. tr po & tr pyr are found						
		322.5-324.5 similar to 310.8-313.2 unit has tr cpy, po & pyr in it	tr cpy po & pyr					
324.5	329.8	~~324.5-329.8~~ Chert (3) a fine grained smoky grey colored unit very siliceous & barren contacts are @ 55° to the core axis						
329.8	~~332.3~~ 369.5	Mafic Flows (1a) 329.8-~~332~~ a well foliated mafic flow. The section is coarse grained, green colored and contains moderate bands of carbonate. Section has tr po & pyr dissem. in it. Unit well ~~biot~~ chloritized but non-biotized have a barren irregular qv running from 225.8-226.8	Tr po & pyr					
		328-333.3 similar to 310.8-313.2 tr pyr developed along a fract.	Tr pyr					

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PROPERTY D.L.O. HOLE NO. ~~DL~~ 38W-18 Page 6

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
		333.3-369.5 section is well-foliated flow gen dark green coarse grained. Carbonate veinlets are seen ~~rare~~ regularly but but they are barren. Unit contains med amt of carbonate. Unit is foliated @55° @363.6 ½" qv @ 90° tr py						
369.5	372.3	Mafic Tuff (1c) a fine grained dark green colored unit which has brownish tinges due to the high biotite content (15%) Small veinlets contain tr. py. Unit is well bedded bottom @ 55° the bottom contacts @ 45° Unit contain tr cpy & tr po.	Tr po Tr Pyr Tr CPy					
372.3	373.9	Intermediate Flow (2a) a fine grained unit that is grey colored containg large biotite flakes. Unit contains tr pyrite	Tr pyr.					
373.9	385.3	Interbedded Matic Flows & Mafic Tuff. (1a-1c) section one, is gen dark ~~color~~ green colored coarse grained and is well biotized and silicified throughout. Section contains tr po 1% pyr. From 385'-385.3 the unit is highly fractured	Tr po Tr pyr					
385.3	388.0	Intermediate Tuff (2c) a fine grained brownish colored rock The unit is highly bedded containg 15% biotite. Unit is bedded @ 60° Unit in the last 1.3' is well mineralized containing 15% pyr tr cpy 2% po qv @ 387.2 ~~60°~~ ½" @ 40 bedding 388.0 ½" @ 50 tr pyrite	Tr pyr.					
388.0	388.5	Chert (2) a smokey grey fine grained siliceous intru top & ~~bottom~~ contact @ 60° to c.a. Unit has a small irreg qv in it containing pyrite Unit is poorly mineralized. Unit forms a gradational contact with the Following Felsic Flow	Tr pyr					

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PROPERTY D.L.C. HOLE NO. 39W-18 Page 7

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	ASSAYS FOOTAGE From	To	Length	ASSAYS
388.5	392.8	Felsic Flow (4a) a fine grained grey unit that is massive section is quite siliceous. The Felsic Flow in ~~the last 8 is cut by a grt.~~ This moderately bietized. and is very weakly ~~bietized~~ foliated From 392.0 - 392.8 There is a large qv. The top 1" of this section is well mineralized with 10% cpy 2% pyr. Rest of the section is relatively barren except for tr pyr	Tr cpy Tr po Tr pyr					
392.8	394	Mafic Tuff (1c) A fine grained biotite rich ~~rock~~ section The colour is generally, brown-green colored and is finely banded unit certain moderate carbonate within it. The unit is banded @ 55°. The Top contact is @ 70° to Ca. Pyrite is found along fracture faces and in the top 1" ~~base~~ ~~Pyrite~~ of the unit have pyrite composing 15% of the ~~rock~~ rock ~~Bottom contact degradational~~	pyr Tr-15%					
394	403.7	Chlorite Zone (5) a coarse grained dark green unit which massive, homogenous has well developed epidote-quartz-tremolite veining. Unit is in place small zones, well mineralized. These zones of mineralization are associated with qv & fracture fillings that occurs over small sections 395.7 qv ¼" mag 10% cpy 2% pyr 395.8 qv ¼" " 5% cpy 5% pyr 396.5 qv 1" @40° tr pyr. 396.7 qv 1" @90 barren	Tr cpy Tr po Tr pyr					
403.7	406.1	Intermediate ~~Tuff~~ Flow (7a) top contact @ 60° unit is a coarse grained ~~mafic~~ grey-black colored siliceous unit Unit contains 2-7% biotite. Unit is generally homogeneous massive & non-mineralized						

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
406.1	407.8	Mafic Flow (1a) a fine grained green colored unit that is massive top contact is a 60°. The unit till 407 contains no carborate However that core from 407–407.8 contains good carbonate						
407.8	410.5	Mafic Tuff (1c) a coarse grained dark green ~~biotite~~ ~~tuff~~ mafic tuff. The foliation is well banded @ 50°. The ~~tuff~~ core contains moderate (5%) biotite. The fractures are well chloritized as is the core The top contact is @ 50°						
~~410.5~~	~~413.1~~							
410.5	413.1	Chlorite Alteration (5) similar to 394–403.7 – barren						
413.1	414	Intermediate Flow (2a) 45° Top contact is @ ~~45~~°. Unit is coarse grained grey black colored. Similar to 403.7–406.1						
414	415.3	Chlorite Alt (5) similar to 394–408.7 top contact is @ 65° barren						
415.3	416.3	Int Flow (2a) similar to 403.7–406.1 top contact is fractured bottom is @ 40°						
416.3	422.5	Chlorite Alt. (5) similar to 394–403.7 barren bottom contact is @ 50°						
422.5	425.5	Int Flow (2a) similar to ~~SF~~ 403.7–406.1 bottom contact is @ 50°						
425.5	433.3	Chlorite Alt (5) similar to 394–403.7 barren						

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PROPERTY DL.O HOLE NO. 38W-1 Page 9

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
433.3	451.5	Mafic Tuff (1c) generally a med-coarse grained green colored unit. The section is well banded Some fractures contain Pyrite. Unit is gen massive containing no g.v. Unit is banded @ 55°	Tr pyr					
451.5	496	Intermediate Tuff (2) a greyish colored biotite rich unit that is fairly banded. ~~containing~~ The unit contains 15% biotite. Unit is gen. massive The top contact is @ 55° and the unit is banded @ 55° Mina py- is seen along fractures ~~gv are not~~ occur approximatly 1 to every 5' and these veins are small and barren	Tr Py					

END OF HOLE = 496'

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	May 11th, 1976						
HOLE NO.	38 - 126	DEPARTURE	160 EAST	FINISHED	May 16th, 1976	200'	49.5°	800'	39°		
BEARING	180°	ELEVATION		LENGTH	1437 FEET	400'	46.5°	1000'	34°		
DIP-COLLAR	- 50° SOUTH	SECTION		LOGGED BY	D. VISAGIE	600'	42°	1200'	34°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
				31736	70	75	5	T
0	36.0	CASING		31737	75	80	5	T
				31738	80	85	5	.02
36.0	78.0	MAFIC TUFF (lc)	tr po, tr py	31739	90	95	5	T
		Overall the unit is a coarse grained, biotite rich, light brown - black		31740	115	120	5	T
		green unit. Rock contains many carbonate bleb. Chloritization is seen		31741	120	125	5	T
		throughout. q.v. not prominent. Mineralization is generally py and po		31742	125	140	5	T
		in diss. tr amount.		31743	140	145	5	.04
		36.0 - 47.5: Typically same as above banding occurs at		31744	165	170	5	T
		50° to C.A. Carb. blebs prominent in the		31745	180	185	5	.02
		fist foot - Min. is assoc. with q.v.		31746	185	190	5	.005
		At 46.9 ¼" q.v. at 30° to C.A. tr py, po -		31747	190	195	5	.005
		5% prior to the following unit biotite content		31748	195	200	5	.005
		increases. This occurs in the last 1.5'.		31749	200	205	5	.005
		48.0 - 78.0: Mafic tuff		31750	205	210	5	.005
		Finely banded sequence, much of the unit is		31751	210	215	5	.005
		biotized (in bands) banding occurs at 50°		31752	215	220	5	T
		to C.A. From 55-56.5 the unit is well		31753	220	225	5	.005
		fractured with the fractures being chloritized		31754	250	255	5	T
		mod. From 61.5 - 62.5 section appears to		31755	270	275	5	T
		be an intermediate flow.		31756	275	280	5	T
		At 52.0 ¼" q.v. at 50° to C.A. py 30%		31757	280	285	5	.01
		At 59.0 3/4" q.v. at 50° to C.A. po 5%		31758	285	290	5	.01
		At 70.7' the biotite content of the core		31759	290	295	5	.095
		increases to 15%. In this area py is found		31760	295	300	5	.086
		in tr amounts in stringers at 71' have		31761	300	305	5	.01
		25% py found along a chloritized fracture		31762	340	345	5	.005
		face cpy is found diss. along with po.		31763	362	367	5	T
				31764	385	390	5	T
78.0	86.9	MAFIC FLOW	Tr py, po 1-3%,	31765	405	410	5	T
		A coarse grained massive green to black coloured, poorly min. section	cpy tr - 1%	31766	430	435	5	.005
		of core. Rock is cut by small carb. veinlets and has amphibole		31767	435	440	5	T
		crystals formed in it. From 83.7 - 86.9 have an increase in bio.		31768	440	445	5	T
		content. At 83.7 have a ½" quartz-carb. veinlet which has 5% po		31769	445	450	5	T
		1% cpy. In this section along fractures is found tr py and chlorite.		31770	450	455	5	T
				31771	455	460	5	T
				31772	465	470	5	T
				31773	470	475	5	.005
				31774	485	490	5	.005

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
				31775	490	495	5	T
86.9	93.2	INTERMEDIATE FLOW (2a)	20% py. in places	31776	510	515	5	T
		A fine grained, grey, siliceous rock. The rock in addition has a reddish	along fractures.	31777	530	535	5	T
		tinge. Muscovite is found within the core. Fractures in places have		31778	535	540	5	T
		been partially chloritized and contain large flakes of py upto 20%		31779	540	545	5	T
		along fractures.		31780	545	550	5	T
				31781	550	555	5	.09
93.2	227.5	MAFIC FLOWS		31782	555	560	5	T
		A series of comp. similar flows.		31783	560	565	5	.015
		93.2 - 96.8 : Mafic tuff. Banded at 50° to C.A.	tr py	31784	565	570	5	.005
		Generally coarse grained greenish-black		31785	570	575	5	.01
		rock with tr py. Foliated py at start		31786	575	580	5	.045
		of unit for 2".		31787	600	605	5	.01
		96.8 - 114.3: Mafic flow		31788	630	635	5	T
		A unit which is mafic, medium to coarse		31789	635	640	5	.005
		grained that contains much carb. Carb.		31790	655	660	5	.005
		is diss and occurs with amphibole. Unit		31791	680	685	5	.005
		starts off with a weak zone of carb. The		31792	695	700	5	.025
		amount of carb. increases till it forms 30%		31793	700	705	5	.035
		of the rock. This section becomes		31794	715	720	5	.025
		massive in form.		31795	720	725	5	.02
		106 - 109.3 is a small zone of carb. poor		31796	725	730	5	T
		mafic flow. After 109.3 have a return to		31797	730	735	5	T
		the carb. rich mafic flow.		31798	735	740	5	T
		114.3 - 116.9: Mafic flow.	tr py	31799	775	780	5	T
		Medium to fine grained mafic, green in		31800	780	785	5	T
		colour, non-bio. carb. poor. Tr sulph.		31801	795	800	5	.005
		(py) Top contact at 60°.		31802	800	805	5	T
		116.9 - 122.0: Mafic Tuff- Flow		31803	830	835	5	.005
		Similar to 36 - 78. Well biotized foliated		31804	845	850	5	.02
		at 40°/to tr carb. Along fracture biotization		31805	850	855	5	T
		and chloritization. Py runs as high as 20%		31806	855	860	5	T
		over selected area.		31807	865	870	5	.025
		122.0 - 129.3: Mafic flow.		31808	920	925	5	T
		Carbonatized, biotized section with flow		31809	925	930	5	.015
		contact at 50° to C.A. Generally massive		31810	930	935	5	.005
		in form.		31811	945	950	5	T
		129.3 - 136.0: Mafic flow	Tr po. py	31812	980	985	5	T
		Return to the carb. poor green-black,		31813	995	1000	5	.005
		coarse grained rock tr diss. py and po.		31814	1015	1020	5	.01
		136.0 - 189.0: Carbonate-rich mafic flow.	1% po	31815	1020	1025	5	T
		A carb. rich mafic flow which has amphi.		31816	1025	1030	5	T
		crystals well define. It is coarse grained		31817	1040	1045	5	T
		well chlo. rock. Fractured are chlo. with		31818	1045	1050	5	.02
		diss. py. Py typically occurs with carb. veins		31819	1050	1055	5	T
		and q.v. Q.v. are not prominent and unit is		31820	1055	1060	5	T

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FOOTAGE From	FOOTAGE To	DESCRIPTION		% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.				
93.2	227.5	CONTD.			31821	1060	1065	5	.02				
		136.0 - 189.0	contd.		31822	1065	1070	5	.101				
			generally massive. Diss. po is over an		31823	1070	1075	5	.03				
			1/8" ≠ It is found diss. and with small		31824	1075	1080	5	T				
			veins. Cpy is found over fractures at		31825	1080	1085	5	T				
			up to 20%.		31826	1085	1090	5	T				
		196.5:	4" q.v. barren at 50° to C.A.		31827	1090	1095	5	T				
		198.0 - 207.5:	Mafic flow	tr py	31828	1095	1100	5	T				
			More massive inform, typically a green-		31829	1100	1105	5	.01				
			black unit. Cut by small carb. veinlets		31830	1105	1110	5	.005				
			which contain tr py. and diss. tr po.		31831	1110	1115	5	.01				
			Bio. occurs in bands.		31832	1115	1120	5	T				
		207.5 - 213.0:	Mafic flow	tr py	31833	1120	1125	5	T				
			A carb. rich mafic similar to 136 - 189		31834	1125	1130	5	T				
			contains tr py.		31835	1130	1135	5	.17				
		213.0 - 227.5:	Mafic flow.	tr py.	31836	1135	1140	5	.04				
			Coarse grained dark green-brown, from		31837	1140	1145	5	.005				
			215 - 223 is heavily bio. upto 15%. Tr diss		31838	1145	1150	5	T				
			py along fracture faces. Also cpy found at		31839	1150	1155	5	.13				
			5% along fracture faces with 10% po. Bio.		31840	1155	1160	5	.01				
			is seen to increase around some of the veins		31841	1160	1165	5	T				
			from 223 - 227.5. Mafic flow foliated at		31842	1165	1170	5	T				
			40° to C.A. Weakly diss. tr py.		31843	1170	1175	5	.01				
					31844	1175	1180	5	T				
227.5	234.2	INTERMEDIATE FLOW (2a)			31845	1180	1185	5	T				
		A fine grained siliceous rich rock, light grey coloured - brownish			31846	1185	1190	5	T				
		contains py in diss. form and in stringers. Carb. veins seen in a			31847	1190	1195	5	T				
		few places. Bio. occurs in some of these veins. Chlorite is found			31848	1195	1200	5	T				
		along fractures. Top contact at 50° to C.A.			31849	1200	1205	5	N				
					31850	1205	1210	5	N				
234.2	249.3	MAFIC FLOW (1a)			31851	1210	1215	5	N				
		- Typically fine grained, well chloritized mafic rock, green in colour			31852	1215	1220	5	N				
		weakly bio. well developed amphiboles generally non-mineralized.			31853	1220	1225	5	T				
					31854	1225	1230	5	T				
249.3	253.7	INTERMEDIATE FLOW (2a)			31855	1230	1235	5	T				
		Same as 227.5 - 234.2 only have a slight increase in biotite. Upper			31856	1235	1240	5	.005				
		contact at 55° to C.A. Unit has carb. veins in it. This unit is generally			31857	1240	1245	5	.005				
		a light grey siliceous rock. Fragments of mafic flow are also found			31858	1245	1250	5	.055				
		within the unit. At 252.3 have a 6" zone of mafic inclusions. Bottom			31859	1250	1255	5	.15				
		contact is at 55° to C.A.			31860	1255	1260	5	.018	.14		V.G.	W.Gore
					31861	1260	1265	5	.263	15			
253.7	412.0	MAFIC FLOWS (1a)		tr cpy, tr po, tr py	31862	1265	1270	5	.005				
		253.7 - 283.7:	A highly biotitic unit at the start. The unit		31863	1270	1275	5	.01				
			is coarse grained green-brown. Unit		31864	1275	1280	5	.025				
			contains diss. py in tr amount. This unit		31865	1280	1285	5	.005				
			grades into a carbonatized rock. Carb.		31866	1285	1290	5	.015				

FOOTAGE From	FOOTAGE To	DESCRIPTION		% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.		ASSAYS Cu.		
253.7	412.0	CONTD.			31867	1290	1295	5	T				
		253.7 - 283.7:	contd.		31868	1295	1300	5	.144				
			increases through unit. Also amphibole is		31869	1300	1305	5	T				
			well developed in the lower section. Small		31870	1305	1310	5	.01				
			veinlets of carb. are found throughout the		31871	1310	1315	5	.025		.19		
			section. Bio. occurs randomly conc		31872	1315	1320	5	T		.08		
			throughout the section. At 273' is a 1'		31873	1320	1327	7	.015		.13		
			intermediate section. In this unit overall										
			the unit is weakly mineralized with py. As		31874	1067	1072	5	.045				
			we go down the core the biotite content		31875	1072	1077	5	.03				
			increases. Near the bottom of the unit we		31876	1077	1082	5	.01				
			fine cpy with po and py in tr amount.		31877	1082	1087	5	.01				
		283.7 - 305.0:	Heavily flowed mafic.	5% po, cpy, tr -1%	31878	1087	1092	5	.01				
			A sequence of flows that appear to be more		31879	1092	1097	5	.01				
			intensely flowed deformed than those		31880	1115	1120	5	.01				
			previous. These are coarse grained, green		31881	1120	1125	5	.01				
			black, carb. rich generally non-bio. Some		31882	1125	1130	5	.03				
			small quartz veins that contain po and cpy		31883	1130	1135	5	.03				
			are evident. Cpy is also found diss. po		31884	1150	1155	5	.01				
			upto 5% cpy tr - 1%.		31885	1155	1160	5	T				
		305 - 397.0:	Mafic flow chloritized and biotized.	tr cpy, tr po, tr py	31886	1160	1165	5	T				
			Coarse grained, mafic, well biotized and		31887	1165	1170	5	.01				
			chloritized. Biotization is not uniform.		31888	1170	1175	5	.015				
			Small veinlets of carb. Mineralization is		31889	1175	1180	5	.005				
			diss. py, po and cpy in tr amount fractures		31890	1180	1185	5	T				
			are well chloritized much carb. in		31891	1210	1215	5	.02				
			some of the flows.		31892	1240	1245	5	.01				
		397.0 - 412.0:	Mafic flow	tr py	31893	1245	1250	5	.20	.218			
			Relatively homogeneous very similar to		31894	1250	1255	5	.33	15'			
			305 - 397 foliation developed at 40° to C.A.		31895	1255	1260	5	.125				
			Tr py seen in a small stringer.		31896	1260	1265	5	.04				
					31897	1265	1270	5	.01				
412.0	413.7	FELSIC FLOW (4a)			31898	1270	1275	5	.09				
		Medium to fine grained, white siliceous rock with tr biotite. Very			31899	1275	1280	5	.01				
		homogeneous. Top contact and bottom contact at 90°.			31900	1280	1285	5	.005				
					31901	1285	1290	5	.015				
413.7	427.0	SERIES OF MAFIC FLOW AND TUFFS			31902	1290	1295	5	.015				
		413.7 - 427.0:	Unit starts off as a weakly flowed. mafic		31903	1295	1300	5	.015				
			similar to 305 - 397. This unit grades in		31904	1300	1305	5	.010				
			places to an intermediate - mafic flow the		31905	1305	1310	5	.010				
			contacts are tough to discern. Unit is		31906	1310	1315	5	.020		1315'-	1350' =	.046
			generally coarse grained., biotitzed, dark		31907	1315	1320	5	.045				35'
			green coloured. This unit at 427 - 447		31908	1320	1325	6	.17				
			grades into an intermediate flow.		31909	1325	1330	5	.020				
					31910	1330	1335	5	.015				
					31911	1335	1340	5	.020				

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
427.0	447.0	INTERMEDIATE FLOW - MAFIC (1a- 2a)	1-3% po, tr cpy	31912	1340	1345	5	.030
		A sequence of intensly flowed units. The core is generally a reddish	1% py	31913	1345	1350	5	.045
		brown coloured medium grained fine grained unit. It is well mineralized		31914	1350	1355	5	.015
		with po - 1-3% cpy tr, 1% py. The sulphides are found diss. and in		31915	1355	1360	5	.025
		veins and stringers.		31916	1360	1375	15	.010
				31917	1375	1380	5	.010
447.0	455.0	MAFIC FLOW (1a)		31918	1380	1385	5	.010
		Similar to 413.7 - 427.0.		31919	1385	1390	5	T
455.0	460.0	INTERMEDIATE - MAFIC (1a - 2a) SIMILAR TO 427 - 447		31920	1390	1395	5	T
460.0	579.5	MAFIC FLOWS (1a)		31921	1395	1400	5	T
		A series of flows ranging in comp. from a good mafic to a mafic -		31922	1400	1405	5	T
		intermediate - intermediate.		31923	1405	1410	5	.005
		460 - 509.6: Similar to 413.7 - 427.0.		31924	1410	1415	5	.010
		509.6 - 514.4: Carbonate rich mafic flow		31925	1415	1420	5	.015
		A well carbonatized, amphibolized, coarse		31926	1430	1435	5	.015
		grain, green coloured rock, py is found -						
		a 6" q.v. which runs parallel to the core.						
		514.0 - 548.0: Mafic flow	tr cpy, tr po, tr py					
		Similar to 413 - 427.						
		Mineralization is found as tr amount of						
		cpy. Po and py throughout the section.						
		These occur as blebs, diss and stringer.						
		Bio. and chlortization occurs along some						
		of the fractures.						
		548.0 - 572.5: Continuation of 514 - 548	tr cpy, tr py					
		Section becomes less biotized.						
		572.5 - 579.5: Mafic flows	5% py, tr cpy					
		Well biotized over limited areas tr cpy						
		5% py, 3% po, small carb. veins at 40°						
		to C.A.						
579.5	582.1	FELSIC FLOW (4a)						
		White fine grained silica. rich rock, non-mineralized, massive. Top						
		contact at 70°, bottom at 50°.						
582.1	596.9	MAFIC FLOW (1a)	tr po, tr py					
		Same as 413.7 - 427						
		Tr py and po. fractures are chloritized.						
596.9	597.8	INTERMEDIATE FLOW (2a) - Similar to 249.3 - 253.7	5% py					
		- is fine grained, light grey silica rich. The top of the section is well						
		py. Top contact at 40° to C.A.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
597.8	647.0	MAFIC FLOWS (1a) 597 - 622.0: Mostly mafic flow similar to 413.7 - 427. over places have 1' sections of intermediate comp. Py is found in places as $\frac{1}{4}$" accumulations Tr py in stringers and diss. From 609 - 612.5 have an intermediate flow within the flow From 619 have good biotite formed.						
647.0	667.5	INTERMEDIATE - MAFIC FLOWS (2a -1a) A unit which is generally a fine grained brownish green rock, much biotite -phlog. minor q.v. Abundant carb. associated with veining py. At 655.8 - $\frac{1}{2}$" q.v. massive py 60% q.v. at 70° to C.A. fractures are chloritized.	py diss. 5%					
667.5	669.5	MAFIC FLOW (1a) A short coarse grained, black - green, unit generally massive, non-mineralized non- biotized.						
669.5	691.5	INTERMEDIATE - MAFIC FLOWS (2a - 1c) Similar to 647. - 667.5 Tr diss. po and py upto 2%. Also mineralization found in stringer.	Tr - 2% po, Tr - 2% py					
691.5	693.1	MAFIC FLOW (1a) - Similar to 667.5 - 669.5						
693.1	705.0	INTERMEDIATE - MAFIC FLOW (2a - 1a) Similar to 647 - 667.5 Have tr diss blebs of po and py, section very well flowed, biotized also minor cpy.						
705.0	706.5	MAFIC FLOW (1a) A short sequence of green coarse grained, weakly biotized, chloritized. Non-mineralized.						
706.5	801.0	INTERMEDIATE - MAFIC FLOW (2a -1a) Unit is generally fine grained brown green unit, well biotized, weakly chloritic. Some sections are good mafic while others are almost Intermediate in comp. Most of the rocks comp. grade into each other. Fractures are typically chloritized. Sulphides are found as tr diss. and as blebs in addition to being in q.v. Carb. is found in good amounts throughout the unit. At 719.7: 1" q.v. py 10%, po 10%, at 50° to C.A.	tr py, tr po, tr cpy					
801.0	803.0	MAFIC FLOW (1a) Coarse grained, green, chloritized and biotized, non mineralized.						

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
803.0	839.5	INTERMEDIATE - MAFIC FLOW (2a - 1a) Similar to 706.5 - 801.0 Contains tr py and tr po. Py occurs with po in stringers.	tr po. py					
839.5	844.6	MAFIC FLOW (1a) Coarse grained chloritized green-black massive non-mineralized forms a sharp contact at 70° with the following Intermediate.						
844.6	855.6	INTERMEDIATE FLOW (2a) Similar to 706.5 - 801.0. Tr py diss.	tr py.					
855.6	861.3	MAFIC FLOW (1a) Contact with above at 40°. Similar to 839.5 - 844.6. Chloritized, coarse grained, tr py fractures chloritized.	tr py					
861.3	866.6	INTERMEDIATE MAFIC FLOW (2a - 1a) - Similar to 647. - 661.5 Highly biotized, few carb. veinlets. Generally barren. Unit comp. grades into a mafic flow well flowed.						
866.6	881.1	MAFIC FLOW (1a) A massive , coarse grained, green coloured rock. Biotized slightly and chloritized well. Amphibole crystals well developed. Little q.v. Section generally non-mineralized. Tr cpy and py.	tr cpy, tr py					
881.1	888.9	INTERMEDIATE (2a) Forms a good top contact at 55° to C.A. Flow is a coarse -med. grained silica rich light grey rock which is cut by carb. veinlets and inclusions. Section is generally massive, non-mineralized fractures are weakly chloritized.						
888.9	893.8	MAFIC FLOWS Upper contact at 50° to C.A. Is a coarse grained- medium grained greenish-black coloured rock. Unit is generally massive with tr py in stringer and diss. Carb. blebs are found diss in rock. Fractures are chloritized.	tr py					
893.8	913.7	INTERMEDIATE - MAFIC FLOW Section similar to 647 - 667.5 Py is diss upto 10% in split sections. Section generally non-veined.	5% py					
913.7	947.2	SERIES OF MAFIC FLOWS 913.7 - 921.7 : Mafic flow , coarse grained - medium grained, biotized weakly, well chloritized generally massive unit overall poorly min. Unit has short intermediate sequence from 916.0 - 916.8 whose top contact is at 50°.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
913.7	947.2	CONTD.						
		921.7 - 939.1: Mafic flow A sequence which is the same as above except that there is some black biotite-flakes in the core that are foliated at 35-50° to C.A. Tr cpy, py at 923. Unit from 925.5 - 926.7 is more flowed than the rest of the unit.	cpy tr, py tr					
		939.1 - 947.2: Increase in biotite, more carb. than previous, fractures well chloritized, relatively massive. Minor quartz veining containing tr py.						
947.2	951.3	INTERMEDIATE FLOW (2a) Top contact at 55°. Generally a siliceous green-grey medium to fine grained rock.. Generally massive unit that is non-mineralized. Bottom contact at 50° to C.A.						
951.3	959.4	MAFIC FLOW (1a) Coarse grained mafic, green to black well developed amphibole. Biotized weakly, foliation at 55°. Unit massive non-mineralized chloritization developed along fractures.						
959.4	960.2	INTERMEDIATE FLOW (2a) - Similar to 947 - 951.3 Top and bottom contact at 50°.						
960.2	963.5	MAFIC FLOW - Similar to 951.3-959.4. Foliation at 45-50°.						
963.5	964.6	INTERMEDIATE FLOW - Similar to 947 - 951.3.						
964.6	986.4	SERIES OF MAFIC FLOW (1a)						
		964.2 - 980.2: A coarse grained, weakly biotized, massive, non-mineralized unit generally dark green in colour. Amphibole is well developed along with pyroxene. Minor q.v. and carb. included in the section. at 980.2 1" q.v. tr py at 50° to C.A.						
		980.2 - 986.4: A coarse grained mafic flow which has a tr py. A significant increase in carb. Unit generally massive unit. Minor q.v. developed along with carb. veinlets.						
986.4	987.5	INTERMEDIATE FLOW (2a) A siliceous medium to fine grained grey-green unit that is massive non-mineralized. Bottom contact at 70° to C.A.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
987.5	1090.0	MAFIC FLOWS (1a)	tr cpy, tr-1% po,					
		Generally a massive unit green in colour, med.-coarse grained,	tr py					
		generally not biotized. Contains good carb. throughout q.v. not						
		prominent. Overall the unit is poorly mineralized. Although tr of cpy						
		and po and py are found as diss. and in q.v. and carb. veinlets.						
		At 1017: 3" q.v. tr cpy at 40° to C.A.						
		At 1064: 2½" q.v. - barren. at 45° to C.A.						
		At 1065.8: 1" q.v. - tr cpy and py at 45° to C.A.						
		At 1072.8: 3/4" q.v. tr cpy and 15% po.						
1090.0	1095.8	MAFIC - INTERMEDIATE TUFF (1c-2c)	tr po, tr py					
		A coarse grained grey-green, brown coloured unit. Thinly bedded,						
		well biotized, q.v. generally absent. Rich in carb. Unit is banded at						
		55° to C.A. While its top contact is at 60-55° to C.A. The unit						
		contains tr diss. po, py in a small vein.						
1095.8	1162.7	MAFIC FLOWS (1a)						
		A series of mafic flows - 1095 - 1137.0.						
		A coarse grained green, black rock that occasionally has a brownish-						
		tinge. Unit is composed mod. of carb. Rock where fractured is						
		chloritized and generally accompanied by tr sulphides and on occasion						
		the sulphidess po and py are found to comprise 30% of the fracture						
		face. Po and py are also found diss. throughout the unit. Ir one q.v.						
		cpy and po are found to comprise 20% of a veinlet (10% cpy, 10% po)						
		Unit is only biotized in small regions. A 1126.2 - 1126.8 have an						
		increase in the amount of diss. mineralization upto 5% cpy and po						
		combined.						
		At 1132.5: Have cpy and po 10% in small veinlets.						
		At 1136.3: Have 1/8" veinlet po and py combined 10%.						
		1137.0 - 1152.3: Have increase development of carb. within						
		the rock. Unit is non-biotized massive						
		generally med. to coarse grained amphibole cr						
		crystals are well developed. Q.v. not						
		generally evident. Tr po in a small 1" q.v.						
		at the end of the section q.v. at 40° to C.A.						
		1152.3 - 1162.7: Sequence starts off as a gradational change						
		from the carb. rich unit. Carb. decreases.						
		Bio. increases. Amount of flow increases						
		in this unit. Min. in the unit is significantly						
		higher. From 1158 the amount of flow						
		decreases. Minor q.v. and carb. veins						
		generally mineralized with tr sulphides.						
		Along fractures have chloritization. After						
		1158' amount of biotization decreases.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1162.7	1166.0	INTERMEDIATE - MAFIC FLOW A greenish brown coarse grained increased silica content. Section of the core are mineralized with po and cpy. At 1164: 2" q.v. 2% py 2% po. 2% cpy at 40° to C.A. At 1163: 1" q.v. barren. at 40° to C.A. Throughout this unit cpy is found diss.	tr po. py. cpy					
1166.0	1170.0	CHERTY ZONE (3) A fine grain siliceous zone that has a smoky brown grey colour. Unit is cut by a few barren quartz veins. Unit contains mafic-fragments. Section is non-mineralized. Top contact at 40° to C.A. Bottom at 30% to C.A. At the very bottom of this unit we have a ½" zone of good po, py and cpy upto 60%.						
1170.0	1197.0	MAFIC FLOWS (1a) 1170.0 - 1184.0: Core is a coarse grained dark green unit that has moderate amount of carb. within it. Black chlorite is found along the fractures q.v. and carb. veins are generally rare. Unit contains tr py and po diss. through the unit at 1182.7 have good development of po and py over ½". 1184.0 - 1197.1: Unit shows a gradational increase in carb. at 1186.5 have a short 6" unit where po increases in diss. upto 5%.	tr py, po					
1197.1	1203.3	INTERMEDIATE FLOW (2a) Series of flows that are ranging in colour from light grey - green, grey in colour. Unit is siliceous generally massive coarse - med. grained. Unit has little veining or mineralization at 1201.9 have po in small stringers. The last 1' section is biotized, have tr cpy along fractures.	tr po					
1203.3	1301.5	MAFIC FLOW (1a) 1203.3 - 1237.0: A series of mafic flows, coarse grained, green, core, that has moderate carb. containing tr po and py. Unit is slightly chloritized weakly biotized. Overall the unit is poorly mineralized. Section ranges in carb. poor - rich. Veining is predominantly carbonate. 1237 - 1238: Rock is generally very fine grained. 1238 - 1240: Section is well biotized intermediate - mafic rock. 1240 - 1243: Rock becomes fine grained very massive, limited carbonate.	tr po, py					

FOOTAGE From	FOOTAGE To	DESCRIPTION		% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1203.3	1301.5	CONTD.							
		1243 - 1260.8:	Mafic flow	tr - 2% po, tr-2% py					
			Features an increase in carb. rock becomes coarser grained also becomes mod. biotized, weakly chloritized. Unit is cut by many q.v. predominantly from 1247' on features an increase in q.v. and increase in min.	tr cpy					
		At 1248.6:	Have 2" q.v. good po developed over $\frac{1}{2}$"						
		At 1249.9:	Have 1" q.v. at 50° to C.A. tr diss. py, cpy and po = 10% combined developed along a fracture face at 1251.2.						
		At 1252:	Have po in $\frac{1}{4}$" stringer.						
		At 1254.5:	Have irregular $\frac{1}{2}$" q.v. assoc. with it 10% po and py.						
		At 1256.2 - 1256.8:	Have q.v. zone irregular vein, tr cpy, tr po 1-2%. V.G.	V.G.					
		Mineralization commonly occurs along fractures which are chloritized. Unit between 1258.5 - 1260.8 is well biotized.							
		1260.8 - 1301.5:	Generally coarse grained carb. rich rock well foliated at 50° to C.A. Carb. forms minor veinlets. Q.v. shows an increase Veins are well mineralized in some instances.						
		1258.2:	Fracture face 10% cpy 10% po, py						
		1259.7:	$\frac{1}{2}$" q.v. 5% po and py combined.						
		1260.2:	3" q.v. tr py and po irregular.						
		1261.2:	$\frac{1}{2}$" q.v. at 40° to C.A. tr cpy, py, po - 5% combined.						
		1262.3:	$\frac{1}{2}$" q.v. irregular tr py.						
		1273.8:	$\frac{1}{2}$" q.v. at 40° to C.A. 5% po						
		1274.4:	1" q.v. tr po.						
		1275.6:	$1\frac{1}{2}$" irregular q.v. po, py combined 5%.						
		1276.8:	4" q.v. at 40° tr po.						
		1278.0:	$\frac{1}{2}$" q.v. at 40° tr po, cpy.						
		In addition cpy, po, py are found as diss. blebs in the section.							
		1287.5:	1" q.v. at 40° tr po, cpy.						
		1295.2:	$\frac{1}{2}$" q.v. at 40° tr po, py.						
		1296.4:	$\frac{1}{2}$" q.v. at 70°, tr py.						
1301.5	1327.0	INTERMEDIATE TUFF							
		1302.2:	$\frac{1}{2}$" q.v. at 20° barren.						
		1302.4:	$\frac{1}{2}$" q.v. at 40°, tr py						
		1303.0:	$\frac{1}{2}$" q.v. at 40° tr po						
		1304.5:	3/4" q.v. at 40° tr cpy						
		1305.0:	$\frac{1}{2}$" q.v. at 50°, tr py, po.						
		1317.9:	$\frac{1}{2}$" q.v. at 50° - barren.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1301.5	1327.0	CONTD.						
		1318.3: 1" q.v. irregular, 20% po, py , 5% cpy.						
		INTERMEDIATE TUFF	2% py, tr-1% cpy					
		Unit is a course grained unit that has a gradational comp. boundard with the above. Unit is for the first 7' intermediate to mafic in comp. The unit when intermediate is a course grained biotite rich brown green rock. Biotite content 20% is found in the section from 1308' on. Min. is weak till 1308.5 from there on there is good min. in the section. Po 2-5% py-2%, cpy - tr -1%. Unit is relatively massive from 1308 on being cut by q.v. only in a couple of places. Min. is generally diss. massive blebs or along fracture faces. In the last 6" of the unit, the unit becomes almost felsic - intermediate in appearance.						
		HOLE WEDGED AT 1067'		TROPARI				ACID TEST
				Footage	Dip	Az.		Depth corrected.
				700'	40°	175.5		1250 30.0
				1400'	30°	181.5		1400 29.5
1067.0	1087.8	MAFIC FLOWS (1a)	Tr - 1% po, tr py, tr cpy					
		Generally a coarse grained flow, dark green-black in colour. Biotite found as large black - flakes. The section is weakly chloritized. Carb. is found in mod. amounts. Amphibole well developed in some sections. Unit overall is poorly mineralized with mineralization being confined predominantly to q.v.						
		1071.9: $1\frac{1}{2}$" at 60° to C.A. 2% diss. cpy tr po						
		1072.2: 3/4" q.v. at 40° to C.A. tr py						
		1072.6: $1\frac{1}{2}$" q.v. at 40° to C.A. tr cpy						
		1076.9: 4" q.v. at 40° to C.A., barren.						
		1072.8 - 1073.0: is a fracture which has tr cpy and tr py diss. along it.						
1087.8	1091.6	INTERMEDIATE FLOW (2a)	tr py, tr cpy					
		Contact with above is gradational. Unit is med.tofine grained, well foliated. The biotite is present comprising 15% of the rock. The rock in general is a light brown - green in colour. Carb. content is mod. py and cpy are found diss. in tr amounts. Fractures are generally chloritized. In one section have a well developed 1/16" stringer composed of cpy and py. Q.V. is generally absent. Foliation is at 70° to C.A.						
		CONTD. ---------						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1091.6	1165.8	MAFIC FLOWS (1a)	tr - 1% - po, tr py, tr cpy					
		Mafic flows.						
		1126.5 - 1162.0: A mafic flow that is relatively homogenerous. Coarse grained, dark green, black coloured. Carb. content is moderate. Well developed amphibole, Unit is generally non-bioti zed and chloritization is confined to fractures. Po is found diss. throughout in tr. amounts. py is found in tr. as is cpy both being diss.						
		1157.5: 2" q.v. irregular, barren						
		1160.5: 2" q.v. at 60° to C.A., 2% po, 2% py.						
		Notice as go down in unit that carb. content increases.						
		1162 - 1165.8: Is a very carb. rich unit - carb. - 30%.						
1165.8	1170.0	CHERTY TUFF (4c)						
		Top and bottom contacts at 40° to C.A. Unit is silica rich, fine grained smoky grey - white non-mineralized.						
1170.0	1197.2	SERIES OF MAFIC FLOWS (1a)	tr po, tr py, tr arseno-pyrite (?) graphite (?)					
		First 5" are intermediate in character.						
		1170.5 - 1197.2: Carb. rich mafic flow, coarse grained green black unit that has good carb. developed in it. Veining, however, is not prevalent.						
		1172.3 - 2" q.v. at 40° to C.A., barren. Tr. py and po are found diss. throughout the unit.						
		1182.5: ½" q.v. at 40° to C.A. - 5% py, 3% cpy.						
		1173.8: ½" q.v. irregular tr po and a silvery type mineral arsenopyrite?						
		In this section, fractures are generally chloritized.						
1197.2	1202.9	INTERMEDIATE TO MAFIC FLOW (1a - 2a)						
		1197.2 - 1202.9: Fine grained, siliceous Int. mafic flow. Light green-black in colour, poorly mineralized. Fractures are well chloritized. This unit has a bottom contact at 50° to C.A. The bottom contact is well mineralized.						
1202.9	1238.3	MAFIC FLOWS (1a)						
		1202.9 - 1232.0: Similar to 1170.5 - 1197.2						
		1232.0 - 1238.3: A carb. rich well foliated flow. Contact with the above is at 20° to C.A. Min. gen.	tr po, tr py					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1202.9	1238.3	CONTD.						
		poor although at 1237.6 have diss. blebs						
		of po and py. Unit is weakly chloritized.						
1238.3	1307.0	MAFIC FLOWS (1a)	tr cpy, tr-2% py. tr-3%					
		Similar to 1170.5 - 1197.2	po					
		In addition have small zones of heavy biotization sparsly located through						
		the section.						
		1246.8: ½" q.v., irregular, barren.						
		1248.8: ½" q.v., 30° to C.A., 5% py, 2% po						
		1249.5 - 1250.0: 6" q.v. zone irregular with trcpy ,						
		4% po, tr py.						
		1252.9: 1" q.v., irregular 40° , 3% po, tr py.						
		1254.0: ½" zone of sulphide conc. Po - 10%, tr cpy						
		1255.0 - 1255.7: Irregular q.v. with 10% po, tr cpy, 1% py.						
		1258.8: 2" q.v. 10% po, 10% py.						
		1260.4 - 1261.8: q.v. zone (2 q.v. divided) by a 3" zone						
		of mafic flow, q.v. are barren,top contact						
		at 40° to C.A. Bottom at 40° to C.A.						
		1272.0: 2" q.v. 10% po, at 15° to C.A.						
		1273.5 - 1273.9: quartz carb. vein, 5% py, 10% po,						
		1292.7 - 1293.6: q.v. irregular, parallel to the C.A.,						
		barren.						
		The foliation of this unit is at 30° to C.A.						
1307.0	1326.6	INTERMEDIATE FLOW (2a)	2% po, 2% py, tr cpy					
		Heavily biotized section which contains small mafic sections within it.						
		In the more heavily biotized sections there seems to be an increase in						
		mineralization. The unit overall is well mineralized and there is a						
		mod. amount of q.v. Much carb. is found within the section. Unit is						
		generally a brownish grey colour . Po and py are found in 2%						
		amounts diss. throughout the unit. Cpy is found in tr diss.						
		q.v. at 1326.3 - 2" at 70° to C.A. 2% po, tr py.						

(contd. page 15,...)

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1326.6	1334.0	FELSIC FLOW (4a) A fine grained unit with irregular contacts. Silica content is high. Unit is greyish white in colour with a brownish tinge . Unit is massive and has tr py diss. in it.	tr py					
1334.0	1347.5	MAFIC FLOWS - TUFFS (1a - c) A series of mafic flows and tuffs generally fine grained, blackish green. Biotite content is low. In the first two feet the unit is well foliated at 50° to C.A. Fractures are chloritized. The mineralization of the unit is associated with fracture faces and q.v. From 1334.1 - 1335.7 have q.v. zone in which we have mineralization particularly in the last 6', where there is well diss. py - 10%, and po 2%. At 1343.8 have 5% cpy and 5% po well developed along a fracture face. Unit in places is very chlorite rich.	Tr po, tr py, tr cpy					
1347.5	1367.1	TALC CARBONATE ZONE (6a) Dark grey green , mod. altered unit coarse grained very slightly magnetic. Bedding weekly discernable at 30° to C.A. At 1266' have a q.v. with irregular shape -20° - contains 5% po, 1%py.	tr po, tr py					
1367.1	1368.3	CHERT TUFF (3c) A fine grained, silica rich with limited diss. py. Unit is cut by small q.v's which are barren. In addition the unit is streaked with phlogopite giving it a brownish tinge. Unit is reddish brown in colour.	tr py					
1368.3	1369.0	TALC - CARB. (6a) Similar to 1347.5 - 1367.1						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
		(START OF A SERIES OF FELSIC AND CHERT TUFFS (3c -4c)						
1369.0	1378.6	FELSIC TUFF A fine grained grey coloured unit highly siliceous containing a tr diss. py. Unit is well banded at 20° to C.A.. Unit is homogeneous. Bottom contact is at 20° to C.A.						
1378.6	1379.2	MAFIC TUFF A highly biotized and chloritized rock which is well foliated at 20° to C.A. Unit is non-mineralized. Bottom contact is at 35° to C.A.						
1379.2	1389.0	CHERTY - FELSIC TUFFS (3c - 4c) 1379.2 - 1380.2: WHITE CHERT A 1' unit of fine grained non-mineralized chert chert, white in colour. 1380.2 - 1387.2: CHERTY - FELSIC TUFF A fine grained grey coloured rock with white "splotches" in it, due to the differences in color between the quartz tr diss. py seen. Minor q.v. cut the section. 1387.2 - 1389.0: CHERTY UNIT - Reddish in colour. Unit starts off with the first 3" being reddish in colour. Then turns white non-mineralized mass till the last 2" which is reddish again Unit forms a contact with the above at 20° to C.A.	tr diss. py					
1389.0	1390.0	MAFIC TUFF (1c) - Similar to 1378.6 - 1379.2						
1390.0	1391.8	CHERT AND MAFIC MIX (1c - 3c) A mixture of the above mafic and a reddish chert. Unit is not very coherent being a more or less jumble of short sections the bottom forms a good contact at 20° to C.A.						
1391.8	1393.7	MAFIC FLOWS (1a) A medium coarse grained unit, that is biotite rich and generally massive unit is brown grey in colour.						
1393.7	1401.5	TALC-CARBONATE ZONE (6a) Forms a contact with the above at 70° to C.A. Unit is a coarse grained, well chloritized massive unit that is light green in colour.						
1401.5	1407.0	FELSIC FLOW (4a) A fine grained, white siliceous unit, Highly fractured and is non-mineralized.						

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

PROPERTY DETOUR LAKE HOLE NO. 38 - 126

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1407.0	1416.8	TALC-CARBONATE (6a) Similar to 1383.7 - 1401.5						
1416.8	1437.0	MAFIC TUFF (1c) Forms an irregular contact with the above. Unit is fine grained, dark green to brown. Unit is well biotized in places and is well chloritized Unit is relatively massive. Unit is weakly banded at 50° to C.A. Mineralization is sparse being tr po.	tr po					
	1437.0	END OF HOLE						

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

PROPERTY	DETOUR LAKE	LATITUDE	216 + 50 NORTH	STARTED	May 10th, 1976
HOLE NO.	38W-16	DEPARTURE	230 EAST	FINISHED	May 12th, 1976
BEARING	180°	ELEVATION		LENGTH	577 FEET
DIP-COLLAR	- 50° SOUTH	SECTION		LOGGED BY	D. VISAGIE

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	48½°				
400'	46½°				
577'	43°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	46.0	CASING	
46.0	52.3	INTERMEDIATE FLOW (2a) A siliceous, fine grained, light grey coloured rock. It has been chl. altered but not biotized. Fractues in the rock have been heavily chl. Veins within the sections are of 3 types; irregular, irregular cross-cutting and normal veins. The veins are composed of carb. and quartz in varying amounts. At 46.4: ¼" q.v. at 40° to C.A., 10% po, tr cpy At 47.2: ½" q.v. at 50° to C.A., tr po, tr py At 49.5: ¼" q.v. at 20° to C.A., tr cpy, 1% po Mineralization is found along ;many of the smaller veinlets and in diss. within the core. Po is commonly found along fractures with cpy. Just prior to the chert zone have an increase in mineralization with 10% po and 1% cpy, this is only for a length of 6".	3-5% po, tr py, tr - 1% cpy
52.3	53.4	CHERTY ZONE (3) At top of this unit have a mixture of the above and a fine grained silica rich greenish white in colour. Unit contains many white quartz filled fractures that are cross-cutting each other. At the top of the unit we have tr po and cpy occurring in a diss. banded occurrence (over the top 2") this min. drops to a negligible amount in the core of the zone but picks up at the bottom of the zone to 5% po. At the bottom of the unit is a 2" barren q.v. at 50° to C.A. which forms as a contact between the chert and the following mafic flow.	tr - 3% po, tr cpy, tr py
53.4	54.9	MAFIC FLOW (dark green) (1a) A fine grained chl. altered, non-bio. massive rock. It is almost inter. in character. Fine quartz veins cut through section. No noticeable min. although limonite stain was noticed.	
54.9	61.9	MAFIC FLOW (1a) Dark green -black with brown tinge , a coarse grained rock chloritically altered, well bio. Contains amph. crystals. The flow foliation is at 45° to C.A. At 61.3 1/8" q.v. , cpy, py at 40° to C.A. limonite stain is seen throughout the rock. q.v. not generally evident when they are found they are barren. As go towards end of - i.e. 60.9 - 61.9 the mafic becomes much like 53.4 - 54.9.	tr cpy, tr py

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.				
21216	46	51	5	T				
21217	51	56	5	T				W. core
21218	56	61	5	T				"
21219	61	66	5	T				
21220	66	71	5	T				
21221	71	76	5	T				
21222	76	81	5	T				
21223	81	86	5	T				
21224	86	91	5	T				
21225	91	96	5	T				
21226	96	101	5	.005				
21227	101	106	5	T				
21228	106	111	5	T				
21229	111	116	5	T				
21230	116	121	5	T				
21231	121	126	5	T				
21232	126	131	5	T				
21233	131	136	5	T				
21234	136	141	5	T				
21235	141	146	5	T				
21236	146	151	5	T				
21237	151	156	5	T				
21238	156	161	5	T				
21239	161	166	5	T				
21240	166	171	5	T				
21241	171	176	5	T				
21242	176	181	5	T				
21243	181	186	5	T				
21244	186	191	5	T				
21245	191	196	5	T				
21246	196	201	5	T				
21247	225	230	5	T				
21248	250	255	5	T				
21249	265	270	5	T				
21250	270	275	5	T				
21251	275	280	5	T				
21252	280	285	5	T				
21253	285	290	5	T				
21254	290	295	5	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
				21255	295	300	5	T
61.9	78.0	INTERMEDIATE FLOW (2a)	tr py	21256	300	305	5	T
		A massive light grey-grey-brown med. grained. Biotized in specific		21257	305	310	5	T
		areas. The core has minor veinlets running through it. Where fracture		21258	310	315	5	T
		the rock has much chlorite lining , the fractures. This unit is relatively		21259	315	320	5	T
		homogeneous. Min. tr py found in diss. through the rock.		21260	320	325	5	T
				21261	350	355	5	T
78.0	114.4	CHLORITE ZONE (5a)	1% - tr py, 1%-tr po	21262	370	375	5	T
		The unit starts off as being a small mafic flow of 3". The chlorite zone	tr cpy	21263	390	395	5	T
		is mafic rock generally coarse grained generally light green in colour		21264	395	400	5	T
		where chloritized otherwise retaining the original dark green colour		21265	415	420	5	T
		common to the mafics. Fractures are heavily chloritized and are		21266	445	450	5	T
		generally min. with po, py. Along some of the fractures limonite staining		21267	470	475	5	T
		can be seen. Throughout the unit diss. of py, cpy and po can be found.		21268	485	490	5	T
		85.0 -89.6: Biotitic chlorite zone.		21269	515	520	5	T
		Same as the above only heavy biotization		21270	542	547	5	T
		has accompanied the chloritization foliation		21271	560	565	5	T
		at 50° to C.A., Non-mineralized.						
		86.0 - 114.4: More mafic version of the chlorite zone						
		along fractures heavy chloritization and						
		good min. of py and po. From 96 - 98						
		heavily fractured rock py and po are found						
		in tr diss. through this zone.						
114.4	117.2	FELSIC PORPH. (4a)	tr cpy, tr po.					
		At the top of this section we have a 2" heavy chloritization zone contact						
		with the above at 40° to C.A. This is followed by a zone of biotitically						
		altered rock 2" whose bottom contact with the felsic porph is at 30°C.A.						
		The felsic porph is highly silicic fine grained, grey in colour with						
		phenoc. of ¼" diameter of quartz and feldspar. Mineralization is generally						
		diss. tr cpy seen, po in tr amount. The rock is weakly fractured and						
		chl. altered. Within the felsic core there seems to be some mafic						
		fragments that are foliated at 40° to C.A.						
117.2	197.3	TALC-CARBONATE (6a)						
		A highly altered, coarse grained, light green unit - dark green. This						
		unit contains much pyroxene. The unit is very massive , non-min..						
		The fractures are healed by chlo. the last 6" of this unit are very						
		heavily chloritized.						
197.3	200.5	SHORT MAFIC FLOW (1a)	tr py					
		A very coarse grained black, grey, carb. rich. In addition, there are						
		many tremolite crystals. This unit is generally massive non-bio.						
		There is a tr of diss. py. The lower contact is 45° to C.A.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
200.5	209.0	INTERMEDIATE FLOW (2a) A fine grained siliceous brownish grey unit. The unit contains much carb. This unit is chloritized and bio. Tr po in unit. Along the fracture have talc-carb. and chlorite. The unit is generally massive. This unit compositionally grades into a mafic flow.	tr po					
209.0	215.8	MAFIC FLOW (1a) A fine grained, black coloured rock. Biotization is weak. Phenos. of quartz 1/8" diameter occur within this unit. Along fractures chlorite alt. is strong. Tr py in the unit and along fractures. Bottom contact at 35° to C.A.	tr py					
215.8	243.1	FELSIC FLOW (4a) A fine grained extremely silicic, grey coloured rock that has a pinkish tinge in places. In places the rock comp. grades into intermediate for a short 1' section. At 217.9 have a short 8" mafic flow at 220.4 - 221.8 have another short mafic unit. Quartz vein at 217.9 contains tr diss. py. Fractures in the unit are chloritized and min. with py in some cases. At 226.5 have intermediate felsic flow contact occurring at 25° to C.A. This inter. unit extends from 226.5 - 229.3. From 240 - 243.1 have a comp. change in the unit.						
243.1	244.1	MAFIC FLOW (1a) Coarse grained dark coloured chloritized non-bio. unit. non-min.						
244.1	248.2	FELSIC FLOW (4a) A relatively homogeneous fine grained felsic-inter. unit. Light grey in colour with a pinkish tinge. It has in places tr bio. The fractures are weakly chl. and in some cases are min. with 5% py.	tr py					
248.2	250.2	BIOTITE RICH FELSIC FLOW (4a) A felsic rock comp. with diss. bio. flakes. Unit is light grey-white with green biotite. Unit is homogeneous non.-min.						
250.2	251.0	INTERMEDIATE FLOW (2a) A short sequence comp. similar to 200.5 - 209.						
251.0	251.1	BIOTITE RICH FELSIC FLOW (4a) Similar to 248.2 - 250.2. top contact at 40° to C.A.						
251.1	252.0	FELSIC FLOW (4a) - Similar to 244.1 - 248.2. Top contact at 40°C.A.						
252.0	253.6	BIOTITE RICH FELSIC FLOW (4a) Similar to 200.5 - 209.						
253.6	255.2	FELSIC FLOW (4a) Top contact at 30° to C.A.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
255.2	257.2	INTERMEDIATE - MAFIC FLOW (2a - 1a) Coarse-med. grained, grey coloured with black. Biotization weak - mod. Non-min. Unit is heavily chl. in last 4". Bottom contact at 50° to C.A.						
257.2	263.0	FELSIC/INTER. FLOW (4a - 2a) A cyclic sequence of alternating Inter. and felsic rock at 259.3 - 260.0. is a short mafic sequence. In the last 8" have the inclusion of mafic fragments within the felsic flow.						
263.0	266.9	MAFIC FLOW (4a) Has a top contact at 50° to C.A. Unit is fine grained mafic, chloritically altered, has smallcross-cutting veins tr diss. py. Non-bio.	tr py					
266.9	269.5	FELSIC FLOW (4a) Comp. and physically similar to 244.1 - 248.3. Biotite rich in places for short 6" lengths.						
269.5	318.0	TALC-CARBONATE (6a) Similar to 117.2 - 197.3. Unit is highly fractured from 294.6 - 318.						
318.0	324.3	MAFIC FLOW (1a) A coarse grained dark green - black. tr bio. tr py, in diss. 1' of the section from 321.7 - 322.7 is talc-carb. Unit grades into a pyroxenite.						
324.3	392.6	PYROXENITE (6d) A coarse grained. dark grey-black rock, generally massive in form. Pyroxene crystals are well defined upto $\frac{1}{4}$" in diameter rock whole fractured is heavily chloritized.						
392.6	399.6	MAFIC TALC-CARB. UNIT (1a-6a) A short unit which features the two rocks mixed together carb. is predominant from 393 - 396.8. Mafic flow is a med. coarse grained chl. altered dark rock.						
399.6	409.5	PYROXENITE (6d) Unit is comp. similar to 324.3 - 392.6 but in this case there seems to be more pyroxene crystals forms than previous.						
409.5	439.1	GABBRO (6c) A massive, non-mag. dark coloured rock. Seen to consist of pyroxene amphiboles and feldspar and tremolite.						
439.1	457.7	PYROXENITE (6d) Similar to 324.3 - 392.6						

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
457.7	463.5	MAFIC FLOW (1a) A coarse grained dark greenish coloured chl. altered non-min. massive flow unit.						
463.5	471.8	GABBRO (6c) A very coarse grained dark coloured pyroxene and amph. feldspar rock. Generally massive and non-min. In this unit is seen some reddish k-spar veining. Vein is irregular and $\frac{1}{4}$" in thickness.						
471.8	491.4	SILICIFIED MAFIC FLOW (1a) A silicified mafic flow. Flow is med. grained generally dark coloured. k-spar blebs are found diss. Also q.v. contain k-spar. This vein is barren. Fine py in tr diss. amount.	tr py					
491.4	543.7	GABBRO (6c) Similar to 409.5 - 439.1. have good development of tremolite crystals. Some q.v. are min. with tr py. Unit from 425 on seems to be more mafic in content than Gabbroic. From 516.7 - 518. have a cherty tuff unit with cross-cutting q.v. tr diss. py. At the end of the unit this unit resembles a tuff.	tr py					
543.7	545.7	FELSIC - CHERTY TUFF UNIT (4a) A fine grained silica rich unit light grey to med. grey in colour. Unit contains tr diss. of py in stringers and diss. in the core.						
545.7	577.0	MAFIC FLOWS (1a) Comprised of two distinct units. 545.7 - 552.4: fine grained, highly chl., non-bio. dark green coloured, non-min. section generally massive. with a flow contact at 60° to C.A. 552.4 - 557.0: COARSE GRAINED MAFIC with good amphibole development, weakly chl. tr py slightly biotized.	tr py					
	557.0	END OF HOLE						

0-300 +9.5
300-600 +5
600-850 +0

850-937
35.5

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

No Tropari Test

						DIP TEST					
PROPERTY	DETOUR LAKE	LATITUDE	182 + 00E	STARTED	May 3rd, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	38 - 41	DEPARTURE	198 + 00N	FINISHED	May 12th, 1975	200'	49.5°	800'	40°		
BEARING	180°	ELEVATION		LENGTH	937'	400'	48.0°	900'	35.5°		
DIP-COLLAR	-45° S (50°)	SECTION		LOGGED BY	P. BROWN	600'	NOT TAKEN				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
0	106	OVERBURDEN		13946	106.0	108.0	2.0	.01		.04		V.G.
				13947	108.0	113.0	5.0	.01				
106	198	MAFIC TUFF MAINLY		13948	113.0	118.0	5.0	T				
		106 - 128: Mafic Tuff. Medium grained to coarse grained rock which is dark grayish green in colour, with moderate chlorite alteration.		13949	118.0	123.0	5.0	T				
				13950	123.0	128.5	5.5	T				
				13951	300.0	305.0	5.0	T				
		10 This section has only 4 qtz. veins >1cm in width and very few <1cm. These veins occur		13952	128.5	132.5	4.0	T		.04		V.G.
				13953	132.5	135.5	3.0	T				
		at 107.5; 110.5; 115 and 126. V.G. in the		13954	135.5	139.0	3.5	.01				
		translucent quartz vein at 107.5. The 3-4		13955	139.0	140.0	1.0	.06				
		cm vein at 110.5 has been 20% filled with		13956	140.0	145.0	5.0	.01				
		pyrite. No visable mineralization in the other		13957	145.0	150.0	5.0	T				
		quartz veins and in the mafic rock there are		13958	150.0	155.0	5.0	T				
		only a few blebs of mineralization. Most are		13959	155.0	160.0	5.0	T				
		too small to be identified. However, most		13960	160.0	165.0	5.0	T				
		likely Po and Py. Around the quartz vein at		13961	165.0	170.0	5.0	T				
		126' there is moderate biotite alteration.		13962	170.0	175.0	5.0	T				
		As one approaches 128' the rock becomes		13963	175.0	180.0	5.0	T				
		slightly more intermediate and finer grained		13964	180.0	185.0	5.0	.23	.28	.08		V.G.
		as well as a lighting of the colour.		13965	185.0	190.0	5.0	.33	10'			
		128 - 131: A band of intermediate tuff with abundant		13966	190.0	195.0	5.0	.01				
		biotite alteration. At 129.3' there is a 5"		13967	195.0	200.0	5.0	T				
		section that is just about massive Po with		13968	200.0	205.0	5.0	.01				
		minor Cp. The Po is conformable with the		13969	205.0	210.0	5.0	T				
		intermediate tuff beds above and below it.		13970	210.0	215.0	5.0	T				
		The Po itself is surrounding fragments of		13971	215.0	220.0	5.0	T				
		tuff. The tuff appears to be caught up in the		13972	220.0	225.0	5.0	T				
		sulfides as it flowed down slope from the		13973	225.0	230.0	5.0	T				
		source. Contact between the tuff and the		13974	230.0	235.0	5.0	T				
		sulfides is 70°. More sulfides however very		13975	235.0	240.0	5.0	.03				
		disseminated occur either side of this zone		13976	240.0	245.0	5.0	T				
		for a distance of a foot.		13977	245.0	250.0	5.0	.01				
		131 - 137: Mafic Volcanics: Relatively coarse grained		13978	250.0	255.0	5.0	T				
		Dark grayish green rock with a streak		13979	255.0	260.0	5.0	T				
		appearance. The streaky appearance is due		13980	260.0	265.0	5.0	.01				
		to calcite stringers. There is only trace		13981	265.0	270.0	5.0	T				
		mineralization No Cp.		13982	270.0	275.0	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
106	198	CONTD.		13983	275.0	280.0	5.0	.01				
		137 - 152: Dark grayish green. Medium grained to fine grained Mafic Volcanic Tuff with minor interbedded flow. This section doesn't have a streak appearance. Few quartz veins. Minor disseminated Po and Py. At 130.5 3-4 cm quartz vein that contains a grayish black metalic mineral. (Name?)		13984	280.0	285.0	5.0	T				
				13985	285.0	290.0	5.0	T				
				13986	290.0	293.0	3.0	T				
				13987	293.0	297.0	4.0	T				
				13988	297.0	300.0	3.0	T				
				13989	305.0	310.0	5.0	.13				
				13990	310.0	315.0	5.0	T				
		152 - 154: Fine grained dark gray intermediate volcanic tuff. Has dissemimated blebs of Py. No quartz veining.		13991	315.0	320.0	5.0	.03				
				13992	320.0	325.0	5.0	.13		.04	.006	V.G.
				13993	325.0	330.0	5.0	T		.03	.004	
		154 - 198: Dark grayish green to black coarse grained Mafic Volcanic Tuff. Poor foliation but what can be seen is at 60° to C.A. Sulfides occur at 170' in a 3-4cm band of quartz Py and Po. At 181' in a 7-8cm of quartz with some of the same metalic mineral that occurs at 130.5. Also V.G. 2 or 3 specks. Fragments in the section 192 - 194 are up to ½cm. Fairly abundant chlorite alteration and some biotite alteration around the quartz veins.		13994	330.0	335.0	5.0	1.17				
				13995	335.0	340.0	5.0	T				
				13996	340.0	345.0	5.0	.005				
				13997	345.0	350.0	5.0	.14				
				13998	350.0	355.0	5.0	.06				
				13999	355.0	360.0	5.0	.01				
				14000	360.0	365.0	5.0	.04				
				14731	365.0	370.0	5.0	.01				
				14732	370.0	375.0	5.0	.02				
				14733	375.0	380.0	5.0	.08				
				14734	380.0	385.0	5.0	.06		.20	.007	V.G.
198	270	Dark greenish gray fine grained massive intermediate to mafic volcanic flow. Carbonate filling around a few irregular fractures. Very minor disseminated Py. 1-2cm band of Py at 235.5; 2cm band at 237; ½cm band of Py in quartz vein at 247.4 and ½ cm band of Py at 261. There is an increase in biotite alteration adjacent to the sulfide bands. The flow appears to be more intermediate at 265, however this exact contact with the definately intermediate flow unit below is questionable, somewhere around 270'.		14735	385.0	390.0	5.0	.02				
				14736	390.0	395.0	5.0	.02				
				14737	395.0	400.0	5.0	.06				
				14738	400.0	405.0	5.0	.03				
				14739	405.0	410.0	5.0	T				
				14740	410.0	415.0	5.0	T				
				14741	415.0	420.0	5.0	T				
				14742	420.0	425.0	5.0	T				
				14743	425.0	430.0	5.0	T				
270	282	Fine grained massive dark grayish green intermediate flow. This section has moderate chlorite alteration. Mineralization is just about nil except for a few isolated blebs of Py. There are also very few quartz veins. contact with the underlying chert is about 45°.		14744	430.0	435.0	5.0	.005				
				14745	435.0	440.0	5.0	T				
				14746	440.0	445.0	5.0	T				
				14747	445.0	450.0	5.0	T				
				14748	450.0	455.0	5.0	T				
282	285	CHERT MAIN HORIZON Mainly pale green in colour. However purple for the first inch at the upper contact and the last 2" at the lower contact as well as an 8" section between 283 - 283.7. There are very few quartz veins and these are only 1-3mm in width. Very very minor Py along some of the fractures, no other mineralization.		14749	455.0	460.0	5.0	.009				
				14750	460.0	465.0	5.0	.01				
				14751	465.0	470.0	5.0	T				
				14752	470.0	475.0	5.0	.01				
				14753	475.0	480.0	5.0	T				
				14754	480.0	485.0	5.0	T				
				14755	485.0	490.0	5.0	T				
285	287.3	Intermediate flow: Same as the intermediate flow unit 270 - 282. Contact with the overlying chert is 50°.		14756	490.0	495.0	5.0	T				
				14757	495.0	500.0	5.0	T				
				14758	500.0	505.0	5.0	T				
287.3	288.3	Chert: Same as chert unit above. Upper contact about 70°. Lower contact about 55°. No mineralization. This unit is somewhat fractured with irregular small quartz veins; 1-3mm in width.		14759	505.0	510.0	5.0	T				
				14760	510.0	515.0	5.0	.02				
				14761	515.0	520.0	5.0	.01				
				14762	520.0	525.0	5.0	T				
				14763	525.0	530.0	5.0	T				
				14764	530.0	535.0	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	Ag	Cu	Zn
288.3	293	Dark grayish green massive fine grained intermediate flow. A few small irregular quartz veins at 291 - 292. No mineralization. This section has moderate chlorite alteration.		14765	535.0	540.0	5.0	T			
				14766	540.0	545.0	5.0	T			
				14767	545.0	550.0	5.0	T			
				14768	550.0	555.0	5.0	T			
293	297	This unit is the same as the 277 - 282 unit in Hole 38 - 39. Medium grained (grains up to 3mm) Dark grayish mafic rock. Maybe a distinctive flow. (called a possible Dike in hole 38 - 39). Composition approximately 50% light coloured minerals and 50% dark coloured minerals. Very few quartz veins and no mineralization. This unit has a possible chilled margin.		14769	555.0	560.0	5.0	N			
				14770	560.0	565.0	5.0	N			
				14771	565.0	570.0	5.0	N			
				14772	570.0	575.0	5.0	N			
				14773	575.0	580.0	5.0	N			
				14774	580.0	585.0	5.0	T			
				14775	585.0	590.0	5.0	T			
297	361	Dark grayish green. Massive mafic to intermediate flow mainly with a few bands of tuff. The concentration of quartz veining varies throughout the section as well as the sulfide mineralization. Possible V.G. in quartz vein at 320.8. The section has moderate chlorite alteration throughout with biotite alteration mainly concentrated adjacent to quartz veining. The mineralization consist of < 6" section where the sulfides are concentrated however these zones are not massive sulfides but 20-40% sulfides. These zones occur at - 325' Po and Py, 330' - 331' Po and Py and minor Cp. 340' a one inch band of leached Py. Throughout the whole section from 297' to 361' there are minor blebs of Po and Py. A few sections are quite chloritic, such as 340' - 341'.		14776	590.0	595.0	5.0	N			
				14777	595.0	600.0	5.0	T			
				14778	600.0	605.0	5.0	T			
				14779	605.0	610.0	5.0	T			
				14780	610.0	615.0	5.0	T			
				14781	615.0	620.0	5.0	T			
				14782	620.0	625.0	5.0	T			
				14783	625.0	630.0	5.0	.02			
				14784	630.0	635.0	5.0	.01			
				14785	635.0	640.0	5.0	T			
				14786	640.0	645.0	5.0	T			
				14787	645.0	650.0	5.0	.02			
				14788	650.0	655.0	5.0	.01			
				14789	655.0	660.0	5.0	T			
361	382	Fine grained greenish gray intermediate to mafic tuff with some mafic flows and a few chloritic sections usually 6" or less however a 2' section exist between 371' and 373', with the last 6" being quite talcy. The tuff bands are about 70° with C.A. Mineralization consist of disseminated Py and some Po with a slight ly greater concentration in the more altered areas. Biotite alteration is common throughout this section. The abundance of quartz veins is low and the veins cut the section at highly varying angles.		14790	660.0	665.0	5.0	T			
				14791	665.0	670.0	5.0	T			
				14792	670.0	675.0	5.0	T			
				14793	675.0	680.0	5.0	T			.005
				14794	680.0	685.0	5.0	T			.003
				14795	685.0	690.0	5.0	T			.004
				14796	690.0	695.0	5.0	T			.005
				14797	695.0	700.0	5.0	T			.005
				14798	700.0	705.0	5.0	T			.005
382	385.5	Cherty Horizon, with two 5-6inch section of massive sulfides. One at 382 - 382.5 and the other at 384 - 384.4. Possible V.G. at 384.7.	382-385.5 3% Po, 3% Py and 1% Cp.	14799	705.0	710.0	5.0	T			.006
				14800	710.0	715.0	5.0	T			.008
				14901	715.0	720.0	5.0	T			
385.5	405	Fine grained medium gray felsic tuff (Rhyolitic Tuff) mainly fine grained grayish green intermediate to mafic tuff between 393.5 and 397. The mafic unit is somewhat chloritic. Very few quartz veins occur in the felsic unit along with almost nil mineralization. The intermediate to mafic units has a few more quartz veins than the felsic units as well as some disseminated Py.		14902	720.0	725.0	5.0	T			
				14903	725.0	730.0	5.0	0.01			
				14904	730.0	735.0	5.0	0.005			
				14905	735.0	740.0	5.0	T			
				14906	740.0	745.0	5.0	T			
				14907	745.0	750.0	5.0	0.005			
				14908	750.0	755.0	5.0	T			
405	422	Fine grained greenish gray chlorite rock intermediate to mafic tuff. Foliation about 70° to C.A. Very few quartz veins and no apparent mineralization.		14909	755.0	760.0	5.0	T			
				14910	760.0	765.0	5.0	T			
				14911	765.0	768.0	3.0	T			
				14912	768.0	775.0	7.0	0.01			
422	425.7	Banded light to dark gray fine grained felsic tuff (Rhyolitic tuff). Banding at 60° with C.A. No quartz veins and very minor disseminated fine grained pyrite.		14913	775.0	780.0	5.0	T			
				14914	780.0	785.0	5.0	T			
				14915	785.0	790.0	5.0	T			
				14916	790.0	795.0	5.0	T			
				14917	795.0	800.0	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.
425.7	430	Fine grained grayish green chlorite rock intermediate to mafic flow. Very few quartz veins and very, very minor pyrite mineralization.		14918	800.0	805.0	5.0	T			
				14919	805.0	810.0	5.0	T			
				14920	810.0	815.0	5.0	T			
430	435	Fine grained banded at top light to dark gray felsic tuff (Rhyolitic Tuff). Minor disseminated Py in the bottom foot of this section very few quartz veins.		14921	815.0	820.0	5.0	T			
				14922	820.0	825.0	5.0	T			
				14923	825.0	830.0	5.0	T			
				14924	830.0	835.0	5.0	T			
435	443	Medium grained grayish green intermediate flow. Very minor quartz veining, moderate chlorite alteration and slight biotite alteration. Minor disseminated Py throughout.		14925	835.0	840.0	5.0	T			
				14926	840.0	845.0	5.0	T			
				14927	845.0	850.0	5.0	T			
				14928	850.0	855.0	5.0	T			
443	452.5	Medium to dark gray fine grained felsic tuff (Rhyolitic Tuff) with a cherty section between 450 and 452.5. The chert is pale purple where it contacts with the units above and below it. Between 451 and 452 the chert is semi-translucent. Minor disseminated pyrite scattered throughout but mainly in the felsic rocks.		14929	855.0	860.0	5.0	T			
				14930	860.0	865.0	5.0	T			
				14931	865.0	870.0	5.0	T			
				14932	870.0	875.0	5.0	T			
				14933	875.0	880.0	5.0	T			
				14934	880.0	885.0	5.0	NIL			
452.5	487	Mainly fine grained chloritic rock. (Possible altered intermediate flow) There is a band of intermediate to felsic rock between 470 - 473. The chloritic rock is a light grayish green in colour and the more felsic unit is light gray in the chlorite unit there are some slightly talcy sections with Talc, actinolite and tremolite. No mineralization and only minor disseminated Py in the more felsic unit. Foliation about 70° with C.A.		14935	885.0	890.0	5.0	T			
				14936	890.0	895.0	5.0	T			
				14937	895.0	900.0	5.0	T			
				14938	900.0	905.0	5.0	T			
				14939	905.0	910.0	5.0	NIL			
				14940	910.0	915.0	5.0	NIL			
				14941	915.0	920.0	5.0	NIL			
487	494	Serpentinized unit. Soft dark grayish green talcy rock with actinolite and tremolite as well as talc. There is also some chlorite. This section is quite crumbly in places. Foliation about 50° with C.A. Very minor quartz veining and very minor disseminated Py.		14942	920.0	925.0	5.0	NIL			
				14943	925.0	930.0	5.0	NIL			
				14944	930.0	935.0	5.0	T			
				14945	935.0	937.0	2.0	T			
494	508	Chloritic Alteration Zone. Same as 452.5 - 487. Foliation about 60°. (Possible altered flow?) Very few quartz veins and almost Nil mineralization.									
508	537	Fine grained to medium grained grayish green intermediate to mafic tuff. Chlorite alteration throughout and there is also an increase in biotite alteration, very minor quartz veining and very, very minor disseminated fine grained Py.									
537	542	Dark gray fine grained felsic cherty tuff. With some Py at 539. Tuff beds are 45° to 50° with C.A. Moderate biotite alteration around the quartz veins.									
542	557	Fine grained grayish green intermediate to mafic flow (very chloritic) (From 350.2 - 350.7 there is an intermediate band very fine grained and lighter grayish green in colour). The only quartz veins are 1-2mm in width and there is no apparent mineralization. Foliation 60° with C.A.									
557	565	Fine grained medium grayish green intermediate to mafic tuff. Abundant chlorite alteration. Much of this section has carbonate and sericite alteration. The quartz veins are usually 1-2mm and cut the core axis at irregular angles. No Mineralization.									

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
565	591	Fine grained grayish green intermediate to mafic flow. Chlorite alteration is quite intense in places. Quartz veins are very few and very thin. The only mineralization is very disseminated fine grained Py.						
591	593.5	Fine grained grayish green felsic flow. For the first 1.5'. For the last 1 foot there is a mixture of mafic to intermediate and felsic material with irregular contacts. (Possibly a jumbled flow). No quartz veins, and only a few specks of disseminated Py.						
593.5	610.3	Fine grained dark green massive mafic flow. Very few quartz veins, 1-2mm in width. Foliation about 70° with core axis. Abundant chlorite alteration Some carbonate and sericite alteration. In the last four feet very minor disseminated Py but 608 - 609 has a slightly greater concentration.						
610.3	652	Interbedded felsic and mafic flows. (Some of the mafic flows have been almost completely altered to chlorite. Felsic Flow — Mafic flow 610.3 - 613 — 613 - 616 616 - 617.5 — 617.5 - 621.3 621.3 - 624 — 624 - 625 625 - 627 — 627 - 629 629 - 632 — 632 - 633.5 633.5 - 635 — 635 - 635.5 635.5 - 636.3 — 636.3 - 640.5 640.5 - 641 — 641 - 643 643 - 643.5 — 643.5 - 646.5 646.5 - 652 The felsic units are fine grained and light to medium gray in places these units are quite cherty. Quartz veining is just about absent and the only mineralization is very minor disseminated Py. Possible banding at 60° to core axis. Mafic flow: Fine grained medium grayish green and very few quartz veins and even contains less mineralization than the felsic units.						
652	653.2	1-2 foot section of completely chloritized rock. (Possible fine grained mafic flow).						
653.2	655.3	Light gray felsic tuff. Fragments 3-4cm matrix chlorite altered mafic rock. Disseminated Py 1%.	653.2 - 655.3 Py 1%					
655.3	657.3	Medium grayish green chloritic rock. No quartz veins and no mineralisation (original rock?)						
657.3	661.5	Felsic tuff. Foliation about 50° with core axis.	657.3-661.5 Py about 1%					
661.5	679	Medium grained dark grayish green intermediate to mafic flow. Highly chloritized. Very minor quartz veining and only minor disseminated Py.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
679	793	INTERBEDDED FELSIC AGGLOMERATE AND FELSIC TUFF						
		FELSIC AGGLOMERATE — FELSIC TUFF						
		679 - 692.5 — 692.5 - 694						
		694 - 704.5 — 705 - 706						
		706 - 731.5 — 731.5 - 733.2						
		(733.2 - 736.5 Mafic flow)						
		— 736.5 - 743						
		743 - 754 — 754 - 756.3						
		756.3 - 767.4						
		(767.4 - 769.5 Brecciated rock)						
		769.5 - 773.3 — 773.3 - 775.3						
		775.3 - 780.4 — 780.4 - 780.7						
		780.7 - 785.5 — 785.5 - 790.5						
		790.5 - 791.7 — 791.7 - 794.2						
		Felsic Agglormerate: Fragments upto 2-3cm. Light milky pink colour. The pinkish or (Reddish) fragments tend to increase in numbers downhole. Groundmass fragments mafic chloritic rock. No quartz veining and only minor disseminated Py. The lapilli vary in size however there isn't enough grading to say which direction is to the top of the flow. Contacts are sharp usually about 50° - 55° with core axis. The felsic units are fine grained and light to medium gray in colour. (Rhyolite tuff) and in a few places look quite cherty. The more cherty units occur at 780.5 for 5 inches. and 789 - 790.5. The only mineralization is minor disseminated Py. No significant quartz veining. The mafic flow which occurs between 733.2 and 736.5 is fine grained and dark grayish green with sharp contacts about 60° with C.A. No quartz veining and only a few blebs of Py. Moderate chlorite alteration. The brecciated unit which occurs between 767.4 and 769.5 consist of felsic fragments upto 3" and in a groundmass of ground felsic and more mafic material. The actual contact is irregular. No mineralization.							
793	796	Fine grained dark grayish green, mafic flow. Highly chertized. The last foot appears to have fragments of felsic rock. Also some sericite and carbonate alteration. Foliation 45° to 50° with C.A. No quartz veining and no apparent mineralization.						
796	797.5	Felsic Tuff (Rhyolite tuff)						
797.5	803	A mixture of felsic and mafic fragments. The felsic material occurs as lapilli bombs. The mafic material is highly chloritic. A few irregular quartz veins and very, very minor Py mineralizations.						
803	826.7	Fine grained dark grayish green massive intermediate to mafic flow. Moderate chlorite alteration. No significant quartz veining and very, very minor disseminated Py.						

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
826.7	878	Coarse grained, dark green massive mafic flow. Mafic phenocrysts upto 4mm. Groundmass consists of altered feldspar grains. The feldspar appear to fill the areas in between the mafic grains rather than in phenocrysts. Mafic minerals moderately altered to chlorite. Minor epidote along a few small veinlets. A quartz vein from 876.6 - 876.8. No mineralization associated with the quartz vein. A few specks of Cp at 859 in a small quartz vein.						
878	921	Fine grained medium grayish green intermediate to mafic flow. Mainly with a few interbedded felsic units. Quartz veins cut the core axis at irregular angles but increasing in numbers. Very, very minor disseminated fine grained Py. Light gray felsic units occur at 915 - 916.2 Rhyolite tuff and 317.1 - 317.6 also Rhyolite tuff. Barren quartz vein at 908.4 - 909.3. Bedding 70° with C.A.						
921	922.8	Fine grained, felsic unit Rhyolite. Same as units above.						
922.8	937	Mainly medium grained, dark grayish green mafic flow. Minor disseminated Py, and a few specks of Cp. Moderate chlorite alteration. Rocks slightly magnetic.						
	937	END OF HOLE						

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

PROPERTY	DETOUR LAKES	LATITUDE	180 + 00 E	STARTED	May 13, 1975
HOLE NO.	38 - 44	DEPARTURE	198 + 00 N	FINISHED	May 25, 1975
BEARING	180° SOUTH	ELEVATION		LENGTH	567'
DIP-COLLAR	- 45°	SECTION		LOGGED BY	P. BROWN

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

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	74	OVERBURDEN	
74	229.2	INTERBEDDED MAFIC FLOW AND TUFF - Predominately Flow. Fine grained to medium grained dark grayish green in colour. Moderate chlorite alteration throughout, however it is greater in some places than others. Moderately quartz veined, with some mineralization associated with the veins. Biotite alteration is also present, however it is mainly concentrated around the quarts veins. Foliation is weakly defined by biotite and is usually between 50 and 60°. Quartz veins occur at : 75.0' - 2". V.G. 75.1' - ½"; 85.0' - 1"; 87.6' - 87.7' - 1"; 106.0'-1.25"; 107.5'-11"; 116.2'-116.3'-1.25"; 122.5' - 122.6' - 1.5"; 127.0' - 3/4"; 127.6' - 127.7' - 1.5"; 134.0'- 1"; 140.4' - 140.7' - 4½"; 161.7' - 161.8' - 1.65"; 164.3'-164.45' - 1.5"; 173.7' - 1"; 173.9' - ½"; 176.0' - 1"; 186.0 - 186.3' - 3.5"; 187.3' - 187.5' - 2"; 194.9' - 195.15' - 2.75"; 204.0' - 1". Minor disseminated py occurs throughout the section however there are a few places where it appears to be more concentrated, usually next to quartz veins. (Eg. 164.3, 187.3 and 186.0). A few specks of cp also occur in this section, however there isn't enough to analyse for Cu.	
229.2	233.2	CHERTY TUFF Fine grained pole purple cherty tuff. No visible mineralization. Has numerous fractures all at irregular angles that display a milky white boundry 2-3mm either side of the hairline fractures. Contacts are sharp upper 60° with C.A., Lower 75° with C.A.	
233.2	326.7	INTERMEDIATE TO MAFIC FINE GRAINED DARK GREY GREEN. Flow with a streaky appearance. There are several 1'-2' sections that quite chloritic. (233.3 - 234.3 and 239.8 - 241.7). The distinct flow unit mintioned in 38 - 39 and 38 - 41 also occurs in this hole at 251 - 253.6 and is fine grained to medium grained, dark gray in color. There is an increase in biotite alteration from 307. Foliation defined by Bi. at 45° - 50° with C.A. Mineralisation minor disseminated Py and Po, slight concentration next to quartz veins at:	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
6213	74.0	75.0	1.0					V.G.
6102	75.0	80.0	5.0	0.27				
6103	80.0	85.0	5.0	T				
6104	85.0	90.0	5.0	T				
6105	90.0	95.0	5.0	T				
6106	95.0	100.0	5.0	T				
6107	100.0	105.0	5.0	T				
6108	105.0	108.0	3.0	T				
6109	108.0	113.0	5.0	N				
6110	113.0	116.0	3.0	T				
6111	116.0	117.0	1.0	0.005				
6112	117.0	122.0	5.0	T				
6113	122.0	123.0	1.0	T			.008	
6114	123.0	127.0	4.0	N				
6115	127.0	128.0	1.0	0.02				
6116	128.0	133.0	5.0	0.01				
6117	133.0	134.0	1.0	0.04				
6118	134.0	138.0	4.0	T				
6119	138.0	140.0	2.0	T				
6120	140.0	141.0	1.0	T				
6121	141.0	146.0	5.0	T				
6122	146.0	151.0	5.0	T				
6123	151.0	156.0	5.0	T				
6124	156.0	161.0	5.0	0.01				
6125	161.0	162.0	1.0	T				
6126	162.0	167.0	5.0	0.01			.007	
6127	167.0	172.0	5.0	N				
6128	172.0	177.0	5.0	T				
6129	177.0	182.0	5.0	T				
6130	182.0	186.0	4.0	T				
6131	186.0	187.0	1.0	0.05				
6132	187.0	192.0	5.0	T				
6133	192.0	195.0	3.0	T				
6134	195.0	196.0	1.0	0.04			.007	
6135	196.0	201.0	5.0	T				
6136	201.0	206.0	5.0	0.01				
6137	206.0	211.0	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
233.6	326.7	CONTD.		6138	211.0	216.0	5.0	T				
		266, also Trace cp at 268.5.		6139	216.0	221.0	5.0	0.01				
		At 268.5 the Py is leached; 122.5 few specks of cp in quartz vein with py.		6140	221.0	226.0	5.0	T				
		134 smear of cp in quartz vein with py. 164 trace of cp in quartz vein with py		6141	226.0	229.0	3.0	T				
		py. 243 trace cp and minor py in a very irregular shaped quartz vein.		6142	229.0	233.0	4.0	T				
		Py in quartz vein at 281.		6143	233.0	238.0	5.0	T				
		290 - 293 quite chloritic. 1.5" quartz vein at 311.		6144	238.0	243.0	5.0	T				
				6145	243.0	248.0	5.0	T				
326.7	365.2	FINE GRAINED INTERMEDIATE TO MORE FELSIC TUFF AND FLOW.	326.7-324 $<\frac{1}{2}$% Py. T cp	6146	248.0	253.0	5.0	T				
		Intermediate Tuff and flow interbedded to 343' from 343' to 365.2' the	334-347 $1\frac{1}{2}$% Py. Tr cp	6147	253.0	258.0	5.0	0.16				
		unit becomes a more felsic tuff.		6148	258.0	263.0	5.0	T				
		Most of the mineralization occurs here and explains the geophysical	347-357 1% Py. Tr cp	6149	263.0	268.0	5.0	T				
		anomaly on line 180+00E.		6150	268.0	269.0	1.0	0.11				
		The mineralization is mainly Py with minor Po and Trace cp.	357-360.5 4% Py + Tr Cp	6151	269.0	274.0	5.0	T				
		The intermediate tuff is fine grained and greenish gray (brown) in color.	360.5-363 $<$1% Py + Tr cp	6152	274.0	279.0	5.0	0.01				
		The brown colour is due to the very heavy biotite alteration. Chlorite	363-365 3-4% Py + $\frac{1}{2}$% cp	6153	279.0	284.0	5.0	0.02				
		alteration is moderate. Although the Py appears conformable with		6154	284.0	289.0	5.0	0.01				
		possible bedding which is at 60°-70°. with C.A., however in several places		6155	289.0	294.0	5.0	T				
		it is quite jumbled, due to flowing or rolling down the slope from the		6156	294.0	299.0	5.0	T				
		vent source. Hence, the tuff has flow characteristics. The more felsic		6157	299.0	304.0	5.0	T				
		rocks increase down the section and at 365.2 they are felsic. From		6158	304.0	309.0	5.0	0.01				
		363.5 to 365.2 the section appearing to be a cherty tuff with $\frac{1}{2}$% cp.		6159	309.0	314.0	5.0	0.02				
		Beyond 365.2 the unit is felsic and contains no mineralization.		6160	314.0	319.0	5.0	T				
				6161	319.0	324.0	5.0	T				
365.2	375	Fine grained medium gray felsic tuff.		6162	324.0	329.0	5.0	0.01		.04	.005	All the
		Fragments $<$1mm possible bedding about 70° with C.A. The actual		6163	329.0	334.0	5.0	0.01		.10	.006	core sent
		contact is poorly defined. Very minor Py and only a slight trace of cp.		6164	334.0	337.0	3.0	0.04		.09	.004	out for
		Very minor quartz veining.		6165	337.0	342.0	5.0	0.01		.13	.005	analysis
				6166	342.0	347.0	5.0	0.72		.09	.006	from
375	388	Mainly dark green chloritized rock. Most likely a fine grained inter-	-	6167	347.0	352.0	5.0	0.09		.07	.004	6162 to
		mediate to mafic flow. Moderate Bi alteration and only 2 significant		6168	352.0	357.0	5.0	0.03		.07	.006	6171
		quartz veins. One at 380' (highly deformed) and a semi transparent one		6169	357.0	360.5	3.5	0.02		.12	.006	
		at 378' 2" wide. No mineralization.		6170	360.5	363.0	2.5	0.01		.11	.007	
				6171	363.0	365.0	2.0	0.09		.20	.006	
388	393.5	TALC CARBONATE ROCK		6172	365.0	370.0	5.0	0.05				
		Fine grained medium green in colour also chloritic and contains some Bi.		6173	370.0	375.0	5.0	T				
		Completely chloritic for the last foot. No quartz veining and no		6174	375.0	380.0	5.0	T				
		mineralization.		6175	380.0	385.0	5.0	T				
				6176	385.0	390.0	5.0	T				
393.5	407	Fine grained. Dark gray felsic tuff with a completely chloritized unit		6177	390.0	395.0	5.0	0.01				
		between 404.4 and 405.5. No quartz veining and no mineralization upper		6178	395.0	400.0	5.0	0.005				
		and lower contacts with chlorite units about 45° with C.A.		6179	400.0	405.0	5.0	0.005				
				6180	405.0	410.0	5.0	0.005				
407	409.4	Fine grained dark green chloritic unit which contains fragments of fine		6181	410.0	415.0	5.0	T				
		grained mafic rock upto 1"-$1\frac{1}{2}$" long and $\frac{1}{4}$" thick. Fragments at 40°toC.A.		6182	415.0	420.0	5.0	T				
				6183	420.0	425.0	5.0	T				
409.4	447	Dark gray. Talc Carbonate with a spotty appearance. Carbonate grains.		6184	425.0	430.0	5.0	T				
		upto 3mm. No quartz veining and no mineralization.		6185	430.0	435.0	5.0	T				
				6186	435.0	440.0	5.0	T				
447	447.3	Dark green fine grained completely chloritized rock.		6187	440.0	445.0	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
447.3	449.3	Fine grained. Medium gray intermediate tuff. Moderate biotite and chlorite alteration. Very very minor disseminated Py.	
449.3	450.2	Dark green fine grained completely chloritized rock.	
450.2	451.3	Talc carbonate. Same as unit above 409.4 to 447.	
451.5	461.3	Fine grained dark gray intermediate flow, mainly with a felsic section between 456.5 and 457.5. Moderate Bi alteration. Minor quartz veining at 460.2. Very minor disseminated Py. Foliation defined by Bi at 60° with C.A.	
461.3	466	Talc carbonate. Streaky carbonate throughout. Fine grained. Dark greenish gray. Highly crumbly. No quartz veining and no mineralization.	
466	476	Section has heavy chlorite and talc alteration. Questionable which is predominant, however between the two they have completely altered the original rock. No quartz veining and no mineralization.	
476	496.2	Intermediate tuff with several thin < 3" bands of chlorite. Abundant chlorite alteration and 1 large quartz vein at 489.6 - 489.7. Minor Py Mainly adjacent to quartz veins and some of the thin sections of chlorite. Abundant Bi which is alligned at 45° to C.A.	
496.2	513.3	Intermediate tuff down to 507 and flow to 513.3. Fine grained. Dark green to brown. Brown due to biotite alteration. There is also moderate chlorite alteration.. The intermediate tuff has fragments upto 1-2mm. Minor disseminate Py. usually along possoble bedding at 75° to C.A. Chlorite alteration increases down hole. Minor quartz vein at 507. From 507 - 513.3 the intermediate flow is fine grained and highly chloritized. No quartz veining and only a few specks of disseminated Py.	
513.3	567	Interbedded fine grained intermediate tuff and flow, and felsic flow and tuff. The intermediate units are dark green in colour and the felsic units are medium gray. INTERMEDIATE UNITS AT: 513.3 - 531.5; 532.4 - 538.2; 539.1 - 542; 546.5 - 549.1; 553 - 557; 562 - 567 FELSIC UNITS AT: 531.5 - 532.4; 538.2 - 539.1; 542 - 546.6; 549.1 - 553; 557 - 562 513.3 - 531.5: Fine grained to medium grained intermediate tuff. Fragments upto 3mm and are alligned about 55° with C.A. Chlorite alteration is fairly heavy throughout while biotite alteration is high. Very minor quarts veining. 1/3" quartz vein at 518.3 and very minor disseminated Py along possible bedding.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
6188	445.0	450.0	5.0	T			
6189	450.0	455.0	5.0	T			
6190	455.0	460.0	5.0	T			
6191	460.0	465.0	5.0	T			
6192	465.0	470.0	5.0	T			
6193	470.0	475.0	5.0	T			
6194	475.0	480.0	5.0	0.005			
6195	480.0	485.0	5.0	T			
6196	485.0	490.0	5.0	T			
6197	490.0	495.0	5.0	T			
6198	495.0	500.0	5.0	T			
6199	500.0	505.0	5.0	N			
6200	505.0	510.0	5.0	N			
6201	510.0	515.0	5.0	T			
6202	515.0	520.0	5.0	T			
6203	520.0	525.0	5.0	T			
6204	525.0	530.0	5.0	T			
6205	530.0	535.0	5.0	N			
6206	535.0	540.0	5.0	N			
6207	540.0	545.0	5.0	T			
6208	545.0	550.0	5.0	T			
6209	550.0	555.0	5.0	N			
6210	555.0	560.0	5.0	N			
6211	560.0	565.0	5.0	N			
6212	565.0	567.0	2.0	N			

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

PROPERTY DETOUR LAKES HOLE NO. 38 - 44 Page 4

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
513.3	567	CONTD.						
		531.5 - 532.4: Light to dark gray. Banded felsic flow (banded rhyolite) banding about 55°-60° to C.A. Contacts sharp and also about 55° to C.A. No quartz veining and minor disseminated Py.						
		532.4 - 538.2: Same as 513.3 - 531.5. Minor quartz veining and minor disseminated Py. Bottom contact 65° with C.A.						
		538.2 - 539.1: First 5" is cherty tuff and the rest is felsic flow. The cherty tuff is fine grained and contains a few specks of Py. Bottom contact sharp 70° with C.A.						
		539.1 - 542: Fine grained intermediate flow, highly chlorite. Minor quartz veining and minor disseminated Py. Bottom contact 70° with C.A.						
		542 - 546.5: Medium grained felsic tuff fragments upto 3mm. Alligned 60° with C.A. No quartz veining and minor disseminated py along bedding planes.						
		546.5 - 549.1: Intermediate tuff. Highly chloritic. Slight biotite alteration. No quartz veining and minor disseminated py. Bottom contact 45° with C.A..						
		549.1 - 553: Medium gray medium grained felsic tuff. Tuff fragments upto 3mm. No quartz veining and very minor disseminated Py. Bottom contact 40°.						
		553 - 557: Intermediate to Mafic flow, highly chloritic fine grained and massive, dark green in colour. No quartz veining and minor disseminated Py.						
		557 - 562: Medium grained medium gray felsic tuff. Fragments at 35° to C.A. and upto 3mm in size. Minor disseminated Py. Bottom contact 40° to C.A.						
		562 - 567: Intermediate to Mafic flow with the last 1.5' intermediate to felsic tuff. The flow is highly chloritic and contains minor disseminated Py and the tuff has abundant Bi. Alteration and Minor disseminated Py. Bedding 40° - 45° with C.A.						
		END OF HOLE						

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

				DIP TEST					
PROPERTY Lake Detour	LATITUDE 50°00	STARTED October 4, 1974	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO. DLO 74/37/1	DEPARTURE 790 41'	FINISHED October 6, 1974	200'	48°				
BEARING 180°	ELEVATION	LENGTH 400'	400'	42°				
DIP-COLLAR 45°	SECTION	LOGGED BY Robert Johnson						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	ASSAYS Ag	ASSAYS Cu	ASSAYS Ni
0	96'	Casing: 0 - 30' fine sand; 30-86' coarse gravel; 86'-96' bedrock									
96'	102'5"	med. gr. (3-5mm) mafic intrusive (gabbro); dark green; 85-70% chlorite as phenocrysts & smaller grains with finer grey plagioclase 10-25%; moderate-poor schistosity at 40° to core (dip 85°N); numerous veinlets and pods of calcite up to 30%; minor biotite in places; very minor small disseminated grains of py & po.	minor - tr py - po 50.1%	731	100	110	10	Nil	0.02		
				732	110	120	10	Nil	0.01		
				733	120	130	10	Nil	0.02		
				734	130	140	10	Nil	Nil		
				735	140	150	10	Nil	0.02		
				946	147.6	148.3	0.7	Tr		0.007	0.002
102'8"	105'6"	much as above but finer grained and more massive, fairly sharp upper and lower contacts; decrease in calcite	as above	736	150	160	10	Nil	0.02		
				737	160	170	10	Nil	0.02		
				738	170	180	10	Nil	0.01		
105'6	226'	gabbro as above; some large chlorite phenocrysts as well as narrow more massive layers (2"-3"); some narrow (1"-¼") qtz + calcite veins; is a general increase in size of chlorite phenocrysts & feldspar content with depth; minor - tr disseminated gr. and fine gr. pods of po with less py and a few specks of cpy; sulphide content never exceeds 0.2%.	po - py) tr. cpy) 0.2%)	947	162	162.5	0.5	Tr		0.012	0.002
				739	180	190	10	Nil	0.01		
				740	190	200	10	Nil	0.02		
				741	200	210	10	Nil	0.01		
				742	210	218.7	8.7	Nil	0.02		
				948	218.7	220	1.3	Nil		0.008	0.002
226'	288'2"	gabbro as above but containing much more po as disseminated gr., fine gr. pods up to 1" and narrow (5mm) veins; in narrow sections (3-10mm) sulphides make up 30% of rock but average for the whole section is no more than 3%; some fine specks of cpy were noted usually in the massive po pods; calcite is less abundant than above; some calcite + qtz veins at all angles to core; a second white subhedral feldspar (1-2mm) plus a blue qtz was seen near the lower contact.	mainly po) some py) 3% very minor cpy)	743	220	222.5	2.5	Nil	0.02		
				949	222.5	225	2.5	Tr		0.010	0.004
				744	225	237	12.0	Nil			
				950	227.2	228.9	1.7	Nil		0.033	0.005
				951	237	239	2.0	Tr		0.010	0.003
				745	239	250	11.0	Nil	0.02		
				746	250	260	10	Nil	0.02		
				952	251	252.5	1.5	Nil		0.002	0.003
288'2"	361'11"	meta sediments; fine grained; alternating light grey siltstone and dark slatey beds 1mm - 20cm wide; no or little graphite; bedding at 30-35° to core (dip 72-77° N); first foot carries 1% po remainder only tr. (0.8) as fine disseminations; gradational upper & lower contact		953	254.2	255.9	1.7	Nil		0.002	0.002
				747	260	264	4.0	Nil	0.04		
				954	264	266	2.0	Nil		0.002	0.002
				748	266	269	3.0	Nil	0.02		
				955	267	269.9	0.9	Nil		0.003	0.002
361'11"	371'6"	gabbro; as above but carries more biotite; very minor disseminated sulphides	po - py 0.1%	749	269.9	273.5	3.6	Nil	0.02		
				956	273.5	275	1.5	Nil		<0.001	0.002
371'6"	400'	metasediments; as above; sharply gradational upper contacts; sulphides as above	po - py 0.1%								

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

PROPERTY DETOUR LAKE HOLE NO. / 37-1

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au	Ag	Cu	Ni	Pb
				750	275	278.5	3.5	Nil	0.02			
				957	278.5	280	1.5	Tr		0.002	0.003	0.003
				751	280	283	3.0	Nil	0.03			
				958	283	285	2.0	Tr		0.001	0.004	
				752	285	295	10.0	Nil	0.01			
				753	295	305	10.0	Nil	0.01			
				754	305	315	10.0	Nil	N.D.			
				755	315	325	10.0	Nil	0.01			
				756	325	335	10.0	Nil	0.01			
				757	335	345	10.0	Nil	0.01			
				758	345	355	10.0	Nil	0.02			
				759	355	360	5.0	Nil	0.02			
				959	360	361.9	1.9	Tr		0.002		0.003
				960	362.7	364.0	1.3	Tr		0.004	0.023	
				760	364	375	11.0	Nil	0.01			
				761	375	385	10.0	Tr	0.02			
				762	385	391.2	6.2	Nil	0.01			
				961	391.2	393	1.8	Nil		0.02		0.003
				763	393	400	7.0	Nil	0.01			
					Zn							
				957	ND							
				959	ND							
				961	ND							

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

Tropari - 175.5° at 737' 46°

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PROPERTY	DETOUR LAKE, Ont.	LATITUDE	200 N	STARTED	June 11th, 1975
HOLE NO.	DLO - 38 - 48	DEPARTURE	L 190 + 00 E	FINISHED	June 17th, 1975
BEARING	180°	ELEVATION		LENGTH	737'
DIP-COLLAR	- 45°	SECTION		LOGGED BY	A. Jackson

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	42°				
400'	39.5°				
600'	38°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0.0	154	OVERBURDEN	
154	382	MAFIC FLOWS (1A)	
		154 - 278: Fine grained, medium dark green, massive, occ. section slightly mod. Chloritic minor narrow quartz carb. veinlets.	
		167 - 172: Contains two narrow - 6" quartz veins	
		182.5: 5" quartz veins	
		189: 2 narrow quartz stringers, Py, cpy, po	
		194: 3" quartz veins, Py, cpy, silver?	
		209: 3" of massive py	
		217.7: 2 quartz stringers, ¼"	
		243.5: 4" quartz vein, minor py, cpy, 1 bleb. V.G.	V.G., Py, cpy
		248.5: 2" quartz vein	
		278 - 383: coarse grained, abundant carbonate blebs throughout, occasional streaks po.	
		287: 2" quartz vein	
		288: 4" quartz vein	
		307.1 - 307.7: 4" quartz vein	
		325 - 327: 2 narrow quartz veins	
		Occasional narrow ¼" quartz vein throughout to 383, approximately 3-4 every 5'.	
382	419	INTERMEDIATE FLOWS (2A)	
		Fine grained, Lt. Medium green, massive, occasional narrow 1/8" quartz carb. veinlet. Minor disseminated py, cpy. Traces sphal. To 400, then only traces py. Becomes more mafic from 400 - 419.	1-2% py, cpy, tr cpy
419.0	420.5	CHERTY - FELSIC TUFF (3)	
		Lt. grey, well bedded at 70°;	
		2-3% py, po, cpy	2-3% py, po, cpy
420.5	452	INTERMEDIATE - MAFIC FLOWS (2A, 1A)	
		Fine grained, medium green, massive. 1-2% py, diss. and along fractures	
		occasional ¼" quartz vein, approximately 1 or 2 every 5' with minor py, po	minor py, po
		432 - 436 - slightly coarser flow (Dike?) with high carbonate groundmass, 2-3% py.	2-3% py
		440 - 444: Slightly altered to chlorite.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
7316	154.0	159.0	5.0	T				
7317	159.0	164.0	5.0	T				
7318	164.0	169.0	5.0	T				
7319	169.0	174.0	5.0	T				
7320	174.0	178.0	4.0	N				
7321	178.0	182.0	4.0	N				
7322	182.0	183.0	1.0	N				whole core
7323	183.0	188.0	5.0	N				
7324	188.0	190.0	2.0	.01		.29		whole core
7325	190.0	194.0	4.0	T	.02			
7326	194.0	195.0	1.0	.04	.04	.10		whole core
7327	195.0	200.0	5.0	N				
7328	200.0	205.0	5.0	N				
7329	205.0	208.0	3.0	N				
7330	208.0	210.0	2.0	.005		.03		whole core
7331	210.0	215.0	5.0	T				
7332	215.0	220.0	5.0	T				
7333	220.0	225.0	5.0	T				
7334	225.0	227.0	2.0	N				whole core
7335	227.0	230.0	3.0	T				
7336	230.0	232.0	2.0	T				whole core
7337	232.0	237.0	5.0	T		.03		w/core
7338	237.0	242.0	5.0	T				
7339	242.0	244.0	2.0	.03		.08		V.G..
7340	244.0	248.0	4.0	T				
7341	248.0	249.0	1.0	T				whole core
7342	249.0	254.0	5.0	T				
7343	254.0	259.0	5.0	T				
7344	259.0	264.0	5.0	T		.03		
7345	264.0	269.0	5.0	N				
7346	269.0	274.0	5.0	N				
7347	274.0	279.0	5.0	N				
7348	279.0	284.0	5.0	N				
7349	284.0	287.0	3.0	N				
7350	287.0	289.0	2.0	T				w/core
7351	289.0	292.0	3.0	N				w/core
7352	292.0	297.0	5.0	N				
7353	297.0	302.0	5.0	N				
7354	302.0	307.0	5.0	N				

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

PROPERTY DETOUR LAKES HOLE NO. DLO - 38 - 48 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
				7355	307.0	310.0	3.0	N				whole core
452	494	MAFIC FLOWS (1A)		7356	310.0	315.0	5.0	.01				
		Medium green, medium grained, high carbonate groundmass as streaks.		7357	315.0	320.0	5.0	N				
		Foliation developed at 40°, occ. section appears tuffaceous.		7358	320.0	324.0	4.0	T				
		Occ. quartz-carb. veinlet with minor py, po.		7359	324.0	325.0	1.0	T				w/core
				7360	325.0	330.0	5.0	T				
494	507	INTERMEDIATE - MAFIC FLOW (1A, 2A)		7361	330.0	335.0	5.0	T				
		Fine grained, medium green, occ. section slightly tuffaceous, bedding		7362	335.0	338.0	3.0	T				
		at 45°. 2% py, po, traces cpy	2% py, po, tr cpy	7363	338.0	342.0	4.0	T				
				7364	342.0	347.0	5.0	T				
507	512	INTERMEDIATE TUFF (2c)		7365	347.0	352.0	5.0	N				
		Medium grey-brown, well bedded at 50°, abundant biotite developed		7366	352.0	357.0	5.0	N				
		along beds. 3-4% py, tr cpy.	3-4% py, tr cpy	7367	357.0	362.0	5.0	T				
				7368	362.0	367.0	5.0	T				w/core
512	520	CHERTY TUFF (3)		7369	367.0	372.0	5.0	T				
		Well bedded at 70°, narrow $\frac{1}{4}$" - $\frac{1}{2}$" beds. Much of it is felsic tuff with		7370	372.0	377.0	5.0	T				
		cherty sections. 3-4% py, tr. cpy.	3-4% py, tr cpy	7371	377.0	382.0	5.0	N				
		518.5 - 519.5: Highly siliceous section, conformable.		7372	382.0	387.0	5.0	T				
				7373	387.0	392.0	5.0	T				
520	535	INTERMEDIATE - FELSIC TUFF (4c)		7374	392.0	397.0	5.0	.01				
		Lt. - Medium gray, well bedded at 70°		7375	397.0	402.0	5.0	T				
		Occ. narrow quartz vein, mainly between 525 - 527 with minor po, cpy.		7376	402.0	407.0	5.0	T				
				7377	407.0	412.0	5.0	T				
535	562	CHLORITE ALTERATION		7378	412.0	417.0	5.0	T				
		Dark green, highly chloritic; occ. small quartz fragment, or stringer;		7379	417.0	422.0	5.0	T				
		minor po, cpy along stringers throughout.		7380	422.0	427.0	5.0	T				
		539 - 543: Rhyolite Dike		7381	427.0	432.0	5.0	T				
		555 - 558.5: 5-7% po, cpy.	5-7% po, cpy	7382	432.0	437.0	5.0	T				
				7383	437.0	442.0	5.0	T				
562	600	TALC CARBONATE ROCK (6A)		7384	442.0	447.0	5.0	N				
		Dark grey - black, slightly magnetic; well bedded, or foliated at 50°		7385	447.0	452.0	5.0	T				
				7386	452.0	457.0	5.0	T				
600	612	MAFIC FLOW (1A)		7387	457.0	462.0	5.0	T				
		Fine grained, medium green, occ. narrow quartz vein 1/8".		7388	462.0	467.0	5.0	T				
		Several quartz - carb. veinlets throughout. traces py.		7389	467.0	472.0	5.0	T				
				7390	472.0	477.0	5.0	T				
612	671	INTERMEDIATE TUFF (2C)		7391	477.0	482.0	5.0	T				
		Brown-grey, well bedded at 50°, beds 1/8" thick, abundant biotite devel-		7392	482.0	487.0	5.0	.005				
		oped along beds to 640', then is more chloritic.		7393	487.0	492.0	5.0	T				
		Several short felsic tuff sections throughout, with 1-2% py, as in:		7394	492.0	497.0	5.0	.005				
		621 - 622, 637 - 638, 639 - 642, 651 - 654, 661 - 662.		7395	497.0	502.0	5.0	.005				w/core
		Minor hematite developed along fractures at 645 - 647.		7396	502.0	507.0	5.0	T		.03		w/core
				7397	507.0	512.0	5.0	.005		.07		w/core
671	699	FELSIC TUFF (4C)		7398	512.0	517.0	5.0	.01		.08		w/core
		fine grained, light gray, well bedded at 50°, occ. narrow quartz vein		7399	517.0	520.0	3.0	.01		.09		w/core
		along bedding.		7400	520.0	525.0	5.0	T				
		683 - 688 Intermediate tuff, same as 612 - 671.		7401	525.0	530.0	5.0	.06				
				7402	530.0	535.0	5.0	T				
699	737	FELSIC AGGLOMERATE (4B)		7403	535.0	540.0	5.0	T				
		Light cream, coloured rhyolite fragments set in chloritic groundmass,		7404	540.0	545.0	5.0	.01				
		fragments from $\frac{1}{4}$ - $\frac{1}{2}$" in diameter, make up 20 - 30% of rock.		7405	545.0	550.0	5.0	.05				
		Fragments are aligned at 50°. 1% disseminated py throughout.		7406	550.0	555.0	5.0	.01		.24		all core
		728 - 734.5 Felsic tuff.		7407	555.0	559.0	4.0	.05		.15		all core
	737	END OF HOLE										

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

PROPERTY DETOUR LAKES HOLE NO. DLO-38-48

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.
				7408	559.0	564.0	5.0	.02			
				7409	564.0	569.0	5.0	T			
				7410	569.0	574.0	5.0	T			
				7411	574.0	579.0	5.0	T			
				7412	579.0	584.0	5.0	T			
				7413	584.0	589.0	5.0	T			
				7414	589.0	594.0	5.0	T			
				7415	594.0	599.0	5.0	T			
				7416	599.0	604.0	5.0	T			
				7417	604.0	609.0	5.0	T			
				7418	609.0	614.0	5.0	.06			
				7419	614.0	619.0	5.0	.01			
				7420	619.0	624.0	5.0	.01			
				7421	624.0	629.0	5.0	.005			
				7422	629.0	634.0	5.0	T			
				7423	634.0	639.0	5.0	T			
				7424	639.0	644.0	5.0	.01			
				7425	644.0	649.0	5.0	T			
				7426	649.0	654.0	5.0	T			
				7427	654.0	659.0	5.0	T			
				7428	659.0	664.0	5.0	T			
				7429	664.0	669.0	5.0	T			
				7430	669.0	674.0	5.0	T			
				7435	674.0	679.0	5.0	T			
				7436	679.0	684.0	5.0	.005			
				7437	684.0	689.0	5.0	.005			
				7438	689.0	694.0	5.0	.01			
				7439	694.0	699.0	5.0	.01			
				7440	699.0	704.0	5.0	T			
				7441	704.0	709.0	5.0	T			
				7442	709.0	714.0	5.0	T			
				7443	714.0	719.0	5.0	T			
				7444	719.0	724.0	5.0	T			
				7445	724.0	729.0	5.0	T			
				7446	729.0	734.0	5.0	T			
				7447	734.0	737.0	3.0	.01			

TROPARI

797' AZ. 183° DIP. 22°

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

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

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	44½°				
400'	35½°				
600'	30°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	104	CASING	
104.0	133.0	INTERMEDIATE TUFF (2c)	
		Medium grey-brown well bedded and mod. bedded at 50°-60°.	
		Mod. biotite throughout. Upper 10' contains felsic - intermediate material	
		remainder is inter. - mafic. Numerous quartz-carbonate veins	
		throughout, 1-2 quartz veins/5'.	
		104.0 - 114.0: 5% py, traces cpy as blebs and along bedding	
		114.0 - 133.0: 1-2% py, traces cpy.	
		132.0: ¼" quartz-carbonate vein, py, cpy and	
		1 speck of V. G.	1 speck V.G.
133.0	155.0	INTERMEDIATE FLOW (2a)	
		Dark grey-green, massive mod. biotitic, mod. quartz-carb. stringers	
		throughout. 1 quartz vein/5', minor py.	
		140.0 - 145.0: Mafic flow	
		Coarse grained, foliated at 60°.	
155.0	590.0	MAFIC FLOW (1a)	
		Dark green, coarse grained, massive, slightly - mod. biotitic throughout	
		1-2 quartz veins every 5', ¼" - 1" barren.	
		208.2 - 212.0: Felsic tuff	
		213.5 - 221.0: Felsic tuff	
		241.5 - 243.0: Felsic tuff - becomes fine grained from 240'	
		260.0 - 270.0: Quartz vein increase to 2-3/5' but are very	
		very narrow - 1/8" - ¼", almost all are	
		barren except one ¼" at 267' - 1 speck V.G.	1 speck V.G.
		no sulfide.	
		285.0 - 300.0: 3-4 narrow quartz veins/5', barren.	
		300.0 - 348.0: Very minor quartz vein.	
		334.5: ½" quartz vein, minor py, cpy, 1speck V.G.	1 speck V.G.
		348.0 - 457.5: Quartz vein increases again to 3/5' from	
		¼" - 2", half are barren, others contain	
		cpy, po, occ. V.G.	
		351.0: ¼" quartz vein, 2 specks V.G.	2 specks V.G.
		353.0: ¼" quartz vein, 3 specks V.G., no sulfide	3 specks V.G.
		400.5: 1" quartz vein, cpy, po, 1 speck V.G.	1 speck V.G.
		407.3: ¼" quartz vein, no sulfide, 5-6 specks V.G.	5-6 specks V.G.
		414.0 - 417.5: Mafic dike, highly biotitic, 2% diss. py	2% py

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
11759	104.0	109.0	5.0	.01			.08	
11760	109.0	114.0	5.0	.01			.04	
11761	114.0	119.0	5.0	T				
11762	119.0	124.0	5.0	T				
11763	124.0	129.0	5.0	T				
11764	129.0	134.0	5.0	.028				V.G.
11765	134.0	139.0	5.0	T				
11766	139.0	144.0	5.0	.015				
11767	144.0	149.0	5.0	T				
11768	149.0	154.0	5.0	T				
11769	154.0	159.0	5.0	.025				
11770	255.0	260.0	5.0	.005				
11771	260.0	265.0	5.0	T				
11772	265.0	270.0	5.0	.20				V.G.
11773	270.0	275.0	5.0	T				
11774	285.0	290.0	5.0	.03				
11775	290.0	295.0	5.0	T				
11776	295.0	300.0	5.0	.02				
11777	325.0	330.0	5.0	.015				
11778	330.0	335.0	5.0	.010				V.G.
11779	335.0	340.0	5.0	T				
11780	340.0	345.0	5.0	T				
11781	345.0	350.0	5.0	.005				
11782	350.0	355.0	5.0	.027				V.G.
11783	355.0	360.0	5.0	.015				
11784	360.0	365.0	5.0	.010				
11785	365.0	370.0	5.0	T				
11786	370.0	375.0	5.0	T				
11787	375.0	380.0	5.0	T				
11788	380.0	385.0	5.0	T				
11789	385.0	390.0	5.0	T				
11790	390.0	395.0	5.0	T				
11791	395.0	400.0	5.0	T				
11792	400.0	405.0	5.0	T				V.G.
11793	405.0	410.0	5.0	.528				V.G.
11794	410.0	415.0	5.0	.005				
11795	415.0	420.0	5.0	T				
11796	420.0	425.0	5.0	T				
11797	425.0	430.0	5.0	T				
11798	430.0	435.0	5.0	.015				

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

PROPERTY DETOUR LAKES HOLE NO. DLO-38-77 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	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-		15814	510.0	515.0	5.0	.010				
		carb. veinlets (1/8") and blebs parallel to bedding throughout.		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		15835	615.0	620.0	5.0	N				
		throughout.		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

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

DIP TEST					
Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	40½°				
400'	33°				
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 (la)		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		11683	202.0	208.0	6.0	.015		.15		
		60° - 70°.		11684	208.0	213.0	5.0	T		18'		
		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 throu-		11688	223.0	228.0	5.0	.005				
		ghout; contacts at 45°.		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		11692	243.0	248.0	5.0	T				
		2-4/5', usually with very little or no		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		11703	291.0	296.0	5.0	T				
		quartz vein.		11704	385.0	390.0	5.0	.085				
		399.0 - 404.0: Mafic Int. Dike? Medium grey- black, high		11705	390.0	395.0	5.0	.015				
		biotite content, 2% py, diss, throughout.		11706	395.0	400.0	5.0	T				
		404.0 - 436.0: Quartz vein, decreases to <1/5', usually		11707	400.0	405.0	5.0	.015				
		with po, minor cpy		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,		11710	410.0	415.0	5.0	T				
		massive, slight bedding at 60°.		11711	415.0	420.0	5.0	T				
		439.0 553.0: Quartz vein increases again to 2-3/5' usually		11712	420.0	425.0	5.0	.02				
		with py, po, minor cpy.		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 - 608.0: Biotitic		11746	584.0	589.0	5.0	.01				
		608.0 - 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										

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
0	50.0	CASING	
50.0	78.0	INTERMEDIATE FLOW (2a)	
		Medium grey, fine grained, massive. 1-2 quartz veins/5', tr py assoc.	
		73.0 - 78.0: Felsic tuff, bedded at 45°.	
78.0	247.0	MAFIC FLOW (1a)	
		Fine grained, medium green, mod. highly cut by quartz-carb. veins	
		and stringers. Foliation and veining at 35° - 40°.	
		78.0 - 90.0: 5% po, py, minor cpy in stringers blebsveins	5% po, py, tr cpy
		90.0 - 120.0: 3-4% po, py, minor cpy in blebs.	3-4% po, py, minor cpy
		120.0 - 127.0: Intermediate flow	
		127.0 - 159.5: Appears quite well foliated in places, poss-	
		ibly mafic tuff, foliation at 40°, high quartz-	
		carbonate as veins and blebs along foliation.	
		Minor py, po to 150', then 3-4% py, po,	
		minor cpy.	3-4% py, po, cpy
		154.0 - 159.0: Intermediate	
		159.5 - 186.0: Dark green, massive, mafic flow, very	
		minor quartz-carbonate veins, occ. quartz	
		vein.	
		186.0 - 191.0: Intermediate tuff	
		Medium brown, biotitic, mod. well bedded	
		at 45-50°, mod. quartz-carbonate veins and	
		stringers. 3-4% py, po, tr cpy.	3-4% py, po, tr cpy
		191.0 - 210.0: Mafic flow, mod. X-cut by quartz-carb. veins	
		1-2% py, po in blebs.	1-2% py, po
		210.0 - 215.0: INT. TUFF, flow	
		Medium brown, biotitic, poorly bedded at	
		60°, 1% py, throughout.	
		211.0: 1"quartz vein, 1 speck V.G.	1 speck V.G.
		215.0 - 247.0: Massive, mafic flow	
247.0	350.0	INTERMEDIATE FLOW (2a)	
		Fine grained, grey-green, occ. short tuffaceous section, bedding at	
		60°, 1-2 quartz vein every 5', ½". Mod. quartz-carb. veins & blebs.	
		2-3% py, minor po, traces cpy in blebs	2-3% py, po, tr cpy
		282.0 - 300.0: Mafic flow	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.
15848	78.0	83.0	5.0	.002		
15849	83.0	88.0	5.0	.07		
15850	88.0	93.0	5.0	.005		
15851	93.0	98.0	5.0	.015		
15852	98.0	103.0	5.0	N		
15853	103.0	108.0	5.0	.005		
15854	108.0	113.0	5.0	.005		
15855	113.0	118.0	5.0	.002		
15856	118.0	123.0	5.0	.005		
15857	123.0	128.0	5.0	N		
15858	128.0	133.0	5.0	.015		
15859	133.0	138.0	5.0	.005		
15860	138.0	143.0	5.0	N		
15861	143.0	148.0	5.0	.002		
15862	148.0	153.0	5.0	.002		
15863	153.0	158.0	5.0	.01		
15864	158.0	163.0	5.0	.002		
15865	185.0	190.0	5.0	.002		
15866	190.0	195.0	5.0	.005		
15867	195.0	200.0	5.0	.002		
15868	200.0	205.0	5.0	.002		
15869	205.0	210.0	5.0	.002		
15870	210.0	215.0	5.0	.04		
15871	215.0	220.0	5.0	N		
15872	247.0	252.0	5.0	.002		
15873	252.0	257.0	5.0	.005		
15874	257.0	262.0	5.0	.002		
15875	262.0	267.0	5.0	.002		
15876	267.0	272.0	5.0	.002		
15877	272.0	277.0	5.0	.005		
15878	277.0	282.0	5.0	.01		
15879	300.0	305.0	5.0	.015		
15880	305.0	310.0	5.0	.02		
15881	310.0	315.0	5.0	.005		
15882	315.0	320.0	5.0	.205	.125	
15883	320.0	325.0	5.0	.045	10'	
15884	325.0	330.0	5.0	.005		
15885	330.0	335.0	5.0	.01		
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 quartz vein. 2 quartz veins/5'.		15915	710.0	715.0	5.0	T				
				15916	745.0	750.0	5.0	T				
			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				
		788.0 - 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.		15924	785.0	790.0	5.0	.005				
			2-3% po, minor cpy	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

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		15941	870.0	875.0	5.0	.020	.11			whole core
		Mod. foliated at 60-70°.		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				

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

OPERTY	DETOUR LAKES	LATITUDE 213 N	STARTED	June 30th, 1975	
LE NO.	DLO-39-8	DEPARTURE 306E	FINISHED	July 3rd, 1975	
ARING	180°	ELEVATION	LENGTH	603'	
P-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	540.0	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 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', withpo, 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				

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

PROPERTY DETOUR LAKES HOLE NO. DLO-38-72 Page 2

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	25'	.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
PERTY	DETOUR LAKE	LATITUDE	202 + 50 NORTH	STARTED	Feb. 2nd, 1976						
E NO.	38W-1	DEPARTURE	L112 + 00 EAST	FINISHED	Feb. 10th, 1976	200'	47°				
RING	180° SOUTH	ELEVATION		LENGTH	497'	400'	45.5°				
COLLAR	- 45° SOUTH	SECTION		LOGGED BY	P. BROWN						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	174.0	CASING	
174.0	188.5	COARSE GRAINED BLACK MAGNETIC PYROXENITE (6d) The pyroxenite consist mainly of large pyroxene grains in a groundmass of fine grained feldspar and pyroxene. This pyroxenite has undergone some serp. however serp. is only very noticeable in a 2' section between 182 and 184. In this serp. section the rock consist of highly altered pyroxene grins in a groundmass of feldspar alteration minerals and serp. alteration minerals one of which is talc. Within this pyroxenite intrusive rock there are several short sections of non-mag. mafic flow. This mafic flow is coarse grained consist of large amphibole grains in a fine grained feldspar groundmass. On the basis of amphible grains size there appears to be several flow units, with large amphibole grains at the bottom of the flow grading upward into small to med. grained size grains at the top. These mafic flow units occur between 179.5 - 182 and 184 - 188.5. Between 177.5 - 179.5, there is a fine grained highly altered non-mag. rock, which most likely is highly altered mafic flow.	174 - 188.5 no sulphides.
188.5	256.0	COARSE GRAINED DARK GREEN NON-MAGNETIC GABBROIC TEXTURED INTRUSIVE (6c) This unit consist of 1/8" pyroxene grains in a fine grained feldspar matrix. Carb. is quite abundant throughout as well as strong chlorite alt. and weak bio. alt. The gabbro has a few short <1' sections of mafic flow with highly altered contacts. 188.5 - 256.0: tr po, py	tr po, py
256.0	271.0	COARSE GRAINED PYROXENITE INTRUSIVE (6d) The rock is just about black for the first 8', and has only light to mod. serpentinization. From 264.5 to 271 the rock is very highly serp. and has a high percentage of talc-carb.. 256.0 - 271.0: tr sulphides.	tr sulphides

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
25927	174	179	5	T
25928	179	184	5	.005
25929	184	189	5	T
25930	189	194	5	T
25931	210	215	5	T
25932	225	230	5	T
25933	240	245	5	T
25934	245	250	5	T
25935	250	255	5	T
25936	255	260	5	T
25937	260	265	5	T
25938	265	270	5	T
25939	270	275	5	T
25940	285	290	5	T
25941	305	310	5	T
25942	310	315	5	T
25943	325	330	5	T
25944	345	350	5	T
25945	350	355	5	T
25946	355	360	5	T
25947	360	365	5	T
25948	375	380	5	T
25949	380	385	5	T
25950	385	390	5	N
25951	400	405	5	N
25952	405	410	5	N
25953	410	415	5	T
25954	415	420	5	T
25955	435	440	5	T
25956	440	445	5	N
25957	445	450	5	N
25958	480	485	5	N
25959	485	490	5	N
25960	490	495	5	N

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
271.0	349.5	INTERMIXED COARSE GRAINED DARK GREEN GABBRO TEXTURED (6c) FINE GRAINED DARK GREEN MAFIC FLOW (1a) At 344.5 there is a 6" section of talc-carb. Both the gabbro and mafic flow have strong chlorite alt. and weak bio. alt.	tr po, py and 1-2% py					
		The mafic flow has 1-2% py, po, and a few specks of cpy while the gabbro has only tr py, po. The longest mafic flow unit occurs at 304 - 324.5. The rest are < 1' in length. Veining is just about absent from this section.	po, in the mafic flow.					
349.5	353.5	MEDIUM TO COARSE GRAINED PYROXENITE ROCK (6d) The whole section is highly serpentinized and the main serp. mineral is talc. No sulphides.						
353.5	443.0	INTERMIXED COARSE GRAINED DARK GREEN GABBRO TEXTURED (6c) AND FINE GRAINED DARK GREEN MAFIC FLOW (1a) This section has several short units of talc-carb. The talc-carb. units occur at: 376.4 - 377; 378.5 - 380; 381.5 - 382; 385.5 - 386.8; 402 - 402.5; 415 - 415.5 and 436 - 436.5. The main mafic flow unit occurs at 422 - 429, and has a lower contact of 35° to the C.A. The contacts between the talc-carb. and the gabbro are not very distinct, while those between the gabbro and mafic flow are. This section has strong chl. alt. throughout and minor bio. alt. adjacent to some of the contacts between the gabbro and the mafic flow. Minor po is found assoc. with the gabbro.						
443.0	497.0	FINE GRAINED DARK GREEN MAFIC TUFF (1c) This section has minor gabbro units and these occur at 448 - 449; 459.2 - 461.4. The mafic tuff has strong chl. alt. and mod. to weak bio. alt. and scattered ¼" fragments throughout. There is very minor quartz-carb. veining and only tr py. A short 6" section at 492 has fragments of what appear to be pyroxene grains. The last 30' of the tuff is intermediate to mafic in comp. 443 - 497 minor sulphides mainly py.	minor sulphides					
	497.0	END OF HOLE						

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

						DIP TEST					
PROPERTY	DETOUR LAKE	LATITUDE	277 + 50 NORTH	STARTED	April 12th, 1976	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	38W-10	DEPARTURE	216 EAST	FINISHED	April 16th, 1976	200'	41½°				
BEARING	180° SOUTH	ELEVATION		LENGTH	540 FEET	400'	36°				
DIP-COLLAR	- 45° SOUTH	SECTION		LOGGED BY	P. BROWN	540'	39°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	58.0	CASING	
58.0	540.0	MEDIUM GRAINED GRAYISH GREEN INTRUSIVE : DIORITE (9)	
		WEAKLY MAGNETIC	58 - 180 occ. tr py
		The diorite is composed of about 50-60% feldspar and 40-50% mafic minerals mainly amphiboles. The mafic minerals appear to form subhedral to anhedral grains, while the feldspar appear to be filling the areas between the mafic grains. The mafic minerals have been highly altered to dark green chlorite and minor muscovite. The feldspar display mod. saussurite and scericite alt.	
		The diorite is weakly mag. and therefore contains minor diss. magnetite	
		The diorite is massive looking with no well developed foliation, however there are short sections that do appear to be weakly foliated.	
		In the first 17' there are several sections of core that are at least 80% mafic minerals mainly amph. and these units vary in width from 2-18" and are separated by 1"-12" sections of core that are 70-80% feldspar and possibly minor quartz, but not carbonate.	
		123 - 123.5: a 6" section of chloritized mafic minerals and vuggy epidote veining and red feldspar (Fe staining) This 6" section is parallel to the C.A.	
		145.7 - 150.0: Possible fine grained mafic dike or flow. Upper contact 20° to C.A.	
		153.3 - 153.8: Fine grained mafic dike or flow. Upper contact 30-35° to C.A. There is a 2" inclusion of diorite in this section.	
		158.0 - 163.0: Fine grained, mafic dike - flow.	
		From 162 - 163.0: the core is highly fractured and vuggy with abundant epidote and very small quartz crystals and Fe staining feldspar.	
		167.7 - 168.7: Fine grained, mafic dike - flow. The whole section has no quartz-or quartz-carb. veining and there is only occ. tr diss. py	
		180 - 250.0: Medium grained, dark green, basic intrusive rock. Diorite (9). weakly magnetic. This section is composed mainly of med. grained diorite, however scatterd throughout there are units of varying length and varying	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.		ASSAYS Cu.	ASSAYS Zn.
26257	63	68	5	T			
26258	93	98	5	T			
26259	122	127	5	T			
26260	146	151	5	T			
26261	156	161	5	T			
26262	161	166	5	T			
26263	166	171	5	N			
26264	222	227	5	N			
26265	280	285	5	N			
26266	285	290	5	N			
26267	315	320	5	N			
26268	320	325	5	N			
26269	325	330	5	N			
26270	390	395	5	N			
26271	395	400	5	N			
26272	400	405	5	N			
26273	405	410	5	N			
26274	410	415	5	T			
26275	505	510	5	T		.001	
26276	510	515	5	T		.031	.007
26277	515	520	5	T			
31557	58	62	5	T			
31558	62	73	5	T			
31559	73	78	5	T			
31560	78	83	5	T			
31561	83	88	5	N			
31562	88	93	5	N			
31563	98	102	4	N			
31564	102	107	5	T			
31565	107	112	5	N			
31566	112	117	5	N			
31567	117	122	5	T			
31568	127	132	5	T			
31569	132	137	5	T			
31570	137	142	5	N			
31571	142	146	4	N			
31572	151	156	5	N			
31573	171	176	5	N			

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
58.0	540.0	Contd.						
		180.0 - 250.0: Contd.		31574	176	181	5	N
		contact angles of a fine grained mafic rock.		31575	181	186	5	N
		Some of these fine grained units are dikes,		31576	186	191	5	N
		however, some of them have weak foliation ?		31577	191	196	5	N
		and could be mafic flow blocks caught up in the		31578	196	201	5	N
		intrusion.		31579	201	206	5	N
		These fine grained sections occur at:		31580	206	211	5	N
		184.6 - 188.3: Upper contact 50° to C.A. Lower contact 40° to C.A.		31581	211	216	5	N
		194.0 - 195.5: Upper and lower contacts irregular.		31582	216	222	5	N
		220.3 - 220.9: Silicified mafic flow. Upper contact 60°		31583	227	232	5	N
		to C.A., Lower contact 80° to C.A.	180.0 - 250: occ tr	31584	232	237	5	N
		222.25 - 222.7: Upper and lower contacts 45° to C.A.	diss. py	31585	237	242	5	N
		227.3 - 232.0: Upper contact 35° to C.A., lower contact		31586	242	247	5	N
		irregular.		31587	247	252	5	N
		233.5 - 235.5: Silicified diorite with abundant iron staining.		31588	252	257	5	N
		From 183 - 230 the diorite has abundant 1-3mm white phenos. of feldspar		31589	257	262	5	N
		These feldspar phenos. occur above and below 183 - 230 for 10-20'		31590	262	267	5	N
		however they are fairly scarse. The diorite has no quartz or quartz-carb		31591	267	272	5	N
		veining and only occ. tr diss. py.		31592	272	277	5	N
		250.0 - 348.3: Fine grained dark grayish green intrusive rock		31593	277	280	3	N
		Diorite (9).		31594	290	295	5	N
		This section is mod. to strongly magn. Lower		31595	295	300	5	N
		contact 45° to C.A.		31596	300	305	5	N
		This section although finer grained than the		31597	305	310	5	N
		diorite above, it is of the same comp. This		31598	310	315	5	N
		section has several silicified sections and		31599	330	335	5	N
		these occur at:		31600	335	340	5	N
		280.8 - 298.0: the core is highly silicified with a short		26424	340	345	5	N
		section that hasn't been silicified.	250 - 348.3	26425	345	350	5	N
		273.0: 1" mafic dike that runs down the C.A. for 18".	occ. tr diss. py	26426	350	355	5	N
		312 - 314: the core is highly broken, possible shear		26427	355	360	5	N
		zone.		26428	360	365	5	N
		315 - 317: the core is strongly silicified.		26429	365	370	5	N
		317 - 319: the rock is a med. grained diorite with		26430	370	375	5	N
		abundant 1-3 mm phenos. of white feldspar.		26431	375	380	5	N
		From 250 - 348.3 there are scattered small 1-2mm phenos.		26432	380	385	5	N
		of white feldspar however they are relatively		26433	385	390	5	N
		scarce. There is only tr veining which is		26434	415	420	5	N
		barren and only occ. tr diss. py.		26435	420	425	5	N
		348.3 - 433.4: Medium grained, dark grayish green intrusive		26436	425	430	5 ;	N
		rock diorite (9). Very weakly magnetic.		26437	430	435	5	N
		This section has been highly brecciated.		26438	435	440	5	N
		The areas between the diorite fragments		26439	440	445	5	N
		have been filled with a siliceous material,		26440	445	450	5	N
		mainly quartz and possibly some feldspar.		26441	450	455	5	N

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
58.0	540.0	Contd.		26442	455	460	5	N
		348.3 - 433.4: CONTD.	occ. tr diss. py	26443	460	465	5	N
		The diorite fragments which have been		26444	465	470	5	N
		strongly chl. vary in size from $\frac{1}{4}$" to 3-4"		26445	470	475	5	N
		There are also a few larger sections that		26446	475	480	5	T
		are upto 1' in length. These larger		26447	480	485	5	T
		sections are also most likely fragments.		26448	485	490	5	T
		Most of the diorite fragments have fairly		26449	490	495	5	N
		rounded edges, most likely rounded by		26450	495	500	5	N
		movement and circulating fluids.		26451	500	505	5	N
		This section has scattered 1-2mm phenos.		26452	520	525	5	N
		of white feldspar.		26453	525	530	5	N
		The last 7' of this section is almost all		26454	530	535	5	N
		fine grained silicified material.		26455	535	540	5	T
		This section has very little in the way of veining						
		and there is only occ. tr diss. py.						
		433.4 - 540.0: Medium grained, dark greyish green						
		intrusive diorite (?). Non-magnetic.	tr diss. po					
		The diorite appear to be massive and						
		homogeneous throughout. The diorite is						
		composed of about 50-60% feldspar and						
		40-50% mafic minerals mainly chloritized						
		amphibole.						
		510.2 - 511.3: About 2" of quartz-carb. veining with 10%						
		py and tr cpy.	—					
		433.4 - 540.0: tr diss. py						
	540.0	END OF HOLE						

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	L 296+ 00 EAST	STARTED	March 26th, 1976						
HOLE NO.	38 W-8	DEPARTURE	254+ 00 NORTH	FINISHED	April 6th, 1976	200'	37½°				
BEARING	180° SOUTH	ELEVATION		LENGTH	513 FEET	400'	38°				
DIP-COLLAR	- 45° SOUTH	SECTION		LOGGED BY	P. BROWN						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Zn.
0	166.0	CASING		26214	166	170	4	N	
				26215	185	190	5	N	.004
166.0	170.3	COARSE GRAINED DARK GREEN FELSIC AGGLOMERATE (4b)	no sulphides	26216	195	200	5	N	
		Lower contact sharp at 35° to C.A. The rock is composed of 70% pale		26217	200	205	5	N	
		pink felsic fragments and 30% dark green chloritic matrix.		26218	225	230	5	N	
		The pale pink felsic fragments range in size from <1/10" to 3/4". The		26219	230	235	5	N	
		average size is about ½". The fragments have quite irregular boundaries		26220	235	240	5	T	
		however they are generally oval in shape, and show very little if any alt.		26221	245	250	5	T	
		The matrix is composed mainly of chl, which were most likely amph.		26222	275	280	5	N	
		and pyroxene. The felsic agglomerate has no quartz veining, or sulph.		26223	305	310	5	N	
		166 - 170.3 No sulphides.		26224	325	330	5	T	
				26225	330	335	5	T	
170.3	230.2	MEDIUM GRAINED DARK GREY TO DARK GREEN INTRUSIVE ROCK (9)	No sulphides	26226	350	355	5	.005	
		The intrusive is of diorite comp. The diorite has a lower contact with		26227	355	360	5	T	
		the underlying felsic agglomerate of 80° to C.A.		26228	385	390	5	N	
		Within this diorite intrusive there are several short sections that are		26229	400	405	5	N	
		coarser grained and have a greater percentage of felspar. These units	—	26230	425	430	5	N	
		could be dikes cutting the diorite.		26231	455	460	5	N	
		The coarser grained units occur at: 185.5 - 186.5. This section consist		26232	475	480	5	N	
		of 60% feldspar with grains upto ¼" and 40% mafic minerals.		26233	500	505	5	N	
		189.5 - 192.0: Intrusive dike - same as above.							
		The section between 219 - 230.2 is also							
		coarse grained, however, it is most likely							
		a coarser grained section of the diorite.							
		The diorite on the whole is composed of about							
		50% mafic minerals which have strong chl.							
		alt. and 50% feldspar which display mod.							
		soussurite alt. The diorite doesn't have							
		any quartz veining or sulphides.							
		170.3 - 230.2 - no sulphides.							
230.2	256.7	COARSE GRAINED DARK GREEN FELSIC AGGLOMERATE (4b)	tr py						
		This unit is the same as the agglo. unit above. The agglom. has a lower							
		contact at 65° to C.A. This unit is composed of 60-65% felsic fragments							
		and 35-40% mafic matrix. The felsic fragments range in size from 1/10"							
		to 1" however their average size is around ½". These felsic fragments							
		have been altered around the edges and have a green tinge. The mafics							
		minerals have very strong chl. alt. This sec. has no qtz.veining, only tr diss. py.							

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
256.7	361.0	FINE TO MED. GRAINED GRAY TO DARK GREEN INTRUSIVE ROCK (9) The rock is of diorite composition. Lower contact 40° to C.A. The rock is composed of chl. amphibole grains and saussuritized plagioclase grains. In sections of this unit the feldspar grains have abundant hematite staining, thus giving them a pink colour. The rock is composed of about 40° feldspar grains and 60% mafic minerals and the rock is not magnetic. The amphibole grains display some crystal structure, however the feldspar grains are quite anhedral, and appear to fill the areas between the amph. grains. There are several fine grained short < 4" felsic dikes? and 3, >1' but < 2' ones between 321 - 332. These dikes? have minor muscovite alt. and no sulphides. The diorite is highly broken between 336 - 345. There is a mafic dike between 345 - 348.5. This dike is very dark green in colour and highly chl. and was most likely of gabbroic comp. There is minor diss. py assoc. with this dike. From 357 - 360 there is a shear zone with abundant hematite staining and many of the shear surfaces have slickensides. The diorite has no quartz veining and no noticeable sulphides.						
361.0	377.3	COARSE GRAINED DARK GREEN FELSIC AGGLOMERATE (4b) Lower contact 90° to C.A. The felsic agglomerate is composed of about 60% felsic fragments and 40% chloritized matrix. All the felsic fragments have an irregular outline and most have abundant hematite staining. Many of the felsic fragments also display scericite and epidote alt. The felsic agglomerate has no quartz or quartz-carb veining and only tr py assoc. with the chloritic matrix.	tr py —					
377.3	392.8	MEDIUM GRAINED DARK GREEN MAFIC INTRUSIVE (9) Its lower contact with felsic agglomerate is not well defined. This unit contains an increase in the amount of mafic minerals and less feldspar. The rock now appears to be more of a gabbro comp. than a diorite, however this comp. difference could be only apparent, due to the increase in colour index. The mafic minerals are highly chloritized and the feldspar display mod; saussurite alt. The intrusive contains hematite staining along some of the joints. There is no quartz or quartzcarb veining and no noticeable sulphides.	no sulphides					
392.8	413.4	COARSE GRAINED DARK GREEN FELSIC AGGLOMERATE (4b) Within this unit there are several intrusive units. These intrusive units occur at: 403.2 - 406.5 upper and lower contact 30° to C.A. There is a feldspar rich unit at 407 - 407.5 80% feldspar. 410.2 - 411.4: Upper and lower contact about 70° to the C.A. The felsic agglomerate is composed of 50% - 60% felsic fragments & 40-50% chl. matrix.	tr py					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
392.8	413.4	Contd. The matrix has strong chl. alt. and many of the felsic fragments display mod. to strong sericite and epidote alt. The felsic agglomerate has no quartz-carb or quartz veining and only tr py assoc. with the chl. matrix.						
413.4	428.4	MEDIUM GRAINED DARK GREEN INTRUSIVE (9) Lower contact 15-20° to C.A. This unit is the same as the intrusive unit above 377.3 - 392.8. This section has trace quartz-carb. veining. These veins are usually <¼" and there are about 2-3 veins per 10' interval. The intrusive has no noticeable mineralization.	no min.					
428.4	471.8	FINE TO MED. GRAINED DARK GREEN MAFIC FLOW (1a) Lower contact 40° to C.A. Foliation is not very well developed. The rock is mainly composed of very tiny mafic minerals and feldspar grains. There are also the occasional 2-4mm subhedral feldspar phenos., as well as a few quartz-carb. filled vesicule scattered throughout. The mafic flow has good chl. alt. There is about 1" of quartz-carb. veining/15-20', and only tr diss. po, py.	tr diss. po, py.					
471.8	473.7	MED. GRAINED DARK GREEN INTRUSIVE ROCK (9) Same as intrusive unit above. Lower contact 15-20° to C.A. This unit has no quartz or quartz-carb. veining or sulphides.						
473.7	485.6	COARSE GRAINED DARK GREEN FELSIC AGGLOMERATE (4b) Lower contact sharp at 85° to C.A. This unit is composed of about 50-60% felsic fragments and 40-50% chl. matrix. The felsic fragments are about 50% altered to scericite and epidote. There isn't any quartz or quartz-carb. veining and only tr diss. py assoc. with the chloritic matrix.	tr diss. py					
485.6	513.0	MEDIUM GRAINED DARK GREEN INTRUSIVE ROCK (9) This unit is the same as the intrusive unit above. There is a 1" barren quartz vein at 503.2. There is a short intermediate to mafic flow unit at 501 - 503.5. As usual this section has no sulphide mineralization.	No sulphides.					
	513.0	END OF HOLE						

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	243 + 00 NORTH	STARTED	March 1st, 1976						
HOLE NO.	38W - 5	DEPARTURE	L 38 + 00 EAST	FINISHED	March 10th, 1976	200'	41°				
BEARING	180° SOUTH	ELEVATION		LENGTH	547 FEET	400'	37°				
COLLAR	- 45° SOUTH	SECTION		LOGGED BY	P. BROWN						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
				26097	115	120	5	.01
0	86.8	CASING		26098	120	125	5	.01
				26099	135	140	5	T
86.8	205.3	FINE GRAINED DARK GREEN MAFIC FLOW (1a)	minor po, tr cpy	26100	140	145	5	T
		Foliation is not very well developed, however where recognizable, it is		26101	145	150	5	T
		at a low angle to the C.A. around 20° - 30°.		26102	150	155	5	T
		From 88.5 - 89.0 there is a finer grained and light green inter. to		26103	155	160	5	.01
		mafic unit with sharp upper and lower contacts at 60° to C.A.		26104	160	165	5	T
		From 94.2 to 95.0 there is another unit, the same as 88.5 - 89.0, also		26105	165	170	5	.005
		with sharp contacts, this time 75° and 85° respectively.		26106	170	175	5	.005
		The mafic flow has very strong chlorite alt. throughout and very little		26107	175	180	5	T
		to nil bio. alt.		26108	180	185	5	.01
		There is not very much quartz veining and only about 1" of quartz-carb.		26109	185	190	5	T
		veining/5' , and most of these veins are very thin and usually barren		26110	205	210	5	T
		or have tr po at best. Many of the quartz-carb. veins display ptygmatic		26111	210	215	5	T
		folding and run down the C.A.		26112	230	235	5	T
		119.0: 1" quartz-carb. vein, tr po.		26113	235	240	5	.01
		139.5: 5" quartz-carb. vein with abundant orangish		26114	240	245	5	.01
		red grains of k-spar and 2-3% po and tr cpy.		26115	255	260	5	T
		150.5: 1" quartz-carb. vein also with k-spar grains		26116	260	265	5	T
		and 2-3% po.		26117	265	270	5	T
		153.8: ½" quartz vein tr po, py.		26118	270	275	5	T
		166.5: tr po in the mafic flow		26119	275	280	5	T
		175.3: 1" quartz carb. vein with 5% po and 1-2% cpy		26120	320	325	5	N
		178.5: 2mm band of po in the mafic flowalong a		26121	325	330	5	T
		possible fracture perpendicular to the C.A.		26122	350	355	5	T
		186.7: 1/8" quartz vein 30% to C.A., minor po and		26123	355	360	5	T
		tr cpy.		26124	410	415	5	T
		86.8 - 205.3: Minor po and tr cpy.		26125	415	420	5	N
				26126	420	425	5	N
205.3	211.5	COARSE GRAINED DARK GREEN GABBRO (6c)		26127	435	440	5	N
		This section consist of ¼" pyroxene grains in a groundmass of fine		26128	440	445	5	N
		grained altered pyroxene and minor fine grained feldspar. The gabbro		26129	445	450	5	N
		is weakly magnetic throughout and fairly strongly magn. from 209 - 210.		26130	450	455	5	N
		over this one foot the rock has been well serp. and is slightly talcy.		26131	455	460	5	N
		Minor light green serp. ais also found on the core surface over the one		26132	460	465	5	N
		foot. This section has no veining and no noteworthy sulphides.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
211.5	280.5	FINE GRAINED DARK GREEN MAFIC FLOW (1a) MAFIC TUFF (1c) Foliation well developed down the C.A. about 30° to C.A. This section has a felsic tuff (4c) unit between 243 and 247. The last foot between 246 and 247 is really interbedded mafic tuff and felsic tuff. The upper contact of this unit is about 45° to C.A. and the lower contact of the felsic tuff is about 80° to the C.A. This felsic tuff also has a few red 1-2mm garnets scattered throughout. There are also several other short 1-2" felsic tuff units between 211.5 and 280.5 with contact angles varying between 30° and 90° to C.A. The felsic tuff units lack quartz-veining and sulphides. The mafic flows which are mainly between 211.5 to 243.0 and 247.0 to 258.0. are fine grained with strong chlorite alt. throughout and very weak to nil bio. alt. This section 211.5 - 280.5 has very minor quartz and quartz-carb. veining and only tr sulphides. 238.4 - 239.2 quartz vein running down the C.A. at angle of 20-30° with minor po and tr cpy.	Tr sulphides					
280.5	316.3	FINE GRAINED LIGHT GREY FELSIC TUFF (4c) The felsic tuff has an upper contact about 20° to C.A. There are several mafic tuff units in this section and these units occur at: 286.0 - 286.75: Upper and lower contacts 45°. 294.15 - 294.55: 300.8 - 305.0: Upper contact 20° lower contact 60°. The mafic tuff units have good chlorite alt, no veining or sulphides. The felsic tuff units have minor scericite alt. no quartz or quartz-carb. veining and no sulphides.	No sulphides					
316.3	346.7	FINE GRAINED DARK GREEN MAFIC FLOW (1a) and MINOR MAFIC TUFF (1c) Foliation is at a low angle to the C.A. æound 20-30°. The mafic tuff occurs between 342.7 and 346.7. This section has strong chlorite alt. throughout and only weak to nil bio. alt. There is very little in the way of quartz or quartz-carb. veining and only minor py filling a few fractures. Minor py.	minor py					
346.7	350.3	FINE GRAINED LIGHT GREY FELSIC TUFF (4c) The felsic tuff has an upper contact about 50° to C.A. This section has scattered white fragments throughout, and very little if any alt. There isn't any quartz or quartz-carb. veining and no sulphides.						
350.3	359.0	COARSE GRAINED DARK GREEN NON-MAGN. GABBRO (6c) This unit has an upper contact with the felsic tuff of about 60° and a lower contact with felsic tuff of 20°. The gabbro has a 6" to 8" chilled margin at its upper & lower contacts. The rock consist of 1/8" pyroxene grains in a groundmass of pyroxene & minor feldspar. This section has strong chl. alt. and mod. bio. alt. however, there isn't any serp.	tr py					

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
350.3	359.0	Contd.						
		The gabbro doesn't have any quartz or quartz-carb. veining and only tr py.						
359.0	374.0	FINE GRAINED LIGHT GREY FELSIC TUFF (4c)						
		This section is a continuation of the felsic tuff immediately above the gabbro between 350.3 and 359.0.						
		The felsic tuff has a lower contact of 35° to the C.A.						
		There are a few scattered 1-2mm size red garnets. There isn't any quartz or quartz-carb. veining and no sulphides.						
374.0	412.0	FINE GRAINED DARK GREEN MAFIC FLOW (1a)	tr py					
		The mafic tuff occurs in the last 2½' of this section and has bedding between 70° and 80° to C.A. At 411.8 there is a 1" band of felsic tuff (4c) about 80° to C.A. Both the mafic flow and tuff have strong chl. alt. and weak bio. alt. There is only very minor quartz-carb. veining, tr py.						
		There is a barren 1" quartz-carb. vein at the lower contact.						
412.0	423.5	A MIXTURE OF MAFIC TUFF (1c) and GABBRO (6c) WITH MINOR FELSIC TUFF (4c)	tr py.					
		412 - 415: Gabbro (6c)						
		415 - 415.3: Felsic tuff (4c)						
		415.3 - 415.7: Mafic tuff (1c)						
		415.7 - 415.8: Felsic tuff (4c)						
		415.8 - 417.0: Gabbro (6c)						
		417.0 - 418.6: Mafic tuff (1c)	—					
		418.6 - 420.2: Gabbro (6c)						
		420.2 - 421.3: Mafic tuff (1c)						
		421.3 - 423.5: Gabbro (6c)						
		The contacts between the felsic tuff and mafic tuff are between 40 - 60° to C.A. Those between the gabbro and mafic tuff appear to be more or less parallel to the bedding in the tuffs. The gabbro is medium grained, non mag. and has strong chl. alt. and weak bio. alt.						
		This section doesn't have any quartz or quartz-carb. veining and only tr diss. py.						
423.5	531.5	FINE GRAINED DARK GREEN MAFIC TUFF (1c) MINOR MAFIC FLOW (1a)						
		Bedding in the tuffs is around 60-70° to C.A. This section has strong chl. alt. throughout and no bio. alt. There is only minor quartz and quartz-carb. veining which are usually around 60° to C.A. and barren or have tr sulphides at best. Minor py occurs along a few fractures and in 1-2mm bands parallel to bedding.	minor py, py+ tr cpy					
		437.0: Minor py along a fracture.						
		445.0: ¼" quartz-carb. vein, tr py.						
		449.0: 1/8" quartz-carb. vein 50% filled with py, minor cpy.						
		454: ½" quartz carb. vein, partly filled with py. 464.8: ½" q.v. minor po, py, cpy						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
531.5	547.0	FINE TO MEDIUM GRAINED DARK GREEN SLIGHTLY AMPHIBOLITIZED MAFIC FLOW (Ia)						
		531.5 - 532.0: A short 6" section that looks like highly chloritic gabbro (6c)						
		The mafic flow has strong chlorite alteration and weak biotite alteration. There is very minor quartz-carb. veining and no sulphides.						
	547.0	END OF HOLE						

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

						DIP TEST					
PROPERTY	DETOUR LAKE	LATITUDE	234 + 50 NORTH	STARTED	Feb. 19th, 1976	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	76 - 38W-3	DEPARTURE	L 92 + 00 EAST	FINISHED	Feb. 23rd, 1976	200'	38½°				
BEARING	360° NORTH	ELEVATION		LENGTH	557 FEET	400'	34½°				
DIP COLLAR	- 45°	SECTION		LOGGED BY	P. BROWN						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Cu.		ASSAYS Zn.
				25996	95	100	5	T	.03		
0	80.0	CASING		25997	100	105	5	.005	.06		
				25998	105	110	5	.01	.05		
80.0	180.0	FINE GRAINED DARK GREEN MAFIC TUFF (1c)	80- 180 tr sulph.	25999	110	115	5	.01	.07		
		Bedding well developed at 60° to C.A. There are two short 1-2' sections	except 158 - 168	26000	115	120	5	T	.10		
		that look like mafic flows. These occur at 143.5 - 144 and 152.3 - 155.	5% po, and minor py	26001	135	140	5	.005	.13		
		In the tuffs the bedding is lamellar in appearance and at quite a uniform	and 1/10% cpy	26002	140	145	5	T	.06		
		angle to the C.A. throughout.		26003	145	150	5	T	.08	.14	
		Chl. is the predominant alt. mineral throughout, while phlog. bio. alt.		26004	150	155	5	T	.10	35'	.003
		although present is restricted to areas adjacent to the few quartz-carb.		26005	155	160	5	T	.11		.003
		veins present. This phlog. - bio. is a reddish brown in colour.		26006	160	165	5	.02	.34		.005
		There is about 1" of quartz-carb. veining/15' and most of the veins have		26007	165	170	5	.015	.14		.005
		minor late py.		26008	170	175	5	.005	.01		.004
		po in the form of thin 1-3mm bands parallel to bedding is diss. through-		26009	195	200	5	T	.018		
		out and occasionally cpy is assoc. with the po. Minor po is also found		26010	200	205	5	.005	.14		
		as stringers.		26011	205	210	5	T	.003		
		Tr cpy occurs at 102; 119 and 137.4. From 158 - 168 sulphide min.		26012	210	215	5	T	.01		
		picks up and there is about 5% po and minor py and 1/10% cpy.	—	26013	215	220	5	.075			
		The phlog. bio. alteration is quite well developed in this 10' section as		26014	220	225	5	.01			
		well as chlorite. Excluding this 10' section there is only tr sulphides		26015	235	240	5	T			
		min. from 80 - 180.		26016	250	255	5	.01			
				26017	255	260	5	T			
180.0	280.0	FINE GRAINED DARK GREEN MAFIC TUFF (1c) INTERBEDDED FLOWS	(1a)	26018	260	265	5	T			
		Bedding well developed at 70° to C.A. There is strong chl. alt. through-		26019	265	270	5	.005			
		out and weak to mod. phlog. - bio. alt. phlog. -bio. alt. is mainly		26020	270	275	5	.005			
		restricted to the tuffs and adjacent to quartz-carb. veining.		26021	275	280	5	T			
		The mafic flows occur at 192 - 196.5, 215 - 242 and 256 - 260.		26022	280	285	5	T			
		There is a 1" felsic dike at 196 and a 4" felsic dike at 215.5.		26023	285	290	5	.04			
		The dikes cut the C.A. at a high angle 60-80°. The flow tuff contacts		26024	290	295	5	.005			
		are also at a high angle around 60-70°.		26025	295	300	5	T			
		There is only about 1" of quartz-carb. veining/20', SExcept from		26026	300	305	5	.01			
		252 - 254 where there is about 6" of quartz-carb. veining. In this		26027	305	310	5	.005			
		quartz-carb. vein at 254 there are a few specks of a mineral with a		26028	310	315	5	.005			
		reddish blue tinge and a high luster. This mineral is possibly sphal.		26029	315	320	5	.01			
		Tr cpy in 1mm bands parallel to bedding is found in several locations,		26030	320	325	5	T			
		usually assoc. with po.		26031	325	330	5	.005			
		There is a 2" quartz vein at 237.6 with tr po, py.		26032	405	410	5	T			
		180 - 280: trsulphides.		26033	410	415	5	T			
				26034	415	420	5	T			

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Cu.	ASSAYS Zn.
280.0	328.0	FINE GRAINED DARK GREEN MAFIC TUFF (1c)		26035	420	425	5	.005		
		There is a short inter. to felsic tuff unit between 321.5 - 322.3. This	2% po, py and tr cpy.	26036	425	430	5	.005		
		tuff unit is dark grey with abundant biotite -phlog. alt. parallel to bedding.		26037	430	435	5	.01		
		The mafic tuff has abundant chl. alt. and a mod. amount of phlog. bio.		26038	455	460	5	.005		
		alt. A 1" quartz-carb. vein at 286.3 has minor po, py and cpy. There		26039	480	485	5	T		
		is a 3" quartz-carb. vein at 319.5 which contains 10% py.		26040	485	490	5	T		
		Po py parallel to bedding is found in 1-2mm bands throughout.		26041	500	505	5	T		
		280.0 - 328.0: 2% po, py, tr cpy.								
328.0	415.0	FINE GRAINED DARK GREEN MAFIC FLOW (1a) AND MINOR								
		INTERBEDDED MAFIC TUFF (1c)								
		There are three short intermediate to felsic dikes in this section. These								
		occur at 393.5 - 394; 408 - 408.1 and 409.3 - 409.6.								
		The mafic flow and tuff has strong chlorite alt. and very little phlog.-								
		bio. alt. There are only a few very thin 2-3mm veinlets of quartz-carb.								
		and these veinlets contain only tr po, py mineralization.								
415.0	416.0	CRYPTOCRYSTALLINE PALE PINK CHERT (3)								
		Upper and lower contacts about 80° to C.A. The chert has abundant								
		hairline fractures and a 4mm barren quartz vein. The chert has no								
		sulphides mineralization.								
416.0	501.5	FINE GRAINED DARK GREEN MAFIC FLOW AND TUFF INTERBEDDED	(1a + 1c)							
		There are two felsic to intermediate tuff units in this section. One, a								
		2" unit at 427.1 and the other is an 8" section at 497.5 - 498.2.	trsulphides.							
		The main mafic flow unit is between 444 - 477; However, within this								
		unit there are several 1'-2' sections of mafic tuff.								
		This section has abundant chl. alt. throughout and very light phlog.-bio.								
		alt. and only minor po, py parallel to bedding assoc. with the mafic tuffs								
		427.6: 2" q.v. - barren.								
		457.5: 2" q.v. - barren								
		416 - 501.5: Tr sulphides.								
501.5	514.0	FINE GRAINED DARK GREEN MAFIC TUFF (1c) MINOR MAFIC FLOW	(1a)							
		Bedding well developed at 55° to C.A. There is strong chl alt. throughout								
		and very little phlog.-bio. alt. There is a 1" quartz-carb. vein at 513.6								
		adjacent to the lower contact of this unit and it has minor py.								
		Tr sulphides.	Tr sulphides.							
514.0	555.0	MEDIUM TO COARSE GRAINED DARK GREEN AMPHIBOLITIZED MAFIC FLOW (1a)								
		There are several short 1" to 6" sections of fine grained highly chl.								
		mafic tuff (1c) These tuff units have contact angles of 60- 80° with the								
		C.A. There isn't any noteworthy quartz-carb. veining in this section								
		and no sulphide mineralization.								

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

PROPERTY DETOUR LAKE HOLE NO. 76 - 38W-3 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
555.0	557.0	FINE GRAINED DARK GREEN HIGHLY CHLORITIZED MAFIC TUFF (1c)						
		Bedding about 70° to C.A.	No sulphides					
		There is a 3/4" barren quartz vein at 556.3.						
		555 - 557: No sulphides.						
	557.0	END OF HOLE						

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

PROPERTY Cetan Lake	LATITUDE 154+00N	STARTED Dec 1st 1976	
HOLE NO. 38W-21	DEPARTURE 300+00 E	FINISHED Dec 6th 1976	
BEARING 360°	ELEVATION	LENGTH 607'	
DIP-COLLAR -45° North	SECTION	LOGGED BY P. Brown	

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200	37°				
400	32°				
600	28°				

Footage From	Footage To	Description	% Mineralization	Sample No.	Footage From	Footage To	Length	Assays				
0	136	Casing.										
136	137.7	M/g Dark to Medium Greyish Green Mafic Tuff 1c Bedding [illegible] at [illegible] 50° to the C.A. This unit has very good chlorite [illegible] [illegible] and [illegible] 1-3 mm [illegible] biotite [illegible] The [illegible] Tuff [illegible] 1-3mm [illegible] qtz carb veining, a [illegible] of which are weakly mineralized with Po, Py. 136-137.7 tr Po, Py	136-137.7 tr Po, Py.									
137.7	174.5	M/g Dark Brownish Green Mafic Flow 1a Bottom contact is not distinct [illegible] [illegible] 6" [illegible] unit. The [illegible] [illegible] chlorite [illegible] [illegible] to weak biotite alteration. There is an increase in the amount of qtz & qtz-carb veining [illegible] 1-3 mm [illegible] at [illegible] to the C.A. [illegible] other [illegible] [illegible]. At 138' there is a 6" qtz carb vein with a 1mm [illegible] of [illegible]. 141.4' ½" qtz-carb vein at 20° to the C.A. tr Py. 137.7-174.5 tr Sulfides	137.7-174.5 tr Sulfides.									
174.5	175.7	F/g to M/g Dark Greyish Green Intermediate To Felsic Tuff 2c-4c There [illegible] contacts between the [illegible] & M/g Tuff & [illegible] around 40° to 50° to the C.A. There are very weak [illegible] that [illegible] are [illegible] & [illegible] getting finer upgrade. The tuff units vary in thickness from 1-2" to [illegible] [illegible] < 5'.										

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PROPERTY Detour Lake HOLE NO. 38W-21 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS
174.5	195.7	Con't						
		At the base of each unit there are 1-2mm						
		white fragments of [illegible] composition in a [illegible]						
		grained dark matrix. Going uphole from the						
		base of each unit the fragments appear to be						
		decreasing in size & [illegible] decreasing in numbers.						
		The [illegible] of each unit is [illegible]						
		[illegible] with [illegible] white fragments. The whole						
		[illegible] is composed of such units, however occasionally						
		[illegible] are considerably thicker						
		than the other units.						
		This [illegible] weak to moderate [illegible] Chlorite						
		[illegible] and [illegible] veining.						
		From 195.2 - 195.7 there is a 5" that						
		contains about 40% [illegible] Py & tr cp in a	174.2 - 195.2					
		[illegible] matrix. The sulfides [illegible]	tr to nil Sulfides					
		[illegible]						
		[illegible] Tuff. [illegible]	195.2 - 195.7					
		[illegible] weak [illegible] banding.	[illegible] cp					
		174.5 - 195.2 tr - nil Sulfides						
		195.2 - 195.7 45% Po Py & tr cp.						
195.7	479.35	[illegible] Mafic Tuffs						
		[illegible] at 40° to the C.A.						
		[illegible] around 200' it [illegible] at a lower angle to the						
		C.A. 20°-30°.						
		[illegible]						
		[illegible] very weak [illegible]	[illegible]					
		[illegible]						
		[illegible] the [illegible]						
		There are abundant 1/8"-1/4" [illegible]						
		[illegible] 202'-207'.						
		[illegible] about [illegible] qtz & qtz-carb						
		veining per 5' interval down to 215'. However						
		from 215 to 479.35 the qtz & qtz carb veining	[illegible]					
		drops considerably to about 3-33" in 5'	[illegible]					
		interval. Most of the veins between 215 - 479.35	[illegible]					
		[illegible] angle to the core axis and almost						
		[illegible] barren.						
		From 195.7 to 215 there is about 2-3%						
		Po, Py & minor cp associated with the veining. These						
		veins are often irregular in shape & usually [illegible]						
		[illegible] the C.A.						
		195.5 - 201.5 irregular qtz vein [illegible]						

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PROPERTY [illegible] HOLE NO. 3?0-21 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS				
195.7	479.35	C... [illegible]										
		[illegible] 3?% [illegible]										
		214-215 [illegible] qtz vein with 1-2%										
		Po, Py [illegible]										
		212.3 - 213.5 [illegible] qtz carb vein at 40° [illegible]										
		[illegible]										
		243 [illegible] 2-3 mm qtz [illegible] with										
		[illegible]										
		286 6" qtz carb vein [illegible]										
		[illegible] with 1-2% Py [illegible]										
		Between 195.7 - 215 there are 1-2% [illegible]	195.7 - 215									
		[illegible]	2-3% Po. Py + [illegible]									
		232 [illegible]	215 - 479.35									
		[illegible] qtz carb	[illegible]									
		[illegible]										
		[illegible] there are [illegible]										
		[illegible] the carb [illegible]										
		[illegible]										
		[illegible]										
		[illegible]										
		30?-3?? [illegible] Po [illegible]										
		[illegible] 2" qtz [illegible] Po.										
		5?7 - 2?? [illegible] Po [illegible]										
		2?? - 479.35 [illegible]										
479.35	[illegible]	[illegible]										
		Lower contact about 30° to the c.A.										
		The [illegible] 18" of this unit [illegible] fine grained are										
		[illegible] The										
		gabbro [illegible] $\frac{1}{8}$-$\frac{1}{4}$" grains of olivine scattered										
		[illegible] grains [illegible]	479.35 - 486									
		[illegible] The gabbro is very strongly	[illegible]									
		[illegible] There is only 1"-1½" of qtz + qtz-										
		carb veining [illegible] the veins are	486 - 489 1% Po diss									
		qtz-carb + all are [illegible]										
		[illegible] -489 there is about 1% Po [illegible]	489 - 494.5 [illegible]									
		[illegible] the [illegible] there are [illegible]	[illegible]									
494.5	553	[illegible] Dark to Medium Green highly [illegible]										
		This section of [illegible] flow is quite similar										
		to the [illegible] in composition [illegible]										
		[illegible]										

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

PROPERTY Delaux Lake HOLE NO. 38W-21 Page 4

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS				
494.5	553.6	cont.										
		Between 515-530 there are about 12" of qtz-carb veining. At 516.5 there is a 2" band of 20% Po. at the bottom contact of an 8" qtz carb vein. There is also tr Po scattered throughout the [illegible]	494.5-553.6 tr sulfides									
		The [illegible] the veins in this unit are usually [illegible] always [illegible].	516.5 2" band Po									
553.6	55[illegible]	[illegible] Very Strongly Chloritic Gabbro 6c										
		[illegible] unit could actually be a [illegible] unit. The unit is so strongly chloritized it is very difficult to recognize the [illegible]	553.[illegible]-55[illegible] [illegible] sulfides									
		[illegible] qtz-carb [illegible]										
[illegible]	575.[illegible]	[illegible] 1a										
		[illegible] is weakly [illegible] at 70° to the c.a. Between 565.[illegible]-5[illegible].25 there is a 10.5" unit of [illegible].	556.5-5[illegible].3 [illegible] Po & cp.									
		The [illegible] a [illegible] Po [illegible] 10" banding [illegible]. [illegible] with a 5" qtz-carb vein [illegible] 566.5 [illegible] vein is banded.										
		[illegible]-575.3 [illegible]										
575.3	[illegible]	[illegible]										
		Between 578-582 there is a unit of very [illegible] tuff. Possibly bedding [illegible] strongly [illegible] at 50-65° to the c.a. The [illegible] grains in the gabbro vary from <1/16" to 1/4". There are several 1'-3' sections of gabbro that have been completely [illegible] & all that is left is fine grained chlorite. There is only minor qtz-carb veining & only occasional tr sulfides	575.3-607 occ tr sulfides									
		607 End of Hole										

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

						DIP TEST					
						Footage	Corrected	Footage	Corrected	Footage	Corrected
PROPERTY	DETOUR LAKE	LATITUDE	229 + 50 NORTH	STARTED	April 23rd, 1976						
HOLE NO.	38W-13	DEPARTURE	L 216 EAST	FINISHED	April 28th, 1976	200'	43½°				
BEARING	180° SOUTH	ELEVATION		LENGTH	508 FEET	400'	38°				
DIP COLLAR	- 45° SOUTH	SECTION		LOGGED BY	P. BROWN						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.
				26293	45	50	5	T		
0	12.0	CASING		26294	50	55	5	.005		
				26295	55	60	5	.005		.018
12.0	261.1	FINE TO MEDIUM GRAINED DARK GREEN MAFIC FLOW (1a)		26296	60	65	5	.005		
		12.0 - 100.0: Fine to med. grained dark green highly fractured mafic flow (1a)		26297	65	70	5	T		
		Foliation well developed throughout at 45 - 25° to C.A. Foliation angle decreases down hole.		26298	70	75	5	T		
		There are abundant flow contacts in this section and contact angles are usually around 40-50° to C.A. The change from one flow to another is usually just a slight change in colour, grain size or amount of carbonate.		26299	75	80	5	.005		
				26300	80	85	5	T		
				26301	85	90	5	T		
				26302	90	95	5	T		
				26303	122	127	5	T		
				26304	127	132	5	T		
				26305	155	160	5	T		
				26306	160	165	5	T		
				26307	165	170	5	T		
		The section between 52 - 59' could be a fine to med. grained mafic tuff (1c). Possible bedding is about 35-40° to C.A The tuff has abundant 1mm white fragments alligned parallel to bedding scattered throughout.	12 - 55' - tr py	26308	197	202	5	T		
				26309	202	207	5	T		
				26310	207	212	5	T		
				26311	212	217	5	.01		.61
				26312	217	222	5	.01		.049
		From 62 - 100 there is a fair amount of quartz-carb. in the form of stringers alligned sub-parallel to the foliation (1-2%)		26313	222	227	5	.005		
				26314	227	232	5	T		
				26315	232	237	5	.005		
		The mafic flow has good chl. alt. throughout, and the only good biotite-phlog. alt. is in the possible mafic tuff unit at 52 - 59.		26316	237	242	5	.005		
				26317	242	247	5	.005		
				26318	317	322	5	T		
		From 12 - 55 there is only minor quartz and quartz-carb. veining, tr py.		26319	322	327	5	T		
			55 - 100 - minor to ⅓% po, py, tr cpy	26320	327	332	5	.005		
		From 55- 100 there is an increase in quartz and quartz-carb. veining to about 1" per 5' interval and some of the veins have sulph.		26321	357	362	5	.005		
				26322	407	412	5	T		
				26323	412	417	5	T		
		Some py is also found along a few of the joints present.		26324	417	422	5	T		
				26325	422	427	5	.005		
		55 - 100' minor to ⅓% po, py and tr cpy. The cpy is restricted to a few quartz veins.		26326	427	432	5	T		
				26327	432	437	5	.005		
		59.1: 1" quartz vein 5% po, py minor cpy.		26328	437	442	5	.005		
		80.8: 3" quartz vein, 5-7% po, py and 2% cpy		26329	442	447	5	.005		
		93.0: 1½" quartz vein, tr py								
		93.8: ⅓" quartz vein, with minor fe staining.								

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PROPERTY DETOUR LAKE HOLE NO. 38 W-13 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
12.0	261.1	CONT'D.						
		100.0 - 261.1: Fine to med. grained, dark green highly fractured mafic flow (1a)	minor po, py and occ. minor cpy					
		Foliation weakly developed at 20-40° to C.A.						
		From 187 - 201.6 there is a dark grey medium grained intermediate to mafic flow unit. Lower contact of this unit is at 50° to C.A. This unit contains a mod. amount of chlorite and bio. phlog. alt. There isn't any quartz or quartz-carb. veining and only tr sulphides.						
		From 239.4 - 240.3 there is a short unit of possible mafic tuff (1c) Upper and lower contact about 60° to C.A. The mafic tuff has strong bio. phlog. alt. and good chlorite alt. There is minor quartz-carb. veining and no sulphides.						
		The mafic flow has abundant flow contacts throughout. Contact angles vary between 35° to 70° to C.A. However, most of the contacts are around 45-55° to C.A.						
		The change from one flow to another is usually slight, and most likely a slight change in the colour of the rock, the amount of alt. the amount of carb. blebs or grain size.						
		This section has about 1" of quartz and quartz-carb. veining/5' and most veins have tr sulphides.						
		100.0 - 261.1: Minor po, py and occ. minor cpy.						
		164.3: 2" quartz vein 1-2% cpy						
		171.5: ½" quartz-carb. vein 10% cpy						
		198.5: 1" quartz vein 20° to C.A. - barren.						
		212.5 - 214: A mixture of quartz-veining and mafic flow. 10% py and about 7-10% cpy.						
		237.4 - 237.8: Irregular quartz vein 15% po and minor py and cpy.						
		100.0 - 261.1: Other than these sulphides there is only tr sulphides in the mafic flow.						
261.1	268.8	FINE GRAINED LIGHT GREY FLOW BANDED RHYOLITE (4a)						
		261.1 - 265.6: Rhyolite upper contact 60° to C.A. Lower contact 60° to C.A.						
		256.6 - 266.3: Mafic flow. Lower contact 50° to C.A.						
		266.3 - 266.6: Rhyolite. Lower contact 40° to C.A.						
		266.6 - 267.2: Mafic flow. Lower contact 70° to C.A.						
		267.2 - 268.8: Rhyolite. Lower contact 45-50° to C.A.						
		The Rhyolite has alternating bands about 1½"-2" in width of light grey and dark grey rhyolite. Colour changes due to slight variation in chl. and scericite content. The rhyolite has a few phenos. of white quartz 1-2mm in size scattered throughout. These phenos. are most abundant in the last ½ foot.	No sulphides					

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PROPERTY DETOUR LAKE HOLE NO. 38W-13 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
261.8	268.8	CONTD.						
		The last 4" of this unit is an orange pink in colour. Colour due to staining.						
		The rhyolite has no quartz veining or sulphides. The mafic flow units present are fine grained dark green and highly chloritic. They have no veining or sulphides.						
268.8	269.3	MAFIC FLOW (1a) Same as above.						
269.3	277.0	MEDIUM GRAINED DARK GREY GREEN INTERMEDIATE FLOW (2a)						
		Foliation at 45° to C.A.						
		The rock is composed of amph. grains (now highly altered to chlorite) in a feldspar (now somewhat altered to muscovite and biotite) and quartz matrix.						
		There are scattered white phenos. of quartz or feldspar upto 1mm scattered throughout. This section has minor quartz veining and no sulphides.						
277.0	277.5	FINE GRAINED LIGHT GREY RHYOLITE (4a)						
		Lower contact 45° to C.A. This unit is the same as the Rhyolite unit above.						
277.5	379.1	FINE GRAINED DARK GREEN MAFIC FLOW (1a)						
		Foliation is weakly developed at (40° ?) to the C.A. Lower contact at 60° to C.A. Flow contacts are scattered throughout at 40-50° to C.A.						
		302.8 - 303.8: Fine grained, grayish green intermediate flow (2a) Upper contact 45° to C.A. Lower contact 50° to C.A.						
		332 - 334: Bio-phlog. rich flow unit.						
		336 - 336.5: Felsic unit. Lower contact 45° to C.A.						
		The mafic flow has strong chl. alt. and weak bio.-phlog. alt. throughout.						
		From 277.5 - 325: the mafic flow is very fine grained and massive. However, the core is highly fractured. There are also a number of fractures that have been resealed by quartz-carb.						
		Just about all the quartz-carb. veins present are 1-2mm in width and always barren.						
		306.0: 3/4" quartz vein - barren.						
		From 325 - 339: There is an increase in bio.-phlog. alt.	277.5 - 379.1 tr sulph.					
		321.0: Tr cpy in a ¼" quartz-carb. vein.						
		326.5: 5" quartz-carb. vein barren.						
		339.0 - 379.1: The flow is now med. grained with foliation about 40° to C.A. This section has scattered 1/8" quartz-carb. veins throughout.						
		357.1: 1" quartz vein barren. 277.5 - 379.1 = tr sulphides.						

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
379.1	382.8	FINE GRAINED DARK GREY FELSIC TUFF (4c)	no sulphides					
		Lower contact 50° to C.A. Between 380 - 380.9 there is a short unit of chloritized mafic flow.						
		The felsic tuff has small 1-2 mm fragments? of quartz? scattered throughout. At 379.8 1" quartz vein barren.						
		The felsic flow has slight scericite alt. and no sulphides.						
382.8	412.0	FINE TO MED. GRAINED DARK GREEN MAFIC FLOW (1a)	tr po, py					
		From 387 - 412 - the core appears to be highly fractured and then recemented. Most of the cemented fractures are now dark green chlorite. There are also some later fractures which cut the earlier ones and are now filled with quartz-carb.						
		From 405.5 - 408 the core is composed of about 30-40% felsic fragments in a chlorite rich mafic matrix. Fragments range in size from 1-2mm to 4-5cm. These fragments become larger towards the top and are all alligned subparallel to the foliation. This section has minor quartz-carb. veining and only tr po, py.						
412.0	477.2	COARSE GRAINED DARK GREEN FELSIC AGGLOMERATE (4b)						
		Foliation well developed at 40-50° to C.A. 95% of the rock is composed of a coarse grained dark green chlorite rich mafic matrix. The mafic matrix is composed mainly of large amphi. grains and fine grained feldspar.						
		Biotite-phlog. alt. is also well developed throughout.						
		1-2% of the rock is composed of felsic fragments. The felsic fragments are highly fractured and oval shaped, but with very irregular boundaries and highly altered to saussurite and epidote.	tr sulphides.					
		These fragments vary in size from ¼"-3/4". About 3 % of the rock is composed of 1-1-2mm white fragments most likely of the same comp. as the larger ones.						
		466.5 - 466.9: 5" section of TALC CARB. The talc carb. is mag. and contains about 10-15% streaky carbonate. This section has only minor quartz and quartz-carb. veining and tr sulphides.						
		425.1: tr cpy in a 1/3" quartz vein. 477.2: Lower contact 15-20° to C.A.						
477.2	508.0	FINE GRAINED DARK GREEN MAFIC FLOW (1a)	tr sulphides					
		Foliation weakly developed at 45-50° to C.A. This section has a few flow contacts throughout. Contact angles vary between 40-50° to C.A. This section has strong chl. alt. and weak bio. alt. The last 2½' is inter. to felsic in comp. and the last 8" has broken felsic fragments in a mafic matrix. The inter. to felsic unit has good bio. phlog. alt. The whole section has minor quartz and quartz-carb. veining and tr sulphides.						
	508.0	END OF HOLE						

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

Tropari Test 190°. Dip 38o

PROPERTY	DETOUR LAKE	LATITUDE	LINE 176 + 00 E	STARTED	May 26th, 1975
HOLE NO.	38 - 45	DEPARTURE	196. + 00 N	FINISHED	June 4th, 1975
BEARING	180°	ELEVATION		LENGTH	633'
DIP-COLLAR	- 45°	SECTION		LOGGED BY	P. BROWN

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200'	45.5°				
400'	38°				
600'	36°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
0	110	OVERBURDEN		6214	110.0	112.0	2.0	N				All the core sent out
				6215	112.0	113.0	1.0	.05			V.G.	
110	113	Coarse grained dark gray mafic flow. Bottom contact 60° with C.A. A number of specks of V.G. in a quartz vein at 113 (next to contact). The quartz vein is about ¼" wide and also contains minor py.		6216	113.0	118.0	5.0	.005				
				6217	118.0	123.0	5.0	T				
				6218	123.0	128.0	5.0	.01				
				6219	128.0	133.0	5.0	.01				
113	129	Fine grained. Dark green intermediate to mafic flow. Foliation about 60° to C.A. Minor quartz veining. 1" quartz vein at 127.5 - 127.6. Minor thin bands of Py < 1/10" wide along shear planes usually next to quartz veins. Moderate chlorite alteration with greater concentration adjacent to quartz veins.		6220	133.0	138.0	5.0	.01				
				6221	138.0	143.0	5.0	T				
				6222	143.0	148.0	5.0	T				
				6223	148.0	153.0	5.0	.02				
				6224	153.0	158.0	5.0	.01				
				6225	158.0	163.0	5.0	T				
129	135	Fault Breccia. Mainly irregular fragments of intermediate to mafic rock in quartz matrix. Many of the fragments have been partly or completely altered to chlorite. These fragments range in size from <1mm to several inches. Very minor disseminated py.		6226	163.0	168.0	5.0	T				
				6227	168.0	173.0	5.0	T				
				6228	173.0	178.0	5.0	T				
				6229	178.0	183.0	5.0	T				
				6230	183.0	188.0	5.0	.02				
				6231	188.0	193.0	5.0	.01				
135	181	Interbedded fine grained to medium grained dark green mafic and intermediate to mafic tuff and flow. Foliation about 65° to C.A. Moderate chlorite alteration throughout with slightly greater concentration adjacent to quartz veins. Quartz veins occur at 154.7 1" wide; 155.4 ½" wide 168.3 1/3" and 181.0 1" wide. There are also a number of small ones < 1/8" wide mainly between 175 and 181. From 135 - 181 there is minor Py and Po with a few specks of cp. From 178 - 181 there is 1% py and 1% po with Tr cp.	178-181 1% po and 1% Py and Tr cp	6232	193.0	198.0	5.0	.01				
				6233	198.0	203.0	5.0	T				
				6234	203.0	208.0	5.0	.01		.08		
				6235	208.0	213.0	5.0	.01		.07		
				6236	213.0	218.0	5.0	.01		.06		
				6237	218.0	223.0	5.0	.01		.05		
				6238	223.0	228.0	5.0	.04				
				6239	228.0	233.0	5.0	T				
				6240	233.0	238.0	5.0	T				
181	224	Fine grained medium greenish brown intermediate to mafic tuff, with with the last 4' highly chloritic mafic tuff. The mafic tuff is dark green in colour. The brown colour is due to the abundant biotite alteration. Chlorite alteration is also quite well developed throughout. Foliation is about 60° to C.A., conformable with possible bedding. Quarts veining is moderate, however, just about all the quartz veins are < ½" wide. At 195.5 there is a 1" quartz vein. A few sections have been silicified. These are 188 - 189; 205 - 205.3, 211-211.3 and 220-220.5. There is about 1% Py mineralization throughout this section. The Py occurs in thin bands conformable to possible bedding. There is only trace cp.	181-224 1% Py	6241	238.0	243.0	5.0	T				
				6242	243.0	247.0	4.0	.01				
				6243	247.0	248.0	1.0	.01				
				6244	248.0	253.0	5.0	T				
				6245	253.0	258.0	5.0	T				
				6246	258.0	263.0	5.0	T				
				6247	263.0	268.0	5.0	T				
				6248	268.0	273.0	5.0	T				
				6249	273.0	278.0	5.0	T				
				6250	278.0	283.0	5.0	T				

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Au.	ASSAYS Cu.	ASSAYS Zn.
224	256.6	FINE GRAINED, DARK GRAY FELSIC TUFF Foliation about 55° to C.A. The tuff fragments are upto 1mm. Quartz veins occur at 238 ½" wide; 247.1 - 247.2; 247.3 - 247.5; 247.6 - 247.75 and a ½" vein at 144.7 as well as a 1" vein at 249.0. Between the quartz vein at 247 and 247.75 there are thin bands of mafic tuff, and in this tuff there is trace Py. The felsic tuff show trace Py throughout and only a few specks of cp. The contact between the felsic and overlying intermediate to mafic rock is not sharp but the contact with the underlying chloritic rock is and is about 55° to C.A.		6251	283.0	288.0	5.0	T			
				6252	288.0	293.0	5.0	T			
				6253	293.0	298.0	5.0	T			
				6254	298.0	303.0	5.0	T			
				6255	303.0	308.0	5.0	T			
				6256	308.0	313.0	5.0	T			
				6257	313.0	318.0	5.0	T			
				6258	318.0	323.0	5.0	T			
				6259	323.0	328.0	5.0	.01			
				6260	328.0	333.0	5.0	T			
				6261	333.0	338.0	5.0	T			
256.6	274.6	CHLORITE ALTERATION ZONE The chlorite alteration zone is fine grained medium green in colour. Most likely mafic flow originally. Minerals mainly chlorite some talc and minor actinolite-tremolite. Also minor carbonate and minor biotite-very minor quartz veining and the biotite that is present is mainly around these quartz veins. No mineralization foliation is about 55° to C.A.		6262	338.0	343.0	5.0	T			
				6263	343.0	348.0	5.0	T			
				6264	348.0	353.0	5.0	T			
				6265	353.0	358.0	5.0	T			
				6266	358.0	363.0	5.0	T			
				6267	363.0	368.0	5.0	.01			
				6268	368.0	373.0	5.0	.03			
274.6	282.5	SERPENTINIZED ZONE. TALC CARBONATE. This section is dark in colour due to the serpentinized rock with streaks of milky white material, carbonate. The talc/carbonate ratio is about 7:3. This section is quite soft and very flaky. No quartz veining and only minor disseminated Py.		6269	373.0	378.0	5.0	.01			
				6270	378.0	383.0	5.0	T			
				6271	383.0	387.0	4.0	N			
				6272	387.0	389.0	2.0	N			
				6273	389.0	394.0	5.0	N			
282.5	289	CHLORITE ALTERATION ZONE. Same as 256.6 - 274.6.		6274	394.0	398.0	4.0	T			
				6275	398.0	403.0	5.0	N			
				6276	403.0	408.0	5.0	N			
289	298.8	Fine grained light greenish brown intermediate tuff. Brown colour due to abundant biotite alteration. Foliation about 60° to C.A. Chlorite alteration is moderate throughout and in a few places usually ≤2" wide. The rock has been completely altered to chlorite. These sections were most likely thin beds of mafic rock originally within the intermediate tuff. Minor quartz veining. Mineralization minor disseminated Py.		6277	408.0	413.0	5.0	N			
				6278	413.0	418.0	5.0	N			
				6279	418.0	423.0	5.0	N			
				6280	423.0	428.0	5.0	N			
				6281	428.0	433.0	5.0	N			
				6282	433.0	438.0	5.0	N			
				6283	438.0	443.0	5.0	N			
298.8	386	Fine grained dark green mafic tuff mainly; with a few thin beds of gray Felsic tuff. Foliation about 55° to C.A. The felsic tuff occurs at 344-347; 361.2 - 365.5 and 374 - 377. The mafic tuff has light biotite alteration with moderate to heavy chlorite alteration. Fragments in the tuff are usually ≤ 1mm. There are few quartz veins with a width ≥ 1/3". 1/3" quartz vein occurs at 321.2 and a ½" quartz vein occurs at 321.9. Mineralization consists of minor disseminated Py. The felsic units are the same as 224 - 256.5.		6284	443.0	448.0	5.0	N			
				6285	448.0	453.0	5.0	N			
				6286	453.0	458.0	5.0	N			
				6287	458.0	463.0	5.0	N			
				6288	463.0	468.0	5.0	N			
				6289	468.0	473.0	5.0	N			
				6290	473.0	478.0	5.0	N			
				6291	478.0	483.0	5.0	N			
				6292	483.0	488.0	5.0	N			
				6293	488.0	493.0	5.0	N			
386	391	Felsic Agglomerate with cherty tuff from 387-388.3 and 390.3-390.7. The fragments in the agglomerate are pale pink and are upto ½" in diameter. The matrix has almost been completely altered to biotite. The number of fragments increases down hole and the last 1.5' has about 90% fragments and 10% matrix. No quartz veining and only very minor disseminated Py.		6294	493.0	498.0	5.0	T			
				6295	498.0	503.0	5.0	T			
				6296	503.0	508.0	5.0	N			
				6297	508.0	513.0	5.0	N			
				6298	513.0	518.0	5.0	N			
				6299	518.0	523.0	5.0	N			
				6300	523.0	528.0	5.0	N			
				6301	528.0	533.0	5.0	N			
				6302	533.0	538.0	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.
386	391	CONTD.		6303	538.0	543.0	5.0	T			
		Cherty Tuff.		6304	543.0	548.0	5.0	T			
		Fine grained. Pale pinkish gray in colour with abundant fractures with some epidote filling. Upper contact is sharp and is 55° to C.A. The lower contact with the felsic agglomerate is somewhat irregular. The last foot of the cherty tuff is medium gray in colour and maybe a felsic tuff. No quartz veining, very minor disseminated py.		6305	548.0	553.0	5.0	N			
				6306	553.0	558.0	5.0	N			
				6307	558.0	563.0	5.0	N			
				6308	563.0	568.0	5.0	T			
				6309	568.0	573.0	5.0	T			
				6310	573.0	578.0	5.0	N			
391	401.5	Fine grained. Medium green intermediate to felsic tuff with 2 short sections of gray felsic tuff.		6311	578.0	583.0	5.0	N			
		The felsic tuff occur at 396.2 - 398.3 and 399.1 - 400.6.		6312	583.0	588.0	5.0	T			
		The felsic tuff from 400 - 400.6 has a pale pink colour to it and actually maybe a cherty tuff. No quartz veining and only minor disseminated Py.		6313	588.0	593.0	5.0	N			
				6314	593.0	598.0	5.0	N			
		The intermediate to felsic tuff have moderate biotite alteration throughout.		6315	598.0	603.0	5.0	N			
		No quartz veining and only very very minor disseminated Py.		6316	603.0	608.0	5.0	N			
		Foliation about 65° to C.A.		6317	608.0	613.0	5.0	N			
				6318	613.0	618.0	5.0	N			
				6319	618.0	623.0	5.0	T			
400.6	426	Coarse grained. Dark green. Mafic flow which has been amphibolitized. Minor fine grained mafic tuff units at 318.2 - 318.7, 322.7 and 323.5 and 323.7. Rocks consist of mainly feldspar and Hb. Minor irregular quartz veining and very minor disseminated Py. Foliation about 55° to C.A.		6320	623.0	628.0	5.0	T			
				6321	628.0	633.0	5.0	T			
426	526.8	Coarse grained. Dark green. Amphibolitized mafic flow mainly with minor interbedded fine grained mafic tuff units.									
		MAFIC FLOW 426 - 431.6	MAFIC TUFF 431.6 - 436.6								
		436.6 - 443									
		443 - 454.8 thinly bedded coarse grained, mafic flow and fine grained mafic tuff, with heavy chlorite alteration.									
		454.8 - 461.8									
		461.8 - 463.1 Felsic tuff contact 60°.									
		463.1 - 463.9 Chlorite Zone									
		463.9 - 464.2									
		464.2 - 467 chloritic rock with a quartz vein between 466.2 and 466.6 with a speck of cp.									
		467 - 479	479 - 480.4 highly chloritic	479-480.4 minor diss.Py							
		480.4 - 487.8	487.8 - 494								
		494 - 502									
		502 - 502.4 Felsic tuff, same as felsic tuff units above. Contact 60°.									
		502.4 - 518.6									
		518.6 - 521 Felsic Tuff quite cherty									
		MAFIC FLOW 521 - 522.5	MAFIC TUFF 522.5 - 523.2								
		523.2 - 526.8									
		Chlorite alteration is moderate in the amphibolitized flow and heavy in the mafic tuff. 1" quartz vein at 427. Mineralization very very minor disseminated Py.									
526.8	541.5	Fine grained. Dark gray felsic tuff. Bedding about 55° to C.A. There is a thin bed of mafic tuff between 531.5 and 532.3. Fragments in the felsic tuff are upto 1mm. The felsic tuff is somewhat cherty for the first 5',									

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

PROPERTY DETOUR LAKE HOLE NO. 38 - 45

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
526.8	541.5	CONTD. and is pale pink in colour. The fragments in the mafic tuff are also about 1mm. No quartz veining and no mineralization.						
541.5	545	Fine grained. Dark green amphibolitized mafic flow with a felsic unit between 543.2 and 543.8. No quartz veining and 2 small blebs of Py - one a at 544.2 $\frac{1}{2}$" wide and the other is at 545.2 $\frac{1}{4}$" wide. Foliation about 50° to C.A.						
545	552.7	Fine grained. Dark green Mafic tuff Fragments upto 1mm. Foliation about 55° to C.A. Minor quartz veining and no mineralization.						
552.7	555	Serpentinized rock. Talc Carbonate. Talc dark to black in colour. The carbonate which is abundant give the rock a streaky appearance.						
555	578.5	Mainly fine grained Dark green intermediate to mafic flow with minor mafic tuff. Very minor quartz veining and minor disseminated Py.						
579.5	579.8	Coarse grained. Felsic Agglomerate. The milk white felsic fragments are upto one inch in size. The fragments are alligned almost perpendicular to C.A. Matrix is fine grained mafic tuff. Minor carbonate alteration at 579.4. No quartz veining and no mineralization.						
579.8	590	Fine grained. Dark green intermediate to mafic tuff. Fragments upto 1mm. Foliation 60° to C.A. Minor quartz veining and no mineralzation.						
590	604.5	Fine grained. Grayish brown intermediate tuff. Foliation 60° to C.A. Brown colour due to abundant biotite alteration. Very minor quartz veining and no mineralization.						
604.5	633	Fine grained. Dark green mafic tuff. Highly chloritic. Foliation about 60° to C.A.. Tuff fragments upto 1mm all alligned at 60°. A 3" intermediate tuff section at 627. No quartz veining and no noticeable mineralization.						
	633	END OF HOLE						

TROPARI	DIP	AZ.
450'	40o	182½°
900'	31°	181½°
1247'	19°	185½°

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

						DIP TEST					
PROPERTY	DETOUR LAKE	LATITUDE	205 + 00 NORTH	STARTED	June 7th, 1976	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	38 - 127	DEPARTURE	L 154+ 00 EAST	FINISHED	June 19th, 1976	200	46½°	800	31½°		
BEARING	180° SOUTH	ELEVATION		LENGTH	1247 FEET	400	40½°	1000	30°		
DIP COLLAR	- 50°	SECTION		LOGGED BY	P. BROWN	600	36½°	1200	21°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	102.0	CASING	
102.0	200.0	INTERBEDDED FINE GRAINED, DARK GREEN, MAFIC FLOW AND MAFIC TO INTERMEDIATE TUFF (1a , 1c - 2c)	tr sulphides
		The mafic tuff and flow units occur as follows:	
		102.0 - 105.0: Mafic tuff	
		105.0 - 148.1: Mafic flow and minor tuff	
		148.1 - 166.4: Mafic to intermediate tuff	
		166.4 - 167.0: Mafic dike (Lamphoyre dike)	
		167.0 - 170.5: Mafic to intermediate tuff	
		170.5 - 200.0: Mafic flow	
		Bedding in the tuffs are usually around 50° - 60° to C.A. However, in the flows the contact angle varies considerably from 30-75° to C.A.	
		The mafic dike has upper and lower contacts about 70° to C.A.	
		This section has good chlorite alteration throughout and moderately developed biotite - phlogopite alteration in the mafic to intermediate tuff.	
		The mafic flows have about 3" of quartz carb. veining/5' interval and most veins are barren. There is very little quartz veining and only tr po, py. The mafic to intermediate tuff generally have less veining however, there is slightly more po, py occuring along bedding. However, it is still only minor.	
		At 165' - ½" quartz vein 50° to C.A., tr po, py and a few specks of cpy.	
		102.0 - 200.0: tr sulphides.	
200.0	266.5	MEDIUM GRAINED, DARK GREEN, MAFIC FLOW (1a)	tr to minor sulphides
		From 204 - 209' there is a section of mafic tuff. The mafic tuff has bedding 40 - 45° to C.A. The mafic flow is fairly massive with very weak foliation.	
		From 262.5 - 266.2 there is a coarse grained felspar rich mafic dike. This dike has a 6" chilled upper margin and a 3" chilled lower margin. This dike is the same as the one seen in the upper parts of holes 118, 120 and 121. This dike also has good chlorite alteration.	
		Both the flows and tuffs have good chlorite alteration and the tuffs have moderate biotite -phlogopite alteration. The first 8' has about 12" of quartz veining and these veins are usually barren or have tr sulphides at best, except for a ½" quartz vein at 207.8, which is 20% filled with cpy.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.		ASSAYS Cu.		
31929	155	160	5	.03				
31930	160	165	5	.04				
31931	165	170	5	.02				
31932	170	175	5	.04				
31933	200	205	5	.03				
31934	205	210	5	.14	.17	.08		V.G.
31935	210	215	5	.20	10'			
31936	215	220	5	.056				
31937	375	380	5	.01				
31938	380	385	5	.01				
31939	385	390	5	.03				
31940	390	395	5	.02				
31941	485	490	5	.005				
31942	490	495	5	.01		.10		
31943	495	500	5	.015		.11		
31944	500	505	5	.025		.11		
31945	505	510	5	.115		.08		
31946	510	515	5	.02		.07		
31947	515	520	5	.03				
31948	520	525	5	.015	.31			
31949	525	530	5	.314	5+			
31950	530	535	5	.045				
31951	535	540	5	.025				
31952	540	545	5	.005				
31953	545	550	5	.01		.07		
31954	550	555	5	.015		.13		
31955	555	560	5	.015		.09		
31956	560	565	5	.01		.07		
31957	565	570	5	.005		.05		
31958	570	575	5	.02		.12		
31959	575	580	5	.02		.10		
31960	580	585	5	.015		.10		
31961	585	590	5	.064		.15		
31962	590	595	5	.055		.17		
31963	595	600	5	.025		.15		
31964	600	605	5	.01		.09		
31965	605	610	5	.015				
31966	610	615	5	.01				
31967	615	620	5	.035				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au.		ASSAYS Cu.		
				31968	620	625	5	.01				
200.0	266.5	CONTD.		31969	645	650	5	.01				
		At 204' there is an 8" barren quartz vein.		31970	650	655	5	.045				
		From 208' to 266.5' there are about 2" of quartz veining /5' interval		31971	655	660	5	.084		.02		V.G.
		and very little quartz carb. veining. Just about all the veins are $< \frac{1}{2}$".		31972	660	665	5	N				
		208.7' - $\frac{1}{2}$" quartz vein 60° to C.A. with 10% cpy and 2 specks of V.G.	V.G.	31973	665	670	5	.025				
		240.3' - $3\frac{1}{2}$" quartz vein - barren.		31974	690	695	5	.125	.116	.02		
		200.0 - 266.5: tr to minor sulphides.		31975	695	700	5	.107	10'			
				31976	700	705	5	.025		.22		
266.5	272.0	FINE GRAINED, DARK GRAYISH GREEN INTERMEDIATE FLOW (2a)		31977	705	710	5	.015				
		Foliation is very weakly developed at 50° to C.A. Upper contact 50°		31978	710	715	5	.01				
		to C.A. Lower contact 65o to C.A.		31979	715	720	5	.015				
		This section has good biotite-phlogopite alteration and moderate		31980	735	740	5	.077				
		chlorite alteration. There is very minor quartz veining and no sulphides.		31981	740	745	5	.066				
				31982	815	820	5	.015				
272.0	454.2	FINE TO MEDIUM GRAINED, DARK GREEN MAFIC FLOW (1a)		31983	820	825	5	.015				
		272.0 - 350.0: FINE TO MEDIUM GRAINED, DARK GREEN MAFIC FLOW (1a)	277 - 350 tr sulphides	31984	825	830	5	.01				
				31985	830	835	5	.01				
		From 286 - 295.5 there is a section of intermediate to felsic flow(2a-4a)		31986	835	840	5	.02				
		This section has an upper and lower contact about 60° to C.A. This		31987	870	875	5	.015				
		intermediate to felsic unit has only two 1" barren quartz veins and these		31988	905	910	5	.01				
		occur at 194.7 and 195.4. This unit has only very weak bio.-phlog. alt.		31989	910	915	5	.01				
		The mafic flow is quite massive throughout and weakly foliated at		31990	915	920	5	.005				
		45° -55° to C.A. This section has strong chlorite alteration and no		31991	955	960	5	T				
		biotite-phlogopite alteration. There is only about 1" of quartz and		31992	960	965	5	T				
		quartz-carb. veining/5' interval and these veins are all just about		31993	1000	1005	5	.005				
		barren. 272 - 350.0 - tr sulphides.		31994	1005	1010	5	.005				
		350.0 - 454.2: FINE TO MEDIUM GRAINED, DARK GREEN MAFIC FLOW (1a)	350 - 454.2 tr sulphides	31995	1010	1015	5	.005				
				31996	1030	1035	5	T				
		This section also has a few short < 1' to 2' sections of fine grained,		31997	1035	1040	5	T				
		mafic tuff (1c). Bedding in these mafic tuffs are usually between		31998	1060	1065	5	.01				
		40° to 60° C.A. and often have biotite - phlogopite alteration as well as		31999	1115	1120	5	T				
		chlorite alteration.		32000	1120	1125	5	.015				
		386.6 - 387.1: Fine grained, intermediate tuff.		32001	1125	1130	5	.01				
		From 431.7 - 433.35 there is a medium grained, light purplish gray felsic		32002	1130	1135	5	.01				
		tuff unit. (4c) It has an upper and lower contact about 80-85° to C.A.		32003	1135	1140	5	.01				
		The felsic tuff has abundant white quartz fragments upto 1/8" in diameter		32004	1140	1145	5	.01				
		in a cryptocrystalline matrix. The mafic flow is relatively massive		32005	1145	1150	5	.04				
		with the occasional quartz-carb. filled vesicules. There is good		32006	1150	1155	5	.01				
		chlorite alteration and weak biotite phlogopite alteration. There is		32007	1155	1160	5	.005				
		only minor quartz and quartz-carb. veining. These veins are usually		32008	1160	1165	5	T				
		barren or have tr po, py.		32009	1165	1170	5	T				
		350.0 - 454.2 : Tr sulphides.		32010	1170	1175	5	.005				
				32011	1175	1180	5	T				
				32012	1180	1185	5	T				
				32013	1185	1190	5	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.		ASSAYS Cu.	
				92014	1190	1195	5	T			
454.2	603.5	FINE TO MEDIUM GRAINED, MASSIVE DARK BROWNISH GREEN		92015	1195	1200	5	T			
		MAFIC TO INTERMEDIATE TUFF (1c - 2c)	454.2 - 485.0	92016	1200	1205	5	T			
		454.2 - 540.0: FINE TO MEDIUM GRAINED, MASSIVE DARK BROWNISH GREEN MAFIC TO INTERMEDIATE TUFF (1c-2c)	2-3% py, po	92017	1205	1210	5	T			
		From 478.0 - 482.0 - there is a section of fine grained mafic flow.									
		The mafic to intermediate tuffs are well bedded at 50° to C.A. Within the mafic to intermediate tuffs there are short usually <1' sections of intermediate to intermediate to felsic tuff.									
		The tuffs have strong alternating chlorite and biotite-phlogopite alt.	485.0 - 540.0								
		This alternating alteration gives the rock a banded appearance.	3-5% py, po, occ.								
		The tuffs have about 1"-2" of quartz veining/5' and these veins have minor po, py. The mafic to intermediate tuffs themselves have about	tr cpy.								
		3% - 5% bedded py mainly and some po and occasionally a thin band of cpy.									
		These sulphides occur as blebs that are elongated and conformable with bedding. Of the sulphides present 90% is py and just about all the rest po.									
		454.2 - 485.0: About 2-3% po, py.									
		485.0 - 540.0: 3-5% py, po and occ. tr cpy.									
		540.0 - 603.5: FINE TO MEDIUM GRAINED, DARK BROWNISH GREEN MAFIC TO INTERMEDIATE TUFF (1c - 2c)	540.0 - 603.5								
		Bottom contact 80° to C.A.	3-5% py, minor po								
		Bedding in the tuff is well developed and varies between 35° and 70° to C.A. This section has an increasing amount of felsic material.	and occ. tr cpy								
		Some of the felsic material appears to be more like irregular veining rather than an alternation of mafic and felsic tuff bands. Therefore this section appears to have undergone about 20-25% silicification.									
		This section has good chlorite and biotite-phlogopite alteration, which are as in the section above, alternating, thus giving the rock a strong banded appearance.									
		There is very little in the way of quartz or quartz-carb. veining.									
		However, there are about 3%-5% of sulphides present mainly associated with the more felsic material.									
		The sulphides present are blebs and weakly alligned subparallel to bedding and are mainly py and minor po. There is the occasional bleb of cpy scattered throughout and over a few isolated 5' sections, it could run as much as 0.1% Cu.									
		540.0 - 603.5: 3-5% py, minor po and occ. tr cpy.									
603.5	609.95	MEDIUM GRAINED, PURPLISH BROWN FELSIC TUFF (4c)									
		This section has abundant felsic fragments upto 1/8" scattered throughout and are in a cryptocrystalline matrix. From 605.8 - 606.05 mafic tuff. (1c)									
		Upper contact 80° to C.A. Lower contact at 60° to C.A. From 608.2 - 609.55 mafic tuff (1c) Upper contact 70° to C.A., lower contact 85° to C.A.									
		The mafic tuff units are highly chloritic while the felsic tuff units show no alt. There is no qtz. veining and no sulphides.									

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
609.95	718.9	FINE TO MEDIUM GRAINED, DARK BROWNISH GREEN MAFIC TO INTERMEDIATE TUFF (1c - 2c) Bedding is well developed at 55° to C.A. This section is quite similar to the 1c-2c unit above, however, there is less felsic silicification and more quartz veining. Most of the quartz veins are thin and irregular, however, a few are upto 1" - 1½" in width. From 609.55 - 718.9 there are about 2"-3" of quartz and quartz-carb. veining/5' interval. At 657' 1 1/3" quartz vein 30° to C.A. with minor cpy and 3 specks of V.G. This section between 695 - 696' has about ¼% cpy. This section has a reduction in the amount of sulphides, present and except for short sections usually <5' there is only about 1% py, po and occasional tr cpy. The mafic to intermediate tuff has good alternating chlorite and biotite phlogopite alteration throughout.	657' - V.G. 609.55 - 718.9 1% py, po, occ. tr cpy.					
718.9	732.0	FINE GRAINED, DARK GREEN MAFIC FLOW (1a) Foliation weakly developed at 55° to C.A. This section has good chlorite alteration and moderate biotite-phlogopite alteration. There is only minor quartz and quartz-carb veinlets and tr po, py.	tr sulphides					
732.0	764.1	FINE GRAINED, DARK BROWNISH GREEN MAFIC TO INTERMEDIATE TUFF (1c - 2c) From 747.55 - 750.35 there is a fine grained, dark green mafic flow unit with a few quartz-carb. filled vesicules. The mafic to intermediate tuff has bedding about 60° to C.A. This section has very slight silicification and good biotite-phlogopite and chlorite alteration, which as usuall is alternating. There are about 1" - 1½" of quartz and quartz-carb. veining/5' interval and most veins have minor sulphides. 738.3: a bleb of cpy in a quartz-carb. vein.	minor sulphides					
764.1	777.8	FINE GRAINED, DARK GREEN MAFIC FLOW (1a) Lower contact 60° to C.A. This section has strong chlorite alteration and weak biotite-phlogopite alteration. There is very minor veining and no sulphides.	no sulphides					
777.8	779.0	FINE GRAINED DARK BROWNISH GREEN MAFIC TO INTERMEDIATE TUFF (1c - 2c) This unit is the same as 732 - 764.1. 777.8 - 779.0: 1% py, po.	1% py, po.					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
779.0	857.1	FINE GRAINED, DARK GREEN MAFIC FLOW (1a)	tr po, py					
		Foliation developed at 50° to C.A.						
		Within this section there are several sections of intermediate flow and mafic to intermediate tuff. These units occur at:						
		796.0 - 796.9: Intermediate flow (2a) Upper and lower contact 70° to C.A.						
		799.2 - 800.6: Intermediate flow (2a) Upper contact 50° to C.A. Lower contact 45° to C.A.						
		801.0 - 826.5: Mafic to intermediate tuff (1c - 2c)						
		The mafic to intermediate tuff is the same as the 1c - 2c unit above (732.0 -76 4.1)						
		There is only minor quartz carb. veinlets and only tr diss. po, py.						
		822.2: 1" q.v. 35° to C.A. barren.						
		The intermediate flow is dark grayish brown and fine grained. It has only one quartz vein and it is $\frac{1}{4}$" in width and barren. The intermediate flow has moderate biotite-phlog. alteration and no sulphides.						
		The mafic flow has good chlorite alteration throughout and weak biotite -phlogopite alt.						
		The mafic flow has about 1"-2" of quartz veining/5' interval and most veins are barren or have tr sulphides at best.						
		779.0 - 857.1: tr po, py.						
		827.3: $1\frac{1}{2}$" q.v. 45° to C.A. barren						
		832.15: $2\frac{1}{2}$" q.v. 65° to C.A. barren						
		844.9: 1" q.v. barren						
		846.5: 1" q.v. 30° to C.A. barren.						
857.1	862.5	FINE GRAINED, GRAYISH BROWN INTERMEDIATE FLOW (2a)	no sulphides					
		Lower contact 45° to C.A. This unit has good biotite-phlog. alteration and weak chlorite alteration. There is not any quartz or quartz-carb. veining and no sulphides.						
862.5	1036.7	FINE TO MEDIUM GRAINED, DARK GREEN MASSIVE MAFIC FLOW (1a)						
		862.5 - 960.0: FINE TO MEDIUM GRAINED DARK GREEN MASSIVE MAFIC FLOW (1a)						
		Foliation is very weakly developed. Within this section there are three intermediate flow units. These units occur at:						
		867.5 - 868.8: Upper contact 80°, lower contact 55° to C.A.						
		917.3 - 920.45: Upper contact 90°, lower contact 50° to C.A.						
		948.9 - 950.2: Upper contact 90°, lower contact 40-45° C.A.						

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FOOTAGE From	FOOTAGE To	DESCRIPTION		% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
862.5	1036.7	CONTD.							
		862.5 - 960.0:	Contd.						
			The upper intermediate flow unit has good biotite-phlog. alteration and moderate muscovite alteration. One barren quartz vein and no sulphides.						
			The middle intermediate flow unit has moderate chlorite and biotite phlog. alteration, and three minor quartz-carb. veins all of which are barren. This unit has no sulphides.						
			The lower intermediate flow unit has no quartz or quartz-carb. veining and only minor bleby carbonate.						
			It has good biotite-phlog. alteration and weak muscovite and chlorite alteration and no sulphides.						
			The mafic flow has good chlorite alteration throughout and very weak to nil biotite-phlog. alteration.						
			There is about 1" of quartz and quartz-carb. veining/5' interval and just about all veins are barren.						
		862.5 - 960.0:	tr sulphides.						
		872.6:	2" q.v., tr po. py						
		895.0:	1" q.v. running down the C.A. barren.						
		898.5 - 899.0:	6" q.v. running down the C.A. barren						
		909.7:	1" q.v. barren.						
		914.0:	1" quartz vein running down the C.A. barren						
		919.4:	¼" q.v. , tr sulphides.						
		960.0 - 1036.7:	FINE TO MEDIUM GRAINED DARK GREEN MAFIC FLOW (1a)						
			Foliation is developed at 50° to C.A.						
			This section is fairly massive with very few flow contacts.						
			The mafic flow has good chlorite alteration throughout and very weak biotite-phlog. alt.						
			The section between 1027 - 1029 is very strongly chloritic. There is also abundant bleby carb. elongated somewhat sub-parallel to foliation.						
			This section has about 1"-2" of quartz and quartz-carb. veining/5' interval and most veins have tr py at best. The mafic flow itself is just about barren with only tr diss. py, po.	960 - 1036.7 tr diss. po. py					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
862.5	1036.7	CONTD.						
		960.0, - 1036.7: contd. Some of the larger quartz and quartz-carb. veins occur at:						
		977.8: 2" quartz vein 50° to C.A. Minor bleby py.						
		1002.0: 3/4" quartz vein that runs down the C.A. for 3" and is barren.						
		1007.0: 1" quartz-carbé vein 80° to C.A. barren.						
		1011: 1" quartz vein, tr py.						
		1023.25: 1" quartz carb. vein, minor py.						
1036.7	1039.2	CRYPTOCRYSTALLINE MILKY GREY CHERT (3) Upper contact 45° to C.A. Lower contact 55° to C.A. This section is moderately well fractured and most of the fractures are healed with a milky coloured quartz vein. These quartz veins have 1-3mm blebs of sph. scattered throughout. There is also minor py assoc. with the veining. A few of the fractures are filled with chlorite. The chert itself is barren.	tr py, sph.					
1039.2	1119.5	FINE TO MEDIUM GRAINED DARK GREEN MAFIC FLOW (1a) Foliation is developed at 45° to C.A. This section of mafic flow is the same as the mafic flow section between 960 - 1036.7 and is quite massive with very few flow contacts. There is abundant bleby carbonate which is elongated subparallel to the foliation. This section has good chlorite alteration and moderate to weak biotite-phlogopite alteration. There is a reduction in quartz and quartz-carb. veining to about 1"/5' interval and most veins have tr py at best. 1064.8: ½" quartz vein 30% filled by vuggy py.	Occ. tr diss. py					
1119.5	1146.5	FINE GRAINED BROWNISH GREEN MAFIC TO INTERMEDIATE TUFF (1c - 2c) This section is moderately well bedded at 55° to the C.A. The mafic to intermediate tuff has abundant carbonate in the form of blebs and thin veinlets parallel to bedding. This unit has strong chlorite alteration throughout and moderate biotite-phlogopite alteration. There is only one quartz vein in this section and a few quartz carbonate veins and veinlets. This quartz vein occurs at 1131.0. 2 3/4" quartz 70° to C.A. and is barren. Except for a two foot section between 1125 - 1127, this section has only minor bedded py, po. The section between 1125 - 1127 has about 5-7% po, py and minor cpy. 1125 - 1127 - 5-7% po, py and minor cpy. 1127 - 1146.5: tr po, py.	1125 - 1127 = 5-7% po, py, minor cpy 1127 - 1146.5 tr py, po					

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1146.5	1152	CRYPTOCRYSTALLINE DARK GREY BEDDED CHERTY TUFF (3c) INTERMEDIATE TUFF (2c) The best cherty tuff units occur at 1148 - 1148.9; 1149.5 - 1149.8 and 1150.5 - 1151.15. Bedding is developed at 60° to the C.A. The cherty tuff has only a few fractures and those are usually hairline. The cherty tuff has a barren 3" quartz vein at 1150.7, and only has tr py. The intermediate tuff is of a more brownish grey colour. This section has about 1-2% bedded and bleby py associated with it. The intermediate tuff has only minor quartz carb. veinlets, and has good chlorite alteration. The cherty tuff doesn't appear to be altered. 1146.5 - 1152.0: 1-2% py in the intermediate tuff.	1-2% py in the int. tuff.					
1152.0	1157.0	FINE GRAINED DARK GREY FELSIC TUFF (4c) This section is fairly massive with weakly defined bedding at 60-70° to C.A. The felsic tuff has only minor alteration. There are very few quartz- and quartz-carb. veins and those present are $<\frac{1}{4}$" and barren. 1152 - 1157: tr diss py.	tr diss py.					
1157.0	1169.6	FINE GRAINED DARK GREEN HIGHLY CHLORITIC MAFIC TUFF (1c) This section more or less corresponds to the chlorite alteration zone, however it is not as chloritic as usual. Bedding is well developed at 65° - 70° to C.A. The mafic tuff also has good biotite - phlogopite alteration over much of its section. This section has an increase in quartz and quartz-carb. veining, however, the veins are barren or have tr sulphides at best. 1157.1: 2" quartz vein, tr po 1162.5: $\frac{1}{2}$" quartz vein, tr py. 1163.0: 1/3" quartz vein, barren 1164.0: irregular 4" quartz carb. vein, barren.	tr po, py.					
1169.6	1177.2	CRYPTOCRYSTALLINE PALE PINK CHERTY TUFF (3c) AND DARK GREY FELSIC TUFF (4c) 1169.6 - 1172: Cherty tuff (3c) 1172.0 - 1177.2: Felsic tuff (4c) The Cherty tuff is extremely fractured and most likely part of the core is ground. There isn't any signs of faulting. The felsic tuff although strongly broken shows no signs of being ground. This section has very little in the way of alteration and only minor barren quartz veining.	tr diss py					
1177.2	1180.8	FINE GRAINED' MEDIUM GREEN ACT.-TREM. RICH ROCK (6b) This section has good chlorite alteration throughout. There isn't any quartz or quartz carb. veining and no sulphides.	no sulphides					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1180.8	1181.9	CRYPTOCRYSTALLINE MILKY WHITE CHERT AND QUARTZ VEIN (3) This unit has no alteration and no sulphides.						
1181.9	1203.9	A MIXTURE OF FINE GRAINED, MEDIUM GREEN ACT.-TREM. RICH ROCK (6b) AND INTERMEDIATE TUFF (2c) The interbedded act. - trem. rich and intermediate tuff units occur as follows: 1181.9 - 1184.3: (6b) 1184.3 - 1184.6: (2c) 1184.6 - 1185.7: (6b) 1185.7 - 1187.5: (2c) 1187.5 - 1188.2: ((6b) 1188.2 - 1191.0: (2c) 1191.0 - 1200.2 (6b) 1200.2 - 1203.9: (2c, to 1c) The Act. - trem rich rocks are fine grained and medium green in colour. They have very strong chlorite alteration throughout and abundant 2-3mm needles of act. - trem. There is virtually no veining and only occ. tr diss. py. The intermediate tuff units are fine grained and more of a greyish green in colour. They have moderate chlorite alteration and weak biotite -phlog. alteration. They have only very minor quartz and quartz-carb. veining and these veins are usually barren. The inter.-mediate tuff has only tr diss. py.	tr diss. py					
1203.9	1247.0	FINE GRAINED TO MEDIUM GRAINED DARK GREEN MAFIC TUFF (1c) The last 5½' are a medium to coarse grained dark green mafic flow (1a) Bedding in the mafic tuff is weakly developed at 50° to C.A. This unit has strong chlorite alteration and moderate biotite - phlog. alteration. The mafic flow has only strong chlorite alteration. The mafic tuff has abundant quartz-carb. veinlets throughout, however, these veinlets have no sulphides associated with them. The mafic flow has only minor quartz carb. veining. 1203.9 - 1247.0: tr diss. po, py in the tuff and flow.	tr diss. po, py					
	1247.0	END OF HOLE						

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

						DIP TEST					
PROPERTY	DETOUR LAKE	LATITUDE		STARTED	September , 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	WATER HOLE 1	DEPARTURE		FINISHED	September 28, 1975						
BEARING		ELEVATION		LENGTH	220 FEET						
DIP-COLLAR	VERTICAL - 90°	SECTION		LOGGED BY	P. BROWN						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.
0	82.0	CASING		18901	135.0	140.0	5.0	T
				18902	140.0	145.0	5.0	T
82.0	98.0	Coarse grained, dark green, mafic flow (1a)		18903	145.0	150.0	5.0	.005
		This section has a gabbroic texture - Mafic phenos upto ½" and there are		18904	210.0	215.0	5.0	T
		phenos are in a feldspar mush. Moderate chlorite alteration and some		18905	215.0	220.0	5.0	T
		have oxides staining.		18906	105.0	110.0	5.0	T
		No quartz veining and only tr sulfides.						
98.0	162.5	Light greyish green talc carbonate (6a)						
		The first 15' is quite chloritic, however, the rest of the section is mainly						
		talc-carbonate although chlorite is present. Foliation 10-15° to C.A.						
		153.0 - 155.5: Light grey Medium grained, felsic dike, with tr sulfides.						
		135.0 - 150.0: 2-3% py, po, tr cp.						
		110.0 - 111.0: 5-7% py, po, tr cp						
		Irregular 4" quartz vein at 113.5.						
162.5	220.0	Fine grained, light greenish grey massive intermediate flow (2a)						
		Foliation about 10-15° to C.A. Minor chlorite alteration usually						
		restricted to narrow bands <1".						
		The last 10' has abundant quartz veining 6"-8" per 5' interval.						
		Abundant chlorite and biotite alteration adjacent to quartz veins and minor						
		sulfides in the quartz veins. Po and py.						
	220.0	END OF HOLE						

Tropari Test 600' 47° 190.5°
1200' 38° 194.5°

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

						DIP TEST					
PROPERTY	DETOUR LAKES	LATITUDE	L188+ 00 EAST	STARTED	May 29th, 1975	Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	38 - 46	DEPARTURE	204+ 00 NORTH	FINISHED	June 8th, 1975	200'	50°	800'	48°		
BEARING	180°	ELEVATION		LENGTH	1,267 FEET	400'	48°	1000'	46°		
DIP-COLLAR	- 50° SOUTH	SECTION		LOGGED BY	P. BROWN Paul Brown	600'	48°	1200'	41°		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	60	OVERBURDEN	
60	120	Medium grained. Dark green mafic flow. (with streaky carbonate) moderate chlorite alteration throughout with slightly greater concentration next to the quartz veins. This section si also slightly talcy however it is very minor and is not part of the major serpentinized zone. From 99 - 105 the section is finer grained and from 103 - 103.8 and 104.2 - 105 there are 2 fine grained intermediate flow sections. The contact at 105 is about 60° to C.A. and at 104.2 it is just about 90° to C.A. At 103.8 and 103 the contact is very questionable. Slightly biotite alteration adjacent to a quartz vein at 99'. Trace of disseminated py in quartz vein. Foliation 30° to C.A. Minor quartz veining.	
120	133.5	Fine grained. Dark green intermediate to mafic tuff and flow. Light biotite alteration, mainly concentrated around quartz vein. Abundant chlorite alteration throughout. Foliation about 30° to C.A. Quartz veins occur at 127.7, ½" wide; 123.4 - 123.6, 1½" wide; 127.7 ½" wide, 128.6 - 128.7 1½" wide and 132.6 ½" wide. Mineralization consist of minor disseminated Py and Po conformable to foliation.	
133.5	139.6	Medium grained. Dark gray intermediate to mafic tuff. Foliation 35° to C.A. No quartz veining and minor disseminated Py. No biotite alteration and light chlorite alteration.	
139.6	147.6	Same as 120 - 133.5 (fine grained. Dark green intermediate to mafic tuff) Minor quartz veining and no mineralization.	
147.6	156.5	Fine grained. Light to dark gray (banded) Flow. Banded rhyolite. Bands 1½" - 2" wide. Banding about 60° to C.A. Quartz veining occurs at 148.2" wide, 151.5 2" wide; and 152.5 2" wide. Mineralization minor Py and Po; mainly in quartz veins.	
156.5	175.5	Fine grained. Dark gray felsic to slightly intermediate tuff. Displays very faint changes in colour (possible banding?) Foliation about 35° to C.A. Minor biotite alteration, moderate to light chlorite alteration very minor quartz veining. Minor disseminated Py and Tr. cp. The fragments in the felsic tuff are upto 1-2mm.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
7041	60.0	65.0	5.0	T			
7042	65.0	70.0	5.0	N			
7043	70.0	75.0	5.0	T			
7044	75.0	80.0	5.0	T			
7045	80.0	85.0	5.0	T			
7046	85.0	90.0	5.0	T			
7047	90.0	95.0	5.0	T			
7048	95.0	100.0	5.0	T			
7049	100.0	105.0	5.0	T			
7050	105.0	110.0	5.0	T			
7051	110.0	115.0	5.0	T			
7052	115.0	120.0	5.0	0.10			
7053	120.0	125.0	5.0	T			
7054	125.0	130.0	5.0	.005			
7055	130.0	135.0	5.0	T			
7056	135.0	140.0	5.0	T			
7057	140.0	145.0	5.0	N			
7058	145.0	150.0	5.0	N			
7059	150.0	155.0	5.0	N			
7060	155.0	160.0	5.0	T			
7061	160.0	165.0	5.0	T			
7062	165.0	170.0	5.0	T			
7063	170.0	175.0	5.0	N			
7064	175.0	180.0	5.0	N			
7065	180.0	185.0	5.0	.01			
7066	185.0	190.0	5.0	.165	.117		
7067	190.0	195.0	5.0	.07	10'		
7068	195.0	200.0	5.0	T			
7069	200.0	205.0	5.0	T			
7070	205.0	210.0	5.0	.01			
7071	210.0	215.0	5.0	N			
7072	215.0	220.0	5.0	N			
7073	220.0	225.0	5.0	T			
7074	225.0	230.0	5.0	0.045			
7075	230.0	235.0	5.0	T			
7076	235.0	240.0	5.0	T			
7077	240.0	245.0	5.0	T			

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
175.5	184	Fine grained. Dark green mafic flow. Foliation about 35° to C.A. Slight biotite alteration, moderate chlorite alteration. Quartz veins occur at 179.7 and 182.1 and both are about 3/4" wide. Minor disseminated Py.		7078	245.0	250.0	5.0	N				
				7079	250.0	255.0	5.0	N				
				7080	255.0	260.0	5.0	0.005				
				7081	260.0	265.0	5.0	T				
184	212	Interbedded felsic tuff and intermediate flow, with medium grained intermediate tuff between 202 and 205.		7082	265.0	270.0	5.0	T				
				7083	270.0	275.0	5.0	T				
		The fine grained dark gray felsic tuff with fragments upto 2mm occur between 184 and 189 and 191 - 198.		7084	275.0	280.0	5.0	T				
				7085	280.0	285.0	5.0	T				
		The fine grained grayish brown intermediate flow occurs from 189 - 191 and 198 - 212. The brown colour is due to biotite alteration, which is abundant throughout this section. Chlorite alteration is moderate. Foliation about 40° to C.A. Minor quartz vein, the larger ones occur at 205' 1/2" wide; 206' 1/2" wide; 208' 2" wide, 209' 1" wide and 207.5' 1/2" wide.		7086	285.0	290.0	5.0	T				
				7087	290.0	295.0	5.0	N				
				7088	295.0	300.0	5.0	N				
				7089	300.0	305.0	5.0	N				
				7090	305.0	310.0	5.0	T				
		Minor carbonate are associated with some of these veins. Mineralization consist of disseminated Po, 1/4% Py and tr cp.		7091	310.0	315.0	5.0	0.005				
				7092	315.0	320.0	5.0	T		.01		All the core sent out
				7093	320.0	321.0	1.0	0.38	.10	.25		
212	247	Intermediate to mafic fine grained massive. Dark green flow with a few feldspar phenocrysts upto 1/8" and minor fine grained dark green tuff interbedded. The tuff has moderate biotite alteration giving it a brownish tinge. Chlorite alteration is moderate throughout. Minor thin quartz veining, some of which have been pinched off and thus forming pads in the flow. Minor Py and Tr cp. Foliation about 40° to C.A..		7094	321.0	325.0	4.0	0.03	5'	.04		
				7095	325.0	330.0	5.0	T				
				7096	330.0	335.0	5.0	T				
				7097	335.0	340.0	5.0	.01				
				7098	340.0	345.0	5.0	.01				
				7099	345.0	350.0	5.0	T				
				7100	350.0	351.0	1.0	2.46 (checks-2.52/2.40)		.23	V.G	all core sent out
				7101	351.0	355.0	4.0	0.04		5'		
247	250.3	Medium grained medium green intermediate tuff which is quite chloritic. Two carbonate veins; one at 247.3 - 247.7 and the other is at 248.5 - 248.7. There are also abundant blebs of carbonate upto 1/3" long. Foliation is about 35° to C.A.		7102	355.0	360.0	5.0	T				
				7103	360.0	365.0	5.0	N				
				7104	365.0	370.0	5.0	0.01				
				7105	370.0	375.0	5.0	N				
				7106	375.0	380.0	5.0	0.01				
250.3	256	Fine grained dark green mafic tuff with some very small carbonate blebs. Moderate chlorite and biotite alteration. Few minor quartz veins < 1/10" wide. There isn't any mineralization. Foliation about 40° to C.A.		7107	380.0	385.0	5.0	T				
				7108	385.0	390.0	5.0	0.02				
				7109	390.0	395.0	5.0	0.005				
				7110	395.0	397.0	2.0	T				all core sent out
				7111	397.0	399.0	2.0	T				
256	267	Fine grained greenish brown intermediate flow. Brown colour due to abundant biotite alteration. Carbonate rich veins at 262 2" wide and 265 2" wide. A few thin quartz veins scattered throughout this section. Foliation about 40° to C.A. Mineralization consists of very minor Py, that in a few places looks weathered.		7112	399.0	403.0	4.0	T				
				7113	403.0	407.0	4.0	0.13		.10		all core sent out
				7114	407.0	408.0	1.0	3.15(reject 3.24)		.51	V.G	
				7115	408.0	412.0	4.0	0.01		.03		
				7116	412.0	413.0	1.0	0.59 (reject .80)		.53		
				7117	413.0	418.0	5.0	T		.02		
267	286	Mainly felsic flow with a unit of chloritic. Rocks from 267 - 272.5. The felsic flow is fine grained. Banded light to dark gray. (flow banded rhyolite). These bands are about 2" wide and is about 80° to the direction of foliation. Foliation is about 40° to C.A. Two 1/2" quartz veins at 267' about 2 1/2" apart. Mineralization consist of minor Py mainly along small fractures.		7118	418.0	423.0	5.0	0.01				
				7119	423.0	428.0	5.0	T				
				7120	428.0	433.0	5.0	T				
				7121	433.0	438.0	5.0	T				
				7122	438.0	443.0	5.0	0.01				
				7123	443.0	448.0	5.0	T				
		272 - 274.8: Chlorite and Talc unit. The first foot is fine grained to medium grained chloritic rock with a few specks of Py and minor blotches of carbonate. The next foot is a pale green talc rich rocks with abundant chlorite. The last 4" is mafic tuff with moderate chlorite alteration and with a 1" section of high biotite alteration.		7124	448.0	453.0	5.0	.04				
				7125	453.0	458.0	5.0	T				
				7126	458.0	463.0	5.0	.01				
				7127	463.0	468.0	5.0	T				
				7128	468.0	473.0	5.0	T				
				7129	473.0	478.0	5.0	.02				

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PROPERTY DETOUR LAKES HOLE NO. 38 - 46

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	
267	286	CONTD.		7130	478.0	483.0	5.0	.01				
		274.8 - 275: A 3" quartz vein.		7131	483.0	488.0	5.0	.04				
		275 - 286: Felsic flow faintly banded. Could be flow banded rhyolite. The rock is a darker gray than the flow banded unit 267 - 272.5. Minor quartz veining and no mineralization. Foliation about 40° to C.A.		7132	488.0	493.0	5.0	T				
				7133	493.0	498.0	5.0	T				
				7134	498.0	503.0	5.0	T				
				7135	503.0	508.0	5.0	T				
				7136	508.0	513.0	5.0	.01				
				7137	513.0	518.0	5.0	T				
286	326	Fine grained. Dark green intermediate to mafic flow. Chlorite alteration is moderate with biotite alteration occuring only the last 5'. Foliation about 30° - 35° to C.A. A few carbonate veins. Minor quartz veining. Mineralization consist of a 1" band of Po and 320.5 with a 1" long 3/8" wide block of cp.		7138	518.0	523.0	5.0	T				
				7139	523.0	528.0	5.0	T				
				7140	528.0	533.0	5.0	T				
				7141	533.0	538.0	5.0	.04				
				7142	538.0	543.0	5.0	T				
				7143	543.0	548.0	5.0	T				
326	333.5	Coarse grained. Dark green mafic tuff with fragments upto 3/8". Foliation about 40° to C.A. Moderate chlorite alteration. No quartz veining and no mineralization.		7144	548.0	553.0	5.0	.01				
				7145	553.0	558.0	5.0	T				
				7146	558.0	563.0	5.0	T				
				7147	563.0	568.0	5.0	N				
333.5	366.5	Fine grained. Dark green intermediate to Mafic flow mainly. V.G. in a 4" quartz vein at 350.1 - 350.45 also minor Py and Po in this vein. Other quartz veins occur at 333.5' $\frac{1}{2}$" wide; 335.8' - 335.9' 3/4" wide; 341.5' $\frac{1}{2}$" wide; 352.2' $\frac{1}{2}$" wide; 361.6 $\frac{1}{2}$" wide; and 366' 1/3" wide. This last vein is $\frac{1}{2}$ filled with Py. A $\frac{1}{4}$" vein of Py also occurs at 340'.		7148	568.0	573.0	5.0	N				
				7149	573.0	578.0	5.0	.01				
				7150	578.0	583.0	5.0	N				
				7151	583.0	588.0	5.0	N				
				7152	588.0	593.0	5.0	T				
				7153	593.0	598.0	5.0	.01				
				7154	598.0	603.0	5.0	T				
				7155	603.0	608.0	5.0	T				
				7156	608.0	613.0	5.0	N				
				7157	613.0	618.0	5.0	T				
				7158	618.0	623.0	5.0	.32	$\frac{+.32}{5}$			
				7159	623.0	628.0	5.0	.01				
366.5	370.5	Fine grained. Dark greenish brown intermediate to mafic tuff. Abundantant biotite is giving it the brown colour. Two one inch carbonate veins at 359.5. Minor quartz veining and minor disseminated Py and Po and a few specks of cp from 367 - 368.1. Foliation about 30o to C.A.		7160	628.0	630.0	2.0	.01		.08		all core sent out
				7161	630.0	632.0	2.0	T				
				7162	632.0	633.0	1.0	.005		.04		all core sent out
				7163	633.0	638.0	5..0	.005				
				7164	638.0	643.0	5.0	.005				
370.5	397	Fine grained. Dark green Mafic flow: Foliation about 30° to C.A. Light biotite alteration except for two 6" sections adjacent to quartz veins. One of these is at 385' and the other is at 398. Chlorite alteration is moderate throughout. Quartz veins occur at 374' 2" wide; 379.8' 1" wide; 385.3' 1" wide and 390' $\frac{1}{2}$" wide. Mineralization consist of minor Po and Py with Tr cp. usually along fractures in quartz veining.		7165	643.0	648.0	5.0	T				
				7166	648.0	650.0	2.0	.005		.03		all core sent out
				7167	650.0	655.0	5.0	.01				
				7168	655.0	658.0	3.0	.01				
				7169	658.0	663.0	5.0	.01				
				7170	663.0	668.0	5.0	T				
				7171	668.0	673.0	5.0	.01				all core sent out
				7172	673.0	675.0	2.0	.04				
397	398.2	Quartz vein possibly a recrystalized cherty tuff, however there are no signs of it being a cherty tuff and therefore it could be just a very large quartz vein. Mineralization Tr Py and a few specks of cp.		7173	675.0	680.0	5.0	T				
				7174	680.0	685.0	5.0	T				
				7175	685.0	689.0	4.0	T				
				7176	689.0	690.0	1.0	T				all core sent out
398.2	436.8	Fine grained. Dark green highly chloritic mafic flow. Continuation of the unit above the large quartz vein. Almost no biotite alteratinn, minor carbonate veining. Foliation is about 25° to C.A.		7177	690.0	695.0	5.0	T				
				7178	695.0	700.0	5.0	.02				
				7179	700.0	705.0	5.0	T				
				7180	705.0	710.0	5.0	T				
				7181	710.0	715.0	5.0	.01				

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Aué	Ag.	Cu.	Zn.	
398.2	436.8	CONTD. Quartz veins occur at 408.2' 1½" wide; 408.45' - 408.8' 5" wide. This vein contains 4 specks of V.G. and over the 5" the vein contains 20% Po and 2% cp. 412' ½" wide with Po and minor cp. 412.5' 2" wide vein with Po 1-2% cp over the two inch vein. 423' 2" wide vein with minor Po and Tr cp.		7182	715.0	720.0	5.0	.01		0.07		
				7183	720.0	722.0	2.0	.03		0.36		all core sent out
				7184	722.0	725.0	3.0	T	0.01			
				7185	725.0	727.8	2.8	T		0.03		
				7186	727.8	728.8	1.0	17.26		0.014		all core sent out
				7187	728.8	732.0	3.2	.02		0.03		
				7188	732.0	733.0	1.0	T				all core sent out
436.8	448.5	Serpentinized rock with abundant chlorite alteration. Fine grained light grayish green in colour. Composition: Talc, chlorite act. -trem. Foliation appears to be at a low angle to core axis. Minor quartz veining and no mineralization.		7189	733.0	738.0	5.0	T				all core
				7190	738.0	740.0	2.0	.01				V.G. sent out all core sent out
				7191	740.0	745.0	5.0	T				
				7192	745.0	746.0	1.0	.11				all core sent out
				7193	746.0	748.0	2.0	T				
448.5	526.8	Fine grained to medium grained dark green mafic flow highly chloritic. Foliation about 30° to C.A. Light biotite alteration throughout. Minor carbonate within a quartz vein at 475.3. Quartz veins occur at 467' 6" vein. Minor Py. 462.2 - 462.4 2½" vein about 30% filled with weathered Py. 475.3' 3" vein 1-2% py and 1-2% cp over the width of the vein. 483' 3/4" vein minor py. 502.3' minor Po and cp. The contact angle between the quartz veins and the mafic flow varies and is often at irregular angles.		7194	748.0	750.0	2.0	.02				all core sent out
				7195	750.0	751.0	1.0	1.26			V.G.	all core sent out
				7196	751.0	756.0	5.0	.03				
				7197	756.0	759.0	3.0	.01				
				7198	759.0	760.0	1.0	.02		0.07		all core sent out
				7199	760.0	763.0	3.0	T				
				7200	763.0	766.0	3.0	.02		0.05		all core sent out
				7201	766.0	769.0	3.0	.02		0.03		all core sent out
				7202	769.0	774.0	5.0	T		0.05		all core sent out
526.8	529	Very fine grained light grayish green intermediate flow. Minor chlorite alteration. Upper contact is 80° to C.A. ¼" carbonate vein at 527.5 as well as a few streaks of carbonate throughout. Minor disseminated Py. No quartz veining.		7203	774.0	778.0	4.0	N				
				7204	778.0	780.0	2.0	.06	Otto loz	0.10		all core sent out
				7205	780.0	784.0	4.0	.01				
				7206	784.0	785.0	1.0	52.92	.08	0.07	VG	all core sent out
				7207	785.0	787.0	2.0	.03	17'	0.05		all core sent out
529	636	Fine grained Dark green. Amphibolized mafic flow. minor mafic tuff and a couple of short non intermediate sections. 561 - 561.5 6" section of fine grained intermediate to mafic flow. Contact 70° to C.A. Foliation about 80° to contact. Moderate chlorite alteration throughout and very little biotite alteration. Quartz veins occur at 560' ½" vein, 577' ½" vein, 582' ½" vein, 618' ½" vein, 619.5' 2" vein minor Py. 628.3 1/3" vein which is about ½ full of Py and there is also Tr cp 630' - 630.3'. 3½" vein. 632.9-633.25 4" vein. All the mineralization in this section is associated with the quartz vein.		7208	787.0	792.0	5.0	T				
				7209	792.0	795.0	3.0	.05		0.04		all core sent out
				7210	795.0	800.0	5.0	T				
				7211	800.0	805.0	5.0	T				
				7212	805.0	810.0	5.0	T				
				7213	810.0	815.0	5.0	T				
				7214	815.0	820.0	5.0	T				
				7215	820.0	823.0	3.0	.43		0.06	V.G.	all core sent out
				7216	823.0	827.0	4.0	T				
				7217	827.0	828.0	1.0	T				all core sent out
				7218	828.0	833.0	5.0	T				
636	640	Fine grained greenish gray intermediate to slightly mafic flow. Moderate chlorite alteration. The last foot has moderate Bi alteration and looks like a tuff. 1/3" quartz vein at 638.3. Tr py and a few specks of cp at 639.8. Foliation 35° - 40° to C.A.		7219	833.0	836.0	3.0	T		0.02		
				7220	836.0	841.0	5.0	T				
				7221	841.0	844.0	3.0	T				
				7222	844.0	849.0	5.0	.17		0.06	V.G.	all core sent out
				7223	849.0	852.0	3.0	.02				all core sent out
640	752.7	Continuation of the fine grained. Dark green amphibolitized mafic flow with minor thin beds of mafic tuff. Chlorite alteration is moderate throughout and intense in a few section especially adjacent to quartz veins, and sometimes within fractures in the quartz veins. Epidote also occurs in a few fractures within the quartz veins. Biotite alteration varies from light to moderate throughout usually increasing in concentration adjacent to quartz veins. Foliation is about 30° to C.A.		7224	852.0	856.0	4.0	T				
				7225	856.0	857.0	1.0	.02		0.08		all core sent out
				7226	857.0	862.0	5.0	T		0.04		all core sent out
				7227	862.0	865.0	3.0	.01		0.06		all core sent out
				7228	865.0	870.0	5.0	T				
				7229	870.0	872.0	2.0	.01		0.07		all core sent out
				7230	872.0	875.0	3.0	T				
				7231	875.0	877.0	2.0	0.63		0.38		all core sent out
				7232	877.0	882.0	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	
640	752.7	CONTD. Mineralization is mainly restricted to quartz veins, and consist of Py, Po and Cpy. Two quartz veins have V.G. - one at 737.5 - 737.6 about 15 specks in all. Also a white gray mineral 1-2 specks possibly Ag. The other V.G. occurs at 750.4 4 specks in a 1" quartz vein. Quartz veins also occur at : 658' 2" wide 30% filled with Py; 659.7 $\frac{1}{2}$" wide; 661.3' 1" wide; 662.6' $\frac{1}{2}$" wide; 665.7' 1/3" wide; 667.2' $\frac{1}{2}$" wide; 672.2' 1" wide; 668.6 - 669.3' 8" wide vein with minor Py. 684.7' $\frac{1}{2}$" vein with minor Po; 689 - 689.25' 3" vein; 689.6' $\frac{1}{2}$" vein; 691.6 ' $\frac{1}{2}$" vein; 703.1' $\frac{1}{2}$" vein; 704.3' 1" vein; 708.6' 1" vein; 713.2' 1" vein, 1/10 filled with Po. 715.3' 1" vein; 715.6' 1" vein; 717.6' 1" vein. 720.7' 1" vein; 722' 1" vein which is about 1/6 filled with equal amounts of Po and Cp; 728' - 728.8' 9$\frac{1}{2}$" vein with 30% Po and 10% Cp; 732.1' $\frac{1}{2}$" vein; 733.5' 2" vein; 737.8' 1" vein; 739.1' - 739.3' 2$\frac{1}{2}$" vein; 740 - 740.2' 2" vein; 745.2' - 745.3' 1" vein minor Py; 740.5' - 740.8' 3$\frac{1}{2}$" vein; 749.1 - 749.4' 3$\frac{1}{2}$" vein Minor Py; 749.9' $\frac{1}{2}$" vein which is $\frac{1}{4}$ filled with cp. 750.4' 1" vein minor Po and cp. A number of the quartz veins have triangular boundaries, however when th there are sharp boundaries they are usually around 60° to C.A.		7233	882.0	887.0	5.0	T				
				7234	887.0	892.0	5.0	T				
				7235	892.0	897.0	5.0	T				
				7236	897.0	901.0	4.0	.02		0.05		
				7237	901.0	905.0	4.0	T		0.17		
				7238	905.0	906.0	1.0	1.78		0.17	V.G. sent out	all core
				7239	906.0	911.0	5.0	T				
				7240	911.0	916.0	5.0	.01				
				7241	916.0	921.0	5.0	0.17				
				7242	921.0	926.0	5.0	T				
				7243	926.0	931.0	5.0	T				
				7244	931.0	933.0	2.0	T		0.03	0.007	
				7245	933.0	936.0	3.0	T		0.05	0.09	all core sent out
				7246	936.0	941.0	5.0	.005		0.01	0.006	
				7247	941.0	946.0	5.0	.005				
				7248	946.0	948.0	2.0	T		0.04		all core sent out
				7249	948.0	953.0	5.0	T				
				7250	953.0	957.0	4.0	T				
				7251	957.0	960.0	3.0	T		0.03		all core sent out
				7252	960.0	964.0	4.0	T				
752.7	757.0	Medium grained to coarse grained. Dark gray mafic tuff. Fragments upto 5-6 mm. Contacts about 70° to C.A. No quartz veining and very minor disseminated Py and cp.		7253	964.0	965.0	1.0	T		0.04		all core sent out
				7254	965.0	970.0	5.0	T				
				7255	970.0	975.0	5.0	T				
				7256	975.0	976.0	1.0	.005				all core sent out
757.0	846	Fine grained to medium grained dark green mafic tuff. Foliation about 40° to C.A. Fragments upto 3mm. Chlorite alteration moderate to heavy throughout with some greater concentration adjacent to quartz veins. Minor exsolved carbonate is present in a few places within this section. The quartz veinsthat are present are on the whole large. Quartz veins occur at 759.2' - 759.45' 2$\frac{1}{2}$" vein. Contact about 75° to C.A.. Minor Py along irregular fractures. Tr. Cp; 761.5' $\frac{1}{2}$" vein; 763.4' $\frac{1}{2}$" vein, minor Py, Po and Tr cp; 765.5' - 765.8' 3" vein, contact about 45° to C.A. minor Po and Py; 766.9' 3/4" vein which is about 1/3 filled with Po and minor Py; 767.15' $\frac{1}{2}$" vein minor Py; 769.6 - 770.1' 6" vein contact 70° to C.A. No mineralization: Two small veins at 772' and 772.4' contact about 20 - 25° to C.A. The first is about 50°filled with Py and Tr cp; the second one is about 15% filled with Po; 778.45' - 778.9' 5$\frac{1}{2}$" vein contact about 45° to C.A. Thin band of Po and Tr cp at upper contact 3 specks of V.G. 779.1 1" vein contact about 45° minor Po and the vein also has about 5% cp, 782.2 1" vein minor Po; 784.2 $\frac{1}{2}$" vein loaded withV.G.. Contact about 60°. Po and Tr cp are also present; 786.4 - 786.7 3" vein minor Po Tr cp. Contact about 45° to C.A. 789.6' - 789.8' 2.5" vein contact about 45° to C.A. Tr po and Tr cp; 793.0 - 793.2' 2$\frac{1}{2}$" vein contact about 45° to C.A. Tr cp; 793.8 - 794' 2$\frac{1}{2}$" vein contact 45° to C.A. Tr po; 794.2 - 794.3 1" vein contact 30° to C.A. 10% filled with Po with minor Py and Cp; 798.8' 1" vein which has 10% Py and tr cp in the vein. Contact about 60°to C.A. 803.25 - 803.4 13/4" vein minor Po and stringy cp. The cp is not restricted to the vein and is also found 4"-5" away from the vein in the mafic tuff. 804' 1/3" vein; 810.5' $\frac{1}{2}$" vein Tr py; 819.8' 1" vein. Contact about 90° to C.A.; 821.9' - 822.3' 4$\frac{1}{2}$" vein. contact about 45° to C.A. Minor Po and Tr cp at the bottom contact. 7-8 specks of V.G. in central part of the vein.		7257	976.0	981.0	5.0	T				
				7258	981.0	986.0	5.0	T				
				7259	986.0	991.0	5.0	T				
				7260	991.0	996.0	5.0	.02		0.05		all core sent out
				7261	996.0	1001.0	5.0	T				
				7262	1001.0	1006.0	5.0	T				
				7263	1006.0	1011.0	5.0	N				
				7264	1011.0	1016.0	5.0	T				
				7265	1016.0	1021.0	5.0	.02				
				7266	1021.0	1026.0	5.0	T				
				7267	1026.0	1031.0	5.0	.03				
				7268	1031.0	1036.0	5.0	T				
				7269	1036.0	1041.0	5.0	.15				
				7270	1041.0	1046.0	5.0	.03				
				7271	1046.0	1051.0	5.0	.07				
				7272	1051.0	1056.0	5.0	.02				
				7273	1056.0	1061.0	5.0	.005				
				7274	1061.0	1066.0	5.0	.005				
				7275	1066.0	1071.0	5.0	.01				
				7276	1071.0	1076.0	5.0	.005				
				7277	1076.0	1081.0	5.0	T				
				7278	1081.0	1086.0	5.0	T				
				7279	1086.0	1091.0	5.0	T				
				7280	1091.0	1096.0	5.0	T				
				7281	1096.0	1101.0	5.0	T				
				7282	1101.0	1106.0	5.0	.01				
				7283	1106.0	1111.0	5.0	.01				

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.
757	846	CONTD.		7284	1111.0	1116.0	5.0	.01			
		827.7' - 827.9' 2" vein contact about 70° to C.A. Small irregular vein		7285	1116.0	1121.0	5.0	.01			
		832: 832.25 - 832.45 2¼" vein contact 60° to C.A. Tr Po along contact		7286	1121.0	1126.0	5.0	.01			
		839.7' 3/4" vein Tr po, py and cp; 844 + 844.7'. Two 3/4" veins with		7287	1126.0	1131.0	5.0	T			
		irregular contacts. These veins contain 10% Po and Tr cp.		7288	1131.0	1136.0	5.0	T			
		Minor disseminated Po and Py occurs outside veins at various places		7289	1136.0	1141.0	5.0	T			
		however not in great enough concentration to be mentioned.		7290	1141.0	1146.0	5.0	.02			
				7291	1146.0	1151.0	5.0	.01			
846	878	CHLORITE ALTERATION ZONE		7292	1151.0	1156.0	5.0	N			
		Possibly fine grained mafic flow or tuff. Originally foliation weakly		7293	1156.0	1161.0	5.0	N			
		defined about 45° to C.A. Bedding is not defined. A 3 dimensional V-		7294	1161.0	1166.0	5.0	N			
		shaped lens of po and py mainly with minor cp at 857.3 - 857.5'.		7295	1166.0	1171.0	5.0	N			
		Quartz veins occur at 849.8 to 849.9. Two ½" veins, the lower one		7296	1171.0	1176.0	5.0	N			
		about 30% filled with Py. At 846' - 846.2' 2" vein about 20% filled with		7297	1176.0	1181.0	5.0	T			
		Po and minor cp and several specks of V.G.		7298	1181.0	1186.0	5.0	T			
		859.5' 2" irregular quartz vein with Py, stringer Py 2-3% outside the		7299	1186.0	1191.0	5.0	T			
		vein at 860.2. This vein has a contact about 55°; 861.5 py along shear plane.		7300	1191.0	1196.0	5.0	T			
		862.7 - 863.55' 10" quartz vein contact irregular, minor Po and Py at		7301	1196.0	1201.0	5.0	T			
		upper and lower boundaries and minor cp at lower boundry; 865' 1"		7302	1201.0	1206.0	5.0	T			
		quartz vein minor disseminated Po and tr cp. 882' 2" quartz vein,		7303	1206.0	1211.0	5.0	T			
		stringer Py and Po from 881.5 - 882.1 <1%.		7304	1211.0	1216.0	5.0	.01			
		875.4 - 875.8 4½" Zone containing about 80% Po and <¼% cp.	875.4-875.8 (4½") 80% Po and <¼% cp.	7305	1216.0	1221.0	5.0	T			
				7306	1221.0	1226.0	5.0	T			
		876.1 - 876.2' 2" vein within the vein there is about 5% cp to 4% po.		7307	1226.0	1231.0	5.0	T			
				7308	1231.0	1236.0	5.0	T			
878	880.3	Fine grained. Dark grayish brown intermediate tuff.		7309	1236.0	1241.0	5.0	T			
		Fragments upto 1-2mm. No sharp contact. No quartz veins no mineraliz-		7310	1241.0	1246.0	5.0	T			
		zation. Moderate Biotite alteration, light chlorite alteration.		7311	1246.0	1251.0	5.0	T			
				7312	1251.0	1256.0	5.0	T			
880.3	1021	Fine grained. Dark green Mafic tuff and flow mainly. There are also a		7313	1256.0	1261.0	5.0	N			
		few minor units of intermediate tuff. Foliation about 45° to C.A. Tuff		7314	1261.0	1266.0	5.0	N			
		fragments upto 1-2mm minor exsolved carbonate.		7315	1266.0	1267.0	1.0	N			
		Intermediate tuff from 918.5' - 920'; intermediate to mafic tuff from									
		940.5' - 942.1'. Intermediate tuff 932 - 933'.									
		All the mafic sections are highly chloritic and biotite alteration is									
		moderate throughout and intense adjacent to some of the quartz veins.									
		Quartz veins occur at 879.6' 1½" vein, minor Py; 900.9' - 901.2' 3½"									
		vein minor Py and Po; 901.4 - 901.6 2" vein minor po and cp along									
		fractures in the vein; 903.3 - 903.7' 4½" vein irregular contacts,									
		about 5% py and Po, minor cp. 905.4' - 905.6' 2" vein with irregular									
		contacts. Contains a number of specks of V.G. >15 specks. Vein is									
		about 20% filled with Py and 2-3% cp. 907.8 1" vein contact about 45°									
		Tr py; 916.5' - 916.6' 1½" vein contact 65°; ¼" vein of Py and Po at 920';									
		irregular carbonate vein running down the axis of the core from 930-932.									
		933'-934.5' rock fractured and recemented, with grounded rock minor									
		carbonate and minor Py. Fault Breccia. Fragments upto several but									
		usually <1" and are mainly triangular in shape.									
		934.5' 1½" quartz vein the vein contains 5-10% sphalerite of 1-2% cp.									
		There are also a few blocks of sphalerite in the mafic tuff adjacent to the									
		quartz vein.									

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
880.3	1021	CONTD. $\frac{1}{2}$" vein at 943.5 and $\frac{1}{2}$" vein 944.4' minor Py and Tr cp along fractures in the vein. Also minor disseminated cp and po outside of the quartz vein. 947.2 - 948 10" quartz vein contact about 65° to C.A. 5% filled with Po, minor Py and Tr cp; 957.5 - 960.1 irregular quartz vein running parallel to C.A. From 959.8 - 960.1 it runs perpendicular to the C.A. as the typical vein does. Lens of Po at 957.7 about 1" long $\frac{1}{2}$" wide; 967.5 $\frac{1}{4}$" vein contact about 50°; Minor disseminated Py and Po at 968'; 975.3' $2\frac{1}{4}$" vein 20% filled with Py; 993.7' - 994.7' over the one foot 10% Po and Tr Cp and 1% Py; 996.5' 1" vein minor Py and Po; 1001.8' 1" vein contact 25° to C.A.. 10% filled with Po and Py. 1009.0 1" vein contact 45° to C.A.; 1011.2' 3/4" vein. Contact 30° to C.A. 1018.5' 1" vein minor Py and Po.						
1021	1021.5	Medium grained. Light gray felsic tuff. Fragments upto 3mm. Contact about 70° to C.A. There isn't any quartz veining and no mineralization.						
1021.5	1050	Fine grained. Dark green Mafic tuff. Foliation about 55° to C.A. Fragments upto 1-2mm. There are abundant blebs of carbonate, moderate chlorite alteration throughout the section and light biotite alteration mainly concentrated adjacent to the quartz veins. Quartz veins occur at 1026.4' - 1026.5' 1" vein; 1027' 3" vein; 1028.8' $1\frac{1}{2}$" vein; 1036.7' $1\frac{1}{2}$" vein; 1038.2' $1\frac{1}{2}$" vein; 1040.8' 1" vein; 1045' - 1045.35' 4" vein and 1050 1" vein. Mineralization consist of minor Py and Po with Tr cp. This mineralization is mainly restricted to quartz veins however it also occurs in very minor amounts along shear planes.						
1050	1056	Fine grained. Greenish brown intermediate tuff. Foliation about 60° to C.A. Fragments upto 1-2mm. Brown colour due to abundant biotite alteration. Chlorite alteration is light throughout the section. There is only minor quartz veining in this section and the largest is 1" and is at 1053.2'. Mineralization consist of minor Py in the form of small pods throughout the rock. The pods are about $\frac{1}{4}$" long.						
1056	1070	Fine grained. Dark green Mafic flow. This section is very highly chloritic. There is only very minor quartz veining and very very minor disseminated Py.						
1070	1086	Fine grained. Light gray felsic tuff. with two short mafic tuff sections. One at 1075' - 1077' and the other mafic unit is at 1081' - 1081.5'. The mafic tuff is fine grained and dark green in colour. The contact between the felsic tuff and the mafic tuff at 1075 - 1077 is about 50°. The felsic unit contains one large quartz vein at 1070.9 - 1071.4 and this vein contains about 5% Py. Other than this vein there are very minor quartz veining and very minor disseminated Py.						
1086	1093	Fine to medium grained dark greenish brown. Mafic tuff with a mafic flow unit between 1091 - 1092. The mafic tuff has very light biotite alteration. There is also abundant carbonate in the form of blebs and small veins. No quartz veining worth mentioning and very minor disseminated Py.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1093	1097.5	Fine grained. Light gray felsic tuff. The upper contact with the mafic tuff is about 65° to C.A. The bottom contact is also about 65° to C.A. Fragments upto 1-2mm. No quarts veining and no mineralization.						
1097.5	1120	CHLORITE ALTERATION ZONE. Main minerals chlorite, biotite and minor talc. Foliation about 45° to C.A. There is also minor streaky carbonate, minor quartz veining and no mineralization. The concentration of the chlorite is not constant throughout and in places such as 1114 - 1116 it is concentration in the bands, undoubtable reflection slight changes in composition of the original rock which made particular sections more septable to chlorite alteration.						
1120	1137.5	SERPENTINIZED ZONE. TALC CARBONATE Foliation about 45° to C.A. Main minerals talc, chlorite, streaky carbonate. No quartz veining and no mineralization.						
1137.5	1144.5	Fine grained. Light gray felsic tuff possible bedding 70° to C.A. Fragments upto 1-2mm. Minor quartz veining and minor disseminated Py.						
1144.5	1149	SERPENTINIZED ZONE. TALC CARBONATE Same as 1120 - 1137.5. No quartz veining and no mineralization.						
1149	1166	CHLORITE ALTERATION ZONE Foliation about 45° to C.A. Minor carbonate in the form of streaks parallel to foliation. Minor small irregular quartz veining. Minor disseminated Py.						
1166	1173.4	Medium grained. Dark green mafic tuff. Very highly chloritic. Fragments upto 3-4mm. There is a 2" felsic tuff unit at 1167.3 and has a 65° contact with the mafic tuff. Very minor quartz veining and very minor disseminated Py.						
1173.4	1180.65	Fine grained. Light gray felsic tuff. Fragments upto 1-2mm. Foliation about 45° to C.A. No quartz veining and only minor disseminated Py.						
1180.65	1255.5	Fine grained. Medium green intermediate tuff. Minor short more felsic units. Moderate to High chlorite alteration throughout. Light chlorite alteration. Minor irregular carbonate veining. Quartz veining is practically nil except for a few ¼" veining. Mineralization consist of minor disseminated py and in places conformable to foliation.						
1255.5	1266	Fine grained. Light gray. Felsic Tuff. Fragments upto 1mm. Bedding 65° to C.A. No quartz veining and no mineralization.						
1266	1267	Fine grained. Dark green mafic tuff. Contact with overlying felsic about 60° to C.A. This section is high chloritic. No quartz veining and no mineralization.						
	1267	END OF HOLE						

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

Tropari Test 36.5°

PROPERTY	DETOUR LAKE PROJECT ANOMALY 38	LATITUDE	198 + 00 NORTH	STARTED	April 29th, 1975	DIP TEST Footage	Corrected	Footage	Corrected	Footage	Corrected
HOLE NO.	38 - 39	DEPARTURE	184 + 00 EAST	FINISHED	May 2nd, 1975	200'	43°				
BEARING	180°	ELEVATION		LENGTH	647'	400'	43°				
DIP-COLLAR	- 45°	SECTION	184 E	LOGGED BY	P. BROWN	600'	39.0°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
0	125	OVERBURDEN		5605	125	130	5.0	T		.02		
				5606	130	135	5.0	T		.02		
125	222	MAFIC VOLCANIC ROCKS:		5607	135	140	5.0	T		.02		
		H: 4 - 4.5. Foliation 50° with Core Axis		5608	140	145	5.0	T		.03		
		Interbedded coarse grained to fine grained mafic tuffs. With minor		5609	145	150	5.0	T		.02		
		(flows?) These rocks are dark bulish-green in colour. There are also		5610	150	155	5.0	.28		.01	.12Au / 15'	
		some thin bands of a slightly more felsic rock, however not intermediate.		5611	155	160	5.0	T		.02		
		Chlorite alteration is the most common alteration product, along with		5612	160	165	5.0	.07		.11		
		some biotite. The biotite alteration is closely associated with the quartz		5613	165	169.5	4.5	T		.03		
		veining. This section is moderately quartz veined, with veins varying in		5614	169.5	174	4.5	T		.03		
		width from <1/10" to 3". Many of these quartz veins contain Po, Py		5615	174	178	3.0	T		.03		
		and some Cp.		5616	178	183	5.0	T		.04		
		125 - 127.5: Coarse grained mafic tuff, with fragments upto		5617	183	187	4.0	T		.01		
		¼". Very few Po and Py blebs.		5619	187	190.5	3.5	T		.08		
		127.5 - 191: Fine grained mafic to slightly more felsic tuff.		5620	190.5	195.5	5.0	N		.01		
		Fragments usually < 1mm, except for a 1ft.		5621	195.5	201.5	6.0	T		.02		
		section at 183' where fragments are upto 4mm.		5622	201.5	206	4.5	N		.01		
		Few disseminated blebs of Po and Py with		5623	206	211.5	5.5	N		.01		
		a slightly greater concentration associated		5624	211.5	216	4.5	N		.01		
		with quartz veining. Percent of mineraliz-		5625	216	220.5	4.5	T		.04		
		ation very much less than 1%.		5626	220.5	225	4.5	T		0.008		
		159 - 163: Sulfide filling upto 1cm in width of Po and Py	159 - 163 about 1% Po	5627	225	228	3.0	T		0.015		
		with trace cpy.	<⅓% Py and trace cp.	5628	228	233	5.0	T		0.024		
		163 - 170.5: Very minor Po and Py.		5629	233	236	3.0	0.09		0.34		
		170.5 - 189.5: Very minor disseminated Po + Py with		5630	236	241	5.0	0.005		0.022		
		slightly greater concentration along quartz		5631	241	245	4.0	T		0.013		
		veins, there is also trace cp.		5632	245	250	5.0	0.01		0.019		
		At 189.5 there is a 1cm band of Po and Py.		5633	250	255	5.0	0.02		0.04		
		At 189.8 there is trace of cp.		5634	255	260	5.0	T		0.03		
		At 190 minor brecciation due to quartz veining.		5635	260	265	5.0	T		0.012		
				5636	265	270	5.0	T		0.017		
191	222	A slightly more felsic tuff than at the beginning of the hole, but on broad		5637	270	275	5.0	0.01		0.03		
		classification it is still mafic. This section is fine grained and contains		5638	275	280.5	5.5	T		0.12		
		very little quartz veining and very minor disseminated Po + Py. At 211'		5639	280.5	285	4.5	0.23		0.10		
		there is a 3cm quartz vein with 2 or 3 very small grains that look like		5640	285	290	5.0	0.01	.159	0.017		
		Py cubes.		5641	290	295	5.0	0.12	28.5'	0.13		
				5642	295	300	5.0	0.07		0.06		
				5643	300	305	5.0	0.23		0.04		
				5644	305	309	4.0	0.36		0.08		

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	ASSAYS Ag.	ASSAYS Cu.	ASSAYS Zn.	ASSAYS Pb.
222	277	A continuation of this slightly more felsic fine grained tuff which is dark bluish green in colour. This section is moderately quartz veined and fairly well mineralized over short sections < 6". Chlorite alteration is common throughout with biotite alteration associated mainly with the mafic rocks adjacent to the quartz veins. Quartz veins vary in size from 1mm to 4 cm. Minor brecciation is also associated with some of the quartz veins.		5645	309	314	5.0	0.03		0.07	0.012	
				5646	314	319	5.0	Tr		0.006	0.010	
				5647	319	322	3.0	T		.05	.016	
				5648	322	327	5.0	.005		.02	.015	
				5649	327	330	3.0	T		.008	.013	
				5650	330	335	5.0	T		.007	.010	
		At 223 there is a 6" zone that is highly chloritic and somewhat talcose.		5651	335	339.5	4.5	.01		.011	.008	
		222 - 233: Very little to NIL mineralization.		5652	339.5	344	4.5	N	0.04			
		233 - 234:	1-2%cp; 10%po; 8-10%py	5653	344	349	5.0	T				
		234 - 253: Minor Py and Po associated with quartz veins.		5654	349	354	5.0	.04				
		253.5: A narrow band of Po with minor Py and trace cp. The band is 2-3cm wide.		5655	354	359	5.0	.04				
				5656	359	364	5.0	.01				
		253.5 - 269: Very little Po and Py associated with quartz veins.		5657	364	368	4.0	.005				
				5658	368	373	5.0	.005				
		At 269 : 5cm quartz vein with Po + Py	269 : 2-3 % Po+ Py combined	5659	373	378	5.0	T				
				5660	378	383	5.0	.005				
		269 - 277: Minor Po + Py associated mainly with quartz veins.		5661	383	387	4.0	.005				
				5662	387	392	5.0	T				
				5663	392	394.5	2.5	T				
277	282	BASIC DIKE (Diabasic) cuts the mafic rocks at 282' at 60° to C.A. This dike contains about equal porportions of feldspar and Hb + Pyroxene. The feldspar laths are upto 2-3mm in length and usually no more than 1mm wide. There appears to be some sort of a chilled margin between the dike and the tuffs. A few small quartz veins occur in this section and at 278' there is a 1-2cm band of Py with some cp. The cp is concentrated at the edges of the band while the Py is in the centre of the band.		5664	394.5	399.5	5.0	T				
				5665	399.5	404.5	5.0	T				
				5666	404.5	409.5	5.0	T				
				5667	409.5	414.5	5.0	T				
				5668	414.5	419.5	5.0	T				
				5669	419.5	425	5.5	T				
				5670	425	430	5.0	.005				
				5671	430	435	5.0	T				
282	311	Continuation of the same type of rock above the dike. However, there is an increase in the amount of biotite alteration around the quartz veins. At 283' at 3-4 cm quartz vein which has some Py with minor cp. The mineralization is mainly between the fragments of quartz which make up the vein.		5672	435	440	5.0	T				
				5673	440	445	5.0	T				
				5674	445	450	5.0	T				
				5675	450	455	5.0	0.005				
				5676	455	460	5.0	0.05				
		283 - 293: Minor Po + Py and trace cp associated with very small quartz vein. These veins are <1 cm in width.		5715	460	465	5.0	T				
				5677	465	470	5.0	T				
				5678	470	475	5.0	T				
		At 293 there is a 6-7cm quartz vein with mainly Po and Trace Cp.	Over the 6-7cm about 20% Po+1% cp.	5679	475	480	5.0	T				
				5680	480	485	5.0	T				
		293 - 298: An increase in biotite alteration associated with quartz veining. However, there is only minor Po + Py associated with the quartz veining.		5681	485	490	5.0	T				
				5682	490	495	5.0	T				
				5683	495	500	5.0	T				
				5684	500	505	5.0	T				
		298 - 299.5: A quartz vein. Almost completely barren, except for a 5mm bleb of Py.		5685	505	510	5.0	T				
				5686	510	515	5.0	T				
		299.5 - 311: Mafic or slightly felsic tuff continued; and there is also a continuation of the abundant biotite alteration around the quartz veins. These quartz veins contain very slight mineralization of Po and Py with trace cp.		5687	515	520	5.0	0.005				
				5688	520	525	5.0	T				
				5689	525	530	5.0	T				
				5690	530	535	5.0	T				
				5691	535	540	5.0	T				
				5692	540	545	5.0	T				
				5693	545	550	5.0	T				
				5694	550	555	5.0	T				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.	Ag.	Cu.	Zn.	Pb.
311	322.5	GRAY CHERT OR CHERTY TUFF dipping at 70° to C.A. The first foot displays a well bedded cherty tuff. From there to 322.5 bedding is less distinguishable. The tuff fragments are quite small 1mm or so. The mineralized section extends from 311 - 316 however most of the mineralization is in a one foot section from 312 - 313. 316 - 322.5: Minor disseminated Po + Py.	312 - 313 about 1% Po, 1% Py & $<\frac{1}{4}$% Cp.	5695	555	560	5.0	T				
				5696	560	565	5.0	T				
				5697	565	569	4.0	T				
				5698	569	574	5.0	T				
				5699	574	579	5.0	T				
				5700	579	584	5.0	T				
				5701	584	589	5.0	T				
322.5	330	Medium grained bluish gray mafic tuff with abundant chlorite and biotite alteration dipping. At 75° to C.A. At 328 - 329 there is a 1 foot quartz vein with only very minor fine grained mineralization (Po?).		5702	589	594	5.0	T				
				5703	594	599	5.0	T				
				5704	599	603	4.0	.01				
				5705	603	608	5.0	.03				
				5706	608	612	4.0	.07				
				5707	612	615	5.0	.02				
330	339	Another cherty tuff horizon dipping 75° to the core axis. This horizon is quite similar to the one above, and shows possible bedding in places. Besides a few small streaks of (Po + Py?) this cherty tuff section is barren of mineralization. At 331.5 a 1cm band of intense chlorite alteration.		5708	615	619.5	4.5	T				
				5709	619.5	624	4.5	T				
				5710	624	629	5.0	T				
				5711	629	634	5.0	T				
				5712	634	640	6.0	T				
				5713	640	645	5.0	T				
339	355	MAFIC VALE. Medium grained dark bluish gray mafic volc which has an increase in chloritization and biotitization when compared to the mafic volcanic rocks above. There is only very minor quartz veining and only a few blebs of mineralization.		5714	645	647	2.0	T				
				5715	460	465	5.0	T				
355	394	CHLORITE ALTERATION ZONE. Dark greenish colour. This zone in some places is talcose. The talcose zones which have an irregular core surface are as follows. 372 - 377 and 385 - 389. At 359 some minor cp is associated with a thin quartz vein.		NOTE:	125' to 339.5' SPLIT FOR ASSAY 455' to 485' SPLIT FOR ASSAY SOME SORT OF MIX UP IN SAMPLES FROM 5704 to 5714 599' to 647' SPLIT FOR ASSAY							
394	418	Continuation of the chlorite. Alteration zone. Main minerals are chlorite, Actinolite - tremolite and talc. Original rock was a basic (?) foliation about 40° to C.A. in this section there are zones that are quite talcy as in the section 355 - 394, however on the whole the rock is more chloritic than serpentinitic. Minor quartz veins usually very thin are scattered throughout the section with some biotite alteration around these veins. Mineralization practically nil. Only a few blebs of Po and Py.										
418	462	SERPENTINIZED ZONE. Dipping at 70° to Core Axis. The only difference in this section and the one immediately above it is that there appears to be a greater proportion of talc and Actinolite - tremolite than chlorite as well as a general lighting of the colour to a lighter green. This section like the one above is is quite schistose with a rough core surface, and has a greasy, soapy feel. Hardness 1-1½. The section between 445 and 447 has been so strongly altered that it is quite crumbly. Quartz veining is present however in most cases they are quite thin 1 - 2mm. At 440.8 a 3cm vein with minor Po and Py. Mineralization in this section is nil, except for a few small blebs of Py.										

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
452	484	INTERMEDIATE VOLCANIC ROCKS. Dipping at bottom contact 75° to C. A. Interbedded greenish grey flows and fine grained tuffs. Hardness 4½ - 5. The tuffs are slightly lighter grey than the flows. 452 - 455: Flow; 455 - 457 Tuff; 457 - 463 Flow; 463-484 Tuff mainly. These rocks are fine grained and display a somewhat conchoidal fracture. The section is moderately quartz veined and in places has abundant biotite alteration around the quartz veins. Bedded pyrite occurs throughout this zone and is not associated with the quartz veining apparently since in places it can be seen cutting across the vein. (an example 466'.)	458 - 463 ½% Py 463 - 468 < ½% Py 468 - 473 < ½% Py 473 - 478 < ½% Py 478 - 483 ½% Py 483 - 488 ½% Py					
484	514.3	BASIC VOLCANIC TUFF AND MINOR FLOWS. Hardness 4-4¼. Colour Dark grayish green Quartz veins are very few and only show very minor traces of sulfides. Mineralization consist of 1mm blebs of sulfides scattered throughout the section.						
514.3	546	Mainly a medium gray foliated cherty tuff, with minor bands 1-2 feet or less of mafic tuff. Foliation is about 50° and the bottom contact of this unit is about 50° with the core axis. The rocks are mainly fine grained but in places are medium grained. 514.3 - 517: Cherty Tuff. 517 - 518: Mafic Tuff 518 - 520: Cherty Tuff. 520 - 523: Mafic Tuff 523 - 526: Cherty Tuff. 526 - 527: Mafic Tuff 527 - 531: Cherty Tuff. 531 - 532: Mafic Tuff 532 - 546.0: Cherty Tuff. The mafic units are dark bluish green in colour and for the most part fine grained and in places have been considerably altered to biotite, chlorite alteration is more or less constant throughout. The abundance of quartz veins is low and shows no preference for the cherty or mafic units. Mineralization is very scarse but occurs in both the cherty and mafic units as small disseminated blebs 1mm and are Py and Po. There is a slight increase in the amount of mineralization along some of the shear planes. The quartz veins appear to be barren.						
546	594	MAFIC VOLCANIC ROCKS MAINLY. Interbedded mafic tuffs and cherty tuffs with mafic tuffs predominating. Foliation is about 45° with C. A. The mafic units are fine grained and dark bluish green in colour, while the cherty units are fine grained and grey. At 572 a 4 cm bed of cherty tuff. From 586.4 to 587 bedded cherty tuff. Quartz veining is minor however where it does occur there is a general increase in biotite alteration - chlorite alteration is common throughout the mafic units.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
546	594	CONTD. Mineralization consists of disseminated blebs of Po and Py very minor - Mineralization also occurs in the cherty tuff and doesn't appear to be concentrated in either the mafic or cherty units. Bottom contact at 594 is at 45° to core axis.						
594	626	FINE GRAINED GRAY CHERTY TUFF - with a 2-3' band of mafic tuff at 595.3 to 597.6. Foliation 50° to core axis. The mineralization is Py mainly and is concentrated in the biotite rich zones at 601 - 601.5; 604 - 607 and 620 - 626. It is dissemimated fairly evenly from 608 - 613 in the rest of this section there is only trace mineralization. The contact between the cherty tuff and the underlying Felsic agglomerate is 45° to C.A.	In the Biotite rich zones there is about 1% Py and 2½% Py in the disseminated zones.					
626	647	FELSIC AGGLOMERATE 4b. in a chloritic altered mafic matrix. The fragments are light gray cherty Royolite bombs and range in size from < ½cm to 1-1½cm. The only mineralization is some very minor pyrite.						
	647	END OF HOLE.						

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

PROPERTY	DETOUR LAKE	LATITUDE	203 + 50 NORTH	STARTED	May
HOLE NO.	38 - 122	DEPARTURE	L 172 + 00 EAST	FINISHED	May
BEARING	180°	ELEVATION		LENGTH	1347
DIP COLLAR	-50° 'N. Q.'	SECTION		LOGGED BY	P. Maingot,]

FOOTAGE From	FOOTAGE To			
1246.4	1259.0	MEDIUM GRAINED DARK GREEN WEAKLY MAGNETIC ACT.-TREM. ALTERATION ZONE (6b) Upper contact 50° to C.A. Lower contact runs down the C.A. for the last 6". This section has abundant act. needles upto 1/3" however they are usually <¼". The act.-trem. is quite massive throughout with no well developed foliation or jointing. Chlorite alt. is well developed throughout. There isn't any quartz or quartz-carb. veining and only minor carb. blebs. Occ. tr bleby po.	occ. t
1259.0	1284.5	FINE TO MEDIUM GRAINED LIGHT GREY FELSIC FLOW (1a) This section has abundant 1-3 mm phenos. of quartz which are in a felsic matrix. Many of these quartz phenos. have a bluish tinge. Foliation is weakly developed at 40° to C.A. The first 3' and last 2' of this unit have good bio.-phlog. alt. while the rest of this unit has only minor muscovite alt. This section has only very minor quartz veining. There is only minor py which occurs as diss. blebs, which are elongated sub-parallel to foliation. Minor py.	Minor
1284.5	1315.0	FINE TO MEDIUM GRAINED DARK BLUISH GREEN MAGNETIC TALC-CARB. (1 Foliation is weakly developed at 45-50° to C.A. This section has abundant bleby carb. which is elongate parallel to foliation, throughout. Except for 2 small fault zones which occur at 1290.2 - 1290.7 and 1295 - 1295.5 and a 3' broken section between the two fault zones, this unit is relatively massive. A joint at 1308.6 has abundant hemitite staining on it. The talc-carb. has weak chlorite alt. adjacent to its upper and lower contact and in the fault zones. A few actinolite needles are also assoc. with the chloritic sections. This section has very minor quartz and quartz-carb. veining and no sulphides. No sulphides.	No su

SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Au.				
21185	1065	1070	5	.005				
21186	1080	1085	5	T				
21187	1085	1090	5	.005				
21188	1130	1135	5	.03				
21189	1135	1140	5	.034				V.G.
21190	1140	1145	5	.005				
21191	1145	1150	5	T				
21192	1150	1155	5	.025				
21193	1155	1160	5	.01				
21194	1160	1165	5	.01				
21195	1165	1170	5	.02				
21196	1170	1175	5	.045				V.G.
21197	1175	1180	5	.005				
21198	1180	1185	5	.045				
21199	1185	1190	5	.025				
21200	1190	1195	5	.01				
35829	1195	1200	5	.01				W. Core
35830	1200	1205	5	.03				"
35831	1205	1210	5	.05			V.G.	"
35832	1210	1215	5	.025				"
35833	1215	1220	5	.005				
35834	1220	1225	5	.005				
35835	1225	1230	5	.005				
35836	1230	1235	5	.005				
35837	1235	1240	5	.005				
35838	1240	1245	5	.005				
35839	1245	1250	5	T				
35840	1250	1255	5	.005				
35841	1255	1260	5	.005				
35842	1280	1285	5	.005				
35843	1285	1290	5	.005				
35844	1290	1295	5	T				
35845	1295	1300	5	T				
35846	1300	1305	5	T				
35847	1305	1310	5	.005				
35848	1310	1315	5	.005				
35849	1315	1320	5	.005				
35850	1320	1325	5	T				
35851	1325	1330	5	T				
35852	1330	1335	5	T				

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

PROPERTY DETOUR LAKE HOLE NO. 38 - 122

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1315.0	1318.6	A mixture of about 70% quartz veining and 30% chlorite alt. with abundant actinolite needles. The quartz veining has only tr py.						
1318.6	1333.1	FINE TO MEDIUM GRAINED MEDIUM GREEN WEAKLY MAGNETIC ACT. RICH CHLORITE ALTERATION (5) This section has weak possible foliation at 60° to C.A. There are abundant quartz-carb. veinlets and stringers in this section however none are mineralized. At 1326: a 3" quartz-carb. vein 80° to C.A. barren. Actinolite needles are quite abundant throughout and are upto 1/3" in length but usually about ¼". This section has no noticeable mineralization.	No sulphides					
1333.1	1346.0	FINE GRAINED DARK BROWNISH GREEN MAFIC TUFF (1c) This section is very weakly magnetic. Bedding is developed at 35° to C.A. The mafic tuff has alternating bio.-phlog. rich, chlorite poor and bio.-phlog. poor - chlorite rich alteration. This banding is probably due to slight changes in the comp. of the tuff. There is only minor quartz and quartz-carb. veining and minor bleby carb. elongated sub-parallel to foliation and bedding. 1333.1 - 1346.0: Occ. tr diss. py	occ. tr diss. py					
	1346.0	END OF HOLE						

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

PROPERTY	DETOUR LAKE	LATITUDE	208 + 00 NORTH	STARTED	June 24th
HOLE NO.	38 - 129A	DEPARTURE	164 + 00 EAST	FINISHED	July 17th
BEARING	180° SOUTH	ELEVATION		LENGTH	1801'
DIP COLLAR	- 60°	SECTION		LOGGED BY	P. Brow

FOOTAGE			
		1575.8: ¼" q.v. irregular, 70°, 10% po, 7% py.	
1576.8	1590.8	MAFIC TUFF (1c)	tr po, tr
		The unit is med. fine grained, greenish brown coloured. Phlogo. content varies from nil-mod. Where the unit has much phlog. altered. there seems to be an increase in min. Carb. content is high and it is found as diss. and veinlets. Fractures are chloritized and py.	
		At 1578.0: ½" irregular, 10% po, tr cpy	
		1583.8: 1" at 90° , 2% py, 10% po.	
		1564.0 - 1585.0: Series of q.v. , 15% po, tr cpy	
1590.8	1616.5	MAFIC FLOWS (1a)	
		There are 2 distinct type of flows.	
		1590.5 - 1601.0. The unit is med. fine grained and is green coloured. The unit is carb. rich and is weakly phlog. altered. The unit is poorly mineralized . Q.V. low. The unit is med. chloritized.	
		At 1599.0: ½" q.v., 10% po, 1% cpy at 70°,	
		1601.0 - 1616.5: The unit is fine grained , light green coloured and is generally non-mineralized. Carb. content is low. The unit is well chloritized and weakly phlog. altered.	
		Q.V. <1"/5',	
		1614.0 - 1614.8: 5 q.v. at 70°, tr cpy, 5% po.	
1616.5	1618.8	CHERT (3)	
		Top contact at 50°. Bottom at 50°.	
		The unit is fine grained, smoky brown - grey coloured. The top contact is weakly mineralized with po. The unit is massive and there is no q.v.	
1618.8	1632.3	MAFIC FLOW (1a)	tr py, tr
		The unit is med. coarse grained and is dark green coloured. The unit is chlortized but non-biotized. Carb. content is mod. and carb. is formed as veinlets and diss. blebs. Fractures are chloritized and healed by carb. The units foliation is a 60° q.v.	
		At 1626.0: 1" q.v. at 70° , tr py, tr cpy	
		1629.8: 1" quartz-carb. at 70°, 2% py, 10% po	
		1631.0: 3" quartz vein, irregular, 5% po	
		1632.0: ½" irregular, 20% po.	

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SAMPLE NO.	FOOTAGE From	To	Length	ASSAYS Au.	Ag.	Cu.		
32149	1585	1590	5	.015				
32150	1590	1595	5	.015				
32151	1595	1600	5	.005				
32152	1600	1605	5	T				
32153	1605	1610	5	T				
32154	1610	1615	5	.08				
32155	1615	1620	5	.01				
32156	1620	1625	5	.01				
32157	1625	1630	5	.06				
32158	1630	1635	5	.010				
32159	1635	1640	5	.025				
32160	1640	1645	5	.010				
32161	1645	1650	5	.015				
32162	1650	1655	5	T				
32163	1655	1660	5	T				
32164	1660	1665	5	.015				
32165	1665	1670	5	.010				
32166	1670	1675	5	T				
32167	1675	1680	5	.010				
32168	1680	1685	5	.005				
32169	1685	1690	5	.438				
32170	1690	1695	5	.202	.268			
32171	1695	1700	5	.085	20'			
32172	1700	1705	5	.347			V.G.	w/core
32173	1705	1710	5	.010				
32174	1710	1715	5	.01				
32175	1715	1720	5	.03				
32176	1720	1725	5	.03				
32177	1725	1730	5	.01				
32178	1730	1735	5	.02				
32179	1735	1740	5	.01				
32180	1740	1745	5	T				
32181	1745	1750	5	T				
32182	1750	1755	5	T				
32183	1755	1760	5	.025				
32184	1760	1765	5	.010				
32185	1765	1770	5	.035				
32186	1770	1775	5	.010				
32187	1775	1780	5	T				
32188	1780	1785	5	.005				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1632.3	1685.0	MAFIC TUFF The unit is fine grained, green coloured. The unit has mod. carb. The unit is well chloritized and has lower -weak phlog. alt. occurring in bands. Q.V. low <1"/5'. The unit is finely banded at 70° to C.A. Q.V. at 1634.5: ½" at 70° tr po 1656.0: 1" 5% po, tr cpy at 90° 1664.5: 1" at 70°, barren 1670.0: 1" q.v. irregular, barren	tr po, tr py, tr cpy					
1685.0	1705.0	INTERMEDIATE FLOW - TUFF (2a - 2c) This unit is med. coarse grained and is brownish grey coloured. The unit is weakly chloritized highly phlog. altered. Carb. content is low-mod. Q.V. is sign ra ging from 2"/5' - 2½'/5'. This unit contains much - 2% py. The py is found as diss. blebs and occurring with q.v. Po is tr - 1% and cpy is found in tr amount. This unit is poorly banded. The bottom contact is at 80°. Q.V. 1694.5: Irregular, 1", 5% po, 5% py 1695.6: Irregular, 1" tr py, tr po 1696.6: Irregular, 1½", 10% po, 10% py 1698.3: Irregular, 5", 5% py, tr cpy 1700.2: at 70°, 1", 10% py, 2% cpy 1702 - 1704.3: at 80°, 5% py, 3% po, 7 specks of V.G. at 1703.8.	2% py, tr cpy, tr po 7 specks V.G. at 1703.8					
1705.0	1707.1	CHERTY TUFF (3c) This unit is fine grained, smoky grey coloured. It is massive and homogeneous. Q.V. rare. The unit has tr py in it. Fractures are weakly chloritized. Banding is at 80° and is vague. This unit grades into the following:.	tr py					
1707.1	1715.0	FELSIC FLOW (4a) This unit is fine grained, grey white - grey coloured. The unit is massive with q.v. 1"/5'. There is tr py throughout. Fractures are chloritized and occasionally contain py. Unit has tr cpy at 1714.9 at 1711.1. Have 1" q.v. at 60° - barren.						
1715.0	1723.8	MAFIC FLOW TUFF (1a - 1c) This unit is typically coarse grained and dark green coloured with a brownish tinge. The unit is well chloritized. The unit is highly phlog. altered in the first 2' however following this 2' the unit becomes low-mod. phlog. altered. Crystals of act.-trem. are well developed throughout. Q.V. is <1"/5' and mineralization is confined to the first 6" being 1% po, 2% py. This unit's fractures are chloritized but are barren.	trpy, tr po					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1723.8	1726.5	CHLORITE ALT. (5) The rock is fine grained, light green coloured. The unit is highly chloritized. The zone is massive except for the upper contact which has a 1" zone of q.v. with 5% py, tr - 1% cpy. The rest of the zone has no q.v. There is tr diss. py in the unit; Lower contact at 90°.	tr py					
1726.5	1732.8	FELSIC FLOW (4a) This unit is fine grained crystalline rock that is grey-white coloured. The unit is massive and is weakly mineralized - with tr diss. py. The unit fractures are weakly chloritized. Bottom contact at 80°.	tr py					
1732.8	1734.5	CHLORITE ZONE (5) Similar to 1723.8 - 1776.5						
1734.5	1748.8	TALC-CARB. ZONE (6a) This unit is generally coarse grained and is grey to grey-green coloured. The unit is comprised of talc-carb and chlorite. The unit is well foliated at 60-80°. The unit contains tr diss. py in it. The unit is massive with no q.v. seen. However, there are short mafic section in the rock. At 1745.0 - 1745.5; 1746.0 - 1746.5; 1749.5 - 1750.						
1748.8	1756.0	INTERMEDIATE FLOW (2a) This unit is med.-fine grained and is grey-black coloured. The unit is massive and non-mineralized. Phlog. content is high and the unit has been mod. chloritized. Upper contact at 80°.						
1756.0	1775.5	TALC-CARBONATE (6) This unit is coarse grained and light green-grey coloured. Similar to 1734.5 - 1748.8. Fractures chloritized and slickensided. Tr py along fractures. Bedding at 80°. Bottom contact at 80°.	tr py					
1775.5	1779.7	MAFIC - INTERMEDIATE TUFF The unit is Int. in comp. for the first 1½' being highly phlog. altered as med. -fine grained, grey-brown coloured. The unit after this initial 1½' is mafic in comp. being med. - fine grained dark green with brown (due to phlog. alt.) This unit is banded at 75-80°. The carb. content is mod. and is found as diss. blebs and bands. No q.v., tr diss. py, Bottom contact at 80°.	tr py					
1779.7	1780.8	FELSIC FLOW Similar to 1726.5 - 1732.8.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
1780.8	1786.8	MAFIC AGGLOMERATE TUFF (1b - 1c) This unit is coarse grained and dark green-black with white splotches. The unit has been well chloritized and in places has well developed phlogo. alt. Carb. and quartz are found upto $\frac{1}{4}$-$\frac{1}{2}$" as angular fragments within the unit. The unit is poorly mineralized with diss. py banding of sorts can be seen at 80°. Top and Bottom contact at 80°.						
1786.8	1794.1	FELSIC FLOW TUFF (4a - 4c) This unit is fine grained and light grey coloured. The unit is generally massive. Bedding is at 80°. Py is found as tr diss. From 1789 -1791 have short mafic agglomerate tuff section. Minor q.v. is seen but the q.v. are barren.						
1794.1	1801.0	MAFIC AGGLOMERATE TUFF (1b-1c) Similar to 1780.8 - 1786.8.						
	1801.0	END OF HOLE						