

010

## **Diamond Drilling**

Area of HOPPER LAKE

Report Nº 13

Work performed by: AMOCO CANADA PETROLEUM CO. LTD.

Claim Nº	Hole NQ	Footage	Date	Note
P 401182	DL0-74-26-1	646.0'	Nov/74	(1)
	DLO-74-26-2	567.0'	Dec/74	(1)

Notes:

(1) #83-74

HOPPER LAKE AREA. # 83 MOCO M2601 401177 101182 626-1 \$ AZ 040 26-2 AMOCO CANADA PETROLEUM COMPANY LTD. SUITE 2010 - 65 QUEEN ST. WEST TORONTO 1, ONTARIO 1"=200'

AMOCE ANADA PETROLEUM COMPANY LTD MINING DIVISION - DIAMOND DRILL HOLE RECORD								Poge 1/2										
PROPERT DETOUR LAKES		KES LATITUDE L 12 + 00 S STARTED Novem					Footage	Correct	d	IP TEST	.ST ge Corrected		Footag*		orrected			
HOLF NO.	HOLF NO. DLO-74-26-1 BEARING 3400			DEPARTURE 1 + 50 W FIN ELEVATION LEN		FINISHED November 30, 1974			45°									
BEARING						LENGTH 646		200	510									
DIP-CCLLAR _450			SECTION		LOGGED BY	R. Johnson	1.1221	600	410									
FOC	TAGE							SAMPLE		FOOTAGE		·	·	ASSAYS	,	,		
From	To ·	<u></u>				Minero	alization	NO.	From	To	Length	Cu	Zn	Ni	Ag	Au		
0	38	Casing (over	-burdento 361	")														
38	113	Quartzofeldsp	athic - biotit					· •	<u>+</u>									
	1	content; med-fine gr and sucrosic; schistosity at 55° to core									<u>+</u>			· · · · · · · · · · · · · · · · · · ·		1		
	1	20 - 60% bio.	remainder s	1. rounded cream	ny feld. + clear qtz. gr.; in					1								
		places fine ir	reg. banding	due to variable t	bio. content with sharply gr	ad.												
		cont. at 60-65	o to core; ra	re small feld (?)	phenocrysts here and there	;					1							
		minor chlorite bands; mafic dike 74-74.5 at 55° to core; mi				hist					ļ	<u> </u>		!				
		at 76.6 - 77.8	3; possibly fe	lsic tuff on metas	sed and minor mafic tuff at	76.6												
					1	minor py	up to 1 = 3% S	705	145	150	5							
	194.8	Metasediment	and minor h	bld=b10-(cnl)=(1e1	d) schist banded at 60-65°	$\frac{80\%}{2000}$ $\frac{80\%}{2000}$ $\frac{20}{2000}$	(0%  pv) in	195	145	150		.003		.027	.01	Tr		
		on macro. & i	micro scale:	bictocity at 600 t	able (grey to black in seds,	ly places	o /o p) /					·		;				
		green in scars	sij line gr, se	ende and as indic	ated in schist sucrosic re	1 <u>y P</u>					· · · · · · ·			<u>.</u>				
· · · · · · · · · · · · · · · · · · ·	1	med garnets c	formon (up t	o 40% over 2') in	more mafic sections: schi	st is		······································		· · · · · · · · · · · · · · · · · · ·								
		most common	from $137 - 1$	170'; mainly grap	phitic slate from 170 - 194.	81;				1								
		banding at 170	) at 70° to co	re; minor py thr	oughout as diss. gr & pods	and									I			
		as 2 narrow 4	cm massive	bands in a pelitic	siltstone at (146.1 & 148.2	2;												
	· 	1-3% sulphide	s (80% py, 20	0% po) in graphiti	ic slates as diss. gr and ve	inlets												
		// schistosity							· · · · · ·									
				(5. 200 )							1							
194.8		Fegmatite dik	e; contact at	65-70° to core; c	coarse gr. qtz & K-leidspal	•												
197 1	280.8	Motacadiment	and hold-big	(chl2) - feld sch	ist: interbedded as above:			191	250	252	2	.018	.050		- 01	ŤŦ		
171.	200.0	handed at 600	to core' schi	$\frac{1}{1000}$ stosity 70°) main	nly schist at 208-221: grant	itic 1 - 10% S		192	221	223	2	.013		.008		Nil		
		slate at 197.1	- 207 . 249 -	262: massive ba	and of coarse gr amphibolit	(?) Average 5	%						·		·i			
		at 221-222 with	th 7-10% diss	. po + py, avera	ge of 5%S (py po) for section	on mainly py									1			
		with highest v	alues in grap	phitic slate and gr	mph. at 221; peg. dike as a	bove less po												
		at 203.7 -204.	. 2															
280.8	301	Conductor: ch	art interbodd	led with graphitic	slate grading into granhite					205		0.01	007	·		<b>1</b> 7 - 1		
200.0		at 2851: beddi	ng at 700 co	bistosity 60°. I-	2% atz pods veins & veinlet	7 - 20% py	t	194	283	285	2	.024	.007		.02	Nil		
		7 = 20% (aver:	age 10%) nv a	s diss gr. veinle	ts // schistosity and rare	av. 10%	r. sphalerite	193	293	295	۷	.01/				011		
	-	massive vugg	v pods: 1 or 2	2 small blebs of r	possible sphalerite (?) seen	at at 294'	P	· · · · · · · · · · · · · · · · · · ·		+								
		294' more ch	ert at bese.					·· ····· ····										
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A.C.P	- MINING DIVIS	ION - D.D.H. RECORD	PROPER	ke		HOLE NO	ACLE NO. DLO-74-26-1 Poge 2/2					
F00	DTAGE	DESCRIPTION		SAMPLE	1	FOOTAGE				ASSAYS		
From	To	Deservicion	Mineralization	NO.	From	To	Length					Au
301	442	Hornblende - Biotite - Feld Schist; light to very dark green; weakly	minor py	-	4		l				ļ!	ļ
<u></u>		banded at 60° to core, schistosity at 70-75°; generally fine gr. but in med gr; min. variable approx 60% hbld - 30% feld - 10% bio & chl; some	at 334 & 374				ł					
		places (325.5 - 329 & 414 - 427) contain 25% 2-5mm; elongate								· · · · · · · · · · · · · · · · · · ·		
		amphibole phenocrysts (or porphyroblast?) and may poss. represent a				+	+		<u> </u>			
		as 0.5 - 1 cm pods; possibly tr. cpy in CaCo, at 334' & 374.										
442	457	Biotite - Hornblende (Feld) Schist; similar to above but mainly (50-70%)			<b> </b>		+				ļ!	<b></b>
		biotite rather than hold; well banded (bio rich = bold rich sections) at				+			<u>}</u>		<u>├</u> <sup> </sup>	
							+					<u> </u>
457	547	Hornblende - Bio Feld Schist; similar to at 331; schistosity 75° to core;					1					
		porphoritic as above at 477-485 & 520-547; 60 - 70% Hbld, 30% white			<u> </u>						<sup> </sup>	<b></b>
		Feld 10% bio, up to 25% garnets in places.				+		· · · ·		· · · ·	<u> </u>	<u> </u>
547	566	Hernblende - Bio - Feld Schist; similar to above but finer gr. and more	-			· + · · · · ·						
	· · · · · · · · · · · · · · · · · · ·	massive; and narrow siliceous on cherty band at 80° to core; fewsmall										
		garnets	·									
	7.37					+					ļ	+
500	021	Hornblende Bio - Feid Schist; as at 442 but higher feld and bio contents			<u> </u>		<u> </u>				j/	<b> </b>
627	646	Metasediments: light grevish green: well banded at 75° to core: fine gr: li	kelv 3 - 4% diss py	198	637	639	2					Nil
		mudstone and siltstones; a siliceous unit similar to at 38 at 630 grading-										
		into graphite at 645': 3 - 4% diss py.			<b> </b>	+						
646		End of Hole			+	<u> </u>	·					
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MOCLANA	DA PETROLE	JM COMPANY LTD	MINING DIVISION - DIAN	IOND DRILL HOLE RE	ECORD								Page	e 1
PPOFERTY DETOUR LAKES			LATITUDE 205	STARTED Dece	STARTED December 2, 1974			a i	IP TEST	[ Corrected		Footage	Correi	
LE NO.	DLO-74-26	-2	DEPARTURE 0100		FINISHED Dec	ember 4, 1974	0	45						
ARING	3100		ELEVATION		LENGTH 5	57 1	2000	520		•		1		
	0	• • • • •		· · · · ·		- 1	200	0						
PACIELAR	=45	I	ISECTION		LUGGED BT R.	Johnson	550	55	FOOTAGE		ــــــــــــــــــــــــــــــــــــــ	I .		
Frem	AGE To '	1	DESCI	RIPTION		70 Mineralization	NO.	From	To	Length	Au	Cu	Zn	Ni
0	36	casing: 0 -	35.5 overburden	••••••			1		1	1	1	1	1	
		····		· · · · · · · · · · · · · · · · · · ·		3-5% py and limonite		1	1		†	-	+	
35.5	221.6	Quartzo feld	spathic Biotite schist; fine	ermed. gr.: sucr	rosic: schistosity	over 3" at 113.7	R.J. 707	112	115	3	Nil	0.00	3 0.008	
		poor - good at	t 67-70° to core axis; alte	rnating lite grey (f	eld. rich) and	over 6" at 118.8	R.J. 708	118	120	2	Nil	0.00	4 0.010	
		dark grey bro	wn (bio rich) bands at 65-	70 <sup>0</sup> to core; contac	ts gradational				1	1	l		:	
		to sharply gra	dational; band width varia	ble from 0.25" - 2	?'; lite bands						1			
		85-98% white	feld, 2-15% bio. and mino	r pink garnet, dark	<u>k bands some min</u>									
		but 30-60% bic	o; minor to 7% 2-3 mm. r	ounded feld "eyes"	here and there;					ļ	•.		_	
		greyer, finer	gr. and more regular and	finer banding at 13	30-180, banding			_		l	L			
		at 60-65°; ver	ry fine, grey and black bio	o. rich and highly s	schistose at			4	ļ	<b> </b>			_	
		215 - 220; this	is likely an intermediate	tuff with minor mu	idstones and				ļ					
		slates near the	e base; 3-5% fine diss. py	over 3" at 113.7 a	nd over 6" at		·	-		ļ	ļ			
	 	118.8 with lime	onite along fractures at 25	to core in both p	laces.	· · · · · · · · · · · · · · · · · · ·			<u> </u>				+	
		······································							<b>.</b>					
221.6	233	Graphitic slat	te and minor mudstone; bl	ack to green-grey;	bedding at 50	5-6% S			ļ	· ·	ļ		<u> </u>	
		to core axis a	and schistosity good at 45	-50": 5-6% sulphic	de (50% py, 50% p	o) (50% py; 50% po)							++	
		as veinlets //	to schistosity and minor	diss. gr.										
233	249	Hold - Chlori	ito - Fold Schist, lite smaa	nt anhintanitan - tant	1			·	<u> </u>		<u> </u>	+		
233	247	rioid = Cintori	re = ren 3cmst, me gree	n; schistosity poor	ly developed;		D T 700	+	0.47		NI-1	0.01	1	0 007
		slates' minor	r py as irreg pods and ly	vainlet: narrow atr	woin at 500 to	· · · · · · · · · · · · · · · · · · ·	R.J. 109	245	241	6	INIL .	0.01	<u>+</u>	0.007
	-	core at 246';	; likely mafic tuff.	vermet, narrow qtz.	• vein at 50° to									
249	272 7	Graphitic Sla	te Mudstone minor Uhle	- Chl - Schiet al	ate as at 221 6	5 6 7 6					 			
i		mudstone sir	nilar but grev: schistosity	strong at $80-85^{\circ}$	bedding at 800	(50% pv: 50% po)	1	1	1	1		1	1	
		to core; sulp	hides as at 221.6.								· · · · · · · · · · · · · · · · · · ·			
272.7	280	Hbld - Ch	Feld. Schist: as at 233: h	anding poor at 75-	80 <sup>0</sup> : mod-								+	
		schistosity a	t 75-80 <sup>°</sup> .											
280	283	Graphite and	Graphitic Slate: schistosi	ty near 90° to core	; minor inter-	av. 10% S								
		bedded Hbld mainly py an	- Chl Feld. Schist: 7-	30% (av. 10% sulphi	ides;	(50% py: 50% po)								
		p, u.		······································									++	
			······		· · · · · · · · · · · · · · · · · · ·	·							+	
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A.C.	- MINING DIVIS	ION - D.D.H. RECORD	PROPERTY	Detour L	akes	es HOLE NO. DLO-26-12 Poge 2/ 2						
FOO	DTAGE	DESCRIPTION	50	SAMPLE	F	OOTAGE			ASSAYS			
From	To		Mineralization	NO.	From	To	Length	Au	Cu	Zn	Ni	Lead
		and an 8" massive vuggy py section at 282'	30% Py at 281	710	280	283	3	Nil	0.015	0.016	0.014	0.019
283	287.4	Quartzo feldspathic Biotite Schist; grades into above with decrease in	minor py					<u> </u>				
		C and increase in silicates; similar to that at 35.5 but more siliceous;										Addition of the state of the st
		crude banding at 90° to core; schistosity at 90°; minor diss py										
207 4	206.2	A hik-liter deals grand and an i need antictority of 700 to core aviat	10% po	711	200	300	- 10	NGI	0 005		0 00	
201.4	500.5	minor cilicoous bords: rare calcite voirs and minor garnets in places to		·		500		1411	0.005		0.00	,
	•	10%; 10% po as large, fine gr. massive, irreg, pods and rarer diss gr.										······
306.3	316.3	Hold, Chl-Feld Schist and Siliceous Metasediment; grey to green-black;	3-10% (60% po, 40%py)	712	307	310	2	Nil	0,020		0.006	
	1	banded at 80°; minor graphitic slate interbeds; 3-5% sulphides up to	average 5%				1				0.000	
		10% in graphitic bands. 60% po, 40% py as diss gr. and irreg pods.										
510.5	445.2	Hold Chi - Bro - Feld Schist; mainly dark green with minor, narrow	rare py	·			ł					
	-	white bands; schistosity at 80°, banding $80 - 90^{\circ}$ to core axis, line - med fine gr average 75% fine hold + chl. 20% med- fine feld and 5% bio.										
		minor orange-red sucrosic garnets, white bands have higher feld & lower					-	· · ·				
		mafic content; some sections contain 10-50%, 3-4mm, sl elongate //										
		schistosity, amphibole phenocrysts with ground mass same as mafic										
		Dands; this is likely a matic tull with some lapilli tull; very rare diss.										
								t				· · · · · · · · · · · · · · · · · · ·
445.2	447.2	Granite Dike; pink; upper contact at 60° lower 50° to core axis (x-cut										
		schistosity); med. gr; 60% k-feld 37% qtz; 3% bio.	·····	·								
447.2	490.8	Hold. Chl-Bio-Feld Schist; same as at 316.3 schistosity at 80°, bedding					·					
		at 80° to core; band width variable but feld rich are generally quite										
		narrow; likely Dacitic Tuff.										
503	567	Hold-Chl-Bio-(Feld) Schist: similar to at 316.3' but only rare feld bands	rare py					<u> </u>	<u>}</u>			
		and more porphyritic (lapilli ?); bio rich at 503-508'; schistosity at						1				
		80°, banding 85° to core asix: 2 blebs of py at 548						1				
		END OF HOLE					ļ	l				·
507	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		+						····	
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