

DAILY DRILLING REPORT REPORT No.

LEGAL LAND DESCRIPTION										WIRE LINE RECORD			REEL No.
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED	
											1 7/8	8	
											METRES CUT OFF	PRESENT LENGTH	
		340	315	STC	101	K55	5	63.75	6.11	615			
	244	224	LTC	60	L-80	62	750.13	6.11	754	MEGAJOULES SINCE LAST CUT			
										CUMULATIVE MEGAJOULES			

[illegible]

No.

DAILY DRILLING REPORT REPORT No.

LEASE PCI CANTERA TWEED LAKE		WELL No. A67	WELL NUMBER		DATE 85 12 22				
OPERATOR PETRO CANADA INC.			CONTRACTOR A+CO / EQUIPMENT						
SIGNATURE OF OPERATOR'S REPRESENTATIVE			SIGNATURE OF CONTRACTOR'S TOOL PUSHER						
D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	160	XH	1	1	EMSCO	D-500	406
					2	2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	WIRE LINE RECORD REEL No.	SIZE	No. LINES	METRES SLIPPED	
340	315	STK 101	K55	5	6375	6.11	615		1	1/2	8		
244	224	LT+60	L80	62	75013	6.11	754						
LAST CASING TUBING OR LINER										METRES CUT OFF			PRESENT LENGTH
										MEGAJOULES SINCE LAST CUT			
										CUMULATIVE MEGAJOULES			

TIME DISTRIBUTION - HOURS					No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.			BIT	m	BIT No.		TIME	
1. RIG UP AND TEAR DOWN							STB RMR	OD	m	MFG.	DENSITY kg/m ³	
2. DRILL ACTUAL							D.C. ID	OD	m	TYPE	PRESSURE GRADIENT	
3. REAMING							STB RMR	OD	m	JETS mm	VISCOSITY	
4. CORING							D.C. ID	OD	m	SER. No.	PV mPa.s YP Pa	
5. CONDITION MUD & CIRCULATE	9 3/4 3/4						STB RMR	OD	m	DEPTH OUT	GEL STR. Pa	
6. TRIPS									m	DEPTH IN	WATER LOSS cm ³	
7. LUBRICATE RIG	1/4								m	TOTAL METRES DRILLED	pH	
8. REPAIR RIG									m	TOTAL HRS. RUN	SOLIDS %	
9. CUT OFF DRILLING LINE							STANDS DP	m	COND. 1/8" T/B/ GAGE		MUD & CHEMICALS ADDED	
10. DEVIATION SURVEY							SINGLES DP	m	FLOW RATE m ³ /min		TYPE AMT. kg	
11. WIRE LINE LOGS							KELLY DOWN	m	PRESSURE DROP kPa		TYPE AMT. kg	
12. RUN CASING & CEMENT	3 3/4						TOTAL	m				
13. WAIT ON CEMENT							(FORCE) WT. OF STRING	daN				
14. NIPPLE UP B.O.P.												
15. TEST B.O.P.												
16. DRILL STEM TEST												
17. PLUG BACK												
18. SQUEEZE CEMENT												
19. FISHING												
20. DIR. WORK												
21. TEAR OUT BOP	9											
22. CLEAN MUD TANK	4											
23. COMPLETION												
A. PERF'T'N												
B. TBG TRIPS												
C. TREATING												
D. SWABBING												
E. TESTING												
F. ADDIT'N'L												
G.												
TOTALS	12 4											
DAY WORK SUMMARY (OFFICE USE ONLY)												
HRS. W/CONTR. D.P.												
HRS. W/OPR. D.P.												
HRS. WO/D.P.												
HRS. STANDBY												
TOTAL DAY WORK												
No. OF DAYS FROM SPUD												
CUMULATIVE ROTATING HRS.												
TOTAL MUD COST												

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No. LINER SIZE STROKES per min		PUMP No. LINER SIZE STROKES per min		METHOD RUN			
FROM	TO	DR. D RM-R CORE. C	CORE No.	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
DEVIATION RECORD																	
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS										BOILER HOURS	
FROM	TO																
20:00	03:00	3		12		Run casing - 178mm - H3										2x12	
03:00	03:15	1/4		7		Rig service - 178mm - H3											
03:15	08:00	4 3/4		5		Circulate casing - 178mm - H3											
LAWDED @ 1347m - F.C. @ 1332.27 m -																	
PDEFLISHED W/ 1.1m 3H26-CMTD. 4/18-4T 416 + .50065 + 2.37																	
416 + 2.70 CACK ² - DISP. W/ 4/18-4T 416 + 2.4-3m3 TAKE MUD																	
DD=85-12-22-1033																	
DRILLER P. J. O'NEILL																	

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No. LINER SIZE STROKES per min		PUMP No. LINER SIZE STROKES per min		METHOD RUN			
FROM	TO	DR. D RM-R CORE. C	CORE No.	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
DEVIATION RECORD																	
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS										BOILER HOURS	
FROM	TO																
08:00	08:45	3/4		5		Circ 059										2x12	
08:45	11:00	2 1/4		12		Rig up + cement 059											
11:00	20:00	9		21		SET SHIPS + TEAR OUT BOP											
DRILLER Rick Bayne																	

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No. LINER SIZE STROKES per min		PUMP No. LINER SIZE STROKES per min		METHOD RUN			
FROM	TO	DR. D RM-R CORE. C	CORE No.	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
DEVIATION RECORD																	
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS										BOILER HOURS	
FROM	TO																
20:00	24:00	4		22		CLEAN MUD TANK										3x4	
DRILLER P. J. O'NEILL																	

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE <i>BC-1 CARTER TWEED LAKE A-67</i>	WELL No. <i>A-67</i>	WELL NUMBER	DATE <i>05-12-80</i>						
OPERATOR <i>Petroleum Canada Inc.</i>	CONTRACTOR <i>Atco/Fontek</i>								
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Brian Luckock</i>							
D.P. SIZE <i>114</i>	kg/m <i>24.7</i>	GRADE <i>E</i>	TOOL JT O. D. <i>160</i>	TYPE THREAD <i>XH</i>	STRING No. <i>1</i>	PUMP No. <i>1</i>	PUMP MANUFACTURER <i>EMSCO</i>	TYPE <i>D-500</i>	STROKE LENGTH <i>406</i>

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER <i>315</i>	MAKE <i>STC</i>	kg/m <i>101</i>	GRADE <i>K55</i>	No. JOINTS <i>5</i>	TOTAL LENGTH <i>63.75</i>	RKB. TO CSG. HD. <i>6.11</i>	SET AT <i>615</i>
	<i>244</i>	<i>224</i>	<i>1+6</i>	<i>60</i>	<i>L-80</i>	<i>62</i>	<i>750.13</i>	<i>6.11</i>	<i>754</i>

WIRE LINE RECORD REEL No. *1*

SIZE <i>1 1/4</i>	No. LINES <i>8</i>	METRES SLIPPED
METRES CUT OFF		PRESENT LENGTH
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

TIME DISTRIBUTION - HOURS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	1 BIT	2 BIT No.	TIME	DENSITY kg/m ³	PRESSURE GRADIENT	VISCOSITY
1. RIG UP AND TEAR DOWN					1 BIT SUB	.88	SIZE	1280		
2. DRILL ACTUAL					3 D.C. ID 171 OD	28.38	TYPE	55		
3. REAMING					1 STR RMR 7455 OD	4.39	JETS mm			
4. CORING					2 D.C. ID 171 OD	18.52	SER. No.			
5. CONDITION MUD & CIRCULATE	<i>1 1/2</i>	<i>3</i>			1 STR RMR	.68	DEPTH OUT	10.8		
6. TRIPS	<i>3</i>	<i>2 1/4</i>					DEPTH IN	10.5		
7. LUBRICATE RIG	<i>1/4</i>	<i>1/4</i>	<i>1/4</i>				TOTAL METRES DRILLED			
8. REPAIR RIG							TOTAL HRS. RUN			
9. CUT OFF DRILLING LINE							COND. 1/8" T/B/ GAGE			
10. DEVIATION SURVEY					45 STANDS DP	1289.58	FLOW RATE m ³ /min			
11. WIRE LINE LOGS	<i>3 1/4</i>				SINGLES DP		PRESSURE DROP kPa			
12. RUN CASING & CEMENT					KELLY DOWN	4.37				
13. WAIT ON CEMENT					TOTAL	1347				
14. NIPPLE UP B.O.P.					(FORCE) WT. OF STRING	49,000	daN			
15. TEST B.O.P.										
16. DRILL STEM TEST					1 BIT	.20	TIME	11:00		
17. PLUG BACK					1 BIT SUB	.88	SIZE	1300		
18. SQUEEZE CEMENT					3 D.C. ID 171 OD	27.38	TYPE	39		
19. FISHING					1 STR RMR 7455 OD	4.39	JETS mm			
20. DIR. WORK					14 D.C. ID 171 OD	131.66	SER. No.			
21. LAY DOWN PIPE	<i>5 1/2</i>				1 STR RMR	.68	DEPTH OUT	11.5		
22.							DEPTH IN	11.5		
23.							TOTAL METRES DRILLED			
A. PERF'R'TN							TOTAL HRS. RUN			
B. TBG TRIPS							COND. 1/8" T/B/ GAGE			
C. TREATING					41 STANDS DP	1174.19	FLOW RATE m ³ /min			
D. SWABBING					SINGLES DP		PRESSURE DROP kPa			
E. TESTING					KELLY DOWN	6.63				
F. ADDIT'N'L					TOTAL	1347.00				
G.					(FORCE) WT. OF STRING	63,000	daN			
TOTALS	<i>8</i>	<i>12</i>	<i>4</i>							
DAY WORK SUMMARY (OFFICE USE ONLY)										
HRS. W/CONTR. D.P.										
HRS. W/OPR. D.P.										
HRS. WO/D.P.										
HRS. STANDBY										
TOTAL DAY WORK										
No. OF DAYS FROM SPUD										
CUMULATIVE ROTATING HRS										
TOTAL MUD COST										

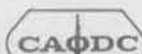
MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		DR. D RM-R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN
FROM	TO												
DEVIATION RECORD													
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
FROM	TO												
00:00	01:30	<i>1 1/2</i>	<i>5</i>	<i>CIRCULATE</i>									
01:30	07:30	<i>3</i>	<i>6</i>	<i>Pump Pill / Flow Check 10 min / Hoist to Log</i>									
07:30	07:45	<i>1/4</i>	<i>7</i>	<i>RIG SERVICE / PIPE RAMS / CROWN SAMP</i>									
07:45	08:00	<i>3 1/4</i>	<i>11</i>	<i>LOG / SCHLAMBERGER H.D.T.</i>									
DRILLER <i>Pat O'Connell</i>													
METRES DRILLED													
FROM	TO	DR. D RM-R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN
DEVIATION RECORD													
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
FROM	TO												
08:00	10:15	<i>2 1/4</i>	<i>6</i>	<i>RUN IN W/ BIT</i>									
10:15	13:15	<i>3</i>	<i>5</i>	<i>CIRK + CORD HOLE</i>									
13:15	13:30	<i>1/4</i>	<i>7</i>	<i>BLEST + FUNCTION PIPE RAMS</i>									
13:30	19:00	<i>5 1/2</i>	<i>21</i>	<i>LAY DOWN PIPE + COLLARS</i>									
19:00	20:00	<i>1</i>	<i>12</i>	<i>RIG UP TO RUN SSC</i>									
DRILLER <i>Rick Banger</i>													
METRES DRILLED													
FROM	TO	DR. D RM-R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN
DEVIATION RECORD													
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
FROM	TO												
20:00	20:45	<i>3/4</i>	<i>12</i>	<i>Rig up Power Tools</i>									
20:45	21:00	<i>1/4</i>	<i>7</i>	<i>RIG SERVICE</i>									
21:00	21:00		<i>12</i>	<i>RUN CASING</i>									
DRILLER <i>Pat O'Connell</i>													

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OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT REPORT No.

LEASE			WELL No.			WELL NUMBER			DATE		
P.C.I. CANADA THREE LAKE			A-67						85 12 7 Yr. Mo. Day		
OPERATOR						CONTRACTOR					
P.C.I. CANADA INC.						ATCO / EQUITAX					
SIGNATURE OF OPERATOR'S REPRESENTATIVE						SIGNATURE OF CONTRACTOR'S TOOL PUSHER					
											
D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER		TYPE		STROKE LENGTH
1 1/4	24.7	E	160	XH	1	1	EMSCO		D-500		406
						2	EMSCO		D-500		406

LEGAL LAND DESCRIPTION										WIRE LINE RECORD REEL No. 1		
LAST CSING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE 1 1/8	No. LINES 8	METRES SLIPPED 1500
	340	315	ST+C	101	K55	5	63.75	6.11	61.5	METRES CUT OFF	30m	PRESENT LENGTH 741
	24W	224	LT+C	60	L-80	62	750.13	6.11	754	MEGA-JOULES SINCE LAST CUT	Ø	1 528
										CUMULATIVE MEGA-JOULES	66745	167274

[illegible][illegible]

COMPLETION		No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD							
14. NIPPLE UP B.O.P.						BIT		m	BIT No.			TIME			
15. TEST B.O.P.									SIZE			DENSITY kg/m ³			
16. DRILL STEM TEST												PRESSURE GRADIENT			
17. PLUG BACK						STB RMR	OD	m	MFG.			VISCOSITY			
18. SQUEEZE CEMENT						D.C. ID	OD	m	TYPE						
19. FISHING						STB RMR	OD	m	JETS	mm		PV mPa*s	YP Pa	/	/
20. DIR. WORK						D.C. ID	OD	m	SER. No.			GEL STR. Pa	/	/	/
21. <i>Flower Tool</i>						STB RMR	OD	m	DEPTH OUT			WATER LOSS cm ¹			
22. <i>Mo Day Life</i>									DEPTH IN			pH			
23. <i>1</i>									TOTAL METRES DRILLED			SOLIDS %			
A. PERF'R'T'N									TOTAL HRS. RUN			MUD & CHEMICALS ADDED			
B. TBG TRIPS						STANDS DP		m	COND. 1/8"s T/B/ GAGE			TYPE	AMT. kg	TYPE	AMT. kg
C. TREATING						SINGLES DP		m	FLOW RATE m ³ /min						
D. SWABBING						KELLY DOWN		m	PRESSURE DROP kPa						
E. TESTING						TOTAL		m							
F. ADDIT'N'L						(FORCE) WT. OF STRING		daN							

[illegible]

G.				No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD				
TOTALS				1	BIT		20	m	BIT No.				TIME			
DAY WORK SUMMARY (OFFICE USE ONLY)				1	BIT SIZE		38		SIZE				DENSITY kg/m ³			
HRS. W/CONTR. D.P.					STB RMR	OD		m	MFG.				PRESSURE GRADIENT			
HRS. W/OPR. D.P.				3	D.C. ID	171	28.38	m	TYPE				VISCOSITY			
HRS. WO/D.P.				1	STB RMR	JARS	4.39	m	JETS	mm			PV mPa*s	YP Pa	/	/
HRS. STANDBY				2	D.C. ID	11	18.52	m	SER. No.				GEL STR. Pa	/	/	/
				1	STB RMR	%	1.68	m	DEPTH OUT				WATER LOSS cm ³			
									DEPTH IN				pH			
									TOTAL METRES DRILLED				SOLIDS %			
									TOTAL HRS. RUN							
TOTAL DAY WORK				45	STANDS DP			m	COND. 1/8's T/B/ GAGE				MUD & CHEMICALS ADDED			
					SINGLES	DP	1289.89		FLOW RATE m ³ /min				TYPE	AMT. kg	TYPE	AMT. kg
No. OF DAYS FROM SPUD					KELLY DOWN		4.37	m	PRESSURE DROP	kPa						
CUMULATIVE ROTATING HRS.					TOTAL		1347	m								
TOTAL MUD COST					(FORCE) WT. OF STRING		49000	daN								

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE <i>PLT. CONTRA TWEED LAKE</i>		WELL No. <i>A-67</i>	WELL NUMBER	DATE <i>85 12 19</i> Yr. Mo. Day
OPERATOR <i>PATCO CANADA INC.</i>		CONTRACTOR <i>ATCO/EQUATOR</i>		
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>		
D.P. SIZE <i>1 1/4</i>	kg/m <i>24.7</i>	GRADE <i>E</i>	TOOL JT O. D. <i>160</i>	TYPE THREAD <i>XH</i>
STRING No. <i>1</i>		PUMP No. <i>1</i>	PUMP MANUFACTURER <i>Emisco</i>	TYPE <i>D-500</i>
STROKE LENGTH <i>406</i>		STROKE LENGTH <i>406</i>		

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER <i>315</i>	MAKE <i>STIC</i>	kg/m <i>101</i>	GRADE <i>K95</i>	No. JOINTS <i>5</i>	TOTAL LENGTH <i>63.75</i>	RKB. TO CSG. HD. <i>6.11</i>	SET AT <i>615</i>
WIRE LINE RECORD REEL No. <i>8</i>									
SIZE <i>1 1/2</i>									
No. LINES <i>8</i>									
METRES CUT OFF <i>767 771</i>									
PRESENT LENGTH <i>767 771</i>									
MEGAJOULES SINCE LAST CUT <i>12 425</i>									
CUMULATIVE MEGAJOULES <i>66746</i>									

TIME DISTRIBUTION - HOURS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	BIT	BIT No.	SIZE	TIME	DENSITY kg/m ³	
1. RIG UP AND TEAR DOWN										
2. DRILL ACTUAL					STB RMR OD	m	MFG.	PRESSURE GRADIENT		
3. REAMING					D.C. ID OD	m	TYPE	VISCOSITY		
4. CORING					STB RMR OD	m	JETS mm	PV mPa*s YP Pa		
5. CONDITION MUD & CIRCULATE					D.C. ID OD	m	SER. No.	GEL STR. Pa		
6. TRIPS	<i>1 1/2</i>	<i>2</i>	<i>13 1/4</i>		STB RMR OD	m	DEPTH OUT	WATER LOSS cm ³		
7. LUBRICATE RIG	<i>1/4</i>		<i>1/4</i>				DEPTH IN	pH		
8. REPAIR RIG							TOTAL METRES DRILLED	SOLIDS %		
9. CUT OFF DRILLING LINE							TOTAL HRS. RUN			
10. DEVIATION SURVEY					STANDS DP	m	COND. 1/8's T/B/ GAGE	MUD & CHEMICALS ADDED		
11. WIRE LINE LOGS					SINGLES DP	m	FLOW RATE m ³ /min	TYPE AMT. kg		
12. RUN CASING & CEMENT					KELLY DOWN	m	PRESSURE DROP kPa	TYPE AMT. kg		
13. WAIT ON CEMENT					TOTAL	m				
14. NIPPLE UP B.O.P.					(FORCE) WT. OF STRING	daN				
15. TEST B.O.P.	<i>3 1/2</i>	<i>6</i>			No. DRILLING ASSEMBLY (at end of tour)	BIT RECORD	MUD RECORD			
16. DRILL STEM TEST				<i>3</i>	BIT	BIT No.	SIZE	TIME	DENSITY kg/m ³	
17. PLUG BACK					STB RMR OD	m	MFG.	PRESSURE GRADIENT		
18. SQUEEZE CEMENT					D.C. ID OD	m	TYPE	VISCOSITY		
19. FISHING					STB RMR OD	m	JETS mm	PV mPa*s YP Pa		
20. DIR. WORK					D.C. ID OD	m	SER. No.	GEL STR. Pa		
21. <i>W.I.D. DAYLITE</i>				<i>3</i>	STB RMR OD	m	DEPTH OUT	WATER LOSS cm ³		
22. <i>W.I.D. DAYLITE</i>							DEPTH IN	pH		
23. <i>W.I.D. DAYLITE</i>							TOTAL METRES DRILLED	SOLIDS %		
COMPLETION							TOTAL HRS. RUN			
							COND. 1/8's T/B/ GAGE	MUD & CHEMICALS ADDED		
							FLOW RATE m ³ /min	TYPE AMT. kg		
							PRESSURE DROP kPa	TYPE AMT. kg		
TOTALS					No. DRILLING ASSEMBLY (at end of tour)	BIT RECORD	MUD RECORD			
DAY WORK SUMMARY (OFFICE USE ONLY)					BIT	BIT No.	SIZE	TIME	DENSITY kg/m ³	
HRS. W/CONTR. D.P.					STB RMR OD	m	MFG.	PRESSURE GRADIENT		
HRS. W/OPR. D.P.					D.C. ID OD	m	TYPE	VISCOSITY		
HRS. WQ/D.P.					STB RMR OD	m	JETS mm	PV mPa*s YP Pa		
HRS. STANDBY					D.C. ID OD	m	SER. No.	GEL STR. Pa		
					STB RMR OD	m	DEPTH OUT	WATER LOSS cm ³		
							DEPTH IN	pH		
							TOTAL METRES DRILLED	SOLIDS %		
							TOTAL HRS. RUN			
					STANDS DP	m	COND. 1/8's T/B/ GAGE	MUD & CHEMICALS ADDED		
					SINGLES DP	m	FLOW RATE m ³ /min	TYPE AMT. kg		
					KELLY DOWN	m	PRESSURE DROP kPa	TYPE AMT. kg		
					TOTAL	m				
					(FORCE) WT. OF STRING	daN				
No. OF DAYS FROM SPUD					No. DRILLING ASSEMBLY (at end of tour)	BIT RECORD	MUD RECORD			
CUMULATIVE ROTATING HRS.					BIT	BIT No.	SIZE	TIME	DENSITY kg/m ³	
TOTAL MUD COST					STB RMR OD	m	MFG.	PRESSURE GRADIENT		
					D.C. ID OD	m	TYPE	VISCOSITY		
					STB RMR OD	m	JETS mm	PV mPa*s YP Pa		
					D.C. ID OD	m	SER. No.	GEL STR. Pa		
					STB RMR OD	m	DEPTH OUT	WATER LOSS cm ³		
							DEPTH IN	pH		
							TOTAL METRES DRILLED	SOLIDS %		
							TOTAL HRS. RUN			
					STANDS DP	m	COND. 1/8's T/B/ GAGE	MUD & CHEMICALS ADDED		
					SINGLES DP	m	FLOW RATE m ³ /min	TYPE AMT. kg		
					KELLY DOWN	m	PRESSURE DROP kPa	TYPE AMT. kg		
					TOTAL	m				
					(FORCE) WT. OF STRING	daN				

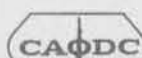
MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		DR. D RM-R CORE..C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN	
FROM	TO													
DEVIATION RECORD														
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS										BOILER HOURS
FROM	TO													
0000	0130	<i>1 1/2</i>		<i>POOH TO TEST</i>										
0130	0445	<i>1 1/4</i>		<i>R26 SERVICE</i>										
0445	0515	<i>3 1/2</i>		<i>PULL OUT WEAR BUSHING & INSTALL TEST LINE PLUG</i>										
<i>4 PRESSURE TESTS @ 1000 PSI - 10,000 LBS. 10.0 MIN</i>														
<i>20,000 LBS. 10.0 MIN</i>														
0515	0800	<i>2 3/4</i>		<i>MAKE UP TEST TOOL</i>										
DRILLER <i>Jack McRae</i>														
METRES DRILLED		DR. D RM-R CORE..C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN	
FROM	TO													
DEVIATION RECORD														
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS										BOILER HOURS
FROM	TO													
0800	1000	<i>1 1/2</i>		<i>RTM W/ DST #2</i>										
1000	1600	<i>1 1/2</i>		<i>TESTING W/ LYNES</i>										
DRILLER <i>Brian Gibson</i>														
METRES DRILLED		DR. D RM-R CORE..C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN	
FROM	TO													
DEVIATION RECORD														
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS										BOILER HOURS
FROM	TO													
1600	1900	<i>3</i>	<i>16</i>	<i>DST #2 W/ LYNES</i>										
1900	2045	<i>1 3/4</i>	<i>6</i>	<i>BREAKDOWN PACKERS + HOIST DST #2</i>										
2045	2100	<i>1 1/4</i>	<i>7</i>	<i>RIG SER + FUNCTION PIPE RAMS</i>										
2100	2400	<i>3</i>	<i>22</i>	<i>W.I.D. DAYLITE</i>										
DRILLER <i>Rick Bayne</i>														

FORM 376m

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE <i>PC.I. CANADA TWEED LAKE</i>		WELL No. <i>A-67</i>	WELL NUMBER	DATE <i>25.12.13</i> Yr. Mo. Day					
OPERATOR <i>PETRO CANADA INC.</i>		CONTRACTOR <i>ATCO/EONTAK</i>							
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>							
D.P. SIZE <i>114</i>	kg/m <i>247</i>	GRADE <i>E</i>	TOOL JT O. D. <i>160</i>	TYPE THREAD <i>XH</i>	STRING No. <i>1</i>	PUMP No. <i>1</i>	PUMP MANUFACTURER <i>EMISCO</i>	TYPE <i>A-500</i>	STROKE LENGTH <i>406</i>
						PUMP No. <i>2</i>	PUMP MANUFACTURER <i>EMISCO</i>	TYPE <i>A-500</i>	STROKE LENGTH <i>406</i>

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER <i>315</i>	MAKE <i>STHC</i>	kg/m <i>101</i>	GRADE <i>K-55</i>	No. JOINTS <i>5</i>	TOTAL LENGTH <i>63.75</i>	RKB TO CSG. HD. <i>6.11</i>	SET AT <i>61.5</i>	SIZE <i>1 1/2</i>	No. LINES <i>8</i>	METRES SLIPPED
	<i>244</i>	<i>224</i>	<i>17K</i>	<i>60</i>	<i>L-80</i>	<i>62</i>	<i>750.13</i>	<i>6.11</i>	<i>754</i>	METRES CUT OFF		PRESENT LENGTH <i>761</i>
										MEGAJOULES SINCE LAST CUT		
										CUMULATIVE MEGAJOULES		

TIME DISTRIBUTION - HOURS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	BIT	m	BIT No.	SIZE	TIME	
1.	RIG UP AND TEAR DOWN									
2.	DRILL ACTUAL				STB RMR OD		m	MFG.	PRESSURE GRADIENT	
3.	REAMING	<i>3</i>			D.C. ID OD		m	TYPE	VISCOSITY	
4.	CORING				STB RMR OD		m	JETS mm	PV mPa*s YP Pa	
5.	CONDITION MUD & CIRCULATE	<i>1/2</i>	<i>3</i>		D.C. ID OD		m	SER. No.	GEL STR. Pa	
6.	TRIPS	<i>3</i>	<i>3 1/4</i>	<i>1</i>	STB RMR OD		m	DEPTH OUT	WATER LOSS cm ³	
7.	LUBRICATE RIG							DEPTH IN	pH	
8.	REPAIR RIG		<i>1/4</i>					TOTAL METRES DRILLED	SOLIDS %	
9.	CUT OFF DRILLING LINE							TOTAL HRS. RUN		
10.	DEVIATION SURVEY				STANDS DP	m		COND. 1/8's T/B/ GAGE	MUD & CHEMICALS ADDED	
11.	WIRE LINE LOGS				SINGLES DP	m		FLOW RATE m ³ /min	TYPE AMT. kg TYPE AMT. kg	
12.	RUN CASING & CEMENT				KELLY DOWN	m		PRESSURE DROP kPa		
13.	WAIT ON CEMENT				TOTAL	m				
14.	NIPPLE UP B.O.P.				(FORCE) WT. OF STRING	daN				
15.	TEST B.O.P.				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD	MUD RECORD		
16.	DRILL STEM TEST	<i>5</i>			1 BIT	<i>20</i>	m	BIT No. <i>12 RR</i>	TIME	
17.	PLUG BACK				1 STB RMR OD	<i>88</i>	m	SIZE <i>2 1/2</i>	DENSITY kg/m ³	
18.	SQUEEZE CEMENT				17 D.C. ID <i>171</i> OD <i>160.04</i>	m	TYPE <i>J-33</i>	MFG. <i>H.W.</i>	PRESSURE GRADIENT	
19.	FISHING				1 STB RMR OD	<i>68</i>	m	JETS mm <i>3 x 9.5</i>	VISCOSITY	
20.	DIR. WORK				D.C. ID OD		m	SER. No. <i>3684</i>	PV mPa*s YP Pa	
21.	HANDLE TOOLS	<i>2</i>			STB RMR OD		m	DEPTH OUT	GEL STR. Pa	
22.	Reverse	<i>2</i>						WATER LOSS cm ³	WATER LOSS cm ³	
23.	WAIT ON DAYLIGHT	<i>3 1/2</i>						DEPTH IN	pH	
	A. PERF'T'N							TOTAL METRES DRILLED	SOLIDS %	
	B. TBG TRIPS							TOTAL HRS. RUN		
	C. TREATING				TOTAL SHA <i>161.80</i>			COND. 1/8's T/B/ GAGE	MUD & CHEMICALS ADDED	
	D. SWABBING				41 STANDS DP <i>1174.18</i>	m		FLOW RATE m ³ /min	TYPE AMT. kg TYPE AMT. kg	
	E. TESTING				SINGLES DP	m		PRESSURE DROP kPa		
	F. ADDIT'N'L				KELLY DOWN <i>11.02</i>	m				
	G.				TOTAL <i>1347</i>	m				
					(FORCE) WT. OF STRING <i>65000</i>	daN				
TOTALS <i>9 12 4</i>					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD	MUD RECORD		
DAY WORK SUMMARY (OFFICE USE ONLY)					1 BIT	<i>20</i>	m	BIT No. <i>12 RR</i>	TIME	
HRS. W/CONTR. D.P.					1 STB RMR OD	<i>88</i>	m	SIZE <i>2 1/2</i>	DENSITY kg/m ³	
HRS. W/OPR. D.P.					17 D.C. ID <i>171</i> OD <i>160.04</i>	m	TYPE <i>J-33</i>	MFG. <i>H.W.</i>	PRESSURE GRADIENT	
HRS. WO/D.P.					1 STB RMR OD	<i>68</i>	m	JETS mm <i>3 x 9.5</i>	VISCOSITY	
HRS. STANDBY					D.C. ID OD		m	SER. No. <i>3684</i>	PV mPa*s YP Pa	
					STB RMR OD		m	DEPTH OUT	GEL STR. Pa	
								WATER LOSS cm ³	WATER LOSS cm ³	
								DEPTH IN	pH	
								TOTAL METRES DRILLED	SOLIDS %	
								TOTAL HRS. RUN		
TOTAL DAY WORK					TOTAL SHA <i>161.80</i>			COND. 1/8's T/B/ GAGE	MUD & CHEMICALS ADDED	
					41 STANDS DP <i>1174.18</i>	m		FLOW RATE m ³ /min	TYPE AMT. kg TYPE AMT. kg	
					SINGLES DP	m		PRESSURE DROP kPa		
					KELLY DOWN <i>11.02</i>	m				
					TOTAL <i>1347.9</i>	m				
					(FORCE) WT. OF STRING <i>65000</i>	daN				
No. OF DAYS FROM SPUD					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD	MUD RECORD		
CUMULATIVE ROTATING HRS.					1 BIT	<i>20</i>	m	BIT No. <i>12 RR</i>	TIME	
TOTAL MUD COST					1 STB RMR OD	<i>88</i>	m	SIZE <i>2 1/2</i>	DENSITY kg/m ³	
					17 D.C. ID <i>171</i> OD <i>160.04</i>	m	TYPE <i>J-33</i>	MFG. <i>H.W.</i>	PRESSURE GRADIENT	
					1 STB RMR OD	<i>68</i>	m	JETS mm <i>3 x 9.5</i>	VISCOSITY	
					D.C. ID OD		m	SER. No. <i>3684</i>	PV mPa*s YP Pa	
					STB RMR OD		m	DEPTH OUT	GEL STR. Pa	
								WATER LOSS cm ³	WATER LOSS cm ³	
								DEPTH IN	pH	
								TOTAL METRES DRILLED	SOLIDS %	
								TOTAL HRS. RUN		
					TOTAL SHA <i>161.80</i>			COND. 1/8's T/B/ GAGE	MUD & CHEMICALS ADDED	
					41 STANDS DP <i>1174.18</i>	m		FLOW RATE m ³ /min	TYPE AMT. kg TYPE AMT. kg	
					SINGLES DP	m		PRESSURE DROP kPa		
					KELLY DOWN <i>11.02</i>	m				
					TOTAL <i>1347.9</i>	m				
					(FORCE) WT. OF STRING <i>65000</i>	daN				

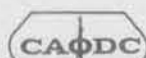
MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		DR. D RM-R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	STROKES per min	PUMP No. 2 LINER SIZE	STROKES per min	METHOD RUN
FROM	TO												
DEVIATION RECORD													
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS							
FROM	TO												
0000	0500	5	16	TESTING - 1 LINES.		3X8							
0500	0800	3	6	Hoist DST #1.									
D.S.T. #1 = 1290m TO 1301m - MT. CHANGE													
INFLATE STRADDLE - P.F. = 5 min. (CLOSED)													
CHAMBER 1 - ISI = 90 min. - V.O. = 270 min. GETS													
IN 1 MIN. - F.S.I. = 540 min. - RECD 60													
m FLUID (1 m CONDENSATE + 59m GAS CUT													
DNR. FLUID													
DRILLER <i>Jack [Signature]</i>													
METRES DRILLED		DR. D RM-R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	STROKES per min	PUMP No. 2 LINER SIZE	STROKES per min	METHOD RUN
FROM	TO												
DEVIATION RECORD													
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS							
FROM	TO												
0800	1130	3 1/2	23	WAIT ON DAYLIGHT		2X12							
1130	1200	1/2	6	Hoist DST #1									
1200	1400	2	22	REVERSE CIRCULATE (ATTEMPT)		1930-2000/CIRCULATE							
1400	1430	1/2	6	Hoist DST #1		5 Con. mud.							
1430	1630	2	21	SERVICE & LAY DOWN TEST TOOL									
1630	1645	1/4	7	RTG SERVICE, FUNCTION BLIND ARMS									
1645	1800	1 1/4	6	RT.H. W/DRILL COLLIS & CIRCULATE									
1800	1930	1 1/2	6	RT.H.		DRILLER <i>Drum [Signature]</i>							
METRES DRILLED		DR. D RM-R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	STROKES per min	PUMP No. 2 LINER SIZE	STROKES per min	METHOD RUN
FROM	TO												
DEVIATION RECORD													
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS							
FROM	TO												
0000	2900	9	5	CIRCULATE - CONDENSATE MUD & MUD		7000 152 152 40 5							
2300	2400	1	6	PUMP PILL POOTH									
DRILLER <i>Jack [Signature]</i>													

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE <i>PCT. FORTUNA TUNICOLAKO</i>		WELL No. <i>B-67</i>	WELL NUMBER	DATE <i>85.12.17</i> Yr. Mo. Day					
OPERATOR <i>Petro Canada Inc.</i>		CONTRACTOR <i>Arco/KONTAK</i>		RIG No. <i>76</i>					
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Dave Louch</i>							
D.P. SIZE <i>114</i>	kg/m <i>24.7</i>	GRADE <i>E</i>	TOOL JT. O. D. <i>160</i>	TYPE THREAD <i>XH</i>	STRING No. <i>1</i>	PUMP No. <i>EmSCO</i>	PUMP MANUFACTURER <i>EmSCO</i>	TYPE <i>D-500</i>	STROKE LENGTH <i>406</i>

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER <i>315</i>	MAKE <i>SILC</i>	kg/m <i>101</i>	GRADE <i>K-55</i>	No. JOINTS <i>5</i>	TOTAL LENGTH <i>6378</i>	RK8. TO CSG. HD. <i>6.11</i>	SET AT <i>61.5</i>	WIRE LINE RECORD REEL No. <i>8</i>	SIZE <i>1 1/2</i>	No. LINES <i>8</i>	METRES SLIPPED
	<i>344</i>	<i>324</i>	<i>LTHC</i>	<i>60</i>	<i>L-80</i>	<i>62</i>	<i>75013</i>	<i>6.11</i>	<i>754</i>	METRES CUT OFF	PRESENT LENGTH <i>761</i>		
										MEGAJOULES SINCE LAST CUT			
										CUMULATIVE MEGAJOULES			

TIME DISTRIBUTION - HOURS					No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD						
CODE No.	OPERATION	MORN.	DAY	EVE.	BIT	SIZE	BIT No.	TIME	DENSITY kg/m ³	PRESSURE GRADIENT	VISCOSITY	PV mPa*s	YP Pa	GEL STR. Pa	WATER LOSS cm ³	pH	SOLIDS %
1.	RIG UP AND TEAR DOWN																
2.	DRILL ACTUAL																
3.	REAMING																
4.	CORING																
5.	CONDITION MUD & CIRCULATE																
6.	TRIPS																
7.	LUBRICATE RIG																
8.	REPAIR RIG																
9.	CUT OFF DRILLING LINE																
10.	DEVIATION SURVEY																
11.	WIRE LINE LOGS																
12.	RUN CASING & CEMENT																
13.	WAIT ON CEMENT																
14.	NIPPLE UP B.O.P.																
15.	TEST B.O.P.																
16.	DRILL STEM TEST																
17.	PLUG BACK																
18.	SQUEEZE CEMENT																
19.	FISHING																
20.	DIR. WORK																
21.	MAKE UP DST																
22.																	
23.																	
COMPLETION		A. PERFR'T'N		B. TBG TRIPS		C. TREATING		D. SWABBING		E. TESTING		F. ADDIT'N'L		G.			
TOTALS		12															
DAY WORK SUMMARY (OFFICE USE ONLY)																	
HRS. W/CONTR. D.P.																	
HRS. W/OPR. D.P.																	
HRS. WO/D.P.																	
HRS. STANDBY																	
TOTAL DAY WORK																	
No. OF DAYS FROM SPUD																	
CUMULATIVE ROTATING HRS.																	
TOTAL MUD COST																	

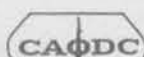
MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		DR. D RM-R CORE. C		CORE No.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN			
FROM	TO																				
1347																					
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION			
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS														BOILER HOURS	
FROM	TO																				
0000	0200	2	5	CIRCULATE CONDITION MUD																	
0200	0430	2 1/2	6	PUMP BULL. & POOH TO TEST																	
0430	0445	1/4	7	RTH SERVICE KONTAK BLIND & PIPE RAMS																	
0445	0800	3 1/4	21	RIG UP & RUN IN TEST TOOL																	
METRES DRILLED		DR. D RM-R CORE. C		CORE No.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN			
FROM	TO																				
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION			
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS														BOILER HOURS	
FROM	TO																				
0800	0915	1 1/4	21	MAKE UP TEST TOOL																	
0915	1215	3	8	RTH W/ DST. #1																	
1215	1230	1/4	7	RTH SERVICE FUNCTION Hydril																	
1230	2000	7 1/2	16	TEST W/ LYNES (1290-1301m) 11m test																	
METRES DRILLED		DR. D RM-R CORE. C		CORE No.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN			
FROM	TO																				
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION			
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS														BOILER HOURS	
FROM	TO																				
2000	2400	4	16	TEST W/ LYNES (1290-1301m) 11m test																	

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OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT REPORT No.

LEGAL LAND DESCRIPTION										WIRE LINE RECORD REEL No.			
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED	
		340	315	STHC	K1	K55	3	63.75	6.11	615	METRES CUT OFF	8	PRESENT LENGTH
		340	315	STHC	K1	K55	3	63.75	6.11	615	—		771
		284	284	STHC	60	L-80	62	750.13	6.11	754	MEGAJOULES SINCE LAST CUT	8205	
											CUMULATIVE MEGAJOULES	62526	

[illegible]

METRES DRILLED		DR. D. RM-R CORE - C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No.		PUMP No.		METHOD RUN SQL S. PART P. COMD C
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
1347												

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
0800	1930	11 1/2	11	Log w/ Schlumberger	3 + 12
				#7 RFT-GR (TEST TOOL) 1196m to 1300m	
				#8 CST-GR (SIDE WALL CORES) 1332 to 1194	
1930	2000	1/2	6	R.T.H. (CLEAN OUT TRIP)	

[illegible]

LEGAL LAND DESCRIPTION									WIRE LINE RECORD			REEL No.	
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED	
											158	8	
											METRES CUT OFF		PRESENT LENGTH
		340	315	STAC	101	K-55	5	6375	6.11	615	—		771
	244	224	LTAC	60	L-80	62	750.13	6.11	754		MEGAJOULES SINCE LAST CUT	6857	
											CUMULATIVE MEGAJOULES	62526	

[illegible]

METRES DRILLED		DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No.		PUMP No.		METHOD RUN SGL. S. PAPEL. P. COMD. C.
FROM	TO			LINER SIZE	STROKES per min				LINER SIZE	STROKES per min			
DEVIATION RECORD		DEPTH		DEV.	DIRECTION	DEPTH		DEV.	DIRECTION	DEPTH		DEV.	DIRECTION
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						BOILER HOURS			
FROM	TO												
0800	2000	12	11	Log w/SHLumberger									
0725	1130	—	7	#3 BHC - SONIC - GR - CALIPER T.D. 725 m.									
1130	1400	—	#4	ML - MLL T.D. → 754 m									
1400	1700	→	#5	HDT - T.D. → 754 m.									
1700	2000	→	#6	BIT (TRIP TOOL) 1302 m. T.D. 1250 m.									
1810													
										DRILLER	Brian Lockhart		

[illegible]

No.

DAILY DRILLING REPORT REPORT No.

LEASE <i>PC I. CANERA TWEED LAKE</i>		WELL No. <i>A-67</i>	WELL NUMBER	DATE <i>55 11 14</i> Yr. Mo. Day					
OPERATOR <i>PETRO CANADA INC</i>		CONTRACTOR <i>ATCO/EGUTAK</i>							
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Michael P. Smith</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Dana Smith A.L. Walker Approved OK</i>							
D.P. SIZE <i>114</i>	kg/m <i>24.7</i>	GRADE <i>E</i>	TOOL JT O. D. <i>160</i>	TYPE THREAD <i>XH</i>	STRING No. <i>1</i>	PUMP No. <i>1</i>	PUMP MANUFACTURER <i>EMSCO</i>	TYPE <i>D-500</i>	STROKE LENGTH <i>406</i>
						<i>2</i>	<i>EMSCO</i>	<i>D-500</i>	<i>406</i>

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER <i>315</i>	MAKE <i>STC</i>	kg/m <i>101</i>	GRADE <i>KSS</i>	No. JOINTS <i>5</i>	TOTAL LENGTH <i>63.75</i>	RKB. TO CSG. HD. <i>6.11</i>	SET AT <i>615</i>	SIZE <i>1 1/2</i>	No. LINES <i>8</i>	METRES SLIPPED
	<i>344</i>	<i>324</i>	<i>LTIC</i>	<i>60</i>	<i>L-80</i>	<i>62</i>	<i>750.13</i>	<i>6.11</i>	<i>754</i>	METRES CUT OFF <i>6857</i>	PRESENT LENGTH <i>711</i>	
										MEGAJOULES SINCE LAST CUT <i>61178</i>		
										CUMULATIVE MEGAJOULES <i>61178</i>		

TIME DISTRIBUTION - HOURS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD						
CODE No.	OPERATION	MORN.	DAY	EVE.	1	BIT	20 m	BIT No.	128	TIME	0800	0400	0600		
1	RIG UP AND TEAR DOWN				1	SHOCK SUB	3.99	SIZE	216	DENSITY kg/m ³	1270	1270	1270		
2	DRILL ACTUAL	5	10		6	D.C. ID 171 OD	56.44	m	TYPE	J-33	VISCOSITY	52	48	49	
3	REAMING	2 3/4			1	STB RMR JARS OD	4.34	m	JETS mm	3x9.5	PV mPa.s	YP Pa	/	/	
4	CORING				11	D.C. ID 171 OD	103.60	m	SER. No.	3684	GEL STR. Pa	/	/	/	
5	CONDITION MUD & CIRCULATE	1	1 1/2		1	STB RMR C/O OD	.68	m	DEPTH OUT		WATER LOSS cm ³	9.8	10.5	11.8	
6	TRIPS	1 1/4	2 3/4						DEPTH IN	1303	pH	10	10	10	
7	LUBRICATE RIG	1 1/4	1 1/4						TOTAL METRES DRILLED	12	SOLIDS %				
8	REPAIR RIG								TOTAL HRS. RUN	5	MUD & CHEMICALS ADDED				
9	CUT OFF DRILLING LINE					TOTAL D.H.A.	169.25		COND. 1/8" T/B/ GAGE		TYPE	AMT. kg	TYPE	AMT. kg	
10	DEVIATION SURVEY					STANDS DP	1117.08	m	FLOW RATE m ³ /min	/	Salt	66			
11	WIRE LINE LOGS					SINGLES DP	19.20	m	PRESSURE DROP kPa	10	10	10			
12	RUN CASING & CEMENT					KELLY DOWN	9.47	m	DESI	1325	1270				
13	WAIT ON CEMENT					TOTAL	13.15	m	DESI	1325	1270				
14	NIPPLE UP B.O.P.					(FORCE) WT. OF STRING	63000	daN	DESI	1325	1270				
15	TEST B.O.P.														
16	DRILL STEM TEST					No. DRILLING ASSEMBLY (at end of tour)									
17	PLUG BACK					1	BIT	20 m	BIT No.	128	TIME	0800	1200	1530	
18	SQUEEZE CEMENT					1	SHOCK SUB	3.99	SIZE	216	DENSITY kg/m ³	1275	1275	1275	
19	FISHING					6	D.C. ID 171 OD	56.44	m	TYPE	J-33	VISCOSITY	50	48	52
20	DIR. WORK					1	STB RMR JARS OD	4.34	m	JETS mm	3x9.5	PV mPa.s	YP Pa	/	/
21						11	D.C. ID 171 OD	103.60	m	SER. No.	3684	GEL STR. Pa	/	/	/
22						1	STB RMR C/O OD	.68	m	DEPTH OUT	1396	WATER LOSS cm ³	13.0	11.6	11.8
23									DEPTH IN	1303	pH	10	10	10.5	
	A. PERF'T'N								TOTAL METRES DRILLED	12	SOLIDS %				
	B. TBG TRIPS								TOTAL HRS. RUN	5	MUD & CHEMICALS ADDED				
	C. TREATING					40	STANDS DP	1145.73	m	COND. 1/8" T/B/ GAGE		TYPE	AMT. kg	TYPE	AMT. kg
	D. SWABBING					2	SINGLES DP	19.19	m	FLOW RATE m ³ /min	/	CEMENT	3 1/2	SALT	60
	E. TESTING								PRESSURE DROP kPa	10	10	10			
	F. ADDIT'L								DESI	1320	1270	1400			
	G.								DESI	1320	1270	1400			
	TOTALS	8	12	4		(FORCE) WT. OF STRING	63000	daN	RWD 2 HRS						
	DAY WORK SUMMARY (OFFICE USE ONLY)					No. DRILLING ASSEMBLY (at end of tour)									
	HRS. W/CONTR. D.P.					1	BIT	20 m	BIT No.	128	TIME	1800	2230		
	HRS. W/OPR. D.P.					1	SHOCK SUB	3.99	SIZE	216	DENSITY kg/m ³	1280	1280		
	HRS. WQ/D.P.					6	D.C. ID 171 OD	56.44	m	TYPE	J-33	VISCOSITY	50	52	
	HRS. STANDBY					1	STB RMR JARS OD	4.34	m	JETS mm	3x9.5	PV mPa.s	YP Pa	/	/
						11	D.C. ID 171 OD	103.60	m	SER. No.	3684	GEL STR. Pa	/	/	/
						1	STB RMR C/O OD	.68	m	DEPTH OUT	1347	WATER LOSS cm ³	11.2	10.4	
									DEPTH IN	1303	pH	10.5	10.5		
									TOTAL METRES DRILLED	44	SOLIDS %				
									TOTAL HRS. RUN	15	MUD & CHEMICALS ADDED				
						40	STANDS DP	1145.73	m	COND. 1/8" T/B/ GAGE		TYPE	AMT. kg	TYPE	AMT. kg
						2	SINGLES DP	19.19	m	FLOW RATE m ³ /min	/	CEMENT	50	SALT	50
									PRESSURE DROP kPa	10	10	10			
									DESI	1320	1270	1400			
									DESI	1320	1270	1400			
						(FORCE) WT. OF STRING	63000	daN							

MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		PUMP No. 1		PUMP No. 2		METHOD RUN			
FROM	TO	DR. D. RM. R. CORE. C.	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. PARCEL. P. COMD. C.
1290	1303			80	15	7000	152	4	152	40	5
1303	1315										
REAM RAT HOLE											
DRILL											
DEVIATION RECORD											
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS 3x8			
FROM	TO										
0000	0130	1 1/2		3		REAM RAT HOLE TO 216mm					
0130	0145	1/4		7		RIG SERVICE FUNCTION HYDRA					
0145	0300	1 1/4		3		REAM RAT HOLE TO 216mm T.O. 1303 METERS					
0300	0800	5		2		DRILL 216mm HOLE FROM 1303 METERS					
DRILLER Jack M. May											
METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		PUMP No. 1		PUMP No. 2		METHOD RUN			
FROM	TO	DR. D. RM. R. CORE. C.	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. PARCEL. P. COMD. C.
1315	1347			80	15	7000	152	4	152	40	5
DEVIATION RECORD											
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS 3x12			
FROM	TO										
0800	0830	1/2		2		DRILL 216mm HOLE					
0830	0845	1/4		7		RIG SERVICE, MOTOR SHUT OFF					
0845	1845	10		2		DRILL 216mm HOLE T.O. @ 1347m					
1845	1945	1		5		CIRCULATE					
1945	2000	1/4		6		Pump P.H. & P.O.O.H. (15 STD. DURING TRIP)					
DRILLER Brian L. Lohr											
METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		PUMP No. 1		PUMP No. 2		METHOD RUN			
FROM	TO	DR. D. RM. R. CORE. C.	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. PARCEL. P. COMD. C.
						7000	152		152	40	5
DEVIATION RECORD											
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS 3x4			
FROM	TO										
2000	2130	1 1/2		6		DUMP DRIP 15 STANDS					
2130	2300	1 1/2		5		CIRCULATE					
2300	2315	1/4		7		RIG SERVICE					
2315	2400	3/4		6		DROP SURVEY PUMP P.H. & HOIST TO LOG (STRAP OUT)					
DRILLER Jack M. May											

FORM 376m

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OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT REPORT No.

LEASE <i>PCT CANTELA TWEED LAKE</i>		WELL No. <i>A-67</i>		WELL NUMBER		DATE <i>05/13/87</i>	
OPERATOR <i>PETRO CANADA INC.</i>				CONTRACTOR <i>ATCO/LOUTAK</i>			
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Michael Kuchuk</i>				SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Dave Louch. Rick WALKER ANDREW O.K.</i>			
D.P. SIZE <i>114</i>		kg/m <i>247</i>		GRADE <i>E</i>		TOOL JT O.D. <i>160</i>	
TYPE THREAD <i>XH</i>		STRING No. <i>1</i>		PUMP No. <i>1</i>		PUMP MANUFACTURER <i>EMSCO</i>	
TYPE <i>D-500</i>		STROKE LENGTH <i>406</i>		PUMP No. <i>2</i>		PUMP MANUFACTURER <i>EMSCO</i>	

LEGAL LAND DESCRIPTION

OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER <i>315</i>	MAKE <i>STC</i>	kg/m <i>101</i>	GRADE <i>K55</i>	No. JOINTS <i>5</i>	TOTAL LENGTH <i>6375</i>	RKB. TO CSG. HD. <i>6.11</i>	SET AT <i>6.15</i>
LAST CASING TUBING OR LINER <i>244 324 LTK 60 L-80 62 750 B 6.11 754</i>								

WIRE LINE RECORD REEL No.

SIZE <i>1 1/8</i>	No. LINES <i>8</i>	METRES SLIPPED
METRES CUT OFF		PRESENT LENGTH <i>771</i>
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

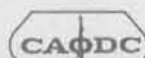
TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	BIT No.	SIZE	TIME	DENSITY kg/m ³	PRESSURE GRADIENT
1.	RIG UP AND TEAR DOWN				1	88	04:00	1275	1275
2.	DRILL ACTUAL				1	4.34			
3.	REAMING				1	160.04			
4.	CORING				1	68			
5.	CONDITION MUD & CIRCULATE				1	68			
6.	TRIPS				1	68			
7.	LUBRICATE RIG				1	68			
8.	REPAIR RIG				1	68			
9.	CUT OFF DRILLING LINE				1	68			
10.	DEVIATION SURVEY				1	68			
11.	WIRE LINE LOGS				1	68			
12.	RUN CASING & CEMENT				1	68			
13.	WAIT ON CEMENT				1	68			
14.	NIPPLE UP B.O.P.				1	68			
15.	TEST B.O.P.				1	68			
16.	DRILL STEM TEST				1	68			
17.	PLUG BACK				1	68			
18.	SQUEEZE CEMENT				1	68			
19.	FISHING				1	68			
20.	DIR. WORK				1	68			
21.	SERVICE BARGE				1	68			
22.					1	68			
23.					1	68			
COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A. PERFORATION				1		12.0		08:00 12:00	
B. TBG TRIPS				1		158.8		1275 1275	
C. TREATING				1		158.8		1275 1275	
D. SWABBING				1		158.8		1275 1275	
E. TESTING				1		158.8		1275 1275	
F. ADDIT'N'L				1		158.8		1275 1275	
G.				1		158.8		1275 1275	
TOTALS				8 12 4					
DAY WORK SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. WO/D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		DR. D. RM. R. CORE. C.		CORE No.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.
1288	1293	5	2																
DEVIATION RECORD																			
TIME LOG																			
FROM TO ELAPSED TIME CODE No. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS BOILER HOURS																			
0000 0030 1/2 6 FINISH POOH																			
0030 0045 1/4 7 RIG SERVICE FUNCTIONAL BLIND RAMS																			
0045 0100 1/4 4 PICKUP SERVICE CORE BARREL																			
0100 0230 1/2 6 RIG CORE #2																			
0230 0330 1 5 LAY DOWN 2 STROKES & CIRCULATE & DROP BALL																			
0330 0800 4 1/2 4 CUT CORE #2																			
DRILLER Jack McQueen																			
METRES DRILLED																			
FROM TO DR. D. RM. R. CORE. C. CORE No. FORMATION (SHOW CORE RECOVERY) ROTARY RPM (FORCE) WT. ON BIT daN PUMP PRESS PUMP No. 1 PUMP No. 2 METHOD RUN																			
1293 1303 C 2 (10) 60 5 2500 152 30 152 5																			
DEVIATION RECORD																			
TIME LOG																			
FROM TO ELAPSED TIME CODE No. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS BOILER HOURS																			
0800 1615 8 1/4 4 CUT CORE #2																			
1615 1630 1/4 7 RIG SERVICE FUNCTIONAL PIPE RAMS																			
1630 1900 2 1/2 6 POOH W/CORE #2																			
1900 2000 1 4 RECOVER CORE #2																			
CUT CORE #2 FROM 1287.6 TO 1302m																			
CUT 14.4m RECOVER 14.4m																			
MT. PLANK FORMATION																			
DRILLER Jack McQueen																			
METRES DRILLED																			
FROM TO DR. D. RM. R. CORE. C. CORE No. FORMATION (SHOW CORE RECOVERY) ROTARY RPM (FORCE) WT. ON BIT daN PUMP PRESS PUMP No. 1 PUMP No. 2 METHOD RUN																			
1288 1290 2 2 800 26 6500 152 40 152 5																			
DEVIATION RECORD																			
TIME LOG																			
FROM TO ELAPSED TIME CODE No. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS BOILER HOURS																			
2000 2045 1/4 21 SERVICE & LAY DOWN CORE BARREL																			
2045 2100 1/4 7 RIG SERVICE FUNCTIONAL PIPE RAMS & BLIND RAMS																			
2100 2330 2 1/2 6 RIG TO REAM PICKUP S.S.																			
2330 2400 1/2 3 REAM RAT HOLE																			
DRILLER Jack McQueen																			

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OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT REPORT No.

LEGAL LAND DESCRIPTION										WIRE LINE RECORD			REEL No. 1
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB, TO CSG. HD.	SET AT	SIZE 1 1/2"	No. LINES 8	METRES SLIPPED	
		340	315	ST+C	101	K55	5	63.75	6.11	61.5	METRES CUT OFF		PRESENT LENGTH 771
		244	224	LHC	60	L80	62	780.17	6.11	754	MEGAJOULES SINCE LAST CUT 0	1	
											CUMULATIVE MEGAJOULES 60074	1	

[illegible]

METRES DRILLED		DR. D. CRM. R. CORE. C		CORE No.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No. LINER SIZE STROKES per min		PUMP No. LINER SIZE STROKES per min		METHOD RUN SGL. S. PAPER L. COMD. C																							
FROM	TO																																								
1276	1288	6				FULL RECOVERY 12m.	60-70	1000	1000	152	40	152							5																						
<table border="1"> <thead> <tr> <th colspan="2">DEVIATION RECORD</th> <th>DEPTH</th> <th>DEV.</th> <th>DIRECTION</th> <th>DEPTH</th> <th>DEV.</th> <th>DIRECTION</th> <th>DEPTH</th> <th>DEV.</th> <th>DIRECTION</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																				DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION											
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION																															
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								BOILER HOURS																													
FROM	TO											3X8																													
0800	1030	2 1/2	6	PULL OUT POOH FOR CHECK (TIMED OFF)																																					
1030	1130	1	7	PULL OUT CORE BARREL RECOVER CORE #1/G SERVICE SAME.																																					
1130	1145	1/4	7	RIG SERVICE FUNCTION BLIND LADS.																																					
1145	1400	2 1/4	6	RTH. HAD BOP DRILL WHILE RUNNING IN																																					
1400	1600	2	3	REAM 158.8mm Pat Hole To 216mm Hole.																																					
CORE #1 FROM 1276m TO 1288m CUT 12m RECOVERY 12m MT PAP FORMATION.																																									
																		DRILLER		JOHN M. DUNN																					

METRES DRILLED		DR - D CM R CORE C		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN.		PUMP PRESS		PUMP No. 1 LINER SIZE STROKES per min		PUMP No. LINER SIZE STROKES per min		METHOD RUN SQL S PARCEL COMFOC			
FROM	TO		CORE No.																
1282	1288	6				65	800	7500	152	40									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						BOILER HOURS							
FROM	TO											3x8							
1600	2030	4 1/2	3	REAM RAT HOLE															
2030	2130	1	5	CIRCULATE & CONDITION HOLE															
2130	2145	1/4	7	RTG SERVICE ✓ CROWN SAVER															
2145	2400	2 1/4	6	P.O.M. (HELD BOP. drill while pulling out)															
		8																	
				Reduced Pump Speed @ 225PM-1500 H															
				DRILLER Brian Lisk															

No.

DAILY DRILLING REPORT

REPORT No.

LEASE <i>PCT SATERA TWEEDE LAKE</i>		WELL No. <i>A-67</i>	WELL NUMBER	DATE <i>85 12 11</i> Yr. Mo. Day
OPERATOR <i>PETRO CANADA INC</i>		CONTRACTOR <i>ATCO FOUTAK</i>		RIG No. <i>76</i>
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Michael Fuchini</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Dave Lumb</i>		
D.P. SIZE <i>114</i>	kg/m <i>24.7</i>	GRADE <i>E</i>	TOOL JT O. D. <i>160</i>	TYPE THREAD <i>XH</i>
STRING No. <i>1</i>	PUMP No. <i>1</i>	PUMP MANUFACTURER <i>EMISCO</i>		TYPE <i>D-500</i>
				STROKE LENGTH <i>406</i>

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1

OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER <i>315</i>	MAKE <i>STC</i>	kg/m <i>101</i>	GRADE <i>K-55</i>	No. JOINTS <i>5</i>	TOTAL LENGTH <i>63.75</i>	RKB. TO CSG. HD. <i>6.11</i>	SET AT <i>61.5</i>
LAST CASING TUBING OR LINER <i>244</i>	<i>224</i>	<i>KTC</i>	<i>60</i>	<i>L-80</i>	<i>62</i>	<i>750.17</i>	<i>6.11</i>	<i>754</i>
METRES CUT OFF <i>783/771</i>								
MEGAJOULES SINCE LAST CUT <i>4735 / 5753 / 0</i>								
CUMULATIVE MEGAJOULES <i>58555 / 60074</i>								

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	BIT No.	SIZE	TIME	DENSITY kg/m ³	PRESSURE GRADIENT
1	RIG UP AND TEAR DOWN				1	171	3:30	1275	1280
2	DRILL ACTUAL	3/4			1	171	1:25	1275	1280
3	REAMING	1/2			2	171	1:25	1275	1280
4	CORING		5/4	4	1	171	1:25	1275	1280
5	CONDITION MUD & CIRCULATE	3	1		3	171	28.06	1275	1280
6	TRIPS	2 3/4	3 1/2		1	171	4:34	1275	1280
7	LUBRICATE RIG	1/4			11	171	103.60	1275	1280
8	REPAIR RIG				1	XO	.68	1275	1280
9	CUT OFF DRILLING LINE		1/4		13	HA	172.64	1275	1280
10	DEVIATION SURVEY				38	STANDS DP		1275	1280
11	WIRE LINE LOGS				1	SINGLES DP	1098.44	1275	1280
12	RUN CASING & CEMENT					KELLY DOWN	2.92	1275	1280
13	WAIT ON CEMENT					TOTAL	1274.00	1275	1280
14	NIPPLE UP B.O.P.					WT. OF STRING	64.000	1275	1280
15	TEST B.O.P.							1275	1280
16	DRILL STEM TEST				2	BIT Core Sub	19.96	1275	1280
17	PLUG BACK				1	BIT Sub	.88	1275	1280
18	SQUEEZE CEMENT				1	STB RMR Taps OD	4.34	1275	1280
19	FISHING				17	D.C. ID 171 OD	160.04	1275	1280
20	DIR. WORK				1	STB RMR 96 OD	.68	1275	1280
21	PICK UP SERVICE CEMENT		1 1/2			D.C. ID OD		1275	1280
22						STB RMR OD		1275	1280
23								1275	1280
COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A. PERFR'TN				2		BIT Core Sub	19.96	1275	1280
B. TBG TRIPS				1		BIT Sub	.88	1275	1280
C. TREATING				1		STB RMR Taps OD	4.34	1275	1280
D. SWABBING				17		D.C. ID 171 OD	160.04	1275	1280
E. TESTING				1		STB RMR 96 OD	.68	1275	1280
F. ADDIT'L						D.C. ID OD		1275	1280
G.						STB RMR OD		1275	1280
TOTALS				8		124			
DAY WORK SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. WD/D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS									
TOTAL MUD COST									

MORNING TOUR

DAY TOUR

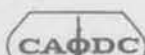
EVENING TOUR

METRES DRILLED		DR. D. RM. B. CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1	PUMP No. 2	METHOD RUN					
FROM	TO							LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min
1274	1276	2		HELD BOP DRILL ON FLOW	750	14/15	7000	152	40	K2					
DEVIATION RECORD															
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS											
FROM	TO														
0000	0045	3/4	2	DRILL											
0045	0145	1	5	CIRC UP BTM HOLE SAMPLE @ 1276m											
0145	0300	1 1/4	6	DUMMIT TRIP 20 STDS.											
0300	0330	1/2	3	CLEAN 4m TO BTM											
0330	0530	2	5	CIRC+ COND HOLE											
0530	0545	1/4	7	BIG 3500 FUSION PIPE RAMS											
0545	0800	2 1/4	6	DROP SURVEY & STRAP OUT TO PICK UP CORE BBS.											
DRILLER <i>Rick Boyer</i>															
METRES DRILLED															
FROM	TO	DR. D. RM. B. CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1	PUMP No. 2	METHOD RUN					
0800	1276	5			60	3/5	8000	152	40	K2					
DEVIATION RECORD															
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS											
FROM	TO														
0800	0900	1	6	FINISH POOH (CLOSE ALIN RAMS) CHECK ANGLES											
0900	1030	1 1/2	23	PICK UP SERVICE CORE BARRELS IN STACK ORV											
1030	1115	3/4	6	RUN IN BHA.											
1115	1130	1/2	9	SKIP 12 METERS											
1130	1315	1 1/4	6	R.I.H.											
1315	1415	1	5	CIRCULATE TO BOTTOM DROP BALL											
1415	2000	5 3/4	4	CUT CORE #1											
DRILLER <i>Jack McLean</i>															
METRES DRILLED															
FROM	TO	DR. D. RM. B. CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1	PUMP No. 2	METHOD RUN					
1281	1283	2			60	4/5	7000	152	40	K2					
DEVIATION RECORD															
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS											
FROM	TO														
2000	2400	4	24	CUT CORE #1											
DRILLER <i>Rick Boyer</i>															

FORM 376m



APPROVAL PENDING

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OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT REPORT No.

LEASE <i>PT CAUTERA TWEED LAKE</i>		WELL No. <i>A-67</i>	WELL NUMBER	DATE <i>85 12 10</i> Yr. Mo. Day
OPERATOR <i>RETRO CANADA INC</i>		CONTRACTOR <i>ATCO EQUITAK</i>		
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Michael P. Smith</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Dave Lynch</i>		
D.P. SIZE <i>114</i>	kg/m <i>24.7</i>	GRADE <i>E</i>	TOOL JT O. D. <i>160</i>	TYPE THREAD <i>XH</i>
STRING No. <i>1</i>	PUMP No. <i>1</i>	PUMP MANUFACTURER <i>EMISCO</i>		TYPE <i>D-500</i>
				STROKE LENGTH <i>406</i>
				<i>2</i>
				<i>EMISCO</i>
				<i>D-500</i>
				<i>406</i>

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. *1*

OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER <i>315</i>	MAKE <i>ST+C 101</i>	kg/m <i>K-55</i>	GRADE <i>5</i>	No. JOINTS <i>63.75</i>	TOTAL LENGTH <i>6.11</i>	RKB. TO CSG. HD. <i>61.5</i>	SET AT <i>754</i>
LAST CASING TUBING OR LINER <i>244 224 LT+C 60 L-90 62 75017 6.11 754</i>								
SIZE <i>1 1/2"</i>								
No. LINES <i>8</i>								
METRES CUT OFF <i>783</i>								
PRESENT LENGTH <i>46591 4735</i>								
MEGAJOULES SINCE LAST CUT <i>584791 58555</i>								
CUMULATIVE MEGAJOULES								

TIME DISTRIBUTION - HOURS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD				
CODE No.	OPERATION	MORN.	DAY	EVE.	BIT	SIZE	BIT No.	TIME	DENSITY	PRESSURE GRADIENT	VISCOSITY	PV mPa.s	YP Pa
1. RIG UP AND TEAR DOWN					<i>1</i>	<i>171</i>	<i>9B</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
2. DRILL ACTUAL	<i>7 1034 33</i>				<i>1</i>	<i>171</i>	<i>216</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
3. REAMING					<i>2</i>	<i>171</i>	<i>11-W</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
4. CORING					<i>1</i>	<i>171</i>	<i>J-22</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
5. CONDITION MUD & CIRCULATE					<i>3</i>	<i>171</i>	<i>3x9.5</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
6. TRIPS					<i>1</i>	<i>171</i>	<i>6014</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
7. LUBRICATE RIG	<i>1/4 1/4 1/4</i>				<i>11</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
8. REPAIR RIG					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
9. CUT OFF DRILLING LINE					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
10. DEVIATION SURVEY	<i>3/4 1</i>				<i>30</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
11. WIRE LINE LOGS					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
12. RUN CASING & CEMENT					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
13. WAIT ON CEMENT					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
14. NIPPLE UP B.O.P.					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
15. TEST B.O.P.					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
16. DRILL STEM TEST					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
17. PLUG BACK					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
18. SQUEEZE CEMENT					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
19. FISHING					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
20. DIR. WORK					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
21.					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
22.					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
23.					<i>1</i>	<i>171</i>	<i>1197</i>	<i>1197</i>	<i>1290</i>	<i>1280</i>	<i>46</i>	<i>46</i>	<i>415</i>
COMPLETION					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD				
A. PERF'RTN					1		9B		09:00 12:00 15:00				
B. TBG TRIPS					1		216		12:00 12:00 12:00				
C. TREATING					1		11-W		12:00 12:00 12:00				
D. SWABBING					1		J-22		12:00 12:00 12:00				
E. TESTING					1		3x9.5		12:00 12:00 12:00				
F. ADDIT'N'L					1		6014		12:00 12:00 12:00				
G.					1		1197		12:00 12:00 12:00				
TOTALS					8 12 4		1197		12:00 12:00 12:00				
DAY WORK SUMMARY (OFFICE USE ONLY)													
HRS. W/CONTR. D.P.													
HRS. W/OPR. D.P.													
HRS. W/D.P.													
HRS. STANDBY													
TOTAL DAY WORK													
No. OF DAYS FROM SPUD													
CUMULATIVE ROTATING HRS.													
TOTAL MUD COST													

MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE. C	CORE No.	DEPTH	DEV.	DEPTH	DEV.	DEPTH	DEV.	DEPTH	DEV.	DEPTH	DEV.
1197	1224	27		1198	274								
TIME LOG													
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
0000	0245	24	2	DRILL									
0245	0330	45	10	SURVEY (CIRC)									
0330	0600	270	2	DRILL									
0600	0615	15	7	RIG SER + FUNCTION HYDRIL									
0615	0800	145	2	DRILL									
BOILER HOURS 3x8													
DRILLER <i>Rich Poyner</i>													

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE. C	CORE No.	DEPTH	DEV.	DEPTH	DEV.	DEPTH	DEV.	DEPTH	DEV.	DEPTH	DEV.
1224	1261	37		1244	30								
TIME LOG													
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
0800	1000	200	2	DRILL 216 mm HOLE									
1000	1015	15	7	RIG SERVICE									
1015	1030	15	10	SURVEY FUNCTION PIPE RAMS OK									
1030	1645	615	2	DRILL 216 mm HOLE									
1645	1730	45	10	SURVEY (CIRC)									
1730	2000	270	2	DRILL 216 mm HOLE									
BOILER HOURS 3x12													
DRILLER <i>Jack M. Gann</i>													

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE. C	CORE No.	DEPTH	DEV.	DEPTH	DEV.	DEPTH	DEV.	DEPTH	DEV.	DEPTH	DEV.
1261	1274	13											
TIME LOG													
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
2000	2315	315	2	DRILL									
2315	2330	15	7	RIG SER + FUNCTION HYDRIL									
2330	2400	30	2	DRILL									
BOILER HOURS 3x4													
DRILLER <i>Rich Poyner</i>													



No.

DAILY DRILLING REPORT REPORT No.

LEASE <i>P.C. I. CANTEIRA TUNCO LAKE</i>		WELL No. <i>A-67</i>		WELL NUMBER		DATE <i>85.12.9</i>	
OPERATOR <i>PETRO CANADA INC.</i>		CONTRACTOR <i>ATCO/EGUITAR</i>		RIG No. <i>76</i>			
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Michael Puckett</i>				SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Donna Lank R.6 Walk Around O.K.</i>			
D.P. SIZE	kg/m	GRADE	TOOL JT. O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER
<i>114</i>	<i>24.7</i>	<i>E</i>	<i>160</i>	<i>xH</i>	<i>1</i>	<i>1</i>	<i>EMSCO</i>
						<i>2</i>	<i>EMSCO</i>
							<i>0-500</i>
							<i>0-50</i>
							<i>406</i>
							<i>406</i>

LEGAL LAND DESCRIPTION										WIRE LINE RECORD REEL No.			
LAST CASING TUBING OR LINER										SIZE			
										<i>1 1/8</i>			
										No. LINES			
										<i>8</i>			
										METRES CUT OFF			
										<i>783</i>			
										PRESENT LENGTH			
										<i>3710 / 4659</i>			
										MEGAJOULES SINCE LAST CUT			
										<i>57530 / 58479</i>			
										CUMULATIVE MEGAJOULES			

TIME DISTRIBUTION - HOURS					No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE	BIT		BIT No.		TIME			
1. RIG UP AND TEAR DOWN					<i>1</i>	<i>55</i>	<i>3.99</i>	<i>216</i>	<i>216</i>	<i>1260</i>	<i>1260</i>	
2. DRILL ACTUAL	<i>54</i>	<i>4</i>	<i>33</i>	<i>4</i>	<i>6</i>	<i>171</i>	<i>56.44</i>	<i>522</i>	<i>45</i>	<i>46</i>	<i>50</i>	
3. REAMING					<i>1</i>	<i>171</i>	<i>4.34</i>	<i>3087</i>				
4. CORING					<i>11</i>	<i>171</i>	<i>103.60</i>	<i>8886</i>				
5. CONDITION MUD & CIRCULATE					<i>1</i>	<i>171</i>	<i>0.68</i>					
6. TRIPS												
7. LUBRICATE RIG	<i>1/4</i>	<i>1/4</i>	<i>1/4</i>									
8. REPAIR RIG	<i>2</i>											
9. CUT OFF DRILLING LINE												
10. DEVIATION SURVEY	<i>1/2</i>	<i>3/4</i>										
11. WIRE LINE LOGS												
12. RUN CASING & CEMENT												
13. WAIT ON CEMENT												
14. NIPPLE UP B.O.P.												
15. TEST B.O.P.												
16. DRILL STEM TEST												
17. PLUG BACK												
18. SQUEEZE CEMENT												
19. FISHING												
20. DIR. WORK												
21. CLEAN TO BOTTOM												
22. MAKE UP BHA												
23.												
COMPLETION												
A. PERF'RTN												
B. TBG TRIPS												
C. TREATING <i>BHA 172.6</i>												
D. SWABBING												
E. TESTING												
F. ADDIT'N'L												
G.												
TOTALS <i>8 12.4</i>												
DAY WORK SUMMARY (OFFICE USE ONLY)												
HRS. W/CONTR. D.P.												
HRS. W/OPR. D.P.												
HRS. WO/D.P.												
HRS. STANDBY												
TOTAL DAY WORK												
No. OF DAYS FROM SPUD												
CUMULATIVE ROTATING HRS.												
TOTAL MUD COST												

METRES DRILLED		DR. D. RM-R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1	PUMP No. 2	METHOD RUN
FROM	TO										
<i>1133</i>	<i>1165</i>	<i>32</i>		<i>DESANDER 8ARS.</i>	<i>780</i>	<i>15</i>	<i>8500</i>	<i>152</i>	<i>90</i>	<i>152</i>	<i>5</i>
				<i>RSPP @ 30 SPM 4000 KPA</i>							
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
		<i>1127</i>	<i>134</i>								
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS			
FROM	TO							<i>3 X 8</i>			
<i>0000</i>	<i>0030</i>	<i>1/2</i>	<i>10</i>	<i>SURVEY</i>							
<i>0030</i>	<i>0400</i>	<i>3 1/2</i>	<i>2</i>	<i>DRILL</i>							
<i>0400</i>	<i>0415</i>	<i>1/4</i>	<i>7</i>	<i>R76 SER.</i>							
<i>0415</i>	<i>0615</i>	<i>2</i>	<i>8</i>	<i>REPAIR WASHED STAND PIPE</i>							
<i>0615</i>	<i>0800</i>	<i>1 3/4</i>	<i>2</i>	<i>DRILL</i>							
DRILLER <i>Rick Borge</i>											
METRES DRILLED		DR. D. RM-R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1	PUMP No. 2	METHOD RUN
FROM	TO										
<i>1165</i>	<i>1171</i>	<i>6</i>		<i>BIT # 86</i>							
<i>1171</i>	<i>1180</i>	<i>9</i>		<i>BIT # 98</i>							
				<i>RSPP @ 30 SPM 4000 KPA</i>							
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
		<i>1156</i>	<i>3°</i>		<i>1165</i>	<i>3°</i>					
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS			
FROM	TO							<i>3 X 12</i>			
<i>0800</i>	<i>0830</i>	<i>1/2</i>	<i>10</i>	<i>SURVEY</i>							
<i>0830</i>	<i>0900</i>	<i>1/2</i>	<i>2</i>	<i>DRILL</i>							
<i>0900</i>	<i>0915</i>	<i>1/4</i>	<i>7</i>	<i>RTH SERVICE FUNCTION HYDRAUL</i>							
<i>0915</i>	<i>0930</i>	<i>1/4</i>	<i>10</i>	<i>SURVEY</i>							
<i>0930</i>	<i>1015</i>	<i>3/4</i>	<i>2</i>	<i>DRILL</i>							
<i>1015</i>	<i>1245</i>	<i>2 1/4</i>	<i>6</i>	<i>POOH-BOP DRILL NIPPLE TRIP AND</i>							
<i>1245</i>	<i>1345</i>	<i>1</i>	<i>22</i>	<i>MAKE UP B.H.A.</i>							
<i>1345</i>	<i>1545</i>	<i>2</i>	<i>4</i>	<i>RUN IN BIT # 98</i>							
DRILLER <i>Jack McGinnis</i>											
METRES DRILLED		DR. D. RM-R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1	PUMP No. 2	METHOD RUN
FROM	TO										
<i>1180</i>	<i>1197</i>	<i>17</i>									
				<i>RSPP @ 30 SPM 9100 KPA</i>							
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS			
FROM	TO							<i>3 X 4</i>			
<i>2000</i>	<i>2145</i>	<i>1 3/4</i>	<i>2</i>	<i>DRILL</i>							
<i>2145</i>	<i>2200</i>	<i>1/4</i>	<i>7</i>	<i>RTH SERVICE FUNCTION PIPE RANTS</i>							
<i>2200</i>	<i>2400</i>	<i>2</i>	<i>2</i>	<i>DRILL</i>							
DRILLER <i>Rick Borge</i>											

FORM 376m

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE <i>PETRO CANADA TWEEDE LAKE</i>		WELL No. <i>A-67</i>		WELL NUMBER		DATE <i>85 12 8</i> Yr. Mo. Day	
OPERATOR <i>PETRO CANADA INC</i>		CONTRACTOR <i>ATCO ENERGY</i>		RIG No. <i>76</i>		viscosity = second po	
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Michael Smith</i>				SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Dave Lamm R. 6 W. H. Adams O.H.</i>			
D.P. SIZE	kg/m	GRADE	TOOL JT. O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER
<i>114</i>	<i>247</i>	<i>E</i>	<i>160</i>	<i>XH</i>	<i>1</i>	<i>1</i>	<i>EMSCO</i>
						<i>2</i>	<i>EMSCO</i>
							TYPE <i>D-500</i>
							STROKE LENGTH <i>406</i>

LEGAL LAND DESCRIPTION										WIRE LINE RECORD REEL No. <i>1</i>			
OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED		
<i>340</i>	<i>315</i>	<i>Stac</i>	<i>101</i>	<i>K-55</i>	<i>5</i>	<i>63.75</i>	<i>611</i>	<i>615</i>	<i>151</i>	<i>8</i>			
<i>244</i>	<i>224</i>	<i>11+5</i>	<i>62</i>	<i>K-80</i>	<i>62</i>	<i>752.17</i>	<i>611</i>	<i>754</i>	METRES CUT OFF	PRESENT LENGTH			
MEGAJOULES SINCE LAST CUT										<i>36221</i>	<i>3710</i>		
CUMULATIVE MEGAJOULES										<i>574421</i>	<i>57530</i>		

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD					
CODE No.	OPERATION	MORN.	DAY	EVE.	BIT	SIZE	TIME	DENSITY kg/m ³	PRESSURE GRADIENT	VISCOSITY	PV mPa.s	YP Pa	
1	RIG UP AND TEAR DOWN				<i>1</i>	<i>5.5</i>	<i>3.99</i>	<i>216</i>	<i>1240</i>	<i>1240</i>	<i>1250</i>		
2	DRILL ACTUAL	<i>7</i>	<i>11/4</i>	<i>3/4</i>	<i>6</i>	<i>171</i>	<i>OD</i>	<i>56.44</i>	<i>4.34</i>	<i>4.34</i>	<i>4.34</i>		
3	REAMING				<i>11</i>	<i>171</i>	<i>OD</i>	<i>103.60</i>	<i>8886</i>	<i>8886</i>	<i>8886</i>		
4	CORING				<i>1</i>	<i>STB</i>	<i>RMR</i>	<i>OD</i>	<i>68</i>	<i>68</i>	<i>68</i>		
5	CONDITION MUD & CIRCULATE												
6	TRIPS												
7	LUBRICATE RIG	<i>1/4</i>	<i>1/4</i>	<i>1/4</i>									
8	REPAIR RIG												
9	CUT OFF DRILLING LINE												
10	DEVIATION SURVEY	<i>3/4</i>	<i>1/2</i>	<i>1/4</i>									
11	WIRE LINE LOGS												
12	RUN CASING & CEMENT												
13	WAIT ON CEMENT												
14	NIPPLE UP B.O.P.												
15	TEST B.O.P.												
16	DRILL STEM TEST												
17	PLUG BACK												
18	SQUEEZE CEMENT												
19	FISHING												
20	DIR. WORK												
21													
22													
23													
COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD					
A. PERF'R'T'N				1		1		1		1		1	
B. TBG TRIPS				1		1		1		1		1	
C. TREATING				1		1		1		1		1	
D. SWABBING				1		1		1		1		1	
E. TESTING				1		1		1		1		1	
F. ADDIT'N'L				1		1		1		1		1	
G.				1		1		1		1		1	
TOTALS				8		12		1		1		1	
DAY WORK SUMMARY (OFFICE USE ONLY)													
HRS. W/CONTR. D.P.													
HRS. W/OPR. D.P.													
HRS. W/D.P.													
HRS. STANDBY													
TOTAL DAY WORK													
No. OF DAYS FROM SPUD													
CUMULATIVE ROTATING HRS.													
TOTAL MUD COST													

METRES DRILLED				FORMATION (SHOW CORE RECOVERY)				PUMP No. 1				PUMP No. 2				METHOD RUN	
FROM	TO	DR. D. RM.R. CORE. C	CORE No.	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. P. P. COMD. C		
<i>970</i>	<i>1057</i>	<i>87</i>		<i>89</i>	<i>90</i>	<i>8000</i>	<i>152</i>		<i>152</i>	<i>40</i>	<i>5</i>						
HELD BOP DRILLING CREW																	
DEVIATION RECORD				DEPTH				DEV.				DIRECTION				BOILER HOURS	
<i>975</i>				<i>2°</i>				<i>1003</i>				<i>2°</i>				<i>1042</i>	
<i>214°</i>																	
TIME LOG				ELAPSED TIME				CODE No.				DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS	
<i>0000</i>				<i>0100</i>				<i>1</i>				<i>2</i>				<i>DRILL</i>	
<i>0100</i>				<i>0115</i>				<i>1/4</i>				<i>10</i>				<i>SURVEY</i>	
<i>0115</i>				<i>0300</i>				<i>1/4</i>				<i>2</i>				<i>DRILL</i>	
<i>0300</i>				<i>0335</i>				<i>1/4</i>				<i>7</i>				<i>RIGSER+BOPV</i>	
<i>0335</i>				<i>0330</i>				<i>1/4</i>				<i>10</i>				<i>SURVEY</i>	
<i>0330</i>				<i>0700</i>				<i>3/4</i>				<i>2</i>				<i>DRILL</i>	
<i>0700</i>				<i>0715</i>				<i>1/4</i>				<i>10</i>				<i>SURVEY</i>	
<i>0715</i>				<i>0800</i>				<i>3/4</i>				<i>2</i>				<i>DRILL</i>	
																<i>DRILLER Rick Boyer</i>	
METRES DRILLED				FORMATION (SHOW CORE RECOVERY)				PUMP No. 1				PUMP No. 2				METHOD RUN	
<i>1057</i>	<i>1110</i>	<i>53</i>		<i>89</i>	<i>10</i>	<i>7000</i>	<i>152</i>		<i>152</i>	<i>37</i>	<i>5</i>						
R.P.S.P. 30.5TKS - 4500 KPA																	
DEVIATION RECORD				DEPTH				DEV.				DIRECTION				BOILER HOURS	
<i>1070</i>				<i>2°</i>				<i>1090</i>				<i>2°</i>				<i>3X12</i>	
TIME LOG				ELAPSED TIME				CODE No.				DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS	
<i>0800</i>				<i>1115</i>				<i>3/4</i>				<i>2</i>				<i>DRILL 216mm HOLE</i>	
<i>1115</i>				<i>1145</i>				<i>1/2</i>				<i>7</i>				<i>RIG SERVICE & SURVEY</i>	
<i>1145</i>				<i>1700</i>				<i>5/4</i>				<i>12</i>				<i>DRILL 216mm HOLE</i>	
<i>1700</i>				<i>1715</i>				<i>1/4</i>				<i>10</i>				<i>SURVEY</i>	
<i>1715</i>				<i>2000</i>				<i>2/4</i>				<i>2</i>				<i>DRILL 216mm HOLE</i>	
																<i>TOTAL SEAWIRE HAND OUT TO RECALIBRATE P.V.T. SYSTEM.</i>	
																<i>DRILLER Jack McQuinn</i>	
METRES DRILLED				FORMATION (SHOW CORE RECOVERY)				PUMP No. 1				PUMP No. 2				METHOD RUN	
<i>1110</i>	<i>1133</i>	<i>23</i>		<i>80</i>	<i>15</i>	<i>1000</i>	<i>152</i>		<i>152</i>	<i>42</i>	<i>5</i>						
RSPPI 30.5TKS - 5000 KPA																	
DEVIATION RECORD				DEPTH				DEV.				DIRECTION				BOILER HOURS	
<i>1118</i>				<i>DRILL</i>												<i>3X4</i>	
TIME LOG				ELAPSED TIME				CODE No.				DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS	
<i>2000</i>				<i>2115</i>				<i>1/4</i>				<i>2</i>				<i>DRILL</i>	
<i>2115</i>				<i>2130</i>				<i>1/4</i>				<i>7</i>				<i>Rig Ser+ Function PIPE RIGS</i>	
<i>2130</i>				<i>2245</i>				<i>1/4</i>				<i>2</i>				<i>DRILL</i>	
<i>2245</i>				<i>2300</i>				<i>1/4</i>				<i>10</i>				<i>SURVEY</i>	
<i>2300</i>				<i>2400</i>				<i>1</i>				<i>2</i>				<i>DRILL</i>	
																<i>DRILLER Rick Boyer</i>	

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE <i>PCT SENTERA TWEED LAKE</i>		WELL No. <i>A-67</i>	WELL NUMBER	DATE <i>85 12 7</i>
OPERATOR <i>PETRO CANADA INC</i>		CONTRACTOR <i>ATCO EQUITAK</i>		
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Michael Lushch</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Dave Lushch</i>		
D.P. SIZE <i>114</i>	kg/m <i>24.7</i>	GRADE <i>E</i>	TOOL JT. O. D. <i>160</i>	TYPE THREAD <i>XH</i>
STRING No. <i>1</i>	PUMP No. <i>1</i>	PUMP MANUFACTURER <i>EMSCO</i>		TYPE <i>D-500</i>
STROKE LENGTH <i>406</i>				

viscosity = second per litre (s/L)

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. *1*

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER <i>315</i>	MAKE <i>STC</i>	kg/m <i>101</i>	GRADE <i>K-55</i>	No. JOINTS <i>5</i>	TOTAL LENGTH <i>63.75</i>	RKB. TO CSG. HD. <i>6.11</i>	SET AT <i>61.5</i>
	<i>244</i>	<i>221</i>	<i>HTC</i>	<i>60</i>	<i>A-80</i>	<i>62</i>	<i>750.17</i>	<i>6.11</i>	<i>754</i>
SIZE <i>1 1/2"</i>									
No. LINES <i>8</i>									
METRES CUT OFF <i>783</i>									
MEGAJOULES SINCE LAST CUT <i>3450</i>									
CUMULATIVE MEGAJOULES <i>57270</i>									

TIME DISTRIBUTION - HOURS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	BIT	SIZE	BIT No.	SIZE	TIME	
1.	RIG UP AND TEAR DOWN				<i>1</i>	<i>55</i>	<i>3.99</i>	<i>216</i>	<i>0200</i>	
2.	DRILL ACTUAL	<i>7 1/2</i>	<i>9</i>	<i>3</i>	<i>6</i>	<i>171</i>	<i>56.44</i>	<i>216</i>	<i>1050</i>	
3.	REAMING				<i>1</i>	<i>171</i>	<i>4.34</i>	<i>216</i>	<i>39</i>	
4.	CORING				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
5.	CONDITION MUD & CIRCULATE	<i>5 1/2</i>	<i>8</i>		<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>39</i>	
6.	TRIPS				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
7.	LUBRICATE RIG	<i>1/4</i>	<i>1/4</i>		<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
8.	REPAIR RIG				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
9.	CUT OFF DRILLING LINE				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
10.	DEVIATION SURVEY	<i>1/2</i>	<i>3/4</i>		<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
11.	WIRE LINE LOGS				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
12.	RUN CASING & CEMENT				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
13.	WAIT ON CEMENT				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
14.	NIPPLE UP B.O.P.				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
15.	TEST B.O.P.				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
16.	DRILL STEM TEST				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
17.	PLUG BACK				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
18.	SQUEEZE CEMENT				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
19.	FISHING				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
20.	DIR. WORK				<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
21.	BOP DRILL	<i>1/4</i>			<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
22.					<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
23.					<i>1</i>	<i>171</i>	<i>103.60</i>	<i>216</i>	<i>47</i>	
COMPLETION					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A. PERFORATION					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
B. TBG TRIPS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
C. TREATING					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
D. SWABBING					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
E. TESTING					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
F. ADDITION					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
G.					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
TOTALS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
DAY WORK SUMMARY (OFFICE USE ONLY)					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
HRS. W/CONTR. D.P.					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
HRS. W/OPR. D.P.					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
HRS. WO/D.P.					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
HRS. STANDBY					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
TOTAL DAY WORK					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
No. OF DAYS FROM SPUD					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CUMULATIVE ROTATING HRS.					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
TOTAL MUD COST					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. P. COMD. C	STROKES per min	SGL. S. P. COMD. C
<i>774</i>	<i>802</i>	<i>28</i>		<i>80</i>	<i>1 1/2</i>	<i>7000</i>	<i>152</i>		<i>152</i>	<i>45</i>	<i>5</i>		
DEVIATION RECORD													
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
<i>0200</i>	<i>0230</i>	<i>2 1/2</i>	<i>2</i>	<i>DRILL</i>				<i>3x8</i>					
<i>0230</i>	<i>0800</i>	<i>5 1/2</i>	<i>5</i>	<i>CIRC + MIX SALT</i>									
Count for Air Drilling Chemicals: Used													
SOAP - 20 Bbls POLYMER 5 Bbls													
DRILLER <i>Rich Borge</i>													
METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
<i>802</i>	<i>817</i>	<i>15</i>		<i>70</i>	<i>1 1/2</i>	<i>8000</i>	<i>152</i>		<i>152</i>	<i>40</i>	<i>5</i>		
DEVIATION RECORD													
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
<i>0800</i>	<i>1000</i>	<i>2</i>	<i>5</i>	<i>CIRC + MIX SALT</i>				<i>3x12</i>					
<i>1000</i>	<i>1215</i>	<i>2 1/4</i>	<i>2</i>	<i>DRILL 2 1/2 mm HOLE</i>				<i>1745</i>		<i>24</i>			
<i>1215</i>	<i>1230</i>	<i>1/4</i>	<i>7</i>	<i>RTH SERVICE MOTOR SHUT OFF</i>									
<i>1230</i>	<i>1245</i>	<i>1/4</i>	<i>10</i>	<i>SURVEY</i>									
<i>1245</i>	<i>1415</i>	<i>1 1/2</i>	<i>2</i>	<i>DRILL 2 1/2 mm HOLE</i>									
<i>1415</i>	<i>1430</i>	<i>1/4</i>	<i>21</i>	<i>BOP DRILL</i>									
<i>1430</i>	<i>1730</i>	<i>3</i>	<i>2</i>	<i>DRILL 3 1/2 mm HOLE</i>									
<i>1730</i>	<i>1745</i>	<i>1/4</i>	<i>10</i>	<i>SURVEY</i>									
DRILLER <i>Jack M. Borge</i>													
METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
<i>917</i>	<i>970</i>	<i>53</i>		<i>80</i>	<i>1 1/2</i>	<i>8000</i>	<i>152</i>		<i>152</i>	<i>40</i>	<i>5</i>		
CUT OFF APPROX. 3500' OF													
DEVIATION RECORD													
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
<i>2000</i>	<i>2030</i>	<i>1/2</i>	<i>10</i>	<i>SURVEY</i>				<i>344</i>					
<i>2030</i>	<i>2245</i>	<i>2 1/4</i>	<i>2</i>	<i>DRILL</i>									
<i>2245</i>	<i>2300</i>	<i>1/4</i>	<i>10</i>	<i>SURVEY</i>									
<i>2300</i>	<i>2315</i>	<i>1/4</i>	<i>7</i>	<i>RIGSER</i>									
<i>2315</i>	<i>2400</i>	<i>3/4</i>	<i>2</i>	<i>DRILL</i>									
DRILLER <i>Rich Borge</i>													

FORM 376m

APPROVAL
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1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE <i>PCI SALTERA TWEED LAKE</i>		WELL No. <i>A-67</i>	WELL NUMBER		DATE <i>85 12 6</i>
OPERATOR <i>PETRO CANADA INC</i>			CONTRACTOR <i>ATCO EQUITAK</i>		
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Michael Kuchak</i>			SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Dave Louch</i>		
D.P. SIZE <i>114</i>	kg/m <i>24.7</i>	GRADE <i>E</i>	TOOL JT O. D. <i>160</i>	TYPE THREAD <i>XH</i>	STRING No. <i>1</i>
PUMP No. <i>1</i>		PUMP MANUFACTURER <i>EMSCO</i>		TYPE <i>D-500</i>	STROKE LENGTH <i>4106</i>
PUMP No. <i>2</i>		PUMP MANUFACTURER <i>EMSCO</i>		TYPE <i>D-500</i>	STROKE LENGTH <i>4106</i>

viscosity = 860

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER <i>315</i>	MAKE <i>STAC</i>	kg/m <i>101</i>	GRADE <i>K-55</i>	No. JOINTS <i>5</i>	TOTAL LENGTH <i>63.75</i>	RKB TO CSG. HD. <i>6.11</i>	SET AT <i>61.5</i>	SIZE <i>1 1/8"</i>	No. LINES <i>8</i>	METRES SLIPPED
METRES CUT OFF <i>783</i>										PRESENT LENGTH <i>783</i>		
MEGAJOULES SINCE LAST CUT <i>29651</i>										<i>3450</i>		
CUMULATIVE MEGAJOULES <i>567851</i>										<i>57270</i>		

TIME DISTRIBUTION - HOURS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	BIT	SIZE	BIT No.	TIME	DENSITY kg/m ³	PRESSURE GRADIENT
1. RIG UP AND TEAR DOWN					<i>1 BIT SUB</i>	<i>.84</i>	<i>7B</i>			
2. DRILL ACTUAL	<i>1 1/4</i>	<i>1 1/4</i>			<i>17 D.C. ID 171 OD</i>	<i>160.04</i>	<i>J-2</i>			
3. REAMING					<i>17 STB RMR OD</i>		<i>3x9.5</i>			
4. CORING					<i>17 D.C. ID</i>		<i>7440</i>			
5. CONDITION MUD & CIRCULATE	<i>5 1/2</i>	<i>2</i>			<i>1 STB RMR OD</i>	<i>.68</i>	DEPTH OUT			
6. TRIPS	<i>3 1/2</i>				<i>1 BHA</i>	<i>161.76</i>	DEPTH IN	<i>298</i>		
7. LUBRICATE RIG	<i>1/4</i>	<i>1/4</i>					TOTAL METRES DRILLED	<i>440</i>		
8. REPAIR RIG							TOTAL HRS. RUN	<i>22</i>		
9. CUT OFF DRILLING LINE					<i>19 STANDS DP</i>		COND. 1/8" T/B/ GAGE	<i>9.5</i>		
10. DEVIATION SURVEY					<i>2 SINGLES DP</i>	<i>563.78</i>	FLOW RATE m ³ /min			
11. WIRE LINE LOGS					<i>1 KELLY DOWN</i>	<i>12.42</i>	PRESSURE DROP kPa			
12. RUN CASING & CEMENT					TOTAL	<i>737.96</i>				
13. WAIT ON CEMENT					(FORCE) WT. OF STRING	<i>52,000</i>	daN			
14. NIPPLE UP B.O.P.										
15. TEST B.O.P.										
16. DRILL STEM TEST										
17. PLUG BACK										
18. SQUEEZE CEMENT										
19. FISHING										
20. DIR. WORK										
21. DRILL OUT	<i>7 1/4</i>	<i>1 1/4</i>								
22. BOP DRILL										
23. TEST										
COMPLETION										
A. PERF. R'T'N										
B. TBG TRIPS										
C. TREATING										
D. SWABBING										
E. TESTING										
F. ADDIT'N'L										
G.										
TOTALS <i>8 12 4</i>										
DAY WORK SUMMARY (OFFICE USE ONLY)										
HRS. W/CONTR. D.P.										
HRS. W/OPR. D.P.										
HRS. WO/D.P.										
HRS. STANDBY										
TOTAL DAY WORK										
No. OF DAYS FROM SPUD										
CUMULATIVE ROTATING HRS.										
TOTAL MUD COST										

No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
BIT	SIZE	BIT No.	TIME	DENSITY kg/m ³	PRESSURE GRADIENT
<i>1 S.S.</i>	<i>3.99</i>	<i>8B</i>	<i>2230</i>	<i>2800</i>	
<i>6 D.C. ID 171 OD</i>	<i>56.44</i>	<i>J-22</i>			
<i>1 STB RMR OD</i>	<i>4.34</i>	<i>3x9.5</i>			
<i>11 D.C. ID 171 OD</i>	<i>103.60</i>	<i>8886</i>			
<i>1 STB RMR OD</i>	<i>.68</i>	DEPTH OUT			
		DEPTH IN	<i>759</i>		
		TOTAL METRES DRILLED	<i>15</i>		
		TOTAL HRS. RUN	<i>1 1/4</i>		
<i>20 STANDS DP</i>	<i>573.02</i>	COND. 1/8" T/B/ GAGE	<i>3 1/2</i>		
<i>1 SINGLES DP</i>	<i>9.61</i>	FLOW RATE m ³ /min			
<i>1 KELLY DOWN</i>	<i>7.12</i>	PRESSURE DROP kPa			
TOTAL	<i>759</i>	BIT 7B	<i>461m</i>	<i>5m</i>	<i>CAOTIC</i>
(FORCE) WT. OF STRING	<i>56,000</i>	daN	<i>23 1/2</i>	<i>1 1/4</i>	<i>SEMI-DRILL</i>

No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
BIT	SIZE	BIT No.	TIME	DENSITY kg/m ³	PRESSURE GRADIENT
<i>1 S.S.</i>	<i>3.99</i>	<i>8B</i>	<i>2230</i>	<i>2800</i>	
<i>6 D.C. ID 171 OD</i>	<i>56.44</i>	<i>J-22</i>			
<i>1 STB RMR OD</i>	<i>4.34</i>	<i>3x9.5</i>			
<i>11 D.C. ID 171 OD</i>	<i>103.60</i>	<i>8886</i>			
<i>1 STB RMR OD</i>	<i>.68</i>	DEPTH OUT			
		DEPTH IN	<i>759</i>		
		TOTAL METRES DRILLED	<i>15</i>		
		TOTAL HRS. RUN	<i>1 1/4</i>		
<i>20 STANDS DP</i>	<i>573.02</i>	COND. 1/8" T/B/ GAGE	<i>3 1/2</i>		
<i>1 SINGLES DP</i>	<i>9.61</i>	FLOW RATE m ³ /min			
<i>1 KELLY DOWN</i>	<i>7.12</i>	PRESSURE DROP kPa			
TOTAL	<i>759</i>	BIT 7B	<i>461m</i>	<i>5m</i>	<i>CAOTIC</i>
(FORCE) WT. OF STRING	<i>56,000</i>	daN	<i>23 1/2</i>	<i>1 1/4</i>	<i>SEMI-DRILL</i>

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		PUMP No. 1		PUMP No. 2		METHOD RUN			
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	SGL. S. PARTS P. COMD. C.
<i>556</i>	<i>738</i>	<i>182</i>		<i>80</i>	<i>9/8</i>	<i>4000</i>	<i>152</i>		<i>152</i>	<i>50</i>	<i>5</i>
CHANGED HEAD IN #1 FLYWHEEL SIDE											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS <i>3x20</i>			
<i>0000</i>	<i>0015</i>	<i>1/4</i>	<i>7</i>	<i>RIG SER+BOPV</i>							
<i>0015</i>	<i>0800</i>	<i>7 3/4</i>	<i>21</i>	<i>DRILL OUT CEMENT</i>							
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	SGL. S. PARTS P. COMD. C.
<i>738</i>	<i>754</i>	<i>21</i>		<i>80</i>	<i>9/8</i>	<i>4000</i>	<i>152</i>		<i>152</i>	<i>50</i>	<i>5</i>
<i>754</i>	<i>759</i>	<i>5</i>									
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS <i>3x12</i>			
<i>0800</i>	<i>0830</i>	<i>1/2</i>	<i>21</i>	<i>DRILL OUT CEMENT</i>							
<i>0830</i>	<i>0915</i>	<i>3/4</i>	<i>21</i>	<i>DRILL OUT FLOAT CEMENT & SILE</i>							
<i>0915</i>	<i>1030</i>	<i>1 1/4</i>	<i>2</i>	<i>DRILL 216mm. HOLE & CIRCULATE SAMPLE</i>							
<i>1030</i>	<i>1100</i>	<i>1/2</i>	<i>23</i>	<i>LEAK OFF TEST</i>							
<i>1100</i>	<i>1230</i>	<i>1 1/2</i>	<i>6</i>	<i>Trip Bit 7B</i>							
<i>1230</i>	<i>1400</i>	<i>3 1/2</i>	<i>5</i>	<i>DUMP & CLEAN MUD TANKS</i>							
<i>1600</i>	<i>1800</i>	<i>2</i>	<i>6</i>	<i>RUN IN HOLE</i>							
<i>1800</i>	<i>2000</i>	<i>2</i>	<i>5</i>	<i>DISPLACE HOLE & ADD 10 VTS</i>							
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	SGL. S. PARTS P. COMD. C.
<i>759</i>	<i>774</i>	<i>15</i>		<i>80</i>	<i>1 1/8</i>	<i>7000</i>	<i>152</i>		<i>152</i>	<i>45</i>	<i>5</i>
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS <i>3x4</i>			
<i>2000</i>	<i>2200</i>	<i>2</i>	<i>5</i>	<i>MIX MUD</i>							
<i>2200</i>	<i>2215</i>	<i>1/4</i>	<i>7</i>	<i>RIG SER+BOPV</i>							
<i>2215</i>	<i>2400</i>	<i>1 3/4</i>	<i>2</i>	<i>DRILL</i>							
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	SGL. S. PARTS P. COMD. C.
<i>774</i>	<i>779</i>	<i>5</i>									
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS <i>3x4</i>			
<i>2000</i>	<i>2200</i>	<i>2</i>	<i>5</i>	<i>MIX MUD</i>							
<i>2200</i>	<i>2215</i>	<i>1/4</i>	<i>7</i>	<i>RIG SER+BOPV</i>							
<i>2215</i>	<i>2400</i>	<i>1 3/4</i>	<i>2</i>	<i>DRILL</i>							
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	SGL. S. PARTS P. COMD. C.
<i>779</i>	<i>784</i>	<i>5</i>									
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS <i>3x4</i>			
<i>2000</i>	<i>2200</i>	<i>2</i>	<i>5</i>	<i>MIX MUD</i>							
<i>2200</i>	<i>2215</i>	<i>1/4</i>	<i>7</i>	<i>RIG SER+BOPV</i>							
<i>2215</i>	<i>2400</i>	<i>1 3/4</i>	<i>2</i>	<i>DRILL</i>							
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	SGL. S. PARTS P. COMD. C.
<i>784</i>	<i>789</i>	<i>5</i>									
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS <i>3x4</i>			
<i>2000</i>	<i>2200</i>	<i>2</i>	<i>5</i>	<i>MIX MUD</i>							
<i>2200</i>	<i>2215</i>	<i>1/4</i>	<i>7</i>	<i>RIG SER+BOPV</i>							
<i>2215</i>	<i>2400</i>	<i>1 3/4</i>	<i>2</i>	<i>DRILL</i>							
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	SGL. S. PARTS P. COMD. C.
<i>789</i>	<i>794</i>	<i>5</i>									
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS <i>3x4</i>			
<i>2000</i>	<i>2200</i>	<i>2</i>	<i>5</i>	<i>MIX MUD</i>							
<i>2200</i>	<i>2215</i>	<i>1/4</i>	<i>7</i>	<i>RIG SER+BOPV</i>							
<i>2215</i>	<i>2400</i>	<i>1 3/4</i>	<i>2</i>	<i>DRILL</i>							
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	SGL. S. PARTS P. COMD. C.
<i>794</i>	<i>799</i>	<i>5</i>									
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS <i>3x4</i>			
<i>2000</i>	<i>2200</i>	<i>2</i>	<i>5</i>	<i>MIX MUD</i>							
<i>2200</i>	<i>2215</i>	<i>1/4</i>	<i>7</i>	<i>RIG SER+BOPV</i>							
<i>2215</i>	<i>2400</i>	<i>1 3/4</i>	<i>2</i>	<i>DRILL</i>							
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	SGL. S. PARTS P. COMD. C.
<i>799</i>	<i>804</i>	<i>5</i>									
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS <i>3x4</i>			
<i>2000</i>	<i>2200</i>	<i>2</i>	<i>5</i>	<i>MIX MUD</i>							
<i>2200</i>	<i>2215</i>	<i>1/4</i>	<i>7</i>	<i>RIG SER+BOPV</i>							
<i>2215</i>	<i>2400</i>	<i>1 3/4</i>	<i>2</i>	<i>DRILL</i>							
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	SGL. S. PARTS P. COMD. C.
<i>804</i>	<i>809</i>	<i>5</i>									
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS <i>3x4</i>			
<i>2000</i>	<i>2200</i>	<i>2</i>	<i>5</i>	<i>MIX MUD</i>							
<i>2200</i>	<i>2215</i>	<i>1/4</i>	<i>7</i>	<i>RIG SER+BOPV</i>							
<i>2215</i>	<i>2400</i>	<i>1 3/4</i>	<i>2</i>	<i>DRILL</i>							
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	SGL. S. PARTS P. COMD. C.
<i>809</i>	<i>814</i>	<i>5</i>									
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS <i>3x4</i>			
<i>2000</i>	<i>2200</i>	<i>2</i>	<i>5</i>	<i>MIX MUD</i>							
<i>2200</i>	<i>2215</i>	<i>1/4</i>	<i>7</i>	<i>RIG SER+BOPV</i>							
<i>2215</i>	<i>2400</i>	<i>1 3/4</i>	<i>2</i>	<i>DRILL</i>							
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	SGL. S. PARTS P. COMD. C.
<i>814</i>	<i>819</i>	<i>5</i>									
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS <i>3x4</i>			
<i>2000</i>	<i>2200</i>	<i>2</i>	<i>5</i>	<i>MIX MUD</i>							
<i>2200</i>	<i>2215</i>	<i>1/4</i>	<i>7</i>	<i>RIG SER+BOPV</i>							
<i>2215</i>	<i>2400</i>	<i>1 3/4</i>	<i>2</i>	<i>DRILL</i>							
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	SGL. S. PARTS P. COMD. C.
<i>819</i>	<i>824</i>	<i>5</i>									
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS <i>3x4</i>			
<i>2000</i>	<i>2200</i>	<i>2</i>	<i>5</i>	<i>MIX MUD</i>							
<i>220</i>											

No.

DAILY DRILLING REPORT REPORT No.

LEASE <i>P.C.I. CANADA TWEED LAKE</i>		WELL No. <i>A-67</i>	WELL NUMBER	DATE <i>85 12 5</i> Yr. Mo. Day
OPERATOR <i>PETRO CANADA</i>		CONTRACTOR <i>ATCO / EQUITAX</i>		
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Michael Lushch</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Brian Lushch</i>		
D.P. SIZE <i>114</i>	kg/m <i>24.7</i>	GRADE <i>E</i>	TOOL JT O. D. <i>160</i>	TYPE THREAD <i>4 1/2 x 11</i>
STRING No. <i>1</i>		PUMP No. <i>1</i>	PUMP MANUFACTURER <i>EMSCO</i>	TYPE <i>D-500</i>
STROKE LENGTH <i>406</i>				

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. *1*

OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER <i>315.6</i>	MAKE <i>STC</i>	kg/m <i>101</i>	GRADE <i>K-55</i>	No. JOINTS <i>5</i>	TOTAL LENGTH <i>63.75</i>	RKB. TO CSG. HD. <i>6.11</i>	SET AT <i>6.15</i>
METRES CUT OFF <i>783</i>								
MEGAJoules SINCE LAST CUT <i>2793</i>								
CUMULATIVE MEGAJoules <i>56613</i>								

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	BIT	BIT No.	SIZE	TIME	DENSITY kg/m ³
1.	RIG UP AND TEAR DOWN				1	BIT SUB	.84		
2.	DRILL ACTUAL				17	D.C. ID 171 OD	160.04		
3.	REAMING				1	STB RMR OD	.68		
4.	CORING								
5.	CONDITION MUD & CIRCULATE								
6.	TRIPS								
7.	LUBRICATE RIG								
8.	REPAIR RIG								
9.	CUT OFF DRILLING LINE								
10.	DEVIATION SURVEY								
11.	WIRE LINE LOGS								
12.	RUN CASING & CEMENT								
13.	WAIT ON CEMENT								
14.	NIPPLE UP B.O.P.								
15.	TEST B.O.P.								
16.	DRILL STEM TEST								
17.	PLUG BACK								
18.	SQUEEZE CEMENT								
19.	FISHING								
20.	DIR. WORK								
21.	DRILL OUT CEMENT								
22.	DRILL OUT CEMENT								
23.	DRILL OUT CEMENT								
COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
				BIT		BIT No.		TIME	
				STB RMR OD		MFG.		PRESSURE GRADIENT	
				D.C. ID 171 OD		TYPE		VISCOSITY	
				STB RMR OD		JETS mm		PV mPa.s YP Pa	
				D.C. ID OD		SER. No.		GEL STR. Pa	
				STB RMR OD		DEPTH OUT		WATER LOSS cm ³	
				TOTAL		TOTAL METRES DRILLED		SOLIDS %	
				TOTAL HRS. RUN		COND. 1/8" T/B/ GAGE		MUD & CHEMICALS ADDED	
				SINGLES DP		FLOW RATE m ³ /min		TYPE AMT. kg	
				KELLY DOWN		PRESSURE DROP kPa		TYPE AMT. kg	
				TOTAL		TOTAL			
				(FORCE) WT. OF STRING					
TOTALS				8 8 8					
DAY WORK SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. WO/D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		DR. D. RM-R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1	PUMP No. 2	METHOD RUN
FROM	TO										
00:00	01:00	1	6	P.O. ON + INSPECTED D.C. + X/O SUBS. BIT SUB							
01:00	02:00	1	6	MAKE UP BIT + RUN IN + TAG CMT. 285.5							
02:00	06:30	4 1/2	6	LAY DOWN DRILL PIPE, RUN IN 750S. DIP + LAY DOWN							
06:30	06:45	1/4	7	RIG SERVICE							
06:45	08:00	1 1/4	21	UNTHAW STAND PIPE + KELLY HOSE							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
08:00	09:00	1	21	THAW OUT STANDPIPE							
09:00	09:15	1/4	7	RIG SERVICE + BOP							
09:15	16:00	6 3/4	22	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x12</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15	2 1/4	2	DRILL OUT CEMENT							
18:15	18:30	1/4	7	RIG SERVICE + CHECK CROWN SAVED							
18:30	19:30	1	2	DRILL OUT CEMENT							
19:30	19:45	1/4	23	BOP DRILL WHILE DRILLING							
19:45	24:00	4 1/4	2	DRILL OUT CEMENT							
DRILLER <i>John Borgen</i>											
BOILER HOURS <i>3x8</i>											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
16:00	18:15										

DAILY DRILLING REPORT REPORT No.

viscosity = second per litre (s/L)										pump pressure = kilopascal (kPa)		
LEGAL LAND DESCRIPTION										WIRE LINE RECORD REEL No. 1		
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE 1 1/2	No. LINES 8	METRES SLIPPED
	340	315.4	510C	101	K55	5	63.75		61.5	METRES CUT OFF		PRESENT LENGTH 783
	244	224.4	510C	60	L-80	62	750.17		754	MEGAJOULES SINCE LAST CUT		2793 /
											CUMULATIVE MEGAJOULES	

METRES DRILLED		DR. D RM-R CORE C	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No.		PUMP No.		METHOD RUN
FROM	TO		LINER SIZE	STROKES per min				LINER SIZE	STROKES per min			
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS		3X8		
FROM	TO											
00:00	07:00	7	14	NIPPLE UP B.O.P								
07:00	08:00	1	15	PRESSURE TEST B.O.P								
SET TEST PUMP & PRESSURE TEST w/ DOWNELL TEST BLIND RAM'S - MANIFOLD -												
H.C.A x BACK LIP VALVE - KILL LINE VALVES & V VALVE 1.5 mpa LOW 5 MIN												
* 21 mPa HIGH 10 MIN TEST HYDRAUL 1.5 mpa LOW 5 MIN 10.5 mpa												
HIGH 10 MIN PIPE & BLIND RAM'S CLOSE & OPEN 3 SEC HYDRAUL 6 BAR												
TEST C.S.G DOWN TO R/V TYP TO 18 mpa 10 MIN OK												
DRILLER a Owen												

METRES DRILLED		DR. D RM-R CORE..C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1		PUMP No. 2		METHOD RUN SOL. S. PAR. P. COMD. C.
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
754- RUN IN TO DRILL OUT CEMENT					60	3/4	2000	152	40	S		
HELD AFTER MEETING W/ ENG. BEFORE PRES. TEST.												
TAG PLUG @ 44. m.												
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS				
FROM	TO							3x12				
0800	1330	5 1/2	15	PRES. TEST Motor Kill's O.K. - Remote								
1330	1500	1 1/2	6	RUN IN w/ BIT FUNCTION TEST OK.								
1500	1515	1/4	7	RIG SPR.								
1515	1815	3	21	DRILL OUT CEMENT + D.U. TOOL PRESSURE TEST PIPE								
1815	1845	1/2	6	RUN IN O.K. + 1STO AIR'S LIPPERE LOWER								
1845	2000	1 1/4	15	PRES. TEST. P KELLY COCK'S & STABILIZER								
				VALVE 15mPa LOW 5MIN 15mPa HIGH 10MIN								
				ALSO TESTED D.U. TOOL AFTER DRILL OUT TO 15mPa 10MIN RISK BROWN								

[illegible]

DAILY DRILLING REPORT REPORT No.

LEGAL LAND DESCRIPTION										WIRE LINE RECORD			REEL No. 1	
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB, TO CSG. HD.	SET AT	SIZE 1 7/8	No. LINES 8	METRES SLIPPED		
	340		STAC	101	K-55	5	64			61.5	METRES CUT OFF		PRESENT LENGTH	
	244				L-80	62				75.4	MEGAJOULES SINCE LAST CUT 2723		783	
											CUMULATIVE MEGAJOULES 56543			

[illegible][illegible][illegible]

DAILY DRILLING REPORT REPORT No.

LEASE <i>Pet. Cantera Tweed Lake A-67</i>		WELL No. <i>A-67</i>		WELL NUMBER		DATE <i>85122</i>	
OPERATOR <i>Petro Canada Inc.</i>		CONTRACTOR <i>Atco/Eoutar</i>		RIG No. <i>76</i>			
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Michael Puchat</i>				SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Brian Lickert</i>			
D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER
<i>114</i>	<i>24.70</i>	<i>E</i>	<i>160</i>	<i>7/8" X H</i>	<i>1</i>	<i>1</i>	<i>EMSLO</i>
						<i>2</i>	<i>EMSLO</i>
							<i>D-500</i>
							<i>406</i>

LEGAL LAND DESCRIPTION										WIRE LINE RECORD REEL No.		
OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED	
<i>340</i>		<i>stol</i>	<i>101</i>	<i>K55</i>	<i>5</i>	<i>64</i>		<i>61.5</i>	<i>1 1/8</i>	<i>8</i>		
LAST CASING TUBING OR LINER										METRES CUT OFF		
										PRESENT LENGTH		
										MEGAJOULES SINCE LAST CUT		
										CUMULATIVE MEGAJOULES		

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	1	2	3	4	5
1	RIG UP AND TEAR DOWN				1	1	1	1	1
2	DRILL ACTUAL				1	1	1	1	1
3	REAMING				1	1	1	1	1
4	CORING				1	1	1	1	1
5	CONDITION MUD & CIRCULATE	<i>1 1/4</i>	<i>1 1/2</i>		1	1	1	1	1
6	TRIPS	<i>1 1/2</i>	<i>2 1/4</i>		1	1	1	1	1
7	LUBRICATE RIG	<i>1 1/4</i>	<i>1 1/4</i>		1	1	1	1	1
8	REPAIR RIG				1	1	1	1	1
9	CUT OFF DRILLING LINE				1	1	1	1	1
10	DEVIATION SURVEY				1	1	1	1	1
11	WIRE LINE LOGS	<i>4</i>			1	1	1	1	1
12	RUN CASING & CEMENT		<i>9</i>	<i>3 1/4</i>	1	1	1	1	1
13	WAIT ON CEMENT		<i>3 1/4</i>		1	1	1	1	1
14	NIPPLE UP B.O.P.				1	1	1	1	1
15	TEST B.O.P.				1	1	1	1	1
16	DRILL STEM TEST				1	1	1	1	1
17	PLUG BACK				1	1	1	1	1
18	SQUEEZE CEMENT				1	1	1	1	1
19	FISHING				1	1	1	1	1
20	DIR. WORK				1	1	1	1	1
21	Unload the 1				1	1	1	1	1
22					1	1	1	1	1
23					1	1	1	1	1
COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A. PERF'RIT'N				1		1		1	
B. TBG TRIPS				1		1		1	
C. TREATING				1		1		1	
D. SWABBING				1		1		1	
E. TESTING				1		1		1	
F. ADDIT'N'L				1		1		1	
G.				1		1		1	
TOTALS				<i>8 12 4</i>					
DAY WORK SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. WO/D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

METRES DRILLED		DR. D. RM-R. CORE..C		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min
754	9.0																
DEVIATION RECORD																	
TIME LOG																	
00:00	03:30	3 1/2	11	RUN SHLUMBERGER - DIP METER SONIC, GR.													
03:30	04:00	1/2	11	RIG OUT SHLUMBERGER													
04:00	05:30	1 1/2	6	RUN IN HOLE LOG#1 D.I.L. - GR. 754m To SWAPAL													
05:30	05:45	1/4	7	RIG SERVICE LOG#2 CUL-LDT-UDT-CAL 754m-Sump													
05:45	06:45	1	21	UNLOAD HOLE LOG#3 B.H.C-Sonic-GR-CAL 754m-97m													
06:45	08:00	1 1/4	5	CIRCU BLOW KELLY LOG#4 DIRECTIONAL 754m-61													
DRILLER <i>at D. D. D.</i>																	
METRES DRILLED																	
FORMATION (SHOW CORE RECOVERY)																	
ROTARY RPM																	
(FORCE) WT. ON BIT daN																	
PUMP PRESS																	
PUMP No.																	
PUMP No.																	
METHOD RUN																	
DEVIATION RECORD																	
TIME LOG																	
08:00	10:15	2 1/4	6	PULL OUT LAY DOWN 9" D.C.													
10:15	10:30	1/4	7	RIG SER													
10:30	11:30	1	12	RIG UP + RUN 244mm CSG.													
11:30	12:00	1/2	5	RIG UP + CIRC CSG													
12:00	20:00	1	12	RIG UP TO CEMENT CSG													
RUN 62 Jt. 750m 17m at 245mm 60kg/m M.U.-80 L.T.C To 754m Sump Dia																	
F.C @ 740m LYVES D.V TOOL XE.L.P TOP JT 58m SET TO SET																	
@ 49.50m																	
DRILLER <i>Rick Boy</i>																	
METRES DRILLED																	
FORMATION (SHOW CORE RECOVERY)																	
ROTARY RPM																	
(FORCE) WT. ON BIT daN																	
PUMP PRESS																	
PUMP No.																	
PUMP No.																	
METHOD RUN																	
DEVIATION RECORD																	
TIME LOG																	
20:00	23:15	3 1/4	4	CEMENT 244mm. CASING													
23:15	24:00	3/4	1	W.O.C. STAGE #1													
Downed Cemented w/ 36 Tonne "G" 27m SLURRY @ 1890 kg/m ³																	
F/W 15.5 Tonne "G" + 2% CaCl ₂ 11.6m ³ SLURRY @ 1890 kg/m ³ F/W																	
1 Wt. RUC F/W 12.24m ³ H ₂ O EST TOP CEMENT IN ANNULUS 430m																	
STAGE #2 SET F.C.A @ 49.50m + OPEN D.V TOOL w/ 4m ³																	
CIRC 3m ³ H ₂ O To Sump CEMENT w/ 3 Tonne "G" + 2% CaCl ₂ 12m ³ H ₂ O																	
RUC + 2m ³ H ₂ O Displacement Pump Run at 13m ³																	
DRILLER <i>at D. D. D.</i>																	



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OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT REPORT No.

LEASE <i>Petrol Canada Inc.</i>		WELL No. <i>A-67</i>	WELL NUMBER	DATE <i>85 12 1</i>					
OPERATOR <i>Petrol Canada Inc.</i>		CONTRACTOR <i>Atco/Eoutax</i>							
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Brian Lickol</i>							
D.P. SIZE <i>114</i>	kg/m <i>24.70</i>	GRADE <i>E</i>	TOOL JT O. D. <i>160</i>	TYPE THREAD <i>4 1/2 x H</i>	STRING No. <i>1</i>	PUMP No. <i>1</i>	PUMP MANUFACTURER <i>Emasco</i>	TYPE <i>D-500</i>	STROKE LENGTH <i>406</i>
						PUMP No. <i>2</i>	PUMP MANUFACTURER <i>Emasco</i>	TYPE <i>D-500</i>	STROKE LENGTH <i>406</i>

LEGAL LAND DESCRIPTION										WIRE LINE RECORD REEL No. <i>1</i>			
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER	MAKE <i>stol</i>	kg/m <i>101</i>	GRADE <i>K55</i>	No. JOINTS <i>5</i>	TOTAL LENGTH <i>64</i>	RKB. TO CSG. HD.	SET AT <i>61.5</i>	SIZE <i>1 1/2</i>	No. LINES <i>8</i>	METRES SLIPPED	
										METRES CUT OFF		PRESENT LENGTH <i>783</i>	
										MEGAJOULES SINCE LAST CUT <i>1614</i>		<i>2480</i>	
										CUMULATIVE MEGAJOULES <i>55434</i>		<i>56300</i>	

TIME DISTRIBUTION - HOURS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	No.	DRILLING ASSEMBLY	BIT No.	TIME	DENSITY	
1. RIG UP AND TEAR DOWN					1	BIT	<i>30</i>			
2. DRILL ACTUAL	<i>5 1/2</i>				1	STB RMR OD	<i>.88</i>	SIZE	<i>311</i>	
3. REAMING					3	D.C. ID	<i>222</i>	MFG.	<i>H-W</i>	
4. CORING					1	STB RMR OD	<i>5.73</i>	TYPE	<i>J-33</i>	
5. CONDITION MUD & CIRCULATE	<i>3/4 3/4</i>				1	D.C. ID	<i>5.69</i>	JETS	<i>mm OPEN</i>	
6. TRIPS	<i>1/2 3/4</i>				12	STB RMR OD	<i>113.11</i>	mm	<i>OPEN</i>	
7. LUBRICATE RIG	<i>1/4 1/4</i>				1	D.C. ID	<i>5.66</i>	mm	<i>OPEN</i>	
8. REPAIR RIG					1	STB RMR OD	<i>113.11</i>	mm	<i>OPEN</i>	
9. CUT OFF DRILLING LINE					1	D.C. ID	<i>5.66</i>	mm	<i>OPEN</i>	
10. DEVIATION SURVEY	<i>1/2</i>				12	STB RMR OD	<i>113.11</i>	mm	<i>OPEN</i>	
11. WIRE LINE LOGS	<i>7 4</i>				1	D.C. ID	<i>5.66</i>	mm	<i>OPEN</i>	
12. RUN CASING & CEMENT					1	STB RMR OD	<i>113.11</i>	mm	<i>OPEN</i>	
13. WAIT ON CEMENT					1	D.C. ID	<i>5.66</i>	mm	<i>OPEN</i>	
14. NIPPLE UP B.O.P.					1	STB RMR OD	<i>113.11</i>	mm	<i>OPEN</i>	
15. TEST B.O.P.					1	D.C. ID	<i>5.66</i>	mm	<i>OPEN</i>	
16. DRILL STEM TEST					1	STB RMR OD	<i>113.11</i>	mm	<i>OPEN</i>	
17. PLUG BACK					1	D.C. ID	<i>5.66</i>	mm	<i>OPEN</i>	
18. SQUEEZE CEMENT					1	STB RMR OD	<i>113.11</i>	mm	<i>OPEN</i>	
19. FISHING					1	D.C. ID	<i>5.66</i>	mm	<i>OPEN</i>	
20. DIR. WORK					1	STB RMR OD	<i>113.11</i>	mm	<i>OPEN</i>	
21. UNLOAD HOLE	<i>3/4</i>				1	D.C. ID	<i>5.66</i>	mm	<i>OPEN</i>	
22.					1	STB RMR OD	<i>113.11</i>	mm	<i>OPEN</i>	
23.					1	D.C. ID	<i>5.66</i>	mm	<i>OPEN</i>	
COMPLETION					MUD RECORD					
A. PERF'T'N					TIME					
B. TBG TRIPS					DENSITY					
C. TREATING					PRESSURE GRADIENT					
D. SWABBING					VISCOSITY					
E. TESTING					PV mPa.s					
F. ADDIT'N'L					YP Pa					
G.					GEL STR. Pa					
TOTALS					WATER LOSS cm ³					
DAY WORK SUMMARY (OFFICE USE ONLY)					pH					
HRS. W/CONTR. D.P.					SOLIDS %					
HRS. W/OPR. D.P.					MUD & CHEMICALS ADDED					
HRS. W/O D.P.					TYPE					
HRS. STANDBY					AMT. kg					
TOTAL DAY WORK					TYPE					
No. OF DAYS FROM SPUD					AMT. kg					
CUMULATIVE ROTATING HRS.					TYPE					
TOTAL MUD COST					AMT. kg					

METRES DRILLED				FORMATION (SHOW CORE RECOVERY)		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	ELAPSED TIME	CODE No.	FORMATION	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min
732	754	22	22	STRAP 754.43	80	1 1/2	800	PA	AIR DRILLING		
				BOARD 754.00							
				DIFF. 43							
DEVIATION RECORD				DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.
TIME LOG				ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
00:00	04:15	4 1/4	2	DRILL 311 mm HOLE							
04:15	07:30	3 1/4	7	RIG SERVICE / CROWN SADDLE / SHUT OFF MOTORS							
07:30	05:00	1 1/2	10	SURVEY							
05:00	05:30	1/2	21	UNLOAD HOLE							
05:30	06:45	1 1/4	2	DRILL 311 mm HOLE T.D. 755 m							
06:45	07:30	3/4	5	CIRC (WORK TIGHT SPOT)							
07:30	08:08	5 1/2	86	BLOW KELLY + Pull 20 STD WIPER TRIP							
				STRAP OUT.							
METRES DRILLED				FORMATION	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min
FROM	TO	ELAPSED TIME	CODE No.	FORMATION							
755	755	0	22	LAYED DOWN SHOCK SUB.							
DEVIATION RECORD				DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.
TIME LOG				ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
08:00	09:30	1 1/2	6	DUMMAY TRIP 20 STD							
09:30	10:15	3/4	21	UNLOAD HOLE							
10:15	11:00	3/4	5	CIRC							
11:00	11:15	1/4	7	RIG SER							
11:15	13:00	1 3/4	6	HOIST TO LOG							
13:00	20:00	7	11	Rig up SHUMBERGER + LOG.							
				CNL, -40T, NGT							
METRES DRILLED				FORMATION	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min
FROM	TO	ELAPSED TIME	CODE No.	FORMATION							
2000	22:00	2	11	RUN SHUMBERGER - CNL, LDT, NGT							
22:00	24:00	2	11	RUN SHUMBERGER - SONIC, GR							
DEVIATION RECORD				DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.
TIME LOG				ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
2000	22:00	2	11	RUN SHUMBERGER - CNL, LDT, NGT							
22:00	24:00	2	11	RUN SHUMBERGER - SONIC, GR							
				B.H.A + 21 D.P. ON BANK TOP SINGLE							
				NOT IN STRING							
				DRILLER							

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OFFICIAL DAILY DRILLING REPORT FORM

REPORT No.

WELL No.

WELL NUMBER

DATE

A-67

CONTRACTOR

Yr. Mo. Day
RIG No

85 12 01

to

85 12 24

K
S

DAILY DRILLING REPORT REPORT No.

LEGAL LAND DESCRIPTION										WIRE LINE RECORD REEL No.			
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED	
											1 1/2	8	
											METRES CUT OFF		PRESENT LENGTH
		340		stop	101	K-55	5	64		61.5			783
											MEGAJOULES SINCE LAST CUT	1309	1
										CUMULATIVE MEGAJOULES	57129	1	

[illegible][illegible]

METRES DRILLED				FORMATION (SHOW CORE RECOVERY)				PUMP No.				PUMP No.																					
FROM	TO	DR. D. RM-R CORE C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SG PAR CON																						
720	732	12		80	13/4	700/280	AIR	Drilling																									
<table border="1"> <thead> <tr> <th colspan="2">DEVIATION RECORD</th> <th>DEPTH</th> <th>DEV.</th> <th>DIRECTION</th> <th>DEPTH</th> <th>DEV.</th> <th>DIRECTION</th> <th>DEPTH</th> <th>DEV.</th> <th>DIRECTION</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION											
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION																							
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS																									
FROM	TO							324																									
20:00	20:15	1/4	7	RIG SERVICE ✓ CROWN SAVER																													
20:15	20:45	1/2	21	UNLOAD HOLE																													
20:45	23:00	2 1/4	2	DRILL 311mm HOLE																													
23:00	23:15	1/4	22	B.O.P DRILL W/CREW																													
23:15	24:00	3/4	2	DRILL 311mm HOLE																													
		4																															
DRILLER <i>[Signature]</i>																																	

DAILY DRILLING REPORT REPORT No.

LEASE <i>PCI CANITERA TWEED LAKE A-67</i>		WELL No.		WELL NUMBER		DATE <i>85 11 29</i>	
OPERATOR <i>PETRO CANADA INC</i>		CONTRACTOR <i>Atco/Eoutak</i>		RIG No. <i>74</i>			
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>				SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Brian Lickach</i>			
D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER
<i>114</i>	<i>24.70</i>	<i>E</i>	<i>160</i>	<i>4 1/2 x H</i>	<i>1</i>	<i>1</i>	<i>EM60</i>
						<i>2</i>	<i>EM60</i>
							<i>D-500</i>
							<i>406</i>

LEGAL LAND DESCRIPTION

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
<i>340</i>	<i>340</i>	<i>101</i>	<i>K-55</i>	<i>5</i>	<i>64</i>			<i>61.5</i>
WIRE LINE RECORD REEL No.								
SIZE <i>1 1/8</i>								
No. LINES <i>8</i>								
METRES CUT OFF <i>783</i>								
PRESENT LENGTH <i>783</i>								
MEGAJOULES SINCE LAST CUT <i>924</i>								
CUMULATIVE MEGAJOULES <i>56844</i>								

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE	BIT	SIZE	TIME	DENSITY	PRESSURE GRADIENT
1.	RIG UP AND TEAR DOWN				<i>1</i>	<i>BIT SUB</i>	<i>.30</i>	<i>.88</i>	<i>311</i>
2.	DRILL ACTUAL	<i>5 1/2</i>	<i>6 3/4</i>	<i>3 3/4</i>	<i>1</i>	<i>STB RMR SUB OD</i>	<i>4.14</i>	<i>MFG.</i>	<i>H-W</i>
3.	REAMING	<i>2 1/4</i>			<i>3</i>	<i>ID 222 OD</i>	<i>27.60</i>	<i>TYPE</i>	<i>JD-7</i>
4.	CORING				<i>1</i>	<i>STB JARS OD</i>	<i>5.73</i>	<i>JETS</i>	<i>mm</i>
5.	CONDITION MUD & CIRCULATE				<i>1</i>	<i>D.C. ID 1/2 OD</i>	<i>.69</i>	<i>SER. No.</i>	<i>88031</i>
6.	TRIPS	<i>3</i>			<i>12</i>	<i>STB RMR 171 OD</i>	<i>113.11</i>	<i>DEPTH OUT</i>	
7.	LUBRICATE RIG	<i>1/4</i>	<i>1/4</i>	<i>1/4</i>	<i>1</i>	<i>1/2</i>	<i>.66</i>	<i>DEPTH IN</i>	<i>613</i>
8.	REPAIR RIG							<i>TOTAL METRES DRILLED</i>	<i>7</i>
9.	CUT OFF DRILLING LINE							<i>TOTAL HRS. RUN</i>	<i>5 1/2</i>
10.	DEVIATION SURVEY				<i>16</i>	<i>STANDS DP</i>	<i>458.78</i>	<i>COND. 1/8" T/B GAGE</i>	
11.	WIRE LINE LOGS				<i>1</i>	<i>SINGLES DP</i>		<i>FLOW RATE m³/min</i>	
12.	RUN CASING & CEMENT					<i>KELLY DOWN</i>	<i>8.11</i>	<i>PRESSURE DROP kPa</i>	
13.	WAIT ON CEMENT					<i>TOTAL</i>	<i>620</i>		
14.	NIPPLE UP B.O.P.					<i>(FORCE) WT. OF STRING</i>	<i>53000</i>	<i>daN</i>	
15.	TEST B.O.P.								

MORNING TOUR

METRES DRILLED		DR. D. RM-R CORE C.	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN
FROM	TO												
<i>613</i>	<i>620</i>	<i>7m</i>											
<i>605</i>	<i>613</i>	<i>8m</i>											
FORMATION (SHOW CORE RECOVERY) <i>HOLE</i>													
FORMATION (SHOW CORE RECOVERY) <i>REAMING UNDER GUAGE 110 2/3 Air Drilling</i>													
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG													
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
<i>00:00</i>	<i>00:15</i>	<i>1/4</i>	<i>7</i>	<i>RIG SERVICE CHECK MOTOR SHUT OFFS</i>									
<i>00:15</i>	<i>02:30</i>	<i>2 1/4</i>	<i>3</i>	<i>REAMING @ 605m to 613m 2 to 3 DAN (5 DAN)</i>									
<i>02:30</i>	<i>08:00</i>	<i>5 1/2</i>	<i>2</i>	<i>DRILL 311mm HOLE</i>									
BOILER HOURS <i>3x8</i>													
DRILLER <i>Pat O'Connell</i>													

No. DRILLING ASSEMBLY (at end of tour)				BIT RECORD		MUD RECORD	
BIT	SIZE	TIME	DENSITY	PRESSURE GRADIENT	VISCOSITY	PV mPa.s	YP Pa
<i>1</i>	<i>BIT SUB</i>	<i>.30</i>	<i>.88</i>	<i>311</i>	<i>311</i>		
<i>1</i>	<i>STB RMR 55 OD</i>	<i>4.14</i>	<i>MFG.</i>	<i>H-W</i>	<i>H-W</i>		
<i>3</i>	<i>D.C. ID 222 OD</i>	<i>27.60</i>	<i>TYPE</i>	<i>JD-7</i>	<i>J-33</i>		
<i>1</i>	<i>STB RMR 55 OD</i>	<i>5.73</i>	<i>JETS</i>	<i>mm</i>	<i>OPEN</i>		
<i>1</i>	<i>D.C. ID 1/2 OD</i>	<i>.69</i>	<i>SER. No.</i>	<i>88031</i>	<i>2827</i>		
<i>17</i>	<i>STB RMR 171 OD</i>	<i>113.11</i>	<i>DEPTH OUT</i>	<i>623</i>	<i>623</i>		
<i>1</i>	<i>1/2</i>	<i>.66</i>	<i>DEPTH IN</i>	<i>613</i>	<i>623</i>		
			<i>TOTAL METRES DRILLED</i>	<i>10</i>	<i>21</i>		
			<i>TOTAL HRS. RUN</i>	<i>6 1/2</i>	<i>5 3/4</i>		
<i>16</i>	<i>STANDS DP</i>	<i>477.86</i>	<i>COND. 1/8" T/B GAGE</i>	<i>2 2 1/4</i>	<i>0.8</i>		
<i>2</i>	<i>SINGLES DP</i>		<i>FLOW RATE m³/min</i>				
	<i>KELLY DOWN</i>	<i>12.42</i>	<i>PRESSURE DROP kPa</i>				
	<i>TOTAL</i>	<i>49</i>					
	<i>(FORCE) WT. OF STRING</i>	<i>53,000</i>	<i>daN</i>				

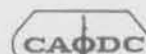
DAY TOUR

METRES DRILLED		DR. D. RM-R CORE C.	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN
FROM	TO												
<i>620</i>	<i>644</i>	<i>24</i>											
FORMATION (SHOW CORE RECOVERY) <i>110 1/2 Air Drilling</i>													
FORMATION (SHOW CORE RECOVERY) <i>8 1/2 1/2 Air Drilling</i>													
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG													
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
<i>0800</i>	<i>0900</i>	<i>1</i>	<i>2</i>	<i>DRILL</i>									
<i>0900</i>	<i>0915</i>	<i>1/4</i>	<i>7</i>	<i>RIG SERVICE + CROWN SAVER</i>									
<i>0915</i>	<i>1215</i>	<i>3</i>	<i>6</i>	<i>TRIP FOR BIT #5</i>									
<i>1215</i>	<i>1300</i>	<i>3/4</i>	<i>21</i>	<i>UNLOAD HOLE</i>									
<i>1300</i>	<i>1845</i>	<i>5 3/4</i>	<i>2</i>	<i>DRILL</i>									
<i>1845</i>	<i>2000</i>	<i>1 1/4</i>	<i>10</i>	<i>CIRC W/AIR + SURVEY</i>									
BOILER HOURS <i>3x12</i>													
DRILLER <i>Red Boy</i>													

No. DRILLING ASSEMBLY (at end of tour)				BIT RECORD		MUD RECORD	
BIT	SIZE	TIME	DENSITY	PRESSURE GRADIENT	VISCOSITY	PV mPa.s	YP Pa
<i>1</i>	<i>BIT SUB</i>	<i>.30</i>	<i>.88</i>	<i>311</i>	<i>311</i>		
<i>1</i>	<i>STB RMR 55 OD</i>	<i>4.14</i>	<i>MFG.</i>	<i>H-W</i>	<i>H-W</i>		
<i>3</i>	<i>D.C. ID 222 OD</i>	<i>27.60</i>	<i>TYPE</i>	<i>JD-7</i>	<i>J-33</i>		
<i>1</i>	<i>STB RMR 55 OD</i>	<i>5.73</i>	<i>JETS</i>	<i>mm</i>	<i>OPEN</i>		
<i>1</i>	<i>D.C. ID 1/2 OD</i>	<i>.69</i>	<i>SER. No.</i>	<i>2827</i>			
<i>17</i>	<i>STB RMR 171 OD</i>	<i>113.11</i>	<i>DEPTH OUT</i>	<i>623</i>	<i>623</i>		
<i>1</i>	<i>1/2</i>	<i>.66</i>	<i>DEPTH IN</i>	<i>613</i>	<i>623</i>		
			<i>TOTAL METRES DRILLED</i>	<i>35</i>			
			<i>TOTAL HRS. RUN</i>	<i>9 1/2</i>			
<i>17</i>	<i>STANDS DP</i>	<i>497.11</i>	<i>COND. 1/8" T/B GAGE</i>				
<i>X</i>	<i>SINGLES DP</i>		<i>FLOW RATE m³/min</i>				
	<i>KELLY DOWN</i>	<i>7.78</i>	<i>PRESSURE DROP kPa</i>				
	<i>TOTAL</i>	<i>658</i>					
	<i>(FORCE) WT. OF STRING</i>	<i>54000</i>	<i>daN</i>				

EVENING TOUR

METRES DRILLED		DR. D. RM-R CORE C.	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN
FROM	TO												
<i>644</i>	<i>658</i>	<i>14</i>											
FORMATION (SHOW CORE RECOVERY) <i>80 15/16 Air Drilling</i>													
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG													
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
<i>20:00</i>	<i>22:30</i>	<i>2 1/2</i>	<i>2</i>	<i>DRILL 311mm HOLE</i>									
<i>22:30</i>	<i>22:45</i>	<i>1/4</i>	<i>7</i>	<i>RIG SERVICE</i>									
<i>22:45</i>	<i>24:00</i>	<i>1 1/4</i>	<i>2</i>	<i>DRILL 311mm HOLE</i>									
BOILER HOURS <i>3x4</i>													
DRILLER <i>Pat O'Connell</i>													

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OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT REPORT No.

LEASE <i>PEI CANTERA TWEED LAKE A-67 A-67</i>		WELL No.		WELL NUMBER		DATE <i>30.11.78</i>	
OPERATOR <i>PETRO CANADA INC.</i>		CONTRACTOR <i>ATCO/LOUTAK</i>		RIG No. <i>76</i>		LEGAL LAND DESCRIPTION	
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>				WIRE LINE RECORD REEL No.	
D.P. SIZE <i>#14</i>	kg/m <i>29.70</i>	GRADE <i>E</i>	TOOL JT O. D. <i>160</i>	TYPE THREAD <i>4 1/2 x 11</i>	STRING No. <i>1</i>	PUMP No. <i>1</i>	PUMP MANUFACTURER <i>EMISCO</i>
						TYPE <i>D-500</i>	
						STROKE LENGTH <i>406</i>	

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE	BIT No.	SIZE	TIME	DENSITY kg/m ³	PRESSURE GRADIENT
1.	RIG UP AND TEAR DOWN				1	311			
2.	DRILL ACTUAL	<i>647</i>	<i>3 1/2</i>		1	311			
3.	REAMING				3	311			
4.	CORING				1	311			
5.	CONDITION MUD & CIRCULATE				1	311			
6.	TRIPS	<i>4 1/4</i>			1	311			
7.	LUBRICATE RIG	<i>1 1/4</i>	<i>1/4</i>	<i>1/4</i>	1	311			
8.	REPAIR RIG				1	311			
9.	CUT OFF DRILLING LINE				1	311			
10.	DEVIATION SURVEY	<i>1 1/2</i>	<i>3/4</i>		1	311			
11.	WIRE LINE LOGS				1	311			
12.	RUN CASING & CEMENT				1	311			
13.	WAIT ON CEMENT				1	311			
14.	NIPPLE UP B.O.P.				1	311			
15.	TEST B.O.P.				1	311			
16.	DRILL STEM TEST				1	311			
17.	PLUG BACK				1	311			
18.	SQUEEZE CEMENT				1	311			
19.	FISHING				1	311			
20.	DIR. WORK				1	311			
21.					1	311			
22.					1	311			
23.					1	311			
TOTALS									

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE	BIT No.	SIZE	TIME	DENSITY kg/m ³	PRESSURE GRADIENT
1.	RIG UP AND TEAR DOWN				1	311			
2.	DRILL ACTUAL	<i>647</i>	<i>3 1/2</i>		1	311			
3.	REAMING				3	311			
4.	CORING				1	311			
5.	CONDITION MUD & CIRCULATE				1	311			
6.	TRIPS	<i>4 1/4</i>			1	311			
7.	LUBRICATE RIG	<i>1 1/4</i>	<i>1/4</i>	<i>1/4</i>	1	311			
8.	REPAIR RIG				1	311			
9.	CUT OFF DRILLING LINE				1	311			
10.	DEVIATION SURVEY	<i>1 1/2</i>	<i>3/4</i>		1	311			
11.	WIRE LINE LOGS				1	311			
12.	RUN CASING & CEMENT				1	311			
13.	WAIT ON CEMENT				1	311			
14.	NIPPLE UP B.O.P.				1	311			
15.	TEST B.O.P.				1	311			
16.	DRILL STEM TEST				1	311			
17.	PLUG BACK				1	311			
18.	SQUEEZE CEMENT				1	311			
19.	FISHING				1	311			
20.	DIR. WORK				1	311			
21.					1	311			
22.					1	311			
23.					1	311			
TOTALS									

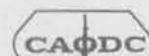
TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE	BIT No.	SIZE	TIME	DENSITY kg/m ³	PRESSURE GRADIENT
1.	RIG UP AND TEAR DOWN				1	311			
2.	DRILL ACTUAL	<i>647</i>	<i>3 1/2</i>		1	311			
3.	REAMING				3	311			
4.	CORING				1	311			
5.	CONDITION MUD & CIRCULATE				1	311			
6.	TRIPS	<i>4 1/4</i>			1	311			
7.	LUBRICATE RIG	<i>1 1/4</i>	<i>1/4</i>	<i>1/4</i>	1	311			
8.	REPAIR RIG				1	311			
9.	CUT OFF DRILLING LINE				1	311			
10.	DEVIATION SURVEY	<i>1 1/2</i>	<i>3/4</i>		1	311			
11.	WIRE LINE LOGS				1	311			
12.	RUN CASING & CEMENT				1	311			
13.	WAIT ON CEMENT				1	311			
14.	NIPPLE UP B.O.P.				1	311			
15.	TEST B.O.P.				1	311			
16.	DRILL STEM TEST				1	311			
17.	PLUG BACK				1	311			
18.	SQUEEZE CEMENT				1	311			
19.	FISHING				1	311			
20.	DIR. WORK				1	311			
21.					1	311			
22.					1	311			
23.					1	311			
TOTALS									

WIRE LINE RECORD REEL No.									
SIZE	No. LINES	METRES SLIPPED							
<i>1 1/2</i>	<i>8</i>	<i>783</i>							
METRES CUT OFF									
MEGAJOULES SINCE LAST CUT <i>544</i>									
CUMULATIVE MEGAJOULES <i>56744</i>									

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE. C.	CORE No.	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE
<i>558</i>	<i>579</i>	<i>21</i>		<i>60</i>	<i>1/2</i>	<i>DRILL</i>			
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.
<i>558</i>		<i>1/2</i>							
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
FROM	TO								
<i>0000</i>	<i>0015</i>	<i>1/4</i>	<i>7</i>	<i>RIG SERVICE</i>					
<i>0015</i>	<i>0045</i>	<i>1/2</i>	<i>10</i>	<i>SURVEY 2 MISS RUNS. H.D. UP IN PIPE</i>					
<i>0045</i>	<i>0300</i>	<i>2 1/4</i>	<i>2</i>	<i>DRILL 311mm HOLE</i>					
<i>0300</i>	<i>0400</i>	<i>1</i>	<i>10</i>	<i>SURVEY CIRCULATE WITH AIR</i>					
<i>0400</i>	<i>0800</i>	<i>4</i>	<i>2</i>	<i>DRILL 311mm HOLE</i>					
BOILER HOURS		<i>3 X 8</i>							

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE. C.	CORE No.	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE
<i>579</i>	<i>605</i>	<i>26</i>		<i>60</i>	<i>1/2</i>	<i>AIR DRILL</i>			
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.
<i>587</i>		<i>1/2</i>							
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
FROM	TO								
<i>08:00</i>	<i>12:30</i>	<i>4 1/2</i>	<i>2</i>	<i>DRILL 311mm HOLE</i>					
<i>12:30</i>	<i>12:45</i>	<i>1/4</i>	<i>7</i>	<i>RIG SERVICE CROWN SAVER</i>					
<i>12:45</i>	<i>13:30</i>	<i>3/4</i>	<i>10</i>	<i>SURVEY @ 587m</i>					
<i>13:30</i>	<i>16:00</i>	<i>2 1/2</i>	<i>2</i>	<i>DRILL 311mm HOLE</i>					
BOILER HOURS		<i>3 X 8</i>							

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE. C.	CORE No.	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE
<i>605</i>	<i>613</i>	<i>8</i>		<i>60</i>	<i>1/2</i>	<i>AIR DRILL</i>			
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.
<i>605</i>		<i>1/2</i>							
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
FROM	TO								
<i>1600</i>	<i>1630</i>	<i>1/2</i>	<i>2</i>	<i>DRILL</i>					
<i>1630</i>	<i>1645</i>	<i>1/4</i>	<i>7</i>	<i>RIGSER</i>					
<i>1645</i>	<i>1945</i>	<i>3</i>	<i>2</i>	<i>DRILL</i>					
<i>1945</i>	<i>2145</i>	<i>2</i>	<i>6</i>	<i>HOLD BIT #4</i>					
<i>2145</i>	<i>2400</i>	<i>2 1/4</i>	<i>6</i>	<i>CHANGE BIT #4 RUN IN W/BIT #5</i>					
BOILER HOURS		<i>3 X 8</i>							

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT RE.

LEASE PET CANADA TWEELO LAKE		WELL No. A-67	
OPERATOR PETRO CANADA INC		CONTRACTOR ATCO/EQUITAK	
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>	
D.P. SIZE 1 1/4	kg/m 24.70	GRADE E	TOOL JT O. D. 160
TYPE THREAD 4 1/2 x 11	STRING No. 1	PUMP No. 1	PUMP MANUFACTURER EMSCO
TYPE D-500	STROKE LENGTH 9.06		

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER 340	INSIDE DIAMETER	MAKE 501/101	kg/m K-8	GRADE 5	No. JOINTS 64	TOTAL LENGTH 645	RKB. TO CSG. HO.	SET AT 645	SIZE 1 1/2	No. LINES 8	METRES SLIPPED
										METRES CUT OFF	PRESENT LENGTH 783	
										MEGAJOULES SINCE LAST CUT		
										CUMULATIVE MEGAJOULES		

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	1 BIT	2 BIT	3 BIT	4 BIT	5 BIT
1.	RIG UP AND TEAR DOWN	7/4			1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
2.	DRILL ACTUAL	7/4	10 3/4	3/4	1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
3.	REAMING				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
4.	CORING				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
5.	CONDITION MUD & CIRCULATE				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
6.	TRIPS				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
7.	LUBRICATE RIG	1/4	1/4	1/4	1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
8.	REPAIR RIG				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
9.	CUT OFF DRILLING LINE				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
10.	DEVIATION SURVEY	1/2	1/4		1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
11.	WIRE LINE LOGS				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
12.	RUN CASING & CEMENT				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
13.	WAIT ON CEMENT				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
14.	NIPPLE UP B.O.P.				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
15.	TEST B.O.P.				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
16.	DRILL STEM TEST				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
17.	PLUG BACK				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
18.	SQUEEZE CEMENT				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
19.	FISHING				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
20.	DIR. WORK				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
21.	Repair Air Drillers				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
22.					1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
23.					1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A. PERF'RT'N				1 BIT		1 BIT		1 BIT	
B. TBG TRIPS				1 BIT		1 BIT		1 BIT	
C. TREATING				1 BIT		1 BIT		1 BIT	
D. SWABBING				1 BIT		1 BIT		1 BIT	
E. TESTING				1 BIT		1 BIT		1 BIT	
F. ADDIT'N'L				1 BIT		1 BIT		1 BIT	
G.				1 BIT		1 BIT		1 BIT	
TOTALS				8 12					
DAY WORK SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. WO/D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE. C.	CORE No.	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SOL. S. P. COMD. C.	SOL. S. P. COMD. C.	SOL. S. P. COMD. C.
471	501	30		60	14								
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
471		1/2											
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
0000	0015	1/4	10	DRILL 311mm HOLE		SURVEY MISS RUN		3 X 8					
0015	0200	1 3/4	2	DRILL 311mm HOLE									
0200	0235	1/4	7	RIG SERVICE									
0235	0230	1/4	10	SURVEY									
0230	0800	5 1/2	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
501		547		46									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
0800	1245	4 3/4	2	DRILL 311mm HOLE				3 X 12					
1245	1300	1/4	7	RIG SERVICE, V.CROWN SAVER									
1300	1315	1/4	10	SURVEY @ 510m									
1315	1415	1	21	REPAIR AIR DRILLERS MIST PUMP									
1415	2000	5 3/4	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
547		558		11									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2030	1/2	2	DRILL 311mm HOLE				3 X 4					
2030	2045	1/4	7	RIG SERVICE									
2045	2400	3 1/4	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
547		558		11									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2030	1/2	2	DRILL 311mm HOLE				3 X 4					
2030	2045	1/4	7	RIG SERVICE									
2045	2400	3 1/4	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
547		558		11									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2030	1/2	2	DRILL 311mm HOLE				3 X 4					
2030	2045	1/4	7	RIG SERVICE									
2045	2400	3 1/4	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
547		558		11									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2030	1/2	2	DRILL 311mm HOLE				3 X 4					
2030	2045	1/4	7	RIG SERVICE									
2045	2400	3 1/4	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
547		558		11									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2030	1/2	2	DRILL 311mm HOLE				3 X 4					
2030	2045	1/4	7	RIG SERVICE									
2045	2400	3 1/4	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
547		558		11									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2030	1/2	2	DRILL 311mm HOLE				3 X 4					
2030	2045	1/4	7	RIG SERVICE									
2045	2400	3 1/4	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
547		558		11									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2030	1/2	2	DRILL 311mm HOLE				3 X 4					
2030	2045	1/4	7	RIG SERVICE									
2045	2400	3 1/4	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
547		558		11									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2030	1/2	2	DRILL 311mm HOLE				3 X 4					
2030	2045	1/4	7	RIG SERVICE									
2045	2400	3 1/4	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
547		558		11									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2030	1/2	2	DRILL 311mm HOLE				3 X 4					
2030	2045	1/4	7	RIG SERVICE									
2045	2400	3 1/4	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
547		558		11									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2030	1/2	2	DRILL 311mm HOLE				3 X 4					
2030	2045	1/4	7	RIG SERVICE									
2045	2400	3 1/4	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
547		558		11									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2030	1/2	2	DRILL 311mm HOLE				3 X 4					
2030	2045	1/4	7	RIG SERVICE									
2045	2400	3 1/4	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
547		558		11									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2030	1/2	2	DRILL 311mm HOLE				3 X 4					
2030	2045	1/4	7	RIG SERVICE									
2045	2400	3 1/4	2	DRILL 311mm HOLE									
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
547		558		11									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2030	1/2	2	DRILL 311mm HOLE				3 X 4					

No.

DAILY DRILLING REPORT REPORT No.

LEASE <i>PETRO CANADA TWEEDE LAKE</i>		WELL No. <i>A-67</i>		WELL NUMBER		DATE <i>8/1/82</i>	
OPERATOR <i>PETRO CANADA INC.</i>		CONTRACTOR <i>ATCO/BOUNTAK</i>		RIG No. <i>76</i>		LEGAL LAND DESCRIPTION	
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>		WIRE LINE RECORD REEL No.		SIZE <i>1 1/2</i>	
D.P. SIZE <i>114</i>		GRADE <i>24.70</i>		TOOL JT. O. D. <i>160</i>		TYPE THREAD <i>4 1/2 x 11</i>	
STRING No. <i>1</i>		PUMP No. <i>1</i>		PUMP MANUFACTURER <i>EMSCO</i>		TYPE <i>D-500</i>	
STROKE LENGTH <i>406</i>		PUMP No. <i>2</i>		PUMP MANUFACTURER <i>EMSCO</i>		TYPE <i>D-500</i>	
STROKE LENGTH <i>406</i>							

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	1 BIT	2 BIT	3 BIT	4 BIT	5 BIT
1	RIG UP AND TEAR DOWN				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
2	DRILL ACTUAL				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
3	REAMING				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
4	CORING				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
5	CONDITION MUD & CIRCULATE				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
6	TRIPS				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
7	LUBRICATE RIG				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
8	REPAIR RIG				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
9	CUT OFF DRILLING LINE				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
10	DEVIATION SURVEY				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
11	WIRE LINE LOGS				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
12	RUN CASING & CEMENT				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
13	WAIT ON CEMENT				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
14	NIPPLE UP B.O.P.				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
15	TEST B.O.P.				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
16	DRILL STEM TEST				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
17	PLUG BACK				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
18	SQUEEZE CEMENT				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
19	FISHING				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
20	DIR. WORK				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
21	ALTER LOG				1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
22					1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
23					1 BIT	1 BIT	1 BIT	1 BIT	1 BIT
TOTALS					2	12	4		
DAY WORK SUMMARY (OFFICE USE ONLY)									
HRS. W/ CONTR. D.P.									
HRS. W/ OPR. D.P.									
HRS. WO/ D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		PUMP No.		PUMP No.		METHOD	
FROM	TO	DR. D. RM-R CORE-C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE
420	440	20		60	1/6				AIR DRILL
DEVIATION RECORD									
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS			
0000	0445	445	2	DRILL 311mm HOLE		3x8			
445	500	55	21	FIX AIR DRILLERS AIR LINE REPLACE GASKET					
500	515	15	7	AIR SERVICE					
515	530	15	21	BLOW HOLE					
530	800	270	21	DRILL 311mm HOLE					
DRILLER <i>Jack M. O'Neil</i>									
MORNING TOUR									
DAY TOUR									
EVENING TOUR									

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE <i>PCT CANADA TULSA LAKE A-67</i>		WELL No. <i>A-67</i>		WELL NUMBER		DATE <i>55 11 25</i>	
OPERATOR <i>PETRO-CANADA INC.</i>		CONTRACTOR <i>ATCO/EGOUTAK</i>		RIG No. <i>76</i>			
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>					
D.P. SIZE <i>114</i>	kg/m <i>24.7</i>	GRADE <i>E</i>	TOOL JT. O. D. <i>160</i>	TYPE THREAD <i>4 1/2 x H</i>	STRING No. <i>1</i>	PUMP No. <i>1</i>	PUMP MANUFACTURER <i>EMISCO</i>
							TYPE <i>D-500</i>
							STROKE LENGTH <i>406</i>

LEGAL LAND DESCRIPTION

OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER <i>501</i>	MAKE <i>101</i>	kg/m <i>K-55</i>	GRADE <i>5</i>	No. JOINTS <i>64</i>	TOTAL LENGTH <i>61-5</i>	RKB. TO CSG. HD.	SET AT
WIRE LINE RECORD REEL No. <i>1</i>								
SIZE <i>1 1/2</i>		No. LINES <i>8</i>		METRES SHIPPED				
METRES CUT OFF		PRESENT LENGTH						
MEGAJOULES SINCE LAST CUT								
CUMULATIVE MEGAJOULES								

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	1 BIT	2 BIT	3 BIT	TIME	
1	RIG UP AND TEAR DOWN				1	1	1		
2	DRILL ACTUAL	<i>7 1/2</i>	<i>11 1/4</i>	<i>3 1/2</i>	1	1	1		
3	REAMING				3	3	3		
4	CORING				1	1	1		
5	CONDITION MUD & CIRCULATE				1	1	1		
6	TRIPS				1	1	1		
7	LUBRICATE RIG	<i>1/4</i>	<i>1/4</i>	<i>1/4</i>	1	1	1		
8	REPAIR RIG				1	1	1		
9	CUT OFF DRILLING LINE				1	1	1		
10	DEVIATION SURVEY	<i>1/4</i>	<i>1/4</i>	<i>1/4</i>	1	1	1		
11	WIRE LINE LOGS				1	1	1		
12	RUN CASING & CEMENT				1	1	1		
13	WAIT ON CEMENT				1	1	1		
14	NIPPLE UP B.O.P.				1	1	1		
15	TEST B.O.P.				1	1	1		
16	DRILL STEM TEST				1	1	1		
17	PLUG BACK				1	1	1		
18	SQUEEZE CEMENT				1	1	1		
19	FISHING				1	1	1		
20	DIR. WORK				1	1	1		
21	150P DRILL		<i>1/4</i>		1	1	1		
22					1	1	1		
23					1	1	1		
COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A. PERF'R'TN				1		1		1	
B. TBG TRIPS				1		1		1	
C. TREATING				1		1		1	
D. SWABBING				1		1		1	
E. TESTING				1		1		1	
F. ADDIT'N'L				1		1		1	
G.				1		1		1	
TOTALS				8		12		4	
DAY WORK SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. W/O D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

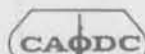
MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	OR D RM-R CORE-C	CORE No.	DEPTH	DEV.	DEPTH	DEV.	DEPTH	DEV.	DEPTH	DEV.	DEPTH	DEV.
312	355	43											
DEVIATION RECORD													
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
0000	0330	3 1/2	2	DRILL 311 mm HOLE									
0330	0345	1/4	7	RIG SERVICE FUNCTION HYDRAULIC HCR									
0345	0400	1/4	10	SURVEY									
0400	0800	4	2	DRILL 311 mm HOLE									
COGLA RIG AND SP. 85-11-25: RIGGED Machine & Borehole													
DRILLER <i>Jack McQueen</i>													
MORNING TOUR													
METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No.		PUMP No.		METHOD RUN	
355	407	52											
DEVIATION RECORD													
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
0800	1030	2 1/2	2	DRILL 311 mm HOLE									
1030	1045	1/4	7	RIG SERVICE, V-CROWN SAVER & MOTOR SHUT OFF									
1045	1100	1/4	10	SURVEY @ 366m									
1100	1545	4 3/4	2	DRILL 311 mm HOLE									
1545	1600	1/4	21	B.O.P. DRILL (W/CREW) COGLA INSPECTION.									
1600	2000	4 1/2	2	DRILL 311 mm HOLE									
DRILLER													
DAY TOUR													
METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No.		PUMP No.		METHOD RUN	
407	420	13											
DEVIATION RECORD													
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2200	2	2	DRILL 311 mm HOLE									
2200	2215	1/4	7	RIG SERVICE									
2215	2230	1/4	10	SURVEY									
2230	2400	1 1/2	2	DRILL 311 mm HOLE									
DRILLER <i>Jack McQueen</i>													
EVENING TOUR													

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OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT REPORT No.

LEASE <i>PCI CANTELA TUGALAKE</i>		WELL No. <i>A-67</i>	WELL NUMBER	DATE <i>85 11 24</i> Yr. Mo. Day
OPERATOR <i>PETRO CANADA INC</i>		CONTRACTOR <i>ATCO/EDUTAK</i>		
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		
D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD
PUMP No.	PUMP MANUFACTURER		TYPE	STROKE LENGTH
<i>1</i>	<i>EmSCO</i>		<i>D-500</i>	<i>406</i>
<i>2</i>	<i>EmSCO</i>		<i>D-500</i>	<i>406</i>

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED
<i>340</i>	<i>310</i>	<i>101</i>	<i>K3</i>	<i>5</i>	<i>64</i>	<i>61-5</i>			<i>138</i>	<i>8</i>	
LAST CASING TUBING OR LINER									METRES CUT OFF		
									PRESENT LENGTH		
									MEGAJOULES SINCE LAST CUT		
									CUMULATIVE MEGAJOULES		
									<i>55612</i>		

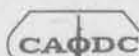
TIME DISTRIBUTION - HOURS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	No.	DRILLING ASSEMBLY	BIT No.	SIZE	TIME	
1.	RIG UP AND TEAR DOWN				1	BIT SUB	3	311	DENSITY kg/m ³	
2.	DRILL ACTUAL	<i>7 1/2</i>	<i>8 1/2</i>	<i>3 1/4</i>	1	STB SUB OD	4.14	MFG. <i>HW</i>	PRESSURE GRADIENT	
3.	REAMING				3	D.C. ID <i>222</i> OD	27.60	TYPE <i>J-33</i>	VISCOSITY	
4.	CORING				1	STB RMR <i>JAKS</i> OD	5.73	JETS mm <i>OPEN</i>	PV mPa*s YP Pa	
5.	CONDITION MUD & CIRCULATE				1	D.C. ID <i>90</i> OD	.69	SER. No. <i>4304</i>	GEL STR. Pa	
6.	TRIPS				12	STB RMR <i>171</i> OD	113.11	DEPTH OUT	WATER LOSS cm ³	
7.	LUBRICATE RIG	<i>1/4</i>	<i>1/4</i>	<i>1/4</i>	1	D.C. ID <i>90</i>	.66	DEPTH IN	pH	
8.	REPAIR RIG							TOTAL METRES DRILLED	SOLIDS %	
9.	CUT OFF DRILLING LINE							TOTAL HRS. RUN		
10.	DEVIATION SURVEY	<i>1/4</i>	<i>1/4</i>	<i>1/4</i>				COND. 1/8" T/B GAGE		
11.	WIRE LINE LOGS							FLOW RATE m ³ /min		
12.	RUN CASING & CEMENT							PRESSURE DROP kPa		
13.	WAIT ON CEMENT									
14.	NIPPLE UP B.O.P.									
15.	TEST B.O.P.									
16.	DRILL STEM TEST									
17.	PLUG BACK									
18.	SQUEEZE CEMENT									
19.	FISHING									
20.	DIR. WORK									
21.	REPAIR DRILLING	<i>3</i>	<i>1/4</i>							
22.										
23.										
COMPLETION					MUD & CHEMICALS ADDED					
A. PERF'R'T'N					TYPE					
B. TBG TRIPS					AMT. kg					
C. TREATING					TYPE					
D. SWABBING					AMT. kg					
E. TESTING					TYPE					
F. ADDIT'N'L					AMT. kg					
G.					TYPE					
TOTALS					AMT. kg					
DAY WORK SUMMARY (OFFICE USE ONLY)					TYPE					
HRS. W/CONTR. D.P.					AMT. kg					
HRS. W/OPR. D.P.					TYPE					
HRS. WO/D.P.					AMT. kg					
HRS. STANDBY					TYPE					
TOTAL DAY WORK					AMT. kg					
No. OF DAYS FROM SPUD					TYPE					
CUMULATIVE ROTATING HRS.					AMT. kg					
TOTAL MUD COST					TYPE					

MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		PUMP No.		PUMP No.		METHOD RUN			
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. PAR. P. COMD. C.
217	251	34		120	15						
DEVIATION RECORD											
DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
232		34									
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
0000	0600	6	2	DRILL 311mm HOLE							
0600	0615	14	10	SURVEY							
0615	0630	14	7	RIG SERVICE							
0630	0800	172	2	DRILL 311mm HOLE							
DRILLER <i>Jack McQueen</i>											
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. PAR. P. COMD. C.
251	295	44		120	15						
DEVIATION RECORD											
DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
260		34									
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
0800	1200	4	2	DRILL 311mm HOLE							
1200	1215	14	7	RIG SERVICE, V CROWN SAVER							
1215	1230	14	10	SURVEY @ 260m							
1230	1445	214	2	DRILL 311mm HOLE							
1445	1745	3	21	RIG UP AIR DRG. BLUE LINE							
1745	2000	214	2	DRILL 311mm HOLE							
DRILLER <i>Brian Kirkwood</i>											
METRES DRILLED											
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. PAR. P. COMD. C.
295	312	17		120	15						
DEVIATION RECORD											
DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
298		1°									
TIME LOG											
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
2000	2015	14	2	DRILL 311mm HOLE							
2015	2030	14	7	RIG SERVICE							
2030	2045	14	10	SURVEY							
2045	2245	2	2	DRILL 311mm HOLE							
2245	2300	14	21	FIX BLUE LINE							
2300	2400	1	2	DRILL 311mm HOLE							
DRILLER <i>Jack McQueen</i>											

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OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT REPORT No.

LEASE <i>PCT CANTECA TWELVE LAKE</i>	WELL No. <i>A-67</i>	WELL NUMBER	DATE <i>85 11 23</i> Yr. Mo. Day
OPERATOR <i>LETRO CANADA INC.</i>	CONTRACTOR <i>ATCO EQUATAK</i>		RIG No. <i>76</i>
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>	
D.P. SIZE <i>114</i>	kg/m <i>247</i>	GRADE <i>E</i>	TOOL JT. O. D. <i>4 1/2 XH</i>
TYPE THREAD <i>4 1/2 XH</i>		STRING No.	PUMP No.
PUMP MANUFACTURER <i>EMSCO D-500</i>		TYPE <i>D-500</i>	STROKE LENGTH <i>406</i>

LEGAL LAND DESCRIPTION

OUTSIDE DIAMETER <i>340</i>	INSIDE DIAMETER	MAKE <i>501</i>	kg/m <i>101</i>	GRADE <i>K95</i>	No. JOINTS <i>45</i>	TOTAL LENGTH <i>64</i>	RK8. TO CSG. HD.	SET AT <i>615</i>		
WIRE LINE RECORD REEL No.										
SIZE <i>13</i>									No. LINES <i>8</i>	METRES SLIPPED <i>36</i>
METRES CUT OFF <i>36</i>									PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT										
CUMULATIVE MEGAJOULES <i>55612</i>										

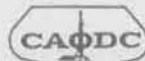
TIME DISTRIBUTION - HOURS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	1 BIT	2	3	TIME	DENSITY kg/m ³	
1. RIG UP AND TEAR DOWN					1 BIT SUB	.88	SIZE 311			
2. DRILL ACTUAL	<i>7 1/2</i>	<i>134</i>			1 STB RMR JAR OD	4.14	m MFG. HW			
3. REAMING					3 D.C. ID 222 OD	27.60	m TYPE J07			
4. CORING					1 STB RMR JAR OD	5.73	m JETS mm OPEN			
5. CONDITION MUD & CIRCULATE					1 D.C. ID % OD	.69	m SER. No. 88032			
6. TRIPS		<i>3 1/4</i>	<i>134</i>		5 STB RMR JAR OD	46.90	m DEPTH OUT			
7. LUBRICATE RIG	<i>1/4</i>	<i>1/4</i>	<i>1/4</i>		1 % OD	.66	m DEPTH IN			
8. REPAIR RIG							TOTAL METRES DRILLED			
9. CUT OFF DRILLING LINE							TOTAL HRS. RUN			
10. DEVIATION SURVEY	<i>1/4</i>	<i>1/4</i>			3 STANDS DP	86.16	m COND. 1/8" T/B. GAGE			
11. WIRE LINE LOGS					SINGLES DP	9.61	m FLOW RATE m ³ /min			
12. RUN CASING & CEMENT					KELLY DOWN	12.42	m PRESSURE DROP kPa			
13. WAIT ON CEMENT					TOTAL	184	m			
14. NIPPLE UP B.O.P.					(FORCE) WT. OF STRING	33.000	daN			
15. TEST B.O.P.										
16. DRILL STEM TEST										
17. PLUG BACK										
18. SQUEEZE CEMENT										
19. FISHING										
20. DIR. WORK										
21. BOP DRILL		<i>1/4</i>								
22. WIRE LINE LOGS			<i>1/2</i>							
23. COMPLETION										
TOTALS					8	12	4			
DAY WORK SUMMARY (OFFICE USE ONLY)										
HRS. W/CONTR. D.P.										
HRS. W/OPR. D.P.										
HRS. WO/D.P.										
HRS. STANDBY										
TOTAL DAY WORK										
No. OF DAYS FROM SPUD										
CUMULATIVE ROTATING HRS.										
TOTAL MUD COST										

MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	DR. D. RM-R CORE. C	CORE No.	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min
151	184	33													
DEVIATION RECORD															
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
FROM	TO														
0000	0400	1		2		RIG SERVICE									
0400	0115	1/4		7		DRILL 311mm HOLE									
0115	0300	1/4		2		DRILL 311mm HOLE									
0300	0315	1/4		10		SURVEY									
0315	0300	4 3/4		2		DRILL 311mm HOLE									
HELD MEETING WITH CREW ON															
BLOW OUT PROCEDURES & POSITIONS															
DRILLER <i>Jack M. [Signature]</i>															
BOILER HOURS <i>3X8</i>															
METRES DRILLED															
FROM	TO	DR. D. RM-R CORE. C	CORE No.	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min
184	207	23													
DEVIATION RECORD															
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
FROM	TO														
0800	1130	3 1/2		2		DRILL 311mm HOLE. WATER									
1130	1145	1/4		7		RIG SERVICE, CHECK CROWN SAVER, & MOTOR SHUT OFF									
1145	1430	2 3/4		2 3/4		DRILL 311mm HOLE									
1430	1445	1/4		21		B.O.P. DRILL W/CREW									
1445	1530	3/4		2		DRILL 311mm HOLE									
1530	1545	1/4		10		SURVEY @ 204m									
1545	1800	2 1/4		6		ROOM. Lay down D.P.									
1800	1900	1		9		SLIP CUT 36m.									
DRILLER <i>[Signature]</i>															
BOILER HOURS <i>3X12</i>															
METRES DRILLED															
FROM	TO	DR. D. RM-R CORE. C	CORE No.	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min	LINEAR SIZE	STROKES per min
207	217	10													
DEVIATION RECORD															
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
FROM	TO														
2000	2015	1/4		7		RIG SERVICE CHECK CROWN SAVER OK									
2015	2145	1 3/4		6		FINISH R.H.									
2145	2215	1/2		22		BLOW HOLE									
2215	2400	1 3/4		2		DRILL 311mm HOLE									
DRILLER <i>Jack M. [Signature]</i>															
BOILER HOURS <i>3X4</i>															

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE <i>PCZ CANTERATWECOLAR</i>		WELL No. <i>A67</i>	WELL NUMBER	DATE <i>25 11 22</i>
OPERATOR <i>Petro Canada Inc.</i>		CONTRACTOR <i>ATCO/EQUITAK</i>		RIG No. <i>76</i>
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>		
D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD
			STRING No.	PUMP No.
				PUMP MANUFACTURER
				TYPE
				STROKE LENGTH

LEGAL LAND DESCRIPTION

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED
340	261	101	K55	5	64M.	61-5			178	3	
METRES CUT OFF										PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT										817	
CUMULATIVE MEGAJOULES										55612	

TIME DISTRIBUTION - HOURS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	1	BIT	2	TIME		
1	RIG UP AND TEAR DOWN				1	BIT SUB	30	SIZE	311	
2	DRILL ACTUAL	8 1/2	3 1/2		1	STB RMR	4.14	MFG.	H.W.	
3	REAMING				3	D.C. ID	27.60	TYPE	507	
4	CORING				1	STB RMR	5.73	JETS	OPEN	
5	CONDITION MUD & CIRCULATE	1/4			1	D.C. ID	69	SER. No.	88032	
6	TRIPS	1			1	STB RMR	66	DEPTH OUT		
7	LUBRICATE RIG	1/4			5	STB RMR	96.58	DEPTH IN	105	
8	REPAIR RIG				6	STB RMR	96.46	TOTAL METRES DRILLED		
9	CUT OFF DRILLING LINE				1	STB RMR	96.46	TOTAL HRS. RUN		
10	DEVIATION SURVEY	1/4			1	STB RMR	96.46	COND. 1/8" T/B/ GAGE		
11	WIRE LINE LOGS				1	STB RMR	96.46	FLOW RATE m³/min		
12	RUN CASING & CEMENT				1	STB RMR	96.46	PRESSURE DROP kPa		
13	WAIT ON CEMENT				1	STB RMR	96.46	TOTAL	105	
14	NIPPLE UP B.O.P.				1	STB RMR	96.46	(FORCE) WT. OF STRING	31000	
15	TEST B.O.P.				1	STB RMR	96.46			
16	DRILL STEM TEST				1	STB RMR	96.46			
17	PLUG BACK				1	STB RMR	96.46			
18	SQUEEZE CEMENT				1	STB RMR	96.46			
19	FISHING				1	STB RMR	96.46			
20	DIR. WORK				1	STB RMR	96.46			
21	DRY HOLE	2 1/4			1	STB RMR	96.46			
22	WORK ON AIR EQUIP	6 3/4	3 1/4		1	STB RMR	96.46			
23					1	STB RMR	96.46			
COMPLETION					TOTALS					
A. PERF'T'N					8 12 4					
B. TBG TRIPS										
C. TREATING										
D. SWABBING										
E. TESTING										
F. ADDIT'N'L										
G.										
DAY WORK SUMMARY (OFFICE USE ONLY)										
HRS. W/CONTR. D.P.										
HRS. W/OPR. D.P.										
HRS. WO/D.P.										
HRS. STANDBY										
TOTAL DAY WORK										
No. OF DAYS FROM SPUD										
CUMULATIVE ROTATING HRS										
TOTAL MUD COST										

MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		PUMP No.		PUMP No.		METHOD RUN			
FROM	TO	DR. D RM-R CORE C	CORE No.	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. PAPER P. COMD. C
0000	0400	4	23								
0400	0500	1	6								
0500	0515	1/4	5								
0515	0800	2 3/4	23								
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS											
RIG UP AIR DRILL TAIL COURT											
PICK UP SHOCK SUB & RUN IN HOLE											
CIRCULATE MUD											
PUT ON ROTATING HEAD & CLEAN AIR DRILLING LINE OUT											
DRILLER Jack McQuinn											
BOILER HOURS 3x8											
METRES DRILLED											
105	136	31									
FORMATION (SHOW CORE RECOVERY)											
ROTARY RPM 100 1/2											
PUMP PRESS 130 1/2											
LINER SIZE 311											
STROKES per min 12											
METHOD RUN AIR DRILL											
DEVIATION RECORD											
DEPTH 126											
DEV. 1°											
DIRECTION											
BOILER HOURS 3x12											
METRES DRILLED											
136	151	15									
FORMATION (SHOW CORE RECOVERY)											
ROTARY RPM 100 1/2											
PUMP PRESS 130 1/2											
LINER SIZE 311											
STROKES per min 12											
METHOD RUN AIR DRILL											
DEVIATION RECORD											
DEPTH 136											
DEV. 1°											
DIRECTION											
BOILER HOURS 3x4											
METRES DRILLED											
151	166	15									
FORMATION (SHOW CORE RECOVERY)											
ROTARY RPM 100 1/2											
PUMP PRESS 130 1/2											
LINER SIZE 311											
STROKES per min 12											
METHOD RUN AIR DRILL											
DEVIATION RECORD											
DEPTH 151											
DEV. 1°											
DIRECTION											
BOILER HOURS 3x4											
METRES DRILLED											
166	181	15									
FORMATION (SHOW CORE RECOVERY)											
ROTARY RPM 100 1/2											
PUMP PRESS 130 1/2											
LINER SIZE 311											
STROKES per min 12											
METHOD RUN AIR DRILL											
DEVIATION RECORD											
DEPTH 166											
DEV. 1°											
DIRECTION											
BOILER HOURS 3x4											

FORM 378m



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LEGAL LAND DESCRIPTION										WIRE LINE RECORD REEL No. 1			
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED	
	340		SHTC	101	K55	5	14m.			61.5	1 1/2	8	50
											METRES CUT OFF	PRESENT LENGTH	
											50	817	
											MEGAJOULES SINCE LAST CUT	0	
										CUMULATIVE MEGAJOULES	55612		

[illegible][illegible]

METRES DRILLED				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No. 1 LINER SIZE STROKES per min		PUMP No. 2 LINER SIZE STROKES per min		METHOD RUN SGL - PARF - COMD	
FROM	TO	DR. D RM R CORE. C	CORE No																
95	105	10						98	100	8	10					152	46	S	

DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG		ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
1600	2000	4	2	DRILL 3 1/2" HOLE	3.8
2000	2015	1/4	7	Rig SERVICE	
2015	2100	3/4	2	DRILL 3 1/2" HOLE	
2100	2215	1 1/4	6	P.O.O.H W/ BIT # 388	
2215	2400	1 3/4	23	RIG UP AIR DRILLING EQUI.	
		8			

LEASE		WELL No.		WELL NUMBER		DATE	
PCI CANTERRA TWEED LAKE		A67				85 11 2	
OPERATOR		CONTRACTOR				Yr. Mo. Day	
PETRO CANADA INC		ATCO EQUITAK				RIG No.	
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER				76	
D.P. SIZE		kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.	PUMP No.
							PUMP MANUFACTURER
							TYPE
							STROKE LENGTH
							1
							EMSCO
							0-500
							406
							2
							EMSCO
							0-500
							406

LEGAL LAND DESCRIPTION									WIRE LINE RECORD			REEL No.	
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED	
											1 1/8"	8	
											METRES CUT OFF		PRESENT LENGTH
		340		ST+C	101	K-55	5	64		61.5			867
										MEGAJOULES SINCE LAST CUT	4086		
										CUMULATIVE MEGAJOULES	55612		

TIME DISTRIBUTION - HOURS					No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD					MUD RECORD			
CODE No.	OPERATION	MORN.	DAY	EVE.	BIT	m	BIT No.				TIME				
1.	RIG UP AND TEAR DOWN						SIZE				DENSITY kg/m ³				
2.	DRILL ACTUAL				STB RMR	OD	m	MFG.			PRESSURE GRADIENT				
3.	REAMING				D.C. ID	OD	m	TYPE			VISCOSITY				
4.	CORING				STB RMR	OD	m	JETS	mm		PV mPa.s	YP Pa	/	/	
5.	CONDITION MUD & CIRCULATE				D.C. ID	OD	m	SER. No.			GEL STR. Pa		/	/	
6.	TRIPS		1		STB RMR	OD	m	DEPTH OUT			WATER LOSS cm ³				
7.	LUBRICATE RIG		1/4	1/4				DEPTH IN			pH				
8.	REPAIR RIG							TOTAL METRES DRILLED			SOLIDS %				
9.	CUT OFF DRILLING LINE		1 1/2					TOTAL HRS. RUN							
10.	DEVIATION SURVEY				STANDS DP		m	COND 1/8"± T/B / GAGE			MUD & CHEMICALS ADDED				
11.	WIRE LINE LOGS				SINGLES DP		m	FLOW RATE m ³ /min			TYPE	AMT. kg	TYPE	AMT. kg	
12.	RUN CASING & CEMENT				KELLY DOWN		m	PRESSURE DROP kPa							
13.	WAIT ON CEMENT				TOTAL		m								
					(FORCE) WT. OF STRING		daN								

[illegible]

NIPPLE UP B.O.P.		8		234		No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD			
15. TEST B.O.P.						1		BIT	.30 m	BIT No.	3RR	TIME					
16. DRILL STEM TEST						1		RTS	.88	SIZE	311	DENSITY kg/m ³					
17. PLUG BACK						3		STB RMR	27.60 OD	MFG	H.W	PRESSURE GRADIENT					
18. SQUEEZE CEMENT						1		D.C. ID	5.13 OD	TYPE	ID7	VISCOSITY					
19. FISHING						1		STB RMR	X0 OD	JETS	mm	PV mPa.s	YP Pa	/	/		
20. DIR. WORK						1		D.C. ID	X0 OD	SER. No.	99458	GEL STR. Pa		/	/		
21. CEMENT						1		STB RMR	13.5 OD	DEPTH OUT		WATER LOSS cm ³					
22. CEMENT						1				DEPTH IN	65	pH					
23. CEMENT						1				TOTAL METRES DRILLED		SOLIDS %					
COMPLETION						A		PERF'RT'N		TOTAL HRS. RUN		MUD & CHEMICALS ADDED					
COMPLETION						B		TBG TRIPS		COND. 1/8" s T/B/ GAGE		TYPE	AMT. kg	TYPE	AMT. kg		
COMPLETION						C		TREATING		FLOW RATE m ³ /min	/						
COMPLETION						D		SWABBING		PRESSURE DROOP	kPa						
COMPLETION						E		TESTING									
COMPLETION						F		ADDIT'N'L									
COMPLETION						G											
COMPLETION								(FORCE) WT. OF STRING	21000 daN								

METRES DRILLED				FORMATION (SHOW CORE RECOVERY)				(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No. 2 LINER SIZE STROKES per min		PUMP No. 1 LINER SIZE STROKES per min		METHOD RUN SOL. S PART B COMPD			
FROM	TO	DR. D RM. R CORE C	CORE No.					ROTARY RPM											
65								60	3/4			152	40	152					
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								BOILER HOURS					
FROM	TO																		
0800	0815	4		7		Rig SERVICE w/ RESET CROWN SAVER.													
0815	1100	2 3/4		14		Nipple up DIVERTER & Rel. of LINE.													
1100	1230	1 1/2		9		Slip + Cut Drilling line 50m.													
1230	1330	1		6		Run in w/ bit TAG CEMENT @ 44 METRES.													
1330	1630	3		22		KELLY CEMENTED IN CAT HOLE Pull KELLY + Split sock.													
1630	1900	2 1/2		21		DRILL OUT CEMENT & SACK													
1900	2000	1		22		CHANGE KELLY HOSE													
												DRILLER Jack M'Donn							

TOTALS				No.	DRILLING ASSEMBLY (at end of tour)	BIT RECORD				MUD RECORD			
DAY WORK SUMMARY (OFFICE USE ONLY)				1	BIT	30	m	BIT No.	3 RR	TIME			
HRS. W/ CONTR. D.P.				1	STB RMR OD	58	m	SIZE	3 1/4	DENSITY kg/m³			
HRS. W/ OPR. D.P.				3	D.C. ID OD	27.60	m	MFG.	H W	PRESSURE GRADIENT			
HRS. W/ D.P.				1	STB RMR OD	5.93	m	TYPE	T 07	VISCOSITY			
HRS. STANDBY				1	D.C. ID OD	69	m	JETS	mm	PV mPa*s	YP Pa	/	/
				1	STB RMR OD	69	m	SER. No.	99458	GEL STR. Pa		/	/
				1	STB RMR OD	69	m	DEPTH OUT		WATER LOSS cm³			
				1	STB RMR OD	69	m	DEPTH IN	65	pH			
								TOTAL METRES DRILLED		SOLIDS %			
								TOTAL HRS. RUN					
TOTAL DAY-WORK					STANDS DP		m	COND. 1/8"s T/B/ GAGE		MUD & CHEMICALS ADDED			
					SINGLES DP			FLOW RATE m³/min		TYPE	AMT. kg	TYPE	AMT. kg
No. OF DAYS FROM SPUD					KELLY DOWN	6.58	m	PRESSURE DROP kPa		No chemicals added			
CUMULATIVE ROTATING HRS.					TOTAL	52.00	m						
TOTAL MUD COST					(FORCE) WT. OF STRING	23.000	daN						

[illegible]

No.

DAILY DRILLING REPORT REPORT No.

LEASE PETRO CANADA TWEED LAKE A-67		WELL No. A-67		WELL NUMBER		DATE 8/14/97	
OPERATOR PETRO CANADA INC		CONTRACTOR ATCO EQUITAK		RIG No. 76			
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER					
D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER
						1	EMSCO
						2	EMSCO
							TYPE
							STROKE LENGTH
							406
							406

LEGAL LAND DESCRIPTION

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
340		ST+C 101	K-55	5	64			61.5
WIRE LINE RECORD REEL No. 1								
SIZE 1 1/4" No. LINES 8 METRES SLIPPED								
METRES CUT OFF PRESENT LENGTH								
MEGAJOULES SINCE LAST CUT 4086								
CUMULATIVE MEGAJOULES 55612								

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	BIT	BIT No.	SIZE	TIME	
1.	RIG UP AND TEAR DOWN				STB RMR	OD	MFG.	DENSITY kg/m ³	
2.	DRILL ACTUAL				D.C. ID	OD	TYPE	PRESSURE GRADIENT	
3.	REAMING				STB RMR	OD	JETS mm	VISCOSITY	
4.	CORING				D.C. ID	OD	SER. No.	PV mPa*s YP Pa	
5.	CONDITION MUD & CIRCULATE				STB RMR	OD	DEPTH OUT	GEL STR. Pa	
6.	TRIPS						DEPTH IN	WATER LOSS cm ³	
7.	LUBRICATE RIG						TOTAL METRES DRILLED	pH	
8.	REPAIR RIG						TOTAL HRS. RUN	SOLIDS %	
9.	CUT OFF DRILLING LINE				STANDS DP	m	COND. 1/8" T/B/ GAGE	MUD & CHEMICALS ADDED	
10.	DEVIATION SURVEY				SINGLES DP	m	FLOW RATE m ³ /min	TYPE AMT. kg	
11.	WIRE LINE LOGS				KELLY DOWN	m	PRESSURE DROP kPa	TYPE AMT. kg	
12.	RUN CASING & CEMENT				TOTAL	m			
13.	WAIT ON CEMENT				(FORCE) WT. OF STRING	daN			
14.	NIPPLE UP B.O.P.								
15.	TEST B.O.P.								
16.	DRILL STEM TEST								
17.	PLUG BACK								
18.	SQUEEZE CEMENT								
19.	FISHING								
20.	DIR. WORK								
21.	TEAR DOWN STACK								
22.									
23.									
COMPLETION									
A. PERF'RTN									
B. TBG TRIPS									
C. TREATING									
D. SWABBING									
E. TESTING									
F. ADDIT'L									
G.									
TOTALS									
DAY WORK SUMMARY (OFFICE USE ONLY)									
HRS. W/ CONTR. D.P.									
HRS. W/ OPR. D.P.									
HRS. WO D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		DR. D RM-R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN
FROM	TO												
DEVIATION RECORD													
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS							
FROM	TO												
0000	0800	8	13	W.O.C.		3x8							
DRILLER Rick Borge													
METRES DRILLED													
FROM	TO	DR. D RM-R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN
DEVIATION RECORD													
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS							
FROM	TO												
0800	1400	6	13	W.O.C. + Orders. Rig SERVICE Motor Shut Off		3x12							
1400	1700	3	21	CUT CSG. & TEAR DOWN STACK		PUMP 4T CLG							
1700	2000	3	14	WELD ON GGG. BOWL		CMT UNDER MATTING							
DRILLER Jack McQuay													
METRES DRILLED													
FROM	TO	DR. D RM-R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN
DEVIATION RECORD													
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS							
FROM	TO												
2000	2400	4	14	NIPPLE UP DIVERTER SYSTEM		3x4							
DRILLER Rick Borge													
METRES DRILLED													
FROM	TO	DR. D RM-R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN
DEVIATION RECORD													
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS							
FROM	TO												
PUMPED 4T CMT UNDER MATTING													

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OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT REPORT No.

LEASE PCI CANTERRA TWEED LAKE		WELL No. A-67	WELL NUMBER	DATE 56 11 18
OPERATOR PETRO CANADA INC		CONTRACTOR ATCO EQUITAK		
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		
D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD
			STRING No.	PUMP No.
			PUMP MANUFACTURER	TYPE
				STROKE LENGTH

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
METRES CUT OFF								
PRESENT LENGTH								
MEGAJOULES SINCE LAST CUT								
CUMULATIVE MEGAJOULES								

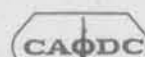
TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE	BIT	BIT No.	TIME	DENSITY kg/m ³	PRESSURE GRADIENT
1	RIG UP AND TEAR DOWN								
2	DRILL ACTUAL								
3	REAMING	2 1/4							
4	CORING								
5	CONDITION MUD & CIRCULATE	1							
6	TRIPS	1							
7	LUBRICATE RIG	1/4	1/4						
8	REPAIR RIG								
9	CUT OFF DRILLING LINE								
10	DEVIATION SURVEY								
11	WIRE LINE LOGS								
12	RUN CASING & CEMENT	3 1/2	2 1/4						
13	WAIT ON CEMENT		9 1/4						
14	NIPPLE UP B.O.P.								
15	TEST B.O.P.								
16	DRILL STEM TEST								
17	PLUG BACK								
18	SQUEEZE CEMENT								
19	FISHING								
20	DIR. WORK								
21									
22									
23									
COMPLETION									
A. PERFORATION									
B. TBG TRIPS									
C. TREATING									
D. SWABBING									
E. TESTING									
F. ADDITIONAL									
G.									
TOTALS				8	12	4			
DAY WORK SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. W/O D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D. RM-R CORE. C	CORE No.	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE
50	65	15		160	1/10	152	40	152	5
DEVIATION RECORD									
TIME LOG									
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
0000	0215	2 1/4	3	REAM 311-444mm					
0215	0230	1/4	7	RIG SER.					
0230	0330	1	5	CIR + COND HOLE					
0330	0430	1	6	PULLOUT + LAYDOWN JARS + HOLE OPENER					
0430	0630	2	12	RIG UP + RUN 340mm CSG.					
0630	0800	1 1/2	12	Full CASING + Rig up Downwell To Cement.					
DRILLER Rick Borge									
METRES DRILLED									
FORMATION (SHOW CORE RECOVERY)									
PUMP No. 1									
PUMP No. 2									
METHOD RUN									
DEVIATION RECORD									
TIME LOG									
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
BOILER HOURS 3X8									
DRILLER Rick Borge									
METRES DRILLED									
FORMATION (SHOW CORE RECOVERY)									
PUMP No. 1									
PUMP No. 2									
METHOD RUN									
DEVIATION RECORD									
TIME LOG									
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
BOILER HOURS 3X12									
DRILLER Jack McQueen									
METRES DRILLED									
FORMATION (SHOW CORE RECOVERY)									
PUMP No. 1									
PUMP No. 2									
METHOD RUN									
DEVIATION RECORD									
TIME LOG									
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
BOILER HOURS 3X4									
DRILLER Rick Borge									



No.

DAILY DRILLING REPORT REPORT No.

LEASE PETRO CANADIA TWEED LAKE		WELL No. A-67	WELL NUMBER	DATE 85 11 17 Yr. Mo. Day					
OPERATOR PETRO CANADIA INC.		CONTRACTOR ATCO EQUITAK							
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Michael P. Smith</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Dave Smith</i>							
D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
						1	EMSCO	O-500	406
						2	EMSCO	O-500	406

LEGAL LAND DESCRIPTION

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE 1 1/8"	No. LINES 8	METRES SLIPPED
LAST CASING TUBING OR LINER										METRES CUT OFF 867	
										PRESENT LENGTH 867	
										MEGAJOULES SINCE LAST CUT 4086	
										CUMULATIVE MEGAJOULES 55612	

TIME DISTRIBUTION - HOURS					No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.			BIT		BIT No.		TIME	
1.	RIG UP AND TEAR DOWN						1.77		2A		1200 0600	
2.	DRILL ACTUAL	2 1/2					1.69		311			
3.	REAMING		6 1/2 3 3/4				1.66		HW			
4.	CORING						1.66		JETS			
5.	CONDITION MUD & CIRCULATE		3 3/4				1.66		99458			
6.	TRIPS	1 1/2					1.66		DEPTH OUT			
7.	LUBRICATE RIG		1/4 1/4				1.66		65			
8.	REPAIR RIG						1.66		41			
9.	CUT OFF DRILLING LINE						1.66		24			
10.	DEVIATION SURVEY	1/4					1.66		8			
11.	WIRE LINE LOGS						1.66		COND. 1/8" T/B. GAGE			
12.	RUN CASING & CEMENT						1.66		22 1			
13.	WAIT ON CEMENT						1.66		FLOW RATE			
14.	NIPPLE UP B.O.P.						1.66		12.42			
15.	TEST B.O.P.						1.66		15.54			
16.	DRILL STEM TEST						1.66		11000			
17.	PLUG BACK						1.66					
18.	SQUEEZE CEMENT						1.66					
19.	FISHING						1.66					
20.	DIR. WORK						1.66					
21.		3 3/4 1 1/2					1.66					
22.							1.66					
23.							1.66					
COMPLETION					No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A. PERF'RTN							1.77		444		1060	
B. TBG TRIPS							1.77		444		1060	
C. TREATING							1.77		444		1060	
D. SWABBING							1.77		444		1060	
E. TESTING							1.77		444		1060	
F. ADDIT'N'L							1.77		444		1060	
G.							1.77		444		1060	
TOTALS					8 12 4							
DAY WORK SUMMARY (OFFICE USE ONLY)												
HRS. W/ CONTR. D.P.												
HRS. W/ OPR. D.P.												
HRS. WO/ D.P.												
HRS. STANDBY												
TOTAL DAY WORK												
No. OF DAYS FROM SPUD												
CUMULATIVE ROTATING HRS.												
TOTAL MUD COST												

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D. RM. B. CORE. C.	Core No.					LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. P. COMD. C.	
57	65	8						152	40	152		5	
DEVIATION RECORD													
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
0000	0015	1/4	10			SURVEY		3x8					
0015	0245	2 1/2	2			DRILL 3 1/2" PILOT HOLE							
0245	0415	1 1/2	6			LAY DOWN BHA + PICK UP 4 1/2" HOLE OPENER							
0415	0800	3 3/4	21			MIX LCM + BUILD VOLUME							
HELD FIRE DAILY @ CAMP 06:45 + 09:00 ALL PERSONAL IN ATTENDANCE HALL													
DRILLER: Red Boyer													
METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D. RM. B. CORE. C.	Core No.					LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. P. COMD. C.	
0	39	39						152	40	152		5	
DEVIATION RECORD													
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
0900	0930	2 1/2	21			BUILD VOLUME WITH WATER		3x12					
0930	0945	1/4	7			RIG SERVICE							
0945	1430	4 3/4	3			REAM 4 1/2" HOLE OPENER							
1430	1815	3 3/4	5			PULL OUT BHA CHECK HOLE OPENER MUD UP							
1815	200	1 3/4	3			REAM BACK TO 39 METERS							
DRILLER: Jack M. M. M.													
METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D. RM. B. CORE. C.	Core No.					LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. P. COMD. C.	
39	50	11						152	40	152		5	
DEVIATION RECORD													
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
2000	2145	1 3/4	3			REAM		3x4					
2145	2200	1/4	7			RIG SER. + CROWN SAVER.							
2200	2400	2	3			REAM 3 1/2" - 4 1/2"							
DRILLER: Red Boyer													

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OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT REPORT No.

LEGAL LAND DESCRIPTION									WIRE LINE RECORD Reel No.				
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE 1 7/8"	No. LINES 5	METRES SLIPPED	
											METRES CUT OFF	PRESENT LENGTH 867	
											MEGAJOULES SINCE LAST CUT	4086	
											CUMULATIVE MEGAJOULES	55612	

METRES DRILLED				FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1		PUMP No.		METHOD RUN																																																				
FROM	TO	DR. D RM-R CORE. C	CORE No.						LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SOL. S PART. P COMD. C																																																				
15	27	12				3/10 3/5		152	50	152			5																																																				
<table border="1"> <thead> <tr> <th colspan="2">DEVIATION RECORD</th> <th>DEPTH</th> <th>DEV.</th> <th>DIRECTION</th> <th>DEPTH</th> <th>DEV.</th> <th>DIRECTION</th> <th>DEPTH</th> <th>DEV.</th> <th>DIRECTION</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td>23</td> <td>1°</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>														DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION			23	1°																																					
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TIME LOG				ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS																																																										
FROM	TO																																																																
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METRES DRILLED		DR. D RM-R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE STROKES per min		PUMP No. LINER SIZE STROKES per min		METHOD RUN
FROM	TO												SGL. S PAPEL P COMD.
27	31			9" Jars #1267		80/160	3/8	N3H	152	60			
DEVIATION RECORD		DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
TIME LOG		ELAPSED TIME	CORE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					BOILER HOURS				
FROM	TO								3X12				
0800	0900	1	2	DRILL 311mm PILOT HOLE									
0900	1430	5 1/2	21	STUCK IN HOLE									
1430	1530	1	5	CONDITION MUD & CIRCULATE									
1530	1845	3 1/4	2	DRILL 311mm PILOT HOLE FOR CONDUCTOR									
1845	1915	1/2	22	PICK UP JARS									
1915	2000	3/4	2	DRILL 311mm PILOT HOLE									
									Tack M. One				

[illegible]

No.

DAILY DRILLING REPORT REPORT No.

LEASE PCT. CANTERBURY TWEED LAKE		WELL No. A-67	WELL NUMBER	DATE 85. 11. 14					
OPERATOR PETRO CANADA INC.		CONTRACTOR ATCO EQUITAK							
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Michael Kuchik</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Dane Lench</i>							
D.P. SIZE	kg/m	GRADE	TOOL JT. O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
						1	AMT 1/2 EMSCO	D-500	406
						2	AMT 1/4 EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED
									METRES CUT OFF		PRESENT LENGTH
MEGAJOULES SINCE LAST CUT											
CUMULATIVE MEGAJOULES											

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	MORN.	DAY	EVE.	BIT	BIT No.	TIME	DENSITY kg/m ³	PRESSURE GRADIENT
1.	RIG UP AND TEAR DOWN								
2.	DRILL ACTUAL				STB RMR OD	m MFG.			
3.	REAMING				D.C. ID OD	m TYPE			
4.	CORING				STB RMR OD	m JETS mm			
5.	CONDITION MUD & CIRCULATE				D.C. ID OD	m SER. No.			
6.	TRIPS				STB RMR OD	m DEPTH OUT			
7.	LUBRICATE RIG	1/4	1/4	1/4		DEPTH IN			
8.	REPAIR RIG					TOTAL METRES DRILLED			
9.	CUT OFF DRILLING LINE					TOTAL HRS. RUN			
10.	DEVIATION SURVEY				STANDS DP	m COND. 1/8's T/B/ GAGE			
11.	WIRE LINE LOGS				SINGLES DP	m FLOW RATE m ³ /min			
12.	RUN CASING & CEMENT				KELLY DOWN	m PRESSURE DROP kPa			
13.	WAIT ON CEMENT				TOTAL	m			
14.	NIPPLE UP B.O.P.				(FORCE) WT. OF STRING	daN			
15.	TEST B.O.P.								
16.	DRILL STEM TEST								
17.	PLUG BACK								
18.	SQUEEZE CEMENT								
19.	FISHING								
20.	DIR. WORK								
21.	DRILL MUD HOLE	1/4	1/4	1/4					
22.	DRILL UP 9" D.C.								
23.									
COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
				BIT		BIT No.	TIME	DENSITY kg/m ³	PRESSURE GRADIENT
				STB RMR OD		m MFG.			
				D.C. ID OD		m TYPE			
				STB RMR OD		m JETS mm			
				D.C. ID OD		m SER. No.			
				STB RMR OD		m DEPTH OUT			
						DEPTH IN			
						TOTAL METRES DRILLED			
						TOTAL HRS. RUN			
				STANDS DP		m COND. 1/8's T/B/ GAGE			
				SINGLES DP		m FLOW RATE m ³ /min			
				KELLY DOWN		m PRESSURE DROP kPa			
				TOTAL		m			
				(FORCE) WT. OF STRING		daN			
TOTALS				8 12 4					
DAY WORK SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. W/O D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

MORNING TOUR

DAY TOUR

EVENING TOUR

METRES DRILLED		DR. D. RM-R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1	PUMP No. 2	METHOD RUN		
FROM	TO								LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. P. COMD. C
DEVIATION RECORD													
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					BOILER HOURS				
FROM	TO												
0000	0600	6	21	PILOT RAT HOLE 216 mm					3x8				
0600	0845	134	21	REAMOUT MOUSE HOLE + RAT HOLE TO 311 mm									
0745	2800	1407	7	RIG SERVICE									
DRILLER <i>Rick Boyer</i>													
METRES DRILLED		DR. D. RM-R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1	PUMP No. 2	METHOD RUN		
FROM	TO								LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. P. COMD. C
DEVIATION RECORD													
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					BOILER HOURS				
FROM	TO												
0800	0815	14		RIG SERVICE					3x12				
0815	200	1134		REAMOUT MOUSE HOLE + RAT HOLE TO 245 mm									
DRILLER <i>Jack McQuay</i>													
METRES DRILLED		DR. D. RM-R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1	PUMP No. 2	METHOD RUN		
FROM	TO								LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. P. COMD. C
DEVIATION RECORD													
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					BOILER HOURS				
FROM	TO												
2000	2015	14	7	RIG SER					3x4				
2015	2200	134	21	REAM OUT RAT HOLE TO 245 mm									
2200	2400	2	22	RIG UP + DRILL 311mm SURFACE HOLE									
DRILLER <i>Rick Boyer</i>													

FORM 376m

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OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT REPORT No.

LEGAL LAND DESCRIPTION										WIRE LINE RECORD REEL No.			
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED	
											METRES CUT OFF		PRESENT LENGTH
											MEGAJOULES SINCE LAST CUT		
											CUMULATIVE MEGAJOULES		

METRES DRILLED		DR. D RM. R CORE. C	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No.		PUMP No.		METHOD RUN
FROM	TO		CORE No.					LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
0	1	1										
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS 3 x 8				
FROM	TO											
0500	0500	5	1	RIG UP + MIX MUD								
0500	0600	1	2	SPUD w/311mm Bit.								
0600	0800	11-28		LOST CIRCULATION MIX MUD.								
		at										
	08	11-28										
								DRILLER <i>Phil Brown</i>				

METRES DRILLED		DR. D RM-R CORE. C	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1		PUMP No.		METHOD RUN
FROM	TO		CORE No.					LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
1	15	14						152				
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
TIME LOG		ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS							
FROM	TO											
0800	1000	2	5	LOST CIRCULATION MAX MUD	3X12							
1000	1330	3 1/2	2	DRILL 311mm HOLE								
1330	1345	1/4	7	R/L SERVICE								
1345	1845	5	21	DRILL MOUSE HOLE 311mm								
1845	2000	1 1/4	21	PILOT MOUSE HOLE & RAT HOLE 216mm								
					DRILLER Jack McQuinn							

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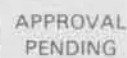
DAILY DRILLING REPORT REPORT No.

LEGAL LAND DESCRIPTION									WIRE LINE RECORD REEL No.			
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED
										METRES CUT OFF		PRESENT LENGTH
										MEGAJOULES SINCE LAST CUT		
										CUMULATIVE MEGAJOULES		

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DAILY DRILLING REPORT REPORT No.

FORM 3T6m

OFFICIAL DAILY DRILLING REPORT FORM

L No.	WELL NUMBER
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61	
	CONTRACTOR

85-11-12

to

85-11-30

RS