No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
P.C.I. ETAL TWEED LAKE	M-47		85 02 24

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA INC.	ATCO EQUITAK	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Michael Pavlick	Dave Jonick

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.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN	8	7	1½
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.	W.O. WELL HEAD	2½		
22.	INSTALL WELL HEAD	2½	2½	
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour) — No.

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR.EL P COM.D.C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3X8

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0800	8	1	TEAR OUT MUD TANKS & DRAIN PUMPS

DRILLER Jack McQueen

DAY TOUR

DRILLING ASSEMBLY (at end of tour) — No.

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR.EL P COM.D.C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3X12

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1200	4	1	CLEAN MUD TANKS & WAIT ON WELL HEAD
1200	1500	3	1	TEAR OUT B.O.P.'S
1500	1730	2½	21	WAIT ON WELL HEAD
1730	2000	2½	22	INSTALL WELL HEAD
		12		
				RIG RELEASED @ 16:00 HRS 85-02-24
				Michael Pavlick

DRILLER Bruce Lebert

EVENING TOUR

DRILLING ASSEMBLY (at end of tour) — No.

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR.EL P COM.D.C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3X4

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2230	2½	22	Nipple up Well Head
2230	2400	1½	1	Lay Down Kelly & Swivel Tear Out Floor.

DRILLER Jack McQueen

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
PCI ET AL TWEED LAKE	M-47		85 2 13
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA INC.		ATCO EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Pinhak		Dave Lanck	

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	150	X14	1	1	EMSCO	D-500	406
						2	EMSCO	D-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
	245	224.5		60	L-80	38	760	6.21	760
	245	222.7		65	80-85	21		6.21	
				101	K-55	5	63.97	6.21	64

SIZE	No. LINES	METRES SLIPPED
7/8	8	

METRES CUT OFF | PRESENT LENGTH 767

MEGAJOULES SINCE LAST CUT 5040 1

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL			
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE	1/2		
6.	TRIPS	6		
7.	LUBRICATE RIG		1/4	
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY			
11.	WIRE LINE LOGS			
12.	RUN CASING & CEMENT		9 1/4	2 1/2
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.	RUN CASING STRING AFE	1 1/2		
22.	CASING CUT SLIPS		2 1/2	
23.			1 1/2	
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour) No.

BIT m

STB RMR OD m

D.C. ID OD m

STB RMR OD m

D.C. ID OD m

STB RMR OD m

STANDS DP m

SINGLES DP m

KELLY DOWN m

TOTAL m

(FORCE) WT. OF STRING daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min	/	/	/
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR EL P COM'D C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00 00	00 30	1/2	5	CIRCULATE & CONDITION HOLE
00 30	04 30	4	6	PUMP PILL BLOW & BREAK KELLY DOWN & LAY DOWN PIPE
0430	0630	2	6	LAY DOWN COLLARS & SHOCK SUB
0630	08 00	1 1/2	21	RIG TO RUN CASING
				Ran 44 jts 1709 m N80 W Float Shoe @ 1418m FC @ 1408m
				Ran 10 jts 178.4m 50095 178mm 43kg/m 8rd LT&C Jack McCann

BOILER HOURS 3 X 8

DRILLER

DRILLING ASSEMBLY (at end of tour) No.

BIT m

STB RMR OD m

D.C. ID OD m

STB RMR OD m

D.C. ID OD m

STB RMR OD m

STANDS DP m

SINGLES DP m

KELLY DOWN m

TOTAL m

(FORCE) WT. OF STRING daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min	/	/	/
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR EL P COM'D C
1420	T.D.			2704 m N80 W 178mm 43kg/m 8rd LT&C								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0815	1/4	7	Rig Service - Annular
0815	1045	2 1/2	12	Run 177.8mm Casing.
1045	1230	1 1/4	12	Wait on Centralizers & Run Casing
1230	1630	4	12	Run 177.8mm Casing
1630	1900	2 1/2	22	Circulate Casing
1900	2000	1	12	Drop Plug & Cement w/Dowell
		12		

BOILER HOURS 3 X 12

DRILLER Brian Tichoski

DAY TOUR

DRILLING ASSEMBLY (at end of tour) No.

BIT m

STB RMR OD m

D.C. ID OD m

STB RMR OD m

D.C. ID OD m

STB RMR OD m

STANDS DP m

SINGLES DP m

KELLY DOWN m

TOTAL m

(FORCE) WT. OF STRING daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min	/	/	/
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
CaCl	35 x 5		

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 SGL. S PAR EL P COM'D C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	1030	2 1/2	12	Cementing w/Dowell
1030	2200	1 1/2	23	SET SLIPS
				Dowell - Cement w/ 2m³ H2O Preflush F/W 3m³ Light Slurry
				& 4.8 Tonne OW "G" Neat @ 1890 Kg/m³ F/W 1 Tonne
				OW "G" Neat Mix w/ 2.5% FoCus Water @ 1890 Kg/m³
				Displaced w/ 24.3 Drill Mud Plug Not Bumped

BOILER HOURS 3 X 4

DRILLER

EVENING TOUR

TOTAL DAY WORK			
No. OF DAYS FROM SPUD			
CUMULATIVE ROTATING HRS.			
TOTAL MUD COST			

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
PCI ET AL TWIN LAKE	M-47		85 2 22 Yr. Mo. Day
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA INC		ATCO EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Pushak		Doug Lemay Dave Lanek	

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
1 1/4	24.7	E	150	XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-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
	245	224.5		60	K-80	38	760	6.21	760
	245	222.9		65	S-95	21		6.21	
	340	315		101	K-55	5	63.97	6.21	64

SIZE 1 1/8 | No. LINES 8 | METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH 767

MEGAJOULES SINCE LAST CUT 5040

CUMULATIVE MEGAJOULES 39067

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL			
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			3½
6.	TRIPS		5	2½
7.	LUBRICATE RIG			½
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	8		
17.	PLUG BACK			
18.	SQUEEZE CEMENT			
19.	FISHING			
20.	DIR. WORK			
21.	SERVICE TOOL		3	1½
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

No. 1 DRILLING ASSEMBLY (at end of tour) — TEST TOOL

BIT	POS	.30 m
	XO	.30
STB RMR Rec. OD		1.38 m
D.C. Hydr. Tool ID OD		1.50 m
STB RMR Sampler OD		1.03 m
D.C. Sampler ID OD		1.03 m
STB RMR Rec. OD		1.38 m
JARS		2.19
SAFETY JT		.68
PUMP		2.28
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

2 BIT RECORD — TEST TOOL

BIT No.	SCREEN		1.16
SIZE	PACKER		1.78
MFG.	PACKER		.82
TYPE	PORT SUB		.30
JETS mm	RECORDERS		2.04
SER. No.	SPACING		3.33
DEPTH OUT	PACKER		2.40
DEPTH IN	PERF		1.32
TOTAL METRES DRILLED	RECORDER		1.82
TOTAL HRS. RUN	Belly Spring		2.00
COND. T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

MORNING TOUR

No. DRILLING ASSEMBLY (at end of tour)

BIT	m
STB RMR OD	m
D.C. ID OD	m
STB RMR OD	m
D.C. ID OD	m
STB RMR OD	m
STANDS DP	m
SINGLES DP	m
KELLY DOWN	m
TOTAL	m
(FORCE) WT. OF STRING	daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DAY TOUR

No. DRILLING ASSEMBLY (at end of tour)

1	BIT	.20 m
1	Bit Sub.	.80
9	STB RMR 71 OD	37.74 m
1	D.C. JARS ID	4.36 m
5	STB RMR 71 OD	141.59 m
1	D.C. 5½ ID	.77 m
	STB RMR OD	m
	BHA.	185.54
42	STANDS DP	1223.45 m
3	SINGLES DP	m
	KELLY DOWN	11.01 m
	TOTAL	1420 m
	(FORCE) WT. OF STRING	80,000. daN

BIT RECORD

BIT No.			
SIZE	216		
MFG.	H.W.		
TYPE	J-22		
JETS mm	3 X 20		
SER. No.	89209.		
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME	20:30	23:00	
DENSITY kg/m³	270	1270	
PRESSURE GRADIENT			
VISCOSITY	57	56	
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	14	14.5	
pH	10	10	
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	5		
GARITE	25		

EVENING TOUR

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 SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0800	8	16	OST #5 W/ 4 PACKERS + OTIS. ATT CLARKE FORMATION 1209-1216.5 INITIATE STRADDLE

BOILER HOURS 3X8

DRILLER Rick Boese

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 SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1300	5	6	UNSEAT PACKERS + HOIST OST #5 (TIGHT)
1300	1600	3	21	SERVICE TEST TOOL. RECOVER 35m GAS CUT DRILLING MUD.

BOILER HOURS 3X8

DRILLER Jack McClay

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 SGL.-S PAR'EL-P COM'D-C
1420 TD.												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1600	1730	1½	21	SERVICE + LAYDOWN TEST TOOLS.
1730	1745	¼	7	Rig SERVICE - BLIND RAMS.
1745	2015	2½	6	RUN IN W/CLEAN OUT TRIP.
2015	2400	3¾	5	CIRCULATE Cond hole + MUD FOR CASING.

BOILER HOURS

DRILLER Brian Lidbeck

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
PCI ET AL TWEED LAKE	11-49		85 2 24

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA INC	ATCO EQUITIES	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Michael Kinhak	

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.7	E	150	XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-750	406
2		D-500	406

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	244.5	224.5		60	J-55	38	760	6.21	760
	244.5	222.9		65	K-55	21		6.21	
	340	315		101	K-55	5	63.97	6.21	64

WIRE LINE RECORD REEL No. 1

SIZE	No. LINES	METRES SLIPPED
7/8"	8	

METRES CUT OFF PRESENT LENGTH

MEGAJOULES SINCE LAST CUT 3580 / 5040

CUMULATIVE MEGAJOULES 35607 / 39067

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL			
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE	1/2	3	
6.	TRIPS	2 1/4	3 1/2	
7.	LUBRICATE RIG	1/4		
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		3 1/4	4
17.	PLUG BACK			
18.	SQUEEZE CEMENT			
19.	FISHING			
20.	DIR. WORK			
21.	R. TOOL	2 1/2	1 1/4	
22.	WORK CLR HEAD UP RAM	1		
23.	Inflate Packers		1	
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

No. 1 — DRILLING ASSEMBLY (at end of tour)

BIT		.20	m
1	BIT SUB	.88	
STB RMR	OD		m
4	D.C. ID 171 OD	37.74	m
1	STB RMR SARS OD	4.36	m
15	D.C. ID 171 OD	141.54	m
1	STB RMR XO OD	.77	m
	BHA	185.54	
12	STANDS DP	1223.45	m
2	SINGLES DP		m
	KELLY DOWN	11.01	m
	TOTAL	1420.00	m
(FORCE) WT. OF STRING		81,000	daN

BIT RECORD

BIT No.		
SIZE	216	
MFG.	H-W	
TYPE	J-22	
JETS mm	3x15.9	
SER. No.	89209	
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
CAUSTIC	1/2		
DEFOAMER	1 GT.		

MORNING TOUR

No. 2 — DRILLING ASSEMBLY (at end of tour)

BIT	HS, C/O, LEC.	1.98	m
	Hydraulic Tool	1.50	
	Sampler	1.08	
STB RMR	Sampler OD	1.03	m
D.C. ID	LEC. SARS OD	2.19	m
STB RMR	Hydraulic OD	2.38	m
D.C. ID	PACKER OD	1.50	m
STB RMR	SAFETY JT OD	1.88	m
	Secondary	.30	
	Spacing	1.06	
	Packer	3.33	
		1.50	
STANDS DP			m
SINGLES DP			m
KELLY DOWN			m
TOTAL			m
(FORCE) WT. OF STRING			daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DAY TOUR

No. 3 — DRILLING ASSEMBLY (at end of tour)

BIT	XO Rec	1.95	m
	HD Tool	1.50	
	Sampler	1.03	
STB RMR	OD	1.03	m
D.C. ID	OD	2.19	m
STB RMR	OD	2.33	m
D.C. ID	OD	1.78	m
STB RMR	OD	.30	m
	Recorder	2.06	
	Packer	3.48	
	Packer	1.52	
	Rec	1.52	
STANDS DP		2.00	m
SINGLES DP			m
KELLY DOWN			m
TOTAL			m
(FORCE) WT. OF STRING			daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

EVENING TOUR

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 SGL..S PAR'EL P COM'D C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x5

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0100	1	22	REVERSE CIRC OUT CONDENSATE
0100	0145	3/4	6	FINISH HOISTING DST #4
0145	0415	2 1/2	21	RECOVER RECORDERS & LAYDOWN TOOL + SERVICE SAME
0415	0430	1/4	7	RIG SERV + BLIND+PIPE RAMS.
0430	0630	2	6	RUN IN w/ BIT
0630	0800	1 1/2	5	CIRC & COND HOLE

DRILLER Rick Berry

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.2 LINER SIZE	PUMP No.2 STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL..S PAR'EL P COM'D C
1420 T.D.							4800	152	406			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x12

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1100	3	5	CIRCULATE CONDITION MUD + HOLE.
1100	1300	2	6	HOIST FOR DST #5
1300	1445	1 1/4	21	MAKE UP D.S.T #5 1209m TO 1216.5m
1445	1615	1 1/2	6	RUN IN w/ TEST. "MT CLARK"
1615	1715	1	23	HEAD UP & INFLATE PACKERS. 1209 - 1216.5 MT. CLARKE.
1715	2000	2 3/4	16	TESTING w/ LINES.

DRILLER Dave Finck

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 SGL..S PAR'EL P COM'D C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x4

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2400	4	16	TESTING w/ LINES + DT #5 MT CLARKE FORMATION 1209-1216.5 INFLATE STRADDLE

DRILLER Rick Berry

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
PCI ET AL TWEED LAKE	M-HT		85 2 20 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA INC	ATCO EQUITAK	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Michael Puchut	Doug Young

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.7	E	150	XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	245	224.5		60	L-80	38	760	6.21	760
	245	222.9		65	S00-95	21		6.21	
	340	315		101	K-55	5	63.97	6.21	64

WIRE LINE RECORD

SIZE	No. LINES	METRES SLIPPED
1 1/4	9	

METRES CUT OFF | PRESENT LENGTH 967

MEGAJOULES SINCE LAST CUT 3219

CUMULATIVE MEGAJOULES 37246

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL			
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			1
6.	TRIPS		1	9
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	8	11	
17.	PLUG BACK			
18.	SQUEEZE CEMENT			
19.	FISHING			
20.	DIR. WORK			
21.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

No. 1 — DRILLING ASSEMBLY (at end of tour)

BIT	FPS, XO, Rec	m
	Hyd Tool, SAM, SAM	
STB RMR OD	Rec SAFETY ST	m
D.C. ID OD	Pump, Screen PAKER	m
STB RMR OD	PACKER, PORTSUB Rec	m
D.C. ID OD	SPACERS, XO DC, XO	m
STB RMR OD	PACKER PACKER	m
PERFF		
Rec		
Bell SPRING		
STANDS DP	TOTAL.	m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD (Test Tool / Test Tool)

BIT No.	1.98	
SIZE	3.56	
MFG.	4.22	
TYPE	5.22	
JETS mm	3.18	
SER. No.	11.41	
DEPTH OUT	3.419	
DEPTH IN	1.50	
TOTAL METRES DRILLED	1.82	
TOTAL HRS. RUN	2.00	
COND. 1/8's T/B/ GAGE	37.29	
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

No. 2 — DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DAY TOUR

No. 3 — DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

EVENING TOUR

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 SGL..S PAR'EL..P COM'D..C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION (×3)

TIME LOG: FROM | TO | ELAPSED TIME | CODE No. | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS | BOILER HOURS

MORNING TOUR

METRES DRILLED FROM	TO	CORE No.	FORMATION	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN
0000	0800	8	16	DST #4 W/LYNES + OTIS.							
			1221m TO 1236m MT CLARK								
			INFLATE STRADDLE								

DEVIATION RECORD: DEPTH | DEV. | DIRECTION (×3) — BOILER HOURS 3x8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0800	8	16	DST #4 W/LYNES + OTIS.
				1221m TO 1236m MT CLARK
				INFLATE STRADDLE

DRILLER Rick Boyer

METRES DRILLED FROM	TO	CORE No.	FORMATION	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN
1220 T.D.											

DEVIATION RECORD: DEPTH | DEV. | DIRECTION (×3) — BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1900	11	16	D.S.T #4 W/LYNES + OTIS.
1900	2000	1	6	UNSEAT PACKERS + HOIST D.ST # 4

DRILLER Dave Finck

EVENING TOUR

METRES DRILLED FROM	TO	CORE No.	FORMATION	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION (×3) — BOILER HOURS 3K4

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2300	3	6	HOIST DST #4
2300	2400	1	5	Rig up To Reverse Circ - Condensate @ 170m

DRILLER Rick Boyer

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
PCI ET AL TWIN LAKE	11-41		85 2 14
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA INC		ATCO EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Pinchuk		Doug Kennedy	

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	150	XH	1	1	EMSCO	D-500	406
						2	"	D-500	406

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
	244.5	224.5		60	K-80	38	760	6.21	760
	244.5	222.9		65	Soo-95	21		6.21	
	340	315.3		101	K-55	5	63.97	6.21	64

SIZE	No. LINES	METRES SLIPPED
1 3/8"	8	

METRES CUT OFF PRESENT LENGTH 467

MEGAJOULES SINCE LAST CUT 2319 / 3219

CUMULATIVE MEGAJOULES 36346 / 37246

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL			
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE	8	2	
6.	TRIPS		4	
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			4
17.	PLUG BACK			
18.	SQUEEZE CEMENT			
19.	FISHING			
20.	DIR. WORK			
21.	Handle Tools		3	
22.	Initiate Packers		1/2	
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
TOTALS		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	

DRILLING ASSEMBLY (at end of tour) — BIT RECORD — MUD RECORD

No.	DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
1	BIT	.29 m	BIT No.		TIME	0230
1	BIT SUB	.88	SIZE		DENSITY kg/m³	1265
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
4	D.C. ID 171 OD	37.74 m	TYPE		VISCOSITY	67
1	STB RMR SARS OD	4.36 m	JETS mm		PV YP mPa•s Pa	/ /
15	D.C. ID 171 OD	141.59 m	SER. No.		GEL STR. Pa	/ /
1	STB RMR OD	.77 m	DEPTH OUT		WATER LOSS cm³	12.2
			DEPTH IN		pH	10.5
			TOTAL METRES DRILLED		SOLIDS %	CIRC.
	BHA	185.54 m	TOTAL HRS. RUN			
47	STANDS DP	1223.45 m	COND 1/8's T/B/ GAGE		MUD & CHEMICALS ADDED	
2	SINGLES DP	m	FLOW RATE m³/min	/	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	11.01 m	PRESSURE DROP kPa		CAUSTIC 1	
	TOTAL	1420 m			WHITE X'L	
	(FORCE) WT. OF STRING	74,000 daN			SALT 10	
					BARITE 28	

MORNING TOUR

No.	DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
	BIT TEST TOOLS	m	BIT No.		TIME	0800
			SIZE		DENSITY kg/m³	1270
	STB RMR OD	m	MFG		PRESSURE GRADIENT	
3	D.C. ID OD	86.11 m	TYPE		VISCOSITY	56
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	12.5
			DEPTH IN		pH	10.5
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
39	STANDS DP	1128.63 m	COND. 1/8's T/B/ GAGE		MUD & CHEMICALS ADDED	
1	SINGLES DP	m	FLOW RATE m³/min	/	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa		CAUSTIC 1SK	
	TOTAL	m				
	(FORCE) WT. OF STRING	48,100 daN				

DAY TOUR

No.	DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			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		FLOW RATE m³/min	/	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

EVENING TOUR

METRES DRILLED — FORMATION (SHOW CORE RECOVERY)

FROM	TO	DR. D RM-R CORE..C	CORE No.	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 SGL..S PAR'EL..P COM'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0800	8	5	CIRC + W.O.ROTARYS

DRILLER Rick Bourgeois

METRES DRILLED — FORMATION (SHOW CORE RECOVERY)

FROM	TO	DR. D RM-R CORE..C	CORE No.	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 SGL..S PAR'EL..P COM'D..C
1420											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1000	2	5	CIRCULATE - W.O.O.
1000	1215	2¼	6	HOIST FOR DST #4
1215	1430	2¼	21	PICK up & MAKE up TEST TOOLS.
1430	1615	1¾	6	RUN IN w/DST. #4 1221m - 1736m MT CLARK
1615	1645	¾	21	HEAD up TEST TOOLS. DUAL SAMPLERS
1645	1715	½	22	INFLATE PACKERS. 4-K-3 RECORDERS 1-OTIS
1715	2000	2¾	16	TESTING w/LYNES.

DRILLER Dave Lunde

METRES DRILLED — FORMATION (SHOW CORE RECOVERY)

FROM	TO	DR. D RM-R CORE..C	CORE No.	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 SGL..S PAR'EL..P COM'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x7

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2400	4	16	DST #4 w/ LYNES + OTIS

DRILLER Rick Bourgeois

FORM 3T6m

APPROVAL PENDING

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT • REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
PI ETAL TWEED LAKE	11-47		85 2 18 Yr. Mo. Day
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA INC		ATCO EQUIP	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Perhak			

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
1/H	24.70	E	150	XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2		"	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1

SIZE 9 5/8 | No. LINES 8 | METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH 767

MEGAJOULES SINCE LAST CUT 1119 / 2319

CUMULATIVE MEGAJOULES 35146 / 36346

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	245	224.5		60	K-80	38	760	6.21	760
	245	222.9		65	K-80	21		6.21	
	340	315.3		101	K55	5	63.97	6.21	64

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL			
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			1/4
6.	TRIPS	1 1/2	3 1/2	1
7.	LUBRICATE RIG			1/4
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.	1/2		
16.	DRILL STEM TEST	2	6 1/2	
17.	PLUG BACK			
18.	SQUEEZE CEMENT			
19.	FISHING			
20.	DIR. WORK			
21.	BAK'L OST	3	2	
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
TOTALS		5	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			

DRILLING ASSEMBLY (at end of tour) — BIT RECORD — MUD RECORD

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD			
	BIT	m	BIT No.			TIME			
			SIZE			DENSITY kg/m³			
	STB RMR OD	m	MFG.			PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE			VISCOSITY			
	STB RMR OD	m	JETS mm			PV YP mPa*s Pa	/	/	/
	D.C. ID OD	m	SER. No.			GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT			WATER LOSS cm³			
			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 m³/min	/	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa			Magcons	1/BAG		
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

MORNING TOUR

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 SGL..S PAR'EL..P COM'D..C

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00				RUN TEST PLUG & TEST HYDRIL PIPE RAMS &
	01:30		15	BLIND RAMS 5MPa LOW & 12MPa HIGH OK 5MIN
0130	0430	3	21	MAKE UP DST #3
0430	0600	1 1/2	6	STRAP IN W/ DST #3 LYNES INFLATE STRADDLE
0600	0730	1 1/2	16	HEAD UP + RUMP PACKERS. 1155m TO 1170m MT CAR
0730	0800	1/2	16	DST #3 W/ LYNES. DUAL SAMPLERS 4-K-3
	RELOKER		+1	DMR @ 5MIN WEAK BLOW BUILDING
15.1	120 MIN	FF	60	FSI 180m 10m MUD RECOVERED.

BOILER HOURS 3 x 8

DRILLER Rick Bergen

DAY TOUR

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 SGL..S PAR'EL..P COM'D..C
1420 T.D												

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1430	6 1/2	21	D.S.T. #3 W/ LYNES.
1430	1700	2 1/2	6	UNSEAT PACKERS & REVERSE DST. (CHANGE OUT)
1700	1700	2	21	RECOVER RECORDERS. ROAD SAMP. LAY DOWN TEST TOOLS.
1700	2000	1		RUN IN W/ CLEAN OUT TRIP

BOILER HOURS 3 x 12

DRILLER Dave Funk

EVENING TOUR

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 SGL..S PAR'EL..P COM'D..C

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
20.00	2100	1	6	RUN IN W/BIT
2100	2115	1/4	7	R & SCR & BRW
2115	2400	2 3/4	5	CIRC + WAIT ON ORDERS.

BOILER HOURS 3 x 4

DRILLER Rick Bergen

FORM 3T6m

APPROVAL PENDING

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
PCI ET AL TWEED LAKE	M-47		85 2 17 (Yr. Mo. Day)
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA INC		ATCO / EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Pochan			

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.7	E	150	XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1

SIZE	No. LINES	METRES SLIPPED
7/8	8	30

METRES CUT OFF 30 PRESENT LENGTH 997 / 967

MEGAJOULES SINCE LAST CUT 1405 / 1119

CUMULATIVE MEGAJOULES 34027 / 35146

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
245	224.5		60	L 80	38	760	6.21	760
245	222.9		65	L80 95	21			
340	315.3		101	K-55	5	63.97	6.21	64

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL			
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE		3/4	1 1/4
6.	TRIPS		6 3/4	2
7.	LUBRICATE RIG			1/4
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE		1	
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	8	3 1/2	
17.	PLUG BACK			
18.	SQUEEZE CEMENT			
19.	FISHING			
20.	DIR. WORK			
21.	HANDLE TOOLS.		1	
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR'EL P COM'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0800	8	16	OST #2 w/ LYNES 210
				IF - 5 MIN IST - 90 MIN FF 30 MIN FST - 600 MIN
				CHANGED OIL IN # 1 & 2 FLOOR MOTORS.
				NO OVERPULL REQUIRED TO UNSEAT PACKERS.
				#2 1188m - 1199m MT. CAP FORMATION
				INFLATE STRADDLE DUAL SAMPLERS 4 RECORDERS
				K-3 1 X 8 MR 35m DRILL MUD RECLAIMED

BOILER HOURS 3x8

DRILLER Rick Borg

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	120	m
1	Bit Sub	.88	m
4	D.C. 171 ID OD	37.24	m
1	STB RMR 172 OD	4.36	m
15	D.C. 171 ID OD	141.53	m
1	STB RMR 170 OD	4.77	m
	BHA.	185.54	
12	STANDS DP	1033.45	m
2	SINGLES DP		m
	KELLY DOWN	11.01	m
	TOTAL	1420	m
	(FORCE) WT. OF STRING	74,000	daN

BIT RECORD

BIT No.	
SIZE	216
MFG.	NW
TYPE	J-22
JETS mm	3 X 12
SER. No.	89209
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	425K		
GATTA	25SK.		
HI-ZAN	25K.		
CAUSTIC	1 SK.		

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 SGL..S PAR'EL P COM'D..C
1420 TD												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1030	2 1/2	16	D.S.T. #2 w/ LYNES.
1030	1500	4 1/2	6	HOIST D.S.T. #2
1500	1600	1	21	LAY DOWN TEST TOOLS.
1600	1700	1	6	RUN IN CLEAN OUT TRIP.
1700	1800	1	9	SLIP & CUT 30m DRILLING LINE.
1800	1915	1 1/4	6	RUN IN
1915	2000	3/4	5	CIRCULATE.

BOILER HOURS

DRILLER Dave Lynch

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING	74,000	daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR'EL P COM'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2145	1 3/4	5	CIRC + COND HOLE
2145	2200	1/4	7	Rig SER + ∫ Pipe RAMS
2200	2400	2	6	PUMP PILL + PULL OUT

BOILER HOURS 3x4

DRILLER Rick Borg

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
P.C.S. Ft. Au Tweed Lake	M-47		85 2 16 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
PETRO-CANADA INC.	ATCO / Equitak	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Andrew Pruchuk	Doug

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.7	E	150	4½ XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	Emsco	D-500	406
2	Emsco	D-500	406

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
	245	224.5		60	280	38	760	6.21	760
	245	222.9		65	S095	21			
	340	316.3		101	K55	5	63.97	6.21	64

SIZE	No. LINES	METRES SLIPPED
1/8	8	

METRES CUT OFF | PRESENT LENGTH 997

MEGAJOULES SINCE LAST CUT 10471 / 1

CUMULATIVE MEGAJOULES 29823 / 3

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL			
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE	2	1¾	
6.	TRIPS	3	1¾	
7.	LUBRICATE RIG	¼	¼	
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY			
11.	WIRE LINE LOGS	2¾		
12.	RUN CASING & CEMENT			
13.	WAIT ON CEMENT			
14.	NIPPLE UP B.O.P.			
15.	TEST B.O.P.			
16.	DRILL STEM TEST		2	4
17.	PLUG BACK			
18.	SQUEEZE CEMENT			
19.	FISHING			
20.	DIR. WORK			
21.	Handle Tools		¾	
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	BIT SUB	.88	
	STB RMR OD		m
3	D.C. ID 171 OD	28.29	m
1	STB RMR OD	4.36	m
	D.C. ID OD	151.04	m
1	STB RMR OD	.77	m
	BHA	185.54	
42	STANDS DP	1223.45	m
2	SINGLES DP		m
	KELLY DOWN	11.01	m
	TOTAL	1420.00	m
	(FORCE) WT. OF STRING	84,000	daN

BIT RECORD

BIT No.			
SIZE	216		
MFG.	HW		
TYPE	J-22		
JETS mm	3 x 15.9		
SER. No.	89209		
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min	/	/	/
PRESSURE DROP kPa			

MUD RECORD

TIME	06:30		
DENSITY kg/m³	1265		
PRESSURE GRADIENT			
VISCOSITY	59		
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	12.4		
pH	10.5		
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
BARITE	16[illegible]		

MORNING TOUR

DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min	/	/	/
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
BARITE	2045		

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min	/	/	/
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

EVENING TOUR

METRES DRILLED / FORMATION

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 SGL..S PAR'EL P COM'D C
1420	TD											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00			11	W.S.T. (Well Seismic Tool)
	0245	2¾		C.S.T. (Core Sample Tool)
0245	0300	¼	7	Rig Serv. / Pipe Rams
0300	0500	2	6	Run in w/ Bit
0500	0700	2	5	Circ. + W.O. orders.
0700	0800	1	6	Pump Pill + Pull out

BOILER HOURS 3 x 8

DRILLER Rick Bourque

METRES DRILLED / FORMATION

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 SGL..S PAR'EL P COM'D C
1420	T.D.											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0815	¼	7	Rig Service / Annular.
0815	0945	1½	6	Hoist for Dummy Trip 3257DS.
0945	1100	1¼	5	Circulate W.O.
1100	1300	2	6	Pump Pill + Hoist for Dst.
1300	1645	3¾		Pick up Test Tools + Make up Same.
1645	1800	1¾	6	Run in w/ Test. Tools.
1800	1900	1	16	Head up to Test.
1900	2000	1	16	Inflate Packers + Test.

BOILER HOURS

DRILLER Paul Bourque

METRES DRILLED / FORMATION

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 SGL..S PAR'EL P COM'D C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2400	4	16	Test w/ Lynes

BOILER HOURS 3 x 4

EVENING TOUR

DRILLER Paul Bourque

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
P.C.I. ETAL TWEED LAKE	77-47		85 02 15

OPERATOR	CONTRACTOR	RIG No.
PETRO-CANADA INC.	ATCO / EQUITAK	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Michael Lichak

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.
114	24.7	E	150	4½XH	1
114					

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
244.5	224.5		60	J 55	38	760	6.21	760
244.5	227.4		65	S095	21			
340	315.3		101	K55	5	63.97	6.12	64

WIRE LINE RECORD REEL No. 1

SIZE	No. LINES	METRES SLIPPED
1 1/8	8	

METRES CUT OFF: — PRESENT LENGTH: 997

MEGAJOULES SINCE LAST CUT: 5481

CUMULATIVE MEGAJOULES: 27833

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL			
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE		1	
6.	TRIPS		3	1½
7.	LUBRICATE RIG		¼	
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY			
11.	WIRE LINE LOGS	8	2¾	½
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	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
TOTALS		8	8	8

DAY WORK SUMMARY (OFFICE USE ONLY) 2

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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
PREMIX GEL	52		
@-BROKE 1			

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	KELLY SUB.	.88	m
	STB RMR	OD	m
4	D.C. ID 171	OD 37.74	m
1	STB RMR STARS	OD 4.36	m
15	D.C. ID 171	141.59	m
1	STB RMR 210	OD .77	m
	BIT	185.54	m
4½	STANDS DP		m
7	SINGLES DP	223.45	m
	KELLY DOWN	11.01	m
	TOTAL	1520.00	m
	(FORCE) WT. OF STRING	78,000	daN

BIT RECORD

BIT No.	1
SIZE	216
MFG.	HW
TYPE	J-22
JETS mm	3X 15.9
SER. No.	89209
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
PREMIX GEL	52		
WATER	15SK.		

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DAY TOUR

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 SGL. S PAR.FL.P COMP.D.C
1420	T.D.											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0822	8	11	Log 216mm Hole w/ SCHLUMBERGER Log #4) ML - MLL TD→760m #5) SHORT SONIC - GR CNL TD→ 760m #6) HDT

DRILLER Brian Lichak

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 SGL. S PAR.FL.P COMP.D.C
1420	TD											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1045	2¾	11	Log w/ SCHLUMBERGER #6 HDT TD-760
10				
1045	1100	¼	7	Rig Ser+Tear out Loggers - U Blind Rams
1100	1330	2½	6	Lay Down 2 Monels + Pull in w/ Bit
1330	1530	2	5	Pick up 25 singles + circ to btm no fill
1530	1600	½	6	Pump Pill + Pull out

DRILLER Rick Berg

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 SGL. S PAR.FL.P COMP.D.C
1420	T.D.											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

EVENING TOUR

BOILER HOURS 3x8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1600	1730	1½	6	Finish Hoisting To Log.
1730	2400	6½		Rig up Schlumberger + Log. C.S.T (Core Sample Tool) W.S.T (Well Seismic Tool)

DRILLER Dave Lauck

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
PCI ETAL TWEED LAKE	M1-47		85 02 14 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA INC.	ATCO / EQUITAK	161

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Michael Pinhak	Buff (Jimmy)

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.
114	21.70	E	250	4½ XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1 — SIZE 1⅛ — No. LINES 8 — METRES SLIPPED —

METRES CUT OFF — PRESENT LENGTH 997

MEGAJOULES SINCE LAST CUT 6916

CUMULATIVE MEGAJOULES 26268

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	245	224.5		40	L80	38	760	6.21	760
	245	222.9		65	S00TS	21			
	340	315.3		101	K55	5	62.97	6.12	69

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	4¼		
3.	REAMING	1¾		
4.	CORING			
5.	CONDITION MUD & CIRCULATE	1	1½	
6.	TRIPS	¾	6½	
7.	LUBRICATE RIG	¼		
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY			
11.	WIRE LINE LOGS		7½	4
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	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
TOTALS		8	17	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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	BIT SUB	.88	
2	STB RMR Monel OD	17.72	m
4	D.C. ID 171 OD	37.74	m
1	STB RMR STAR OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 10 OD	.77	m
	BHA	203.26	
12	STANDS DP	1204.19	m
	SINGLES DP		m
	KELLY DOWN	12.55	m
	TOTAL	1420	m
	(FORCE) WT. OF STRING	83,000	daN

BIT RECORD

BIT No.	17
SIZE	216
MFG.	H-W
TYPE	J-22
JETS mm	11 11 11
SER. No.	89209
DEPTH OUT	
DEPTH IN	1400
TOTAL METRES DRILLED	20
TOTAL HRS. RUN	7½
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	0230	0430	0620
DENSITY kg/m³	1260	1260	1255
PRESSURE GRADIENT			
VISCOSITY	46	53	58
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	13.5	15.5	14
pH	10	10.5	10
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	55		
KLEAN	4		

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	BIT SUB	.88	
2	STB RMR OD	17.72	m
4	D.C. ID 171 OD	37.74	m
1	STB RMR STAR OD	4.36	m
15	D.C. ID 171 OD	141.57	m
1	STB RMR 10 OD	.77	m
	BHA	203.26	
12	STANDS DP	1204.19	m
	SINGLES DP		m
	KELLY DOWN	12.55	m
	TOTAL	1420.00	m
	(FORCE) WT. OF STRING	83,000	daN

BIT RECORD

BIT No.	17
SIZE	216
MFG.	H-W
TYPE	J-22
JETS mm	11 11 11
SER. No.	89209
DEPTH OUT	1420
DEPTH IN	1400
TOTAL METRES DRILLED	20
TOTAL HRS. RUN	7½
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	0900		
DENSITY kg/m³	1270		
PRESSURE GRADIENT			
VISCOSITY	60		
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	11.8		
pH	11		
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
CAUSTIC	1		
BARITE	10		
GEL	10	KLEAN	4

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DAY TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PARE..P COMB..C
1406	1409	R	3		60	3/5	5500	152	—	152	40	S
1409	1420	D	11		55	3/5	5500	152	—	152	40	S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0132	1¾	3	REAM RAT HOLE
0145	0230	¾	2	DRILL 216mm HOLE (HELD SAFETY MEETING
0230	0245	¼	7	RIG SERVICE & BOP'S W/CREW
0245	0612	3½	2	DRILL (1420 T.D.)
0612	0715	1	5	CIRCULATE
0715	0829	¾	6	Pump Pill & Pull 10 stand Dummy Trip

BOILER HOURS 3.8

DRILLER Brian Lukach

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PARE..P COMB..C
1420	TD			STRAP - 1420.32			7000	152		152	45	S
				BOARD - 1420.00								
				DIFF - .32								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0845	¾	6	DUMMY TRIP
0845	1045	2	5	CIRC & COND HOLE
1045	1230	2¼	6	PUMP PILL + STRAP OUT TO LOG
1230	2000	7½	11	Rig up Loggers & Log.
				Loggers T.D. 1720 m
				Log #1&2 DLL-MSFL-GR-CAL T.D. → 700 m

BOILER HOURS 3x12

DRILLER Rick Berge

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 SGL..S PARE..P COMB..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2400	4	11	Log 216mm Hole W/ SCHLUMBERGER
				Log #3) CNL-LDT-NGT-AMS
				T.D. - 700m

BOILER HOURS 3.4

DRILLER Rick Berge

EVENING TOUR

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
P.C.I. ETAL TWEED LAKE	191-97		95 02 11
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO-CANADA INC.		ATCO/EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Richard Prechuk		D Guy (Relief)	

D.P. SIZE	kg/m	GRADE	TOOL JT. O. D.	TYPE THREAD	STRING No.
114	24.70	E	150	4½XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1

SIZE	No. LINES	METRES SLIPPED
1⅛	8	

METRES CUT OFF | PRESENT LENGTH 997

MEGAJOULES SINCE LAST CUT 5744

CUMULATIVE MEGAJOULES 25096

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
219	224.4		60	L80	38	760	6.21	760
245	222.9		65	S0095	21			
340	315.3		101	K55	5	63.97	6.12	64

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL			5¼
3.	REAMING			
4.	CORING	1¾	7½	
5.	CONDITION MUD & CIRCULATE	1	1	
6.	TRIPS	5	3½	½
7.	LUBRICATE RIG	¼	¼	¼
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT CORE	20.10	m
1	BT SUB	1.88	
1	STB RMR STARS OD	4.36	m
2	D.C. ID Monel OD	17.72	m
	STB RMR OD		m
19	D.C. ID 171 OD	179.33	m
1	STB RMR C/O OD	.77	m
	B.H.A.	223.16	
90	STANDS DP	1147.05	m
2	SINGLES DP	18.61	m
	KELLY DOWN	13.18	m
	TOTAL	1402	m
	(FORCE) WT. OF STRING	83,000	daN

BIT RECORD

BIT No.	16
SIZE	171
MFG.	CHR's
TYPE	C201
JETS mm	
SER. No.	060533
DEPTH OUT	
DEPTH IN	1400
TOTAL METRES DRILLED	2
TOTAL HRS. RUN	1¾
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			0630
DENSITY kg/m³			1270
PRESSURE GRADIENT			
VISCOSITY			57
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			14
pH			10.5
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	5		

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT CORE	20.10	m
1	BT SUB	.88	
1	STB RMR STARS OD	4.36	m
2	D.C. ID Monel OD	17.72	m
	STB RMR OD		m
19	D.C. ID 171 OD	177.33	m
1	STB RMR C/O OD	.77	m
	BHA	223.16	
91	STANDS DP	1175.27	m
1	SINGLES DP		m
	KELLY DOWN	10.57	m
	TOTAL	1409.00	m
	(FORCE) WT. OF STRING	85,000	daN

BIT RECORD

BIT No.	16	17°
SIZE	171	216
MFG.	CHR's	HW
TYPE	C201	J-22
JETS mm		11 11 11 9
SER. No.	060583	89209
DEPTH OUT	1409	
DEPTH IN	1400	
TOTAL METRES DRILLED	9	
TOTAL HRS. RUN	7¾	
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa	4.1	2.1 MPa
DULL	1B	2 1240
DULL	1/2	1 1770

MUD RECORD

TIME	08:30	11:00	
DENSITY kg/m³	1260	1260	
PRESSURE GRADIENT			
VISCOSITY	50	53	
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	14.8	14.2	
pH	10.5	10.5	
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	102	BARITE	22
CAUSTIC	2	CAUSTIC	1
KELZAN	1		
MYACOM	1		

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	20	m
1	SUB	.88	
2	STB RMR Monel OD	17.72	m
1	D.C. ID 171 OD	37.79	m
1	STB RMR STAR OD	4.36	m
5	D.C. ID 171 OD	141.54	m
1	STB RMR C/O OD	.77	m
	BHA	203.26	
91	STANDS DP	1175.27	m
2	SINGLES DP	19.31	
	KELLY DOWN	8.16	m
	TOTAL	1406	m
	(FORCE) WT. OF STRING	83,000	daN

BIT RECORD

BIT No.	17
SIZE	216
MFG.	HW
TYPE	J-22
JETS mm	11 11 11 9
SER. No.	89209
DEPTH OUT	
DEPTH IN	1400
TOTAL METRES DRILLED	6
TOTAL HRS. RUN	5¼
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME		21:15	2300
DENSITY kg/m³		1270	1270
PRESSURE GRADIENT			
VISCOSITY		53	46
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³		14	12.5
pH		10	10
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	55		
CAUSTIC	1		
KELZAN	1		

EVENING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR.EL P COMP.D C
1400	1402	2			85	3/4	6300	152	-	152	30	5
						3/6						

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	0030	½	5	CIRC. & COND. HOLE
0030	02 12	2¼	6	PUMP PILL & P.O.O.H.
0245	0330	¾	6	PICK UP CORE BBL & MAKE UP
0330	0345	¼	7	RIG SERVICE, ✓ BLIND RAMS
0325	0515	2	6	R.I.H.
0549	0615	½	5	↑CIRCULATE
0612	0800	1¾	4	DROP BALL & CUT CORE #2
		8		

DRILLER Brian Prechuk

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. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR.EL P COMP.D C
1402	1409	7			85	600	7000	152		152	30	5

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x12

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0815	¼	4	CUT CORE #2
0815	0830	¼	7	Rig Serv't CROWN SAVER
0830	1345	5¼	4	CUT CORE #2 FROM 1402m TO 1409m
1345	1445	1	5	CIRC UP SAMPLE IN PROTEROZOIC
1445	1700	2¼	6	PUMP PILL HOIST CORE #2
1700	1800	1	4	RECOVER CORE # CUT 9m RECOVER 9m 100%
1800	1845	¾	4	SERVICE & LAY DOWN BBLS
1845	2000	1¼	6	RUN IN W/BIT #17°

DRILLER Curt Boyer

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR.EL P COMP.D C
1400	1406	6			65	4/5	5200	152	-	152	40	5

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x4

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2030	½	6	R.I.H. (TIGHT HOLE 15m OFF BOTTOM)
2030	2115	¾	3	BREAK CIR. & REAM RAT HOLE
2115	2200	¼	7	RIG SERVICE, ✓ B.O.P.
2200	2400	2	3	REAM RAT HOLE
		4		

DRILLER Brian Prechuk

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
P.C.I. ETAL TWEED LAKE	M-47		85 02 12 Yr. Mo. Day
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO-CANADA INC.		ATCO / EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Pucholt		Doug Kennedy	

D.P. SIZE	kg/m	GRADE	TOOL JT. O. D.	TYPE THREAD	STRING No.
114	29.70	E	150	4½ XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

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
	245	224.4		60	L80	38	760	6.21	760
	245	222.9		65	S0095	21			
	340	315.3		101	K55	5	63.97	6.12	64

SIZE	No. LINES	METRES SLIPPED
7/8	8	—

METRES CUT OFF — PRESENT LENGTH 997

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	7¾		
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			1
6.	TRIPS			1½
7.	LUBRICATE RIG	¼	¼	
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.	WORK JUNK SUB			1
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
TOTALS		8		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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	SHOCK SUB	3.95	m
2	STB RMR MODEL OD	17.72	m
4	D.C. ID 171 OD	37.74	m
1	STB RMR JAR OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR C/O OD	.77	m
	B.HA	206.33	m
41	STANDS DP	1175.27	m
	SINGLES DP		m
	KELLY DOWN	7.40	m
	TOTAL	1389	m
	(FORCE) WT. OF STRING	76,000	daN

BIT RECORD

BIT No.	14 D
SIZE	216
MFG.	H.W.
TYPE	J-33
JETS mm	11 12 12
SER. No.	84754
DEPTH OUT	
DEPTH IN	1227
TOTAL METRES DRILLED	162
TOTAL HRS. RUN	63¾
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	20:00	3:30	05:00
DENSITY kg/m³	1270	1280	1280
PRESSURE GRADIENT			
VISCOSITY	43	43	44
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	15.2	15	13
pH	10	10.5	10.5
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT		~~CL-100~~	
CAUSTIC	2	KELZAN	2
GEL	28		
DEFOAM D	1		

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	.20	m
1	SHOCK SUB	.89	m
1	STB RMR 3 7/8 SUB OD	.88	m
2	D.C. ID DRILL COLLAR OD	17.72	m
4	STB RMR 171 OD	37.74	m
1	D.C. ID JARS OD	4.36	m
15	STB RMR 171 OD	141.59	m
1	X/O SUB	.77	m
	BHA	204.85	m
41	STANDS DP	1175.27	m
1	SINGLES DP	9.69	m
	KELLY DOWN	10.89	m
	TOTAL	1400.00	m
	(FORCE) WT. OF STRING	76,000	daN

BIT RECORD

BIT No.	14 D	15 RR
SIZE	216	216
MFG.	HW	HW
TYPE	J-33	T-7
JETS mm	11 11 12	11 11 11
SER. No.	84754	98316
DEPTH OUT	1400	
DEPTH IN	1227	1400
TOTAL METRES DRILLED	173	
TOTAL HRS. RUN	69½	43¼
COND. 1/8's T/B/ GAGE	8 R 1	
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	08:00	11:30	14:00
DENSITY kg/m³	1265	1250	1255
PRESSURE GRADIENT			
VISCOSITY	47	51	48
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	13	15.2	12.8
pH	10.5	10.5	10.5
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	87	DRISPAC	1
CAUSTIC	1		
KELZAN	2		
FLR-160	1		

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	.20	m
1	JUNK SUB	.89	m
1	STB RMR 3 7/8 SUB OD	.88	m
2	D.C. ID DRILL COLLAR OD	17.72	m
4	STB RMR 171 OD	37.74	m
1	D.C. ID JARS OD	4.36	m
15	STB RMR 171 OD	141.59	m
1	X/O SUB	.77	m
	BHA.	204.15	m
41	STANDS DP	1175.27	m
1	SINGLES DP	9.69	m
	KELLY DOWN	10.89	m
	TOTAL	1400	m
	(FORCE) WT. OF STRING	80 000	daN

BIT RECORD

BIT No.	15 RR
SIZE	216
MFG.	H.W.
TYPE	J D7
JETS mm	11 11 11
SER. No.	98316
DEPTH OUT	
DEPTH IN	1400
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
BARITE	20		
KELZAN	1		
CAUSTIC	1		
DEFOAM	1		

DAY TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL-S PAR-EL-P COM-D-C
1371	1389	18			75	15	6500	152	—	152	45	S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	02 15	2 1/4	2	DRILL 216mm HOLE
02 15	02 30	1/4	7	RIG SERVICE, V PIPE RAMS
02 30	08 00	5 1/2	2	DRILL
		8		

DRILLER Brian Lockert

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL-S PAR-EL-P COM-D-C
1389	1400	11			80	5/11	7000	152		152	45	S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1394	½	S25E						

BOILER HOURS 3x12

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1045	2¾	2	DRILL — REBOXED 600 BAGS BARITE
1045	1100	¼	7	RIG SER + BOPs — JUNKED 100 BAGS BARITE
1100	1400	3	2	DRILL
1400	1430	½	10	SURVEY
1430	1515	¾	5	FIRE BITS UP
1515	1830	3¼	6	PULL OUT
1830	2000	1½	6	MAKE UP JUNK SUB + RUN IN.

DRILLER Rick Borger

EVENING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL-S PAR-EL-P COM-D-C
1400							5000	152		152	40	S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x4

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2130	1½	6	R.I.H.
2130	2230	1	21	CLEAN TO BOTTOM & WORK JUNK SUB ~~BASKET~~
2230	2400	1½	5	CIRCULATE & CONDITION MUD & HOLE

DRILLER Brian Lockert

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
P.C.I. ETAL TWEED LAKE	M-47		85 02 11 (Yr. Mo. Day)
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO-CANADA INC.		ATCO/EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Puchurk		Doug Murray	

D.P. SIZE	kg/m	GRADE	TOOL JT. O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.70	E	150	4½ XH	1	1	EMSCO	D-500	406
						2	EMSCO	D-500	406

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
	245	224.1		60	L80	38	760	6.21	760
	245	222.9		65	L80	21			
	340	315.3		101	K55	5	63.97	612	64

SIZE	No. LINES	METRES SLIPPED
1 1/8	9	—

METRES CUT OFF — PRESENT LENGTH 997

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	7¼	11¼	3¼
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS			
7.	LUBRICATE RIG	¼	¼	¼
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY		½	
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	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
1	BIT	.20 m	BIT No.	14 D	TIME	0230	4:00	0600
1	Shock Sub	3.95	SIZE	216	DENSITY kg/m³	1260	1265	1265
2	STB RMR Monel OD	17.72 m	MFG.	H.W.	PRESSURE GRADIENT			
4	D.C. ID 171 OD	37.74 m	TYPE	J-33	VISCOSITY	43	43	43
1	STB RMR SAR OD	4.36 m	JETS mm	11 11 11	PV YP mPa•s Pa	/	/	/
15	D.C. ID 171 OD	141.59 m	SER. No.	84754	GEL STR. Pa	/	/	/
1	STB RMR 70 OD	.77 m	DEPTH OUT		WATER LOSS cm³	14	15	15.5
			DEPTH IN	1227	pH	10	10.5	10
	BHA	206.33	TOTAL METRES DRILLED	104	SOLIDS %			
			TOTAL HRS RUN	41				
39	STANDS DP	1118.19 m	COND. 1/8's T/B/ GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	6.48 m	PRESSURE DROP kPa		ORG	34		
	TOTAL	1331 m			FLR009	2		
	(FORCE) WT. OF STRING	13,000 daN						

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
1	BIT	.20 m	BIT No.	14 D	TIME	08:00	11:00	13:00
1	Sub	3.95	SIZE	216	DENSITY kg/m³	1265	1270	1265
2	STB RMR Monel OD	17.72 m	MFG.	H-W	PRESSURE GRADIENT			
4	D.C. ID 171 OD	37.74 m	TYPE	J-33	VISCOSITY	42	41	41
1	STB RMR SAR OD	4.36 m	JETS mm	11 11 11	PV YP mPa•s Pa	/	/	/
15	D.C. ID 171 OD	141.59 m	SER. No.	84754	GEL STR. Pa	/	/	/
1	STB RMR 70 OD	.77 m	DEPTH OUT		WATER LOSS cm³	12.2	14.4	15
			DEPTH IN	1227	pH	10	10.5	10.5
	BHA	206.33	TOTAL METRES DRILLED	52	SOLIDS %			
			TOTAL HRS RUN	52¼				
40	STANDS DP	1149.05 m	COND. 1/8's T/B/ GAGE	0/8	MUD & CHEMICALS ADDED			
1	SINGLES DP	m	FLOW RATE m³/min	2 Pit mix	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	5.82 m	PRESSURE DROP kPa	4.5	4.5 p.p.m	Caustic	2	Viscosun	1
	TOTAL	1359.00 m	DESH	1355	15	SALT	115		
	(FORCE) WT. OF STRING	13,000 daN	DESH	1360	1	KELZAN	2		
						FLR-160	2		

DAY TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
1	BIT	.20 m	BIT No.	14 D	TIME	15:30	17:00	22:00
1	Shock Sub	3.95	SIZE	216	DENSITY kg/m³	1265	1265	1270
2	STB RMR Monel OD	17.72 m	MFG.	H.W.	PRESSURE GRADIENT			
4	D.C. ID 171 OD	37.74 m	TYPE	J-33	VISCOSITY	46	45	44
1	STB RMR SAR OD	4.36 m	JETS mm	11 11 11	PV YP mPa•s Pa	/	/	/
15	D.C. ID 171 OD	141.59 m	SER. No.	84754	GEL STR. Pa	/	/	/
1	STB RMR 70 OD	.77 m	DEPTH OUT		WATER LOSS cm³	13.2	11.2	13.5
			DEPTH IN	1227	pH	10	10.5	10.5
	BHA	206.33	TOTAL METRES DRILLED	144	SOLIDS %			
			TOTAL HRS RUN	56				
40	STANDS DP	1147.05 m	COND. 1/8's T/B/ GAGE		MUD & CHEMICALS ADDED			
1	SINGLES DP	9.61 m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	8.01 m	PRESSURE DROP kPa		SALT	70		
	TOTAL	1371 m			SODA ASH	4		
	(FORCE) WT. OF STRING	14,000 daN			Caustic	1		

EVENING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'L. P COMP'D. C
1313	1331	18			85	15	6500	152	—	152	45	S

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

BOILER HOURS 3 x 8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	02 00	2	2	DRILL 216mm HOLE
02 00	02 15	¼	7	RIG SERVICE ✓ BOP's
02 15	08 00	5¾	2	DRILL
		8		

DRILLER Buck Lebsack

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'L. P COMP'D. C
1331	1359	28			85	17000	7000	152		152	45	S

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1328	½	S 85 W						

BOILER HOURS 3 x 12

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1045	2¾	2	DRILL
1045	1100	¼	7	RIG SERV. BOP
1100	1130	½	10	SURVEY
1130	2000	8½	2	DRILL

DRILLER Buck Lebsack

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'L. P COMP'D. C
1359	1371	12			75	15	6500	152	—	152	45	S

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

BOILER HOURS 3 x 4

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	22 30	2½	2	DRILL 216mm HOLE
22 30	22 45	¼	7	RIG SERVICE ✓ BOP's
22 45	24	1¼	2	DRILL
		4		

DRILLER Buck Lebsack

FORM 376m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
P.C.I. ETAL TWEED LAKE	77-47		85 02 10 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
PETRO-CANADA INC.	ATCO / EQUITAK	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.
114	24.70	E	150	4½ XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

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
	245	224.4		60	K-80	34	760	6.21	760
	245	222.9		65	S-00-95	21			

SIZE	No. LINES	METRES SLIPPED
1/9	8	

METRES CUT OFF | PRESENT LENGTH 997

MEGAJOULES SINCE LAST CUT 3015

CUMULATIVE MEGAJOULES 22367

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	7¾	11¼	5¼
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS			
7.	LUBRICATE RIG	¼	¼	¼
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY		½	
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	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

No.	DRILLING ASSEMBLY (at end of tour)		
1	BIT Hughes	.20	m
1	STB Sub	3.95	
2	STB RMR Monel OD	17.72	
4	D.C. ID 171 OD	37.74	
1	STB RMR Jars OD	4.36	
15	D.C. ID 171 OD	141.59	
1	STB RMR 10 OD	.77	
	BHA	206.33	
87	STANDS DP	1060.54	
	SINGLES DP		
	KELLY DOWN	4.13	
	TOTAL	1271	
	(FORCE) WT. OF STRING	72 000	daN

BIT RECORD			
BIT No.	14 D		
SIZE	216		
MFG.	H.W.		
TYPE	J-33		
JETS mm	11 11 11		
SER. No.	84754		
DEPTH OUT			
DEPTH IN	1227		
TOTAL METRES DRILLED	44		
TOTAL HRS. RUN	18¼		
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min	/	/	
PRESSURE DROP kPa			

MUD RECORD			
TIME	01:00	5:00	6:30
DENSITY kg/m³	1265	1260	1260
PRESSURE GRADIENT			
VISCOSITY	45	50	46
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	14.5	15	
pH	10	10	10.5
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	11		
CAUSTIC	1		

No.	DRILLING ASSEMBLY (at end of tour)		
1	BIT	.20	m
1	STB	3.95	
2	STB RMR Monel OD	17.72	
4	D.C. ID 171 OD	37.74	
1	STB RMR Jars OD	4.36	
15	D.C. ID 171 OD	141.59	
1	STB RMR 10 OD	.77	
	BHA	206.33	
88	STANDS DP	1089.40	
1	SINGLES DP		
	KELLY DOWN	10.27	
	TOTAL	1305.00	
	(FORCE) WT. OF STRING	72,000	daN

BIT RECORD			
BIT No.	14D		
SIZE	216		
MFG.	H-W		
TYPE	J-33		
JETS mm	11 11 11		
SER. No.	84754		
DEPTH OUT			
DEPTH IN	1227		
TOTAL METRES DRILLED	78		
TOTAL HRS. RUN	27½		
COND. 1/8's T/B/ GAGE	0 8		
FLOW RATE m³/min	/	/	
PRESSURE DROP kPa	415	2.0M	
	2115	1350	20
	2M	1763	1

MUD RECORD			
TIME	08:00	10:30	12:00
DENSITY kg/m³	1265	1260	1260
PRESSURE GRADIENT			
VISCOSITY	46	44	44
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	14.4	13.00	14
pH	10.5	10.5	10.5
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	126	CAUSTIC	1
KELZAN	2	DEFOAMER	1
FLR-RD	3		
Soda Ash	4		

No.	DRILLING ASSEMBLY (at end of tour)		
1	BIT Hughes	.20	m
1	STB Sub	3.95	
2	STB RMR Monel OD	17.72	
4	D.C. ID 171 OD	37.74	
1	STB RMR Jars OD	4.36	
15	D.C. ID 171 OD	141.59	
1	STB RMR 10 OD	.77	
	TOTAL BHA	206.33	
88	STANDS DP	1089.40	
1	SINGLES DP	9.56	
	KELLY DOWN	1.71	m
	TOTAL	1313	m
	(FORCE) WT. OF STRING	73000	daN

BIT RECORD			
BIT No.	14 D		
SIZE	216		
MFG.	H W		
TYPE	J-33		
JETS mm	11 11 11		
SER. No.	84754		
DEPTH OUT			
DEPTH IN	1227		
TOTAL METRES DRILLED	86		
TOTAL HRS. RUN	33¼		
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min	/	/	
PRESSURE DROP kPa			

MUD RECORD			
TIME	15:00	17:30	
DENSITY kg/m³	1260	1255	
PRESSURE GRADIENT			
VISCOSITY	46	44	
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	13	11.8	
pH	10.5	10	
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	14		
CAUSTIC	1		

DAY TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'L..P COMB'D..C
1254	1271	17			85	19/15	6500	152	95	152		S

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	02 45	2¾	2	DRILL 216mm HOLE
02 45	03 00	¼	7	RIG SERVICE & BOP'S
03 00	08 00	5	2	DRILL
		8		

BOILER HOURS 3×8

DRILLER Brian Lichol

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'L..P COMB'D..C
1271	1305	34		RSAP @ 20 SPM - 1500 KPa	55	14/15	1500	152	45	152	-	S
										152	45	S

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1270	BULLSEYE	N 5 W						

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1045	2¾	2	DRILL
1045	1115	½	10	SURVEY
1115	1415	3	2	DRILL
1415	1430	¼	7	RIG SER + BOP'S
1430	2000	5½	2	DRILL
		4		

BOILER HOURS 3×12

DRILLER Rick Bergen

EVENING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'L..P COMB'D..C
1305	1313	8			85	15	6500	152		152	45	S

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
20 00	21 39	1½	2	DRILL 216mm HOLE
21 39	21 52	¼	7	RIG SERVICE & BOP'S
21 43	24 00	2¼	2	DRILL 216mm HOLE
		4		

BOILER HOURS 3×4

DRILLER Brian Lichol

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
PCI ETAL TWEED LAKE	MM 47		85 02 09 (Yr. Mo. Day)
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA		ATCO / EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
		Doug Kennedy	

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
11 4H	24.70	E	150	6 5/8 x H	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1

SIZE 1 1/8 | No. LINES 8 | METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH 997

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	245	224.4		60	L-80	38	760	6.21	760
	244.5	222.9		65	S00-95	21			

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL		6 1/4	3 3/4
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE		1 1/2	
6.	TRIPS	3 1/2	2 1/2	
7.	LUBRICATE RIG		1/4	1/4
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY		1/2	
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	4 1/2		
17.	PLUG BACK			
18.	SQUEEZE CEMENT			
19.	FISHING			
20.	DIR. WORK			
21.	WAIT ON ORDERS		1/2	
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	5/5	3.95	
2	STB RMR	17.72	m
4	D.C. ID 171 OD	37.74	m
1	STB RMR	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR	.77	m
	BHA	206.33	
36	STANDS DP	1032.31	m
1	SINGLES DP	7.36	m
	KELLY DOWN		m
	TOTAL	1246.00	m
	(FORCE) WT. OF STRING	71,300	daN

BIT RECORD

BIT No.	13D	
SIZE	216	
MFG.	HW	
TYPE	J-33	
JETS mm	14 14 14	
SER. No.	847S4	
DEPTH OUT	—	
DEPTH IN	1227	
TOTAL METRES DRILLED	19	
TOTAL HRS. RUN	6 3/4	
COND. 1/8's T/B/ GAGE	0 8	
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	14:00	17:00	19:00
DENSITY kg/m³	1245	1255	1260
PRESSURE GRADIENT			
VISCOSITY	43	44	44
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	11.8	12.6	12.4
pH	10.5	10.5	10.5
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	76		
KELZAN	3		
FLOMED	1		

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	SUB	3.95	
2	STB RMR	17.72	m
4	D.C. ID 171 OD	37.74	m
1	STB RMR	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR	.77	m
	BHA	206.33	
36	STANDS DP	1032.31	m
1	SINGLES DP	7.00	m
	KELLY DOWN	6.36	m
	TOTAL	1254	m
	(FORCE) WT. OF STRING	72,000	daN

BIT RECORD

BIT No.	13D	
SIZE	216	
MFG.	HW	
TYPE	J-33	
JETS mm	14 14 14	
SER. No.	847S4	
DEPTH OUT		
DEPTH IN	1227	
TOTAL METRES DRILLED	27	
TOTAL HRS. RUN	10 1/2	
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	20:00	23:00	24:00
DENSITY kg/m³	1260	1265	1265
PRESSURE GRADIENT			
VISCOSITY	44	46	45
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³		15	15
pH	10.5	10.5	10
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	126		

EVENING TOUR

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 SGL. S PAR. EL P COMP. C
1227												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0230	2½	16	TEST #1 DST.
0230	600	3½	6	P.O.O.H. W/ DST. #1
600	800	2	16	LAY DOWN TEST TOOLS

BOILER HOURS 3 x 8

D.S.T. # 1 = BOTTOM HOLE CONVENTIONAL – 1217mm TO 1227mm – P.F. = 5mm – I.S.I. = 90min. – V.O. = 20min – F.S.I. = 120min – REC'D 65m DIG FLUID GAS CUT CLOSED CHAMBER

DRILLER Brian Tickell

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. 2 LINER SIZE	PUMP No. 2 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR. EL P COMP. C
1227	1242	15	19		80/90	9/12	6000	152	–	152	45	S
1242	1246	4	S		80/90	14/16	6500	152	45	152		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1232	½	S N 85 E						

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0830	½	21	WAIT ON ORDERS
0830	0845	¼	7	RIG SER. + BOP
0845	1115	2½	6	RUNN'G W/BIT #1 & D
1115	1245	1½	5	BREAK CIRC + CIRC BTMS UP – TRIP GAS.
1245	1730	4¾	2	DRILL
1730	1800	½	10	SURVEY @ 1232
1800	2000	2	2	DRILL

BOILER HOURS 3 x 12

DRILLER Rick Borgen

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR. EL P COMP. C
1246	1254	8			85	14	6500	152	45	152		S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2230	2½	2	DRILL 216mm HOLE
2230	2245	¼	7	RIG SERVICE, W BOP'S
2245	2400	1¼	2	DRILL

BOILER HOURS 3 x 4

DRILLER Brian Tickell

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
P.C.I ETAL TWEED LAKE	M-47		85 08 08 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA INC.	ATCO EQUIP.	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
	Doug Kennedy

D.P. SIZE	kg/m	GRADE	TOOL JT. O. D.	TYPE THREAD	STRING No.
114	24.70	E	150	XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	Emsco	D500	406
2	Emsco	D500	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
	245	224.4		60	J-80	38	760	6.21	760
	245	222.9		65	S00095	21			

SIZE	No. LINES	METRES SLIPPED
7/32	8	

METRES CUT OFF | PRESENT LENGTH 797

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL		1	
3.	REAMING Hole	1	2 3/4	
4.	CORING			
5.	CONDITION MUD & CIRCULATE		3/4	
6.	TRIPS	2 1/2	2 1/4	2 3/4
7.	LUBRICATE RIG	1/4	1/4	1/4
8.	REPAIR RIG	1 3/4		
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		1	5
17.	PLUG BACK			
18.	SQUEEZE CEMENT			
19.	FISHING			
20.	DIR. WORK			
21.	RECOVERED Box Core	3/4		
22.	LAY DOWN Core Barrel	3/4		
23.				
COMPLETION	A. PERF'R'T'N.			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

No.	DRILLING ASSEMBLY (at end of tour)		m
1	BIT	.20	m
1	5/5	3.95	m
2	STB RMR Reamer OD	17.72	m
4	D.C. ID 171 OD	37.74	m
1	STB RMR Tapered OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 770 OD	.77	m
	BHA	206.33	m
			m
35	STANDS DP	1003.19	m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING 70,000		daN

BIT RECORD		
BIT No.	18 D	
SIZE	216	
MFG.	HW	
TYPE	JD-7	
JETS mm	14 14 15	
SER. No.	98316	
DEPTH OUT	1234	
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD		
TIME	Core #1 = 11:17 hrs	
DENSITY kg/m³	1270 - 1260	
PRESSURE GRADIENT	7 m (100%)	
VISCOSITY		
PV YP mPa•s Pa	/ /	
GEL STR. Pa	/ /	
WATER LOSS cm³		
pH		
SOLIDS %		

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
BARITE	105 SKS		
CAUSTIC	25 SKS		
GEL	285 SKS		

No.	DRILLING ASSEMBLY (at end of tour)		m
1	BIT	.20	m
1	5/5	3.95	m
2	STB RMR Reamer OD	17.72	m
4	D.C. ID 171 OD	37.74	m
1	STB RMR Tapered OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 770 OD	.77	m
	BHA	206.33	m
			m
35	STANDS DP	1013.09	m
1	SINGLES DP	7.58	m
	KELLY DOWN		m
	TOTAL	1227.00	m
	(FORCE) WT. OF STRING		daN

BIT RECORD		
BIT No.	12 D	
SIZE	216	
MFG.	H.W.	
TYPE	JD-7	
JETS mm	13 13 15	
SER. No.	98316	
DEPTH OUT	1227	
DEPTH IN	1224	
TOTAL METRES DRILLED	3	
TOTAL HRS. RUN	1 1/4	
COND. 1/8's T/B/ GAGE	2 2 IN	
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD		
TIME	10:00	12:00
DENSITY kg/m³	1270	1260
PRESSURE GRADIENT		
VISCOSITY	42	41
PV YP mPa•s Pa	/ /	/ /
GEL STR. Pa	/ /	/ /
WATER LOSS cm³	14	14
pH	10	10
SOLIDS %		

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
GEL	28		
CHROMIN	1		
CAUSTIC	1		
BARITE	20		

No.	DRILLING ASSEMBLY (at end of tour)		m
	BIT		m
			m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
			m
			m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD		
BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD		
TIME		
DENSITY kg/m³		
PRESSURE GRADIENT		
VISCOSITY		
PV YP mPa•s Pa	/ /	
GEL STR. Pa	/ /	
WATER LOSS cm³		
pH		
SOLIDS %		

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

MORNING TOUR

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 SGL..S PAR.EL.P COM.D.C
				RECOVERED 7 METRES								

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0130	1 1/2	6	HOIST
0130	0215	3/4	21	RECOVER 9 Box CORE
0215	0230	1/4	7	Rig SERVICE - BLIND RAMS.
0230	0315	3/4	22	LAY DOWN COREBBLS. (SERVICE SAME)
0315	0415	1	6	MAKE up Bit + RUN IN Drill Collars.
0415	0600	1 3/4	8	RIG ON HI - DRUM
0600	700	1	6	R I H
700	5-	1	3	RIGM. RATHOLE

BOILER HOURS 3x88

DRILLER Dave Turik

DAY TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR.EL.P COM.D.C
1217	1224	R	7		60/100	1/6	5000	152		152	45	S
1224	1227	D	3		60/100	5/8	5000	152		152	45	S

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1045	2 3/4	3	REAM RATHOLE
1045	1145	1	2	DRILL 216mm HOLE
1145	1230	3/4	5	CIRCULATE SAMPLE @ 1227
1230	1245	1/4	7	RIG SERVICE, ✓ B.O.P.'S
1245	1500	2 1/4	6	Pump PILL & P.O.O.H.
1500	1600	1	16	MAKE UP TESTING TOOLS
		8		

BOILER HOURS 3x8

DRILLER Bill Lickard

EVENING TOUR

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 SGL..S PAR.EL.P COM.D.C

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1600	1800	2	16	MAKE UP DST #1
1800	1815	1/4	7	RIG SER + BOP -
1815	21.00	2 3/4	6	RUN IN w/ DST #1
2100	24.00	3	16	Rig Up Test Head & Test D.S.T #1

BOILER HOURS 3x8

DRILLER Rick Boyer

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
P.C.I. ETAL TWEED LAKE	M-47		85 02 07 (Yr. Mo. Day)
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANNON INC.		ATCO EQUITY	96
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
		Doug Kennedy	

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.70	E	150	XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	Emsco	D500	406
2	Emsco	D500	406

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	245	224.4		60	L-80	38	760	6.21	760
	245	222.9		65	S00-95	21			

WIRE LINE RECORD REEL No. 1

SIZE	No. LINES	METRES SLIPPED
1 1/8	8	30

METRES CUT OFF 30 PRESENT LENGTH 1027-997

MEGAJOULES SINCE LAST CUT 0

CUMULATIVE MEGAJOULES 19352

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	2 3/4		
3.	REAMING			
4.	CORING		5 1/2	
5.	CONDITION MUD & CIRCULATE	2 1/2	1	
6.	TRIPS	2 1/2	3 1/4	
7.	LUBRICATE RIG	1/4	1/4	
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE		1	
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	20	m
1	3/5	3.95	
2	STB RMR Reed OD	17.72	m
9	D.C. ID 171 OD	37.74	m
1	STB RMR STAR OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 7/8 OD	.77	m
	BHA	206.33	
	STANDS DP	1004.20	m
	SINGLES DP		m
	KELLY DOWN	6.17	m
	TOTAL	1217	m
	(FORCE) WT. OF STRING	70,000	daN

BIT RECORD

BIT No.	110		
SIZE	216		
MFG.	HW		
TYPE	J-22		
JETS mm	13 13 13		
SER. No.	86856		
DEPTH OUT			
DEPTH IN	763		
TOTAL METRES DRILLED	454		
TOTAL HRS. RUN	70 1/4		
COND 1/8's T/B/ GAGE	N/O I		
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME	00 00	06 00	
DENSITY kg/m³	1255	1255	
PRESSURE GRADIENT			
VISCOSITY	44	50	
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	15	13	
pH	10	10	
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	1035kg		
Caustic	95K	BARITE	335kg
KCL/PAC	1 SK	(MHS coarse)	5 SKS
PAC L700	4 SKS		

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT CORE	30.10	m
1	SUB	.87	
2	STB RMR Reed OD	17.72	m
9	D.C. ID 171 OD	37.74	m
1	STB RMR STARS OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 7/8 OD	.77	m
	BHA.	223.15	
34	STANDS DP	975.41	m
2	SINGLES DP	19.20	m
	KELLY DOWN	9.24	m
	TOTAL	1227	m
	(FORCE) WT. OF STRING	73,000	daN

BIT RECORD

BIT No.	12		
SIZE	171		
MFG.	Christ.		
TYPE	C201		
JETS mm			
SER. No.	060289		
DEPTH OUT	1217		
DEPTH IN			
TOTAL METRES DRILLED	5		
TOTAL HRS. RUN	5 1/2		
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME	15 30	18 30	
DENSITY kg/m³	1270	1270	
PRESSURE GRADIENT			
VISCOSITY	43	45	
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	15	15	
pH	10.5	10.5	
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SALT	105		
PAC R100	2		

DRILLING ASSEMBLY (at end of tour)

No.			
2	BIT 561	20.10	m
1	6/5	.87	
2	STB RMR Reed OD	17.72	m
9	D.C. ID 171 OD	37.74	m
1	STB RMR STARS OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 7/8 OD	.77	m
	BHA.	223.15	
34	STANDS DP	975.41	m
2	SINGLES DP	19.20	m
	KELLY DOWN	4.93	m
	TOTAL	1224	m
	(FORCE) WT. OF STRING	73,000	daN

BIT RECORD

BIT No.	12		
SIZE	171		
MFG.	CHRIS.		
TYPE	C201		
JETS mm			
SER. No.	060289		
DEPTH OUT	1224		
DEPTH IN	1217		
TOTAL METRES DRILLED	7		
TOTAL HRS. RUN	8 1/2		
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME	20 00	24 00	
DENSITY kg/m³	1275		
PRESSURE GRADIENT			
VISCOSITY	46		
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	13		
pH	10		
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAREL..P COM'D..C
1204	1217	13			85	15000	3000	152	-	152	45	5

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0215	2 1/4	2	Drill 216 mm Hole.
0215	0230	1/4	7	Rig Service ✓ B.O.P.
0230	0300	1/2	2	Drill.
0300	0430	1 1/2	5	Circulate Sample @ 1217m
0430	0545	1 1/4	6	Blow Kelly Dummy Trip 10 STDS.
0545	0645	1	5	Circulate Cond Hole To Core.
0645	0800	1 1/4	6	Hoist To Core (STRAP)

DRILLER Dave Lynch

DAY TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAREL..P COM'D..C
1217	1222	5	1		80	7/5	5000	152		152	30	5

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x12

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0915	1 1/4	6	P.O.O.H.
0915	0930	1/4	7	RIG SERVICE ✓ BLIND RAMS
0930	1130	2	6	MAKE UP CORE BI & R.I.H.
1130	1230	1	9	SLIP & CUT 30m DRILLING LINE
1230	1330	1	6	R.I.H.
1330	1430	1	5	CIRCULATE
1430	2000	5 1/2	4	DROP BALL & CUT CORE #1

DRILLER Bob Lokot

EVENING TOUR

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 SGL..S PAREL..P COM'D..C
1222	1224	2			80	7/5/6	6000	152		152	30	5

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x4

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2300	3	4	Cut Core 1
2300	2400	1	6	Blow Kelly & Hoist Core #1

DRILLER Dave Lynch

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
P.C.I ETAL TWEED LAKE	M-47		850206 Yr. Mo. Day
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA INC.		ATCO EQUITAK	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.
114	24.70	E	150	XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	Emsco	D500	406
2	Emsco	D500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

SIZE 1 1/8 | No. LINES 8 | METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH 1027

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	345	324.4		60	L80	38	760	621	760
	345	322.9		65	S00 95	21			

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	9¾	7	
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE		3½	
6.	TRIPS			
7.	LUBRICATE RIG	¼	¼	
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY		½	
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.	P/U DRILL		¼	
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	5/5	3.95	
2	STB RMR Flanel OD	17.72	m
4	D.C. ID 171 OD	37.74	m
1	STB RMR TAMS OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 70 OD	.77	m
	BHA.	206.33	
33	STANDS DP	747.30	m
	SINGLES DP		m
	KELLY DOWN	6.09	m
	TOTAL	1159.12	m
	(FORCE) WT. OF STRING 66,000		daN

BIT RECORD

BIT No.	11D
SIZE	216
MFG.	HW
TYPE	J-22
JETS mm	13 13 13
SER. No.	86856
DEPTH OUT	
DEPTH IN	763
TOTAL METRES DRILLED	396
TOTAL HRS. RUN	57½
COND 1/8's T/B/ GAGE	08.
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	22:00	06:00	07:30
DENSITY kg/m³	1950	1250	1250
PRESSURE GRADIENT			
VISCOSITY	43	43	45
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	15.	12.	12
pH	10.5	10	10
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
CAUSTIC	35KG	SALT	90KG
XELZAN	3SKG	GEL	39SKG
BARITE	1SK	FLR-106	45KG
MAGCORAL	5SKG		

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
1118	1159	41			85	15	6000	152	—	152	40	S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0115	1¼	2	Drill 216 mm Hole.
0115	0130	¼	7	R.g Service - Hydr.l.
0130	0800	6½	2	Drill
		8		

BOILER HOURS 3x8

DRILLER Dave Jarel.

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	Shock Sub	3.95	
2	STB RMR Flanel OD	17.72	m
4	D.C. ID 171 OD	37.74	m
1	STB RMR TAMS OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 70 OD	.77	m
	BHA.	206.33	
34	STANDS DP	975.41	m
	SINGLES DP		m
	KELLY DOWN	13.26	m
	TOTAL	1195	m
	(FORCE) WT. OF STRING 68,000		daN

BIT RECORD

BIT No.	11D
SIZE	216
MFG.	H-W
TYPE	J-22
JETS mm	13 13 13
SER. No.	86856
DEPTH OUT	
DEPTH IN	763
TOTAL METRES DRILLED	432
TOTAL HRS. RUN	69½
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	10:00	11:30	15:00
DENSITY kg/m³	1260	1265	1270
PRESSURE GRADIENT			
VISCOSITY	44	44	46
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	14	15	15
pH	10	10	10
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
BARITE	16		
SALT	35		
FLR-106	2		
CAUSTIC	1		

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
1159	1195	36			85	10/15	6000	152	—	152	40	S
							7000				43	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1185	½°	S25C						

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0815	¼	2	DRILL 216mm HOLE | 1500 | 1700 | 2 | DRILL
0815	0915	1	5	CIRCULATE UP SAMPLE @ 1164
0915	1030	1¼	2	DRILL | 1700 | 1715 | ¼ | BOP. DRILL W/CREW
1030	1200	1½	5	CIRCULATE UP SAMPLE @ 1170 & W.O.B.
1200	1230	½	2	DRILL | 1715 | 1930 | 1¾ | DRILL
1230	1330	1	5	CIR. SAMPLE @ 1172 & W.O.B. | 1930 | 2000 | ½ | SURVEY
1330	1445	1¼	2	DRILL
1445	1500	¼	7	RIG SERVICE, ✓ B.O.P.'S

BOILER HOURS 3x12

DRILLER Brian Lockhart

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	5/5	3.95	
2	STB RMR Flanel OD	17.72	m
4	D.C. ID 171 OD	37.74	m
1	STB RMR TAMS OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 70 OD	.77	m
	BHA.	206.33	
34	STANDS DP	794.61	m
2	SINGLES DP	85.11	
	KELLY DOWN	12.30	m
	TOTAL	1204	m
	(FORCE) WT. OF STRING 68,000		daN

BIT RECORD

BIT No.	11D
SIZE	216
MFG.	HW
TYPE	J-22
JETS mm	13 13 13
SER. No.	86856
DEPTH OUT	
DEPTH IN	763
TOTAL METRES DRILLED	441
TOTAL HRS. RUN	67½
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	1700		
DENSITY kg/m³	1265		
PRESSURE GRADIENT			
VISCOSITY	44		
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	12.5		
pH	10		
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR'EL P COM'D C
1195	1204	9			85	10/15	6000	152	—	152	43	S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2030	½	2	Drill 216 mm Hole.
2030	2145	1¼	5	Circulate Sample @ 1198 m & W.O.B.
2145	2400	2¼	2	Drill.

BOILER HOURS 3x4

DRILLER Dave Jarel.

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
P.C.I ETAL TWEED LAKE	M-47		85 02

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA INC.	ARDEL DRILL	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	TYPE	STROKE LENGTH
114	24.70	E	130	XH	1	1	EMSCO	D500	406
						2	EMSCO	D500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
1 1/8	5	

METRES CUT OFF | PRESENT LENGTH 1027

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
245	220.4		60	L80	38	760	6.21	760
245	222.9		65	S00K21				

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	7 3/4	11	3 3/4
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS			
7.	LUBRICATE RIG	1/4	1/4	1/4
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY		1/2	
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.	BOP DRILL		1/4	
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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	

DRILLING ASSEMBLY (at end of tour) — MORNING TOUR

No.			
1	BIT	1.20	m
1	3/5	3.95	
2	STB RMR Monel OD	17.72	m
4	D.C. ID 171 OD	34.74	m
1	STB RMR Tungsten OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 6/0 OD	.77	m
	BHA	206.33	
28	STANDS DP	822.63	m
XX	SINGLES DP		m
	KELLY DOWN	7.76	m
	TOTAL	1036	m
	(FORCE) WT. OF STRING	67000	daN

BIT RECORD — MORNING TOUR

BIT No.	11 D
SIZE	216
MFG.	HW
TYPE	J-22
JETS mm	13 13 13
SER. No.	86856
DEPTH OUT	
DEPTH IN	763
TOTAL METRES DRILLED	273
TOTAL HRS. RUN	35
COND. 1/8's T/B/ GAGE	0 3
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD — MORNING TOUR

TIME	02:00	08:00	07:30
DENSITY kg/m³	1230	1230	1230
PRESSURE GRADIENT			
VISCOSITY	37	37	37
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH	11.0	10.5	9.5
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
CAUSTIC SODA	25	KWIKSEAL	35
SODIUM BICARB	10		
SALT	20		
DEFOAMER	1		

METRES DRILLED — MORNING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PARE. P COMP'D. C
997	1036	39			85	7/10	5500	152	-	152	40	5
				R.P.S.P 1500KPA 20STKS.		13000						

DEVIATION RECORD — MORNING TOUR

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG — MORNING TOUR

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0330	3 1/2	2	DRILL 216mm HOLE CONTROLLED 10 min/m
0330	0345	1/4	7	RIG SERVICE / CROWN-O-MATIC
0345	0800	4 1/4	2	DR. 11.

BOILER HOURS 348

DRILLER Dave

DRILLING ASSEMBLY (at end of tour) — DAY TOUR

No.			
1	BIT	.20	m
1	SHOCK SUB	3.95	
2	STB RMR Monel OD	17.72	m
4	D.C. ID 171 OD	34.74	m
1	STB RMR Tungsten OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 6/0 OD	.77	m
	BHA	206.33	
30	STANDS DP	860.90	m
2	SINGLES DP	19.23	m
	KELLY DOWN	10.54	m
	TOTAL	1097	m
	(FORCE) WT. OF STRING	66000	daN

BIT RECORD — DAY TOUR

BIT No.	11 D
SIZE	216
MFG.	HW
TYPE	J-22
JETS mm	13 13 13
SER. No.	86856
DEPTH OUT	
DEPTH IN	763
TOTAL METRES DRILLED	334
TOTAL HRS. RUN	46
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD — DAY TOUR

TIME	08:30	12:00	16:00
DENSITY kg/m³	1230	1235	1235
PRESSURE GRADIENT			
VISCOSITY	36	38	40
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	22	20	20
pH	10	10.5	10.5
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SODA ASH	14	SALT	176
FLR 100	4		
KELZAN	4		
BARSCAV 100	4		

METRES DRILLED — DAY TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min
1036	1097	61			85	9/15	5500	152	-	152	40

DEVIATION RECORD — DAY TOUR

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1032	3/4	N 48 E	1080	1/2	S20E			

TIME LOG — DAY TOUR

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
08 30	0900	1	2	DRILL 216mm HOLE
0900	09 15	1/4	7	RIG SERVICE / B.O.P.'s
09 15	0930	1/4	10	SURVEY @ 1032
0930	1600	6 1/2	2	DRILL 216mm HOLE CONTROLLED @ 10 min/m
1600	1615	1/4	7	B.O.P. DRILL W/CREW
1615	1815	2	2	DRILL 216mm HOLE - CONTROLLED @ 10 min/m
1815	1830	1/4	10	SURVEY @ 1080
1830	2000	1 1/2		DRILL 216mm HOLE

BOILER HOURS 3 X 12

DRILLER Brian Lucki

DRILLING ASSEMBLY (at end of tour) — EVENING TOUR

No.			
1	BIT	.20	m
1	3/5	3.95	
2	STB RMR Monel OD	17.72	m
4	D.C. ID 171 OD	34.74	m
1	STB RMR Tungsten OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 6/0 OD	.77	m
	BHA	206.33	
31	STANDS DP	893.32	m
1	SINGLES DP		
	KELLY DOWN	10.54	m
	TOTAL	1118	m
	(FORCE) WT. OF STRING	66,000	daN

BIT RECORD — EVENING TOUR

BIT No.	11 D
SIZE	216
MFG.	HW
TYPE	J-22
JETS mm	13 13 13
SER. No.	86856
DEPTH OUT	
DEPTH IN	763
TOTAL METRES DRILLED	355
TOTAL HRS. RUN	49 3/4
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD — EVENING TOUR

TIME	19:00	24:00	
DENSITY kg/m³	1250	1245	
PRESSURE GRADIENT			
VISCOSITY	42	43	
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	16	14.5	
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

METRES DRILLED — EVENING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PARE. P COMP'D. C
1097	1118	21			85	9/15	5500	152	-	152	40	5

DEVIATION RECORD — EVENING TOUR

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG — EVENING TOUR

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2015	1/4	7	Rig Service / Pipe Rams.
2015	2400	3 3/4	2	Drill 216 mm Hole.

BOILER HOURS 5 X 4

DRILLER Doug Jones

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
PCI ESSO TWEED LAKE	A-47		83-02-04
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA INC.		ATCO/EQUITY	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	TYPE	STROKE LENGTH
114	24.70	E	150	XH	1	1	Emsco	D500	406
						2	Emsco	D500	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
	245	224.4		60	L80	38	760	6.21	760
	245	229.9		65	SOO	21			

SIZE 1 1/4 | No. LINES 8 | METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH 1027

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	9	11 1/4	3 3/4
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS			
7.	LUBRICATE RIG	1/4	1/4	1/4
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY	1/2	1/2	
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.	SURVEY	1/4		
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD	
1	BIT	.20 m	BIT No.	11D
1	3/5	3.95	SIZE	216
2	STB RMR Almco OD	17.72 m	MFG.	HW
4	D.C. ID 171 OD	37.74 m	TYPE	J-22
1	STB RMR Imco OD	4.36 m	JETS mm	13 13 13
15	D.C. ID 171 OD	141.59 m	SER. No.	86856
1	STB RMR C/O OD	.77 m	DEPTH OUT	
	BHA	206.39	DEPTH IN	763
			TOTAL METRES DRILLED	102
			TOTAL HRS. RUN	12 1/4
22	STANDS DP	651.23 m	COND. 1/8's T/B/ GAGE	
2	SINGLES DP	m	FLOW RATE m³/min	
	KELLY DOWN	8.56 m	PRESSURE DROP kPa	
	TOTAL	865. m		
	(FORCE) WT. OF STRING	daN		

MUD RECORD				
TIME	00 00	03 00	07 00	
DENSITY kg/m³	1130	1130	1165	
PRESSURE GRADIENT				
VISCOSITY	36	37	36	
PV mPa*s / YP Pa	/	/	/	
GEL STR. Pa	/	/	/	
WATER LOSS cm³				
pH	11.5	11.5	11.5	
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
GEL	325	Bicarb	325
Soda Ash	85	Magcide	100
Kelzan	50	Defoamer	10
SALT	6305		

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD	
1	BIT	.20 m	BIT No.	11D
1	3 5/8 SUB	3.95	SIZE	216
2	STB RMR Almco OD	17.72 m	MFG.	HW
4	D.C. ID 171 OD	37.74 m	TYPE	J-22
1	STB RMR Imco OD	4.36 m	JETS mm	13 13 13
15	D.C. ID 171 OD	141.59 m	SER. No.	86856
1	STB RMR C/O OD	.77 m	DEPTH OUT	
	BHA	206.33	DEPTH IN	763
			TOTAL METRES DRILLED	208
			TOTAL HRS. RUN	23 1/2
26	STANDS DP	746.09 m	COND. 1/8's T/B/ GAGE	
1	SINGLES DP	9.49 m	FLOW RATE m³/min	
	KELLY DOWN	9.09 m	PRESSURE DROP kPa	
	TOTAL	971 m		
	(FORCE) WT. OF STRING 69 000	daN		

MUD RECORD				
TIME	0830	11:00	1130	
DENSITY kg/m³	1155	1205	1220	
PRESSURE GRADIENT				
VISCOSITY	36	35	35	
PV mPa*s / YP Pa	/	/	/	
GEL STR. Pa	/	/	/	
WATER LOSS cm³				
pH	10	9.5	10	
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Salt	282		
Kelzan	4		
Caustic	1		
Soda Ash	10		

DAY TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD	
1	BIT	.20 m	BIT No.	11D
1	3 5/8 SUB	3.95	SIZE	216
2	STB RMR Almco OD	17.72 m	MFG.	HW
4	D.C. ID 171 OD	34.94 m	TYPE	J-22
1	STB RMR Imco OD	4.36 m	JETS mm	13 13 13
15	D.C. ID 171 OD	141.59 m	SER. No.	86856
1	STB RMR C/O OD	.77 m	DEPTH OUT	
			DEPTH IN	763
			TOTAL METRES DRILLED	208
			TOTAL HRS. RUN	23 1/2
27	STANDS DP	754.22 m	COND. 1/8's T/B/ GAGE	
1	SINGLES DP	m	FLOW RATE m³/min	
	KELLY DOWN	7.47 m	PRESSURE DROP kPa	
	TOTAL	997. m		
	(FORCE) WT. OF STRING 64 000	daN		

MUD RECORD				
TIME	1630	2000	2400	
DENSITY kg/m³	1250	1240	1250	
PRESSURE GRADIENT				
VISCOSITY	35	36	35	
PV mPa*s / YP Pa	/	/	/	
GEL STR. Pa	/	/	/	
WATER LOSS cm³				
pH	10	10	10	
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
KELZAN	2		
Soda Ash	14		
Magcide	2		

EVENING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL...S PAR'EL P COM'D C.
795	865	70			85	5/10	5200	152	40	146	40	S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
797	2°	N73W	851	1 3/4	N73W			

BOILER HOURS 3 x 8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0045	3/4	2	Drill 216 mm Hole
0045	0100	1/4	9	Rig Service - Bop.
0100	0115	1/4	21	Blow Out Drill w/crew.
0115	0200	3/4	2	Drill
0200	0215	1/4	10	Survey @ 797.
0215	0715	5	2	Drill.
0715	0730	1/4	10	Survey @ 851
0730	0800	1/2	2	Drill.

DRILLER Dave Tuck

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL...S PAR'EL P COM'D C.
865	971	106			85	5/10	5500	152	—	152	40	S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
908	1 1/2	N 55 W	956	1°	North			

BOILER HOURS 3 x 12

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1230	4 1/2	2	Drill 216mm Hole
1230	1245	1/4	10	Survey @ 908m
1245	1300	1/4	7	Rig Service, BOP's
1300	1530	2 1/2	2	Drill 216mm Hole
1532	1823	2 3/4	2	Controlled Drlg. @ 10 min/m. From 950m
1815	1830	1/4	10	Single Shot Survey @ 956m
1830	2000	1 1/2	2	Controlled drilling @ 10 min/m.
		12		

DRILLER Brian Tuckett

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL...S PAR'EL P COM'D C.
971	999	26			85	5/10	5500	152	—	152	40	S
				KB/SP. 205 KS 1500 KPA								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2015	1/4	9	Rig Service & Hydril
2015	2400	3 3/4	2	Drill 216 mm Hole. Controlled drilling 10 min/m.

DRILLER Dave Tuck

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
PCI FINL TWEED LAKE	M-47		85 02 03 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA INC.	NICO EQUITAK	96

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.
114	34.70	E	150	XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	Emsco	D500	406
2	Emsco	D500	406

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	244	224.4		60	J55	38	760	6.12	766
	219.1	202.5		47	J55	21			

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
1/4	5	

METRES CUT OFF — PRESENT LENGTH 1027

MEGAJOULES SINCE LAST CUT 5885

CUMULATIVE MEGAJOULES 18013

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY.	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL		2	3½
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE		½	
6.	TRIPS	2¼	1¾	
7.	LUBRICATE RIG	¼	¼	¼
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY			¼
11.	WIRE LINE LOGS	4¼		
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.	Inspect BHA Collars	¼	¼	
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

No.	DRILLING ASSEMBLY (at end of tour)		
1	BIT	.20	m
1	5/5	3.95	
2	STB RMR Monel OD	17.72	m
4	D.C. ID 171 OD	37.74	m
1	STB RMR OD	4.36	m
15	D.C. ID 171 OD	441.40	m
1	STB RMR 9/0 OD	.77	m
	BHA		
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD			
BIT No.	11 D		
SIZE	216		
MFG.	HW		
TYPE	J22		
JETS mm	12 12 12		
SER. No.	86856		
DEPTH OUT			
DEPTH IN	763		
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD				
TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa*s	YP Pa			
GEL STR. Pa				
WATER LOSS cm³				
pH				
SOLIDS %				
MUD & CHEMICALS ADDED				
TYPE	AMT. kg	TYPE	AMT. kg	
Gel	325			
Caustic	15K			
Volume at surface	325			

No.	DRILLING ASSEMBLY (at end of tour)		
1	BIT	.20	m
1	SHOCK SUB	3.95	
2	STB RMR Monel OD	17.72	m
4	D.C. ID 171 OD	37.74	m
1	STB RMR OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 9/0 OD	.77	m
	BHA	20637	
19	STANDS DP	545.47	m
1	SINGLES DP	9.61	m
	KELLY DOWN	9.59	m
	TOTAL	771	m
	(FORCE) WT. OF STRING	58 000	daN

BIT RECORD			
BIT No.	11 D		
SIZE	216		
MFG.	H.W		
TYPE	J-22		
JETS mm	13 13 13		
SER. No.	86856		
DEPTH OUT			
DEPTH IN	763		
TOTAL METRES DRILLED	8		
TOTAL HRS. RUN	2		
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD				
TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa*s	YP Pa			
GEL STR. Pa				
WATER LOSS cm³				
pH				
SOLIDS %				
MUD & CHEMICALS ADDED				
TYPE	AMT. kg	TYPE	AMT. kg	

No.	DRILLING ASSEMBLY (at end of tour)		
1	BIT	.20	m
1	3/5	3.95	
2	STB RMR Monel OD	17.72	m
4	D.C. ID 171 OD	37.74	m
1	STB RMR OD	4.36	m
15	D.C. ID 171 OD	141.59	m
1	STB RMR 9/0 OD	.77	m
	BHA	266.33	
24	STANDS DP	734.42	m
1	SINGLES DP		
	KELLY DOWN	5.	m
	TOTAL	795	m
	(FORCE) WT. OF STRING	64000	daN

BIT RECORD			
BIT No.	11 D		
SIZE	216		
MFG.	HW		
TYPE	J-22		
JETS mm	13 13 13		
SER. No.	86856		
DEPTH OUT			
DEPTH IN	763		
TOTAL METRES DRILLED	32		
TOTAL HRS. RUN	5½		
COND. 1/8's T/B/ GAGE	8 8		
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD				
TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa*s	YP Pa			
GEL STR. Pa				
WATER LOSS cm³				
pH				
SOLIDS %				
MUD & CHEMICALS ADDED				
TYPE	AMT. kg	TYPE	AMT. kg	

DAY TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL.P COM'D.C
763												

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0415	4¼	11	Rig up Eastman - Run Gyro Log.
0415	0430	¼	7	Rig Service - Blind Rams.
0430	0645	2¼	6	Pick up 2 monels + 4 121 Drill Collars. Shock Sub + Jars.
0645	0800	1¼		Inspect Drill Collars + Sub's.

BOILER HOURS 3x8

DRILLER Dave Tench

EVENING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL.P COM'D.C
763	771	8			85	5	5000	152	40	152		5

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1520	7½	21	Inspect Drill Collars (Layed Down 2 D.C.'s + Pickup 2)
1520	1532	¼	7	Rig Service ✓ B.O.P.'s
1532	1700	1¼	6	R.I.H.
1700	1730	½	6	Lay Down 6 Drill Pipe + Break Circulation
1730	1800	½	5	Displaced Hole w/Mud
1800	2000	2	2	Drill 216mm Hole
		12		

BOILER HOURS 3x12

DRILLER Brad Lebel

EVENING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL.P COM'D.C
771	795	24			85	5	5000	152	40	152		5

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2015	¼	9	Rig Service - Bop.
2015	2315	3	2	Drill 216 mm Hole.
2315	2330	¼	10	Survey @ 784m
2330	2400	½	2	Drill.

BOILER HOURS 3x4

DRILLER Dave Tench

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
P.C.I ETAL TWIN LAKE	11-47		85 02 02
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA INC.		ATCO EQUITY	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	TYPE	STROKE LENGTH
114	24.70	E	150	XH	1	1	EMSCO	D-500	406
						2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

SIZE 1/8 | No. LINES 8 | METRES SLIPPED –

METRES CUT OFF – | PRESENT LENGTH 1027

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	9¼	9½	
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE		¾	
6.	TRIPS			
7.	LUBRICATE RIG	¼	½	
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.		½	
16.	DRILL STEM TEST			
17.	PLUG BACK			
18.	SQUEEZE CEMENT			
19.	FISHING			
20.	DIR. WORK			
21.	LEAK OFF TEST		1	
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	6¾ Sub	.74	
	STB RMR OD		m
6	D.C. ID 171 OD	56.35	m
1	STB RMR 7⅞ OD	4.36	m
9	D.C. ID 171 OD	85.05	m
1	STB RMR 7⅞ OD	.77	m
	6¾	147.47	
15	STANDS DP	411.00	m
1	SINGLES DP	9.41	m
	KELLY DOWN	.14	m
	TOTAL	572.	m
	(FORCE) WT. OF STRING	45,000	daN

BIT RECORD

BIT No.	1	10D	
SIZE		216	
MFG.		NW	
TYPE		J-3	
JETS mm	12	12	12
SER. No.		97737	
DEPTH OUT			
DEPTH IN		204	
TOTAL METRES DRILLED		368	
TOTAL HRS. RUN		16½	
COND. T/B's T/B/ GAGE		0 0	
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAREL. P COM'D. C
334	572	238			150	3/5	5000	152	40			S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0030	½	2	DRILL OUT CEMENT.
0030	0045	¼	7	RIG SERV. & HYDRIL
0045	0800	7¼	2	DRILL CEMENT.

BOILER HOURS 3 x 8

DRILLER Dave Lunch

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	6¾ Sub	.74	
	STB RMR OD		m
6	D.C. ID 171 OD	56.35	m
1	STB RMR 7⅞ OD	4.36	m
9	D.C. ID 171 OD	85.05	m
1	STB RMR 7⅞ OD	.77	m
	BHA	147.47	
21	STANDS DP	603.49	m
	SINGLES DP		m
	KELLY DOWN	12.12	m
	TOTAL	763	m
	(FORCE) WT. OF STRING	48,000	daN

BIT RECORD

BIT No.	10	D	
SIZE		216	
MFG.		NW	
TYPE		J-3	
JETS mm	12	12	12
SER. No.		97737	
DEPTH OUT			
DEPTH IN		204	
TOTAL METRES DRILLED		559	
TOTAL HRS. RUN		26	
COND. T/B's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Dispersed		Gradiswel	
36.5 KPA/km			
NO LEAK OFF			

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAREL. P COM'D. C
572	763	191			120	3/5	5500	152	40	152	–	S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1000	2	2	DRILL OUT CEMENT
1000	1030	½	7	RIG SERVICE
1030	1300	2½	2	DRILL OUT CEMENT
1300	1330	½	15	PRESSURE TEST HYDRIL (LOW 3500 kPa - 10 min HIGH 10500 kPa (10 min)
1330	1730	4	2	DRILL OUT CEMENT
1730	1815	¾	2	DRILL 216mm HOLE
1815	1900	¾	5	CIRCULATE BOTTOMS UP
1900	2000	1	21	LEAK OFF TEST W/DOWELL

BOILER HOURS 3x12

DRILLER Bud Richard

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	10D		
SIZE		216	
MFG.		HW	
TYPE		J-3	
JETS mm	12	12	12
SER. No.		97737	
DEPTH OUT		763	
DEPTH IN		204	
TOTAL METRES DRILLED		559	
TOTAL HRS. RUN		26	
COND. T/B's T/B/ GAGE		3 2 1	
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAREL. P COM'D. C
763												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2015	¼	7	Rig Service & BOP (Pipe Rams)
2015	2130	1¼	6	Hoist To Log & Cement Bond Variable Density
2130	2400	2½	11	Rig up Schlumberger To Run Bond Log / Logging

BOILER HOURS 3V4

DRILLER Dave Lunch

FORM 3T8m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
POTET AT TWEED LAKE	177-47		82 1

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA RESOURCES	ATCO EQUITAK	96

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
	Dave Lamb

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.70	E	150	XH	1	1	EMSCO	D-500	406
						2	"	"	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
340	315.3	BTS	101	K-55	5	63.97	6.12	64

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL		24	7½
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE	3½		
6.	TRIPS	½	½	
7.	LUBRICATE RIG	¼		¼
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.	2½	2½	
16.	DRILL STEM TEST			
17.	PLUG BACK			
18.	SQUEEZE CEMENT			
19.	FISHING			
20.	DIR. WORK			
21.	Repairs	1		
22.	WOO		½	
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.23	m
1	BIT SUB	.74	m
	STB RMR OD		m
3	D.C. ID 171 OD	25.26	m
1	STB RMR XO OD	.77	m
	D.C. ID OD		m
	STB RMR OD		m
	BHA	29.27	m
	STANDS DP		m
1	SINGLES DP	9.64	m
	KELLY DOWN	4.70	m
	TOTAL	44.35	m
	(FORCE) WT. OF STRING	16 000	daN

BIT RECORD

BIT No.	100	
SIZE	216	
MFG.	HW	
TYPE	J-3	
JETS mm	3x12	
SER. No.	47737	
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	BIT SUB	.74	m
1	STB RMR TAG OD	4.36	m
15	D.C. ID 171 OD	141.40	m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	BHA	146.45	m
2	STANDS DP	57.56	m
	SINGLES DP		m
	KELLY DOWN	6.04	m
	TOTAL	210	m
	(FORCE) WT. OF STRING	36 000	daN

BIT RECORD

BIT No.	104	
SIZE	216	
MFG.	HW	
TYPE	J-3	
JETS mm	3x12	
SER. No.	97737	
DEPTH OUT	204	
DEPTH IN		
TOTAL METRES DRILLED	6	
TOTAL HRS. RUN	1	
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.20	m
1	BIT SUB	.74	m
	STB RMR OD		m
6	D.C. ID 171 OD	56.35	m
1	STB RMR TAG OD	9.36	m
9	D.C. ID 171 OD	85.05	m
1	STB RMR 5/8 OD	.77	m
	BHA	147.47	m
6	STANDS DP	162.76	m
1	SINGLES DP	9.61	m
	KELLY DOWN	14.16	m
	TOTAL	334	m
	(FORCE) WT. OF STRING	42 000	daN

BIT RECORD

BIT No.	10D	
SIZE	216	
MFG.	HW	
TYPE	J-3	
JETS mm	12 12 12	
SER. No.	97737	
DEPTH OUT		
DEPTH IN	204	
TOTAL METRES DRILLED	130	
TOTAL HRS. RUN	8 3/4	
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DAY TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL-P COM'D-C
204	210	6			80	6 000	5000	152	40	152		S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 2x8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0930	1½	15	RIG CEMENTERS TO PRESSURE TEST
0930	1100	1½	22	WAIT ON ORDERS CIRC.
1100	1200	1	15	PRESSURE TEST PIPE RAMS. LOW 1400 KPA HIGH 21000 (OK.)
1200	0315	1¼	2	DRILL OUT PLUG ON TOP OF PACKER 44.4m.
0315	1500	1¾	6	PULL UP, CHANGE BIT NOZZELS RUN IN TO TAG CEMENT @ 204m
1500	1600	1	2	DRILL OUT CEMENT.

DRILLER Jack McCann

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL-P COM'D-C
210	334	12	4		150	2/5	5000	152	40	152		S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1600	1922	3	2	DRILL OUT CEMENT
1900	1912	¼	7	Rig SERVICE, W BOP'S
1912	2400	4¾	2	DRILL OUT CEMENT

DRILLER Dave Lamb

EVENING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

DRILLER

FORM 3T6m

APPROVAL PENDING

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OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT No.

WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
K TWEED LAKE	M-47	85 / 1 31

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA INC	ATCO / EQUITAK	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
	Dave Lauck

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.70	E	5 1/2	X H	1	1	EMSCO	D-500	406
						2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1 — SIZE 7/8 — No. LINES 8 — METRES SLIPPED — METRES CUT OFF — PRESENT LENGTH — MEGAJOULES SINCE LAST CUT — CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL			
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS			
7.	LUBRICATE RIG	1/4		
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.	7 3/4	12	
15.	TEST B.O.P.			4
16.	DRILL STEM TEST			
17.	PLUG BACK			
18.	SQUEEZE CEMENT			
19.	FISHING			
20.	DIR. WORK			
21.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0400	4	14	CUT CSG & WELD ON BOWL
0400	0415	1/4	17	RIG SER
0415	0800	3 3/4	14	HEAD UP.
		8		PRES. TEST BOPE TO 3000 PSI W/ GREASE — $15 min ON RIG.

BOILER HOURS 3X8

DRILLER Rick Boyce

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR'EL-P COM'D-C
				4								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	2000	12	14	HEAD UP B.O.P.S.

BOILER HOURS 3X12

4

DRILLER Jack McCloy

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0930	1 1/2	15	Mix Glycol & Water Rig Down to Pressure Test.
0930	2400	2 1/2	15	Pres Test Manifold Blind Rams Low 140 KPA High 21000 KPA

BOILER HOURS 3X4

DRILLER Rick Boyce

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

LEASE	WELL No.	WELL NUMBER	Yr.	Mo.
PI ET AL TWEED LAKE	MT40			

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA INC	ATCO EQUIP	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Dave Lauck

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.70	E	150	XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	340	315.3	BTC	101	K55	5	63.97	6.12	64

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
1 3/8	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL			
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS			
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	8	5 1/4	
13.	WAIT ON CEMENT		6 1/2	3
14.	NIPPLE UP B.O.P.			12
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. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR'L P COM'D C
760	TD											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0700	7	12	RUN 245 mm CSG.
0700	0800	1	12	Rig up & Circ Csg.
				RAN 61 JTS 244.5 mm CASING (23 JTS 30.95 65 KG/m + 38 JTS K80 - 60KG/m) ~~+ FC & FT.~~
				F.S. LANDED @ 760m - F.C. @ 719.31m - ECP @ 48m - DV Tool @ 45m

BOILER HOURS 3K8

DRILLER Rick Bourgon

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR'L P COM'D C
CMTD	1ST STAGE	W/ 1/4%	CFR	NEAT - DISP	TO	231m	- ANN.					
BRIDGED	OFF -	UNABLE	TO	DISP W/ 30 KPA	PRESS -	P.D.:	550-30	12.3				
EST. TOP	OF	CMT IN	ANN.	@ 350m								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0300	0815	1/4	7	RIG SERVICE
0815	0930	1 1/4	12	WAIT ON CEMENTERS TO HEAD UP.
0930	1330	4	12	~~HOLE DOWN~~ CEMENTING WITH DOWELL
1330	2000	6 1/2	13	WOC
				STAGE 2 FROM 45m TO SURF W/ MT'C
				72% Calc - 1.5 m³ CMT RETURNS TO SURF.
				P.D. 85-01-30-13:34

BOILER HOURS 3X12

DRILLER Jack McCabe

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR'L P COM'D C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2300	3	13	W.O.C.
2300	2315	1/4	7	Rig Ser.
2315	2400	3/4	14	Cut Csg + WOC on Bowl

BOILER HOURS 3x4

DRILLER Rick Bourgon

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
PCI ETAL TWEED LAKE	TM-47		85 1 29

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA INC.	AICO/EQUITAK	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
	Dave Lauck

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.70	E	150	XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	340	315.3	BTC	101	K-55	5	63.97	6.12	64.

WIRE LINE RECORD REEL No. 1

SIZE	No. LINES	METRES SLIPPED
1 7/8	8	

METRES CUT OFF — PRESENT LENGTH 1021

MEGAJOULES SINCE LAST CUT 492T

CUMULATIVE MEGAJOULES 17055

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	1/2		
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE	1 1/4		
6.	TRIPS	2 1/2		1/2
7.	LUBRICATE RIG			1/4
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY			
11.	WIRE LINE LOGS	3 1/2		
12.	RUN CASING & CEMENT			3 1/4
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.	UNLOAD HOLE	1/2		
22.	DISPATCH			
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
TOTALS		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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30 m	
1	B.T SUB	1.17	
	STB RMR OD	m	
3	D.C. ID 228 OD	27.59 m	
1	STB RMR SARS OD	5.49 m	
1	D.C. ID XO OD	.65 m	
15	STB RMR 171 OD	141.40 m	
1	XO	.77	
	BHA	177.37	
20	STANDS DP	574.23 m	
	SINGLES DP	m	
	KELLY DOWN	8.40 m	
	TOTAL	760.00 m	
	(FORCE) WT. OF STRING	60,000 daN	

BIT RECORD

BIT No.	9
SIZE	311
MFG.	H-W
TYPE	J-33
JETS mm	OPEN
SER. No.	2822
DEPTH OUT	760
DEPTH IN	624
TOTAL METRES DRILLED	136
TOTAL HRS RUN	27 3/4
COND 1/8's T/B/ GAGE	3 3 W
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DRILLING ASSEMBLY (at end of tour)

	BIT	m
	STB RMR OD	m
	D.C. ID OD	m
	STB RMR OD	m
	D.C. ID OD	m
	STB RMR OD	m
	STANDS DP	m
	SINGLES DP	m
	KELLY DOWN	m
	TOTAL	m
	(FORCE) WT. OF STRING	daN

BIT RECORD

BIT No.	#1 = KSS-GR-CAK
SIZE	25m TO 60m
MFG.	
TYPE	LOG #2 = DULL GR = 25m TO
JETS mm	60m
SER. No.	
DEPTH OUT	LOG #3 = RUN GR = 25m TO
DEPTH IN	60m
TOTAL METRES DRILLED	
TOTAL HRS RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DRILLING ASSEMBLY (at end of tour)

	BIT	m
	STB RMR OD	m
	D.C. ID OD	m
	STB RMR OD	m
	D.C. ID OD	m
	STB RMR OD	m
	STANDS DP	m
	SINGLES DP	m
	KELLY DOWN	m
	TOTAL	m
	(FORCE) WT. OF STRING	daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DAY TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL.-S PAR.EL-P COM'D-C
758	760	2		STRAP - 759.95	5/100	8/10	3500	152		152		AIR.
				BOARD - 760.00								
				DIFF - .05								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3 x 8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0030	1/2	2	DRILL
0030	0100	1/2	5	CIRC + WORK TIGHT HOLE
0100	0130	1/2	6	DUMMY TRIP - 5 STDS
0130	0200	1/2	21	UNLOAD HOLE
0200	0245	3/4	5	CIRC + COND HOLE
0245	0430	1 3/4	6	STRAP OUT TO LOG
0430	0800	3 1/2	11	RIG UP LOGGERS & LOG.

DRILLER Rick Berge

EVENING TOUR

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 SGL.-S PAR.EL-P COM'D-C
				6 TM. JOINT CONDUCTOR PIPE								
				PIPE TO Dropped 5 & METRES								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3 x 12

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1200	4	4	LOG WITH SCHLUMBERGER
1200	1500	3	6	TOOK OUT LOGGERS RUN IN HOLE (HIT BOTTOM OF CASING)
1500	1600	1	21	Blow Hole.
1600	1630	1/2	5	CIRCULATE COND. HOLE TO RUN 9 5/8 CSG.
1630	1645	1/4	9	Rig Service
1645	1730	3/4	22	DISPLACE HOLE WITH 1600 MUD.
1730	1930	2 1/2	6	POOH. ~~LAY DOWN 222 mm D.C.~~
1930	2000	1/2		LAY DOWN 222mm D.C's.

DRILLER Jack McKee

EVENING TOUR

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 SGL.-S PAR.EL-P COM'D-C
760 TD												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3 x 4

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2030	1/2	6	LAY DOWN 222mm COLLARS
2030	2200	1 1/2	12	Rig up To Run CSG.
2200	2215	1/4	7	Rig Ser
2215	2400	1 3/4	12	RUN 245 mm CSG.

DRILLER Rick Berge

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
ACI ET AL TWEED LAKE	477447		85 / 1-28 Yr. Mo. Day
OPERATOR		**CONTRACTOR**	**RIG No.**
		ATCO EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
		Dave Tanck	

D.P. SIZE	kg/m	GRADE	TOOL JT. O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.70	E	150	XH	1	1	EMSCO	D-500	406
						2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1

SIZE 7/8 — No. LINES 8 — METRES SLIPPED

METRES CUT OFF — PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
340	363	BTC	101	K55	5	63.97	6.12	64

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	6	5½	3
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS		1½	
7.	LUBRICATE RIG		½	
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY	½		½
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.	UNDERHOLE REAMING	1½	1½	½
22.	WAIT ON CASING		3½	
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	30 m	
1	BIT SUB	1.17	
	STB RMR OD	m	
3	D.C. ID 222 OD	27.59 m	
1	STB RMR 222 OD	5.49 m	
1	D.C. ID XO OD	.65 m	
15	STB RMR 171 OD	141.40 m	
1	XO	.77	
	BHA	177.37	
18	STANDS DP	516.74 m	
	SINGLES DP	m	
	KELLY DOWN	13.33 m	
	TOTAL	707.44 m	
	(FORCE) WT. OF STRING	58 000 daN	

BIT RECORD

BIT No.	9C	
SIZE	311	
MFG.	HW	
TYPE	J-33	
JETS mm	20 20 W	
SER. No.	2822	
DEPTH OUT		
DEPTH IN	624	
TOTAL METRES DRILLED	83	
TOTAL HRS. RUN	18½	
COND. 1/8's T/B/ GAGE	0A	
FLOW RATE m³/min	/ / /	
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DRILLING ASSEMBLY (at end of tour)

No.		
1	BIT	30 m
1	BIT SUB	1.17
3	STB RMR 222 OD	27.59 m
1	D.C. ID 222 OD	5.49 m
1	STB RMR XO OD	.65 m
15	D.C. ID 171 OD	141.40 m
1	STB RMR XO OD	.77 m
	BHA	177.37
18	STANDS DP	545.71 m
1	SINGLES DP	7.88 m
	KELLY DOWN	13.39 m
	TOTAL	745.76 m
	(FORCE) WT. OF STRING	60 000 daN

BIT RECORD

BIT No.	9C	
SIZE	311	
MFG.	HW	
TYPE	J-33	
JETS mm	20 20 W	
SER. No.	2822	
DEPTH OUT		
DEPTH IN	624	
TOTAL METRES DRILLED	121	
TOTAL HRS. RUN	24¾	
COND. 1/8's T/B/ GAGE	0A	
FLOW RATE m³/min	/ / /	
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.		
1	BIT	30 m
1	BIT SUB	1.17
3	STB RMR 222 OD	27.59 m
1	D.C. ID 222 OD	5.49 m
1	STB RMR XO OD	.65 m
15	D.C. ID 171 OD	141.40 m
1	STB RMR XO OD	.77 m
	BHA	177.37
18	STANDS DP	545.71 m
1	SINGLES DP	7.88 m
	KELLY DOWN	13.39 m
	TOTAL	745.76 m
	(FORCE) WT. OF STRING	60 000 daN

BIT RECORD

BIT No.	9C	
SIZE	311	
MFG.	HW	
TYPE	J-33	
JETS mm	20 20 W	
SER. No.	2822	
DEPTH OUT		
DEPTH IN	624	
TOTAL METRES DRILLED	121	
TOTAL HRS. RUN	24¾	
COND. 1/8's T/B/ GAGE	0A	
FLOW RATE m³/min	/ / /	
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.		
1	BIT	30 m
1	BIT SUB	1.17
	STB RMR OD	m
3	D.C. ID 222 OD	2.59 m
1	STB RMR 222 OD	5.41 m
1	D.C. ID XO OD	.65 m
15	STB RMR 171 OD	141.40 m
1	XO	.77
	BHA	177.37
2	STANDS DP	574.23 m
1	SINGLES DP	
	KELLY DOWN	1.40 m
	TOTAL	755.00 m
	(FORCE) WT. OF STRING	60 000 daN

BIT RECORD

BIT No.	9C	
SIZE	311	
MFG.	HW	
TYPE	J-33	
JETS mm	20 20 W	
SER. No.	2822	
DEPTH OUT	—	
DEPTH IN	624	
TOTAL METRES DRILLED	131	
TOTAL HRS. RUN	27¾	
COND. 1/8's T/B/ GAGE	0A	
FLOW RATE m³/min	/ / /	
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

MORNING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COMP'D C
671	707	36			90/40	10/18	350	152		152		AIR

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
698	1½							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0200	0300	3	2	DRILL
0300	0400	1	21	UNLOAD HOLE
0400	0700	3	2	DRIL
0700	0715	¼	10	SURVEY
0715	0800	¾	21	UNLOAD HOLE

BOILER HOURS 3x8

DRILLER Rick Boyce

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COMP'D C
~~680~~	~~685~~				90/110	1½/18	350	152		152		
707	736	38										
736	745			CONTROL DRILLING	100	10	350					

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0815	¼	7	RIG SERVICE
0815	0930	1¼	2	DRILL 311 mm HOLE
0930	1000	½		WORK TIGHT HOLE
1000	1100	1		DRILL 311 mm HOLE
1100	1215	1¼		WORK TIGHT HOLE CIRCULATE TO TIGHTEN A-LEG BOLTS
1215	1315	1		DRILL 311mm HOLE
1315	1445	1½		Work Tight & Circulate
1445	1615	1½	6	Dummy Trip 15 Stands.

1730 — 1730 — 2000 — 1½ — Flow Hole — 2½ — DRIL

BOILER HOURS 3x12

DRILLER Jack McLeod

EVENING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COMP'D C
745	756	13		CONTROL DRIL	90/100	8/10	350	152		152		AIR

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
736	1¾							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2030	½	10	SURVEY
2030	2100	½	21	UNLOAD HOLE
2100	2400	3	2	DRILL

BOILER HOURS 3x4

DRILLER Rick Boyce

FORM 3T8m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
PCI ET AL TOWED RIG	M-47		85 1 27
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA INC.		ATCO / EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Mark Lenko		Dave Lauck	

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.70	E	150	XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

SIZE 7/8 | No. LINES 3 | METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH 1067

MEGAJOULES SINCE LAST CUT 3662 4202

CUMULATIVE MEGAJOULES ~~15512~~ 16330

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
340	315.3	BT+C	101	K55	5	63.97	6.12	64

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	3¼	9¾	2¾
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS	3	2	
7.	LUBRICATE RIG		¼	
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY	¼		¼
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.	WAIT ON STARS	1½		
22.	UNLOAD HOLE			1
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
1	BIT	.30 m	BIT No.	8C	9C	TIME	0400
1	BIT SUB	1.17	SIZE	311	311	DENSITY kg/m³	1032
	STB RMR OD	m	MFG.	HW	HW	PRESSURE GRADIENT	
3	D.C. ID 222 OD	27.59 m	TYPE	T-22	T-33	VISCOSITY	46
1	STB RMR ~~STAB~~ OD	5.49 m	JETS mm	OPEN	OPEN	PV YP mPa•s Pa	/ / /
~~19~~	D.C. ID ~~177.40~~ OD	~~55.47~~ m	SER. No.	85327	2822	GEL STR. Pa	/ / /
1	STB RMR X O OD	.65 m	DEPTH OUT	624		WATER LOSS cm³	
15	171	141.40	DEPTH IN	515	624	pH	9.0
1	X O	.77	TOTAL METRES DRILLED	109		SOLIDS %	
	BHA	177.37	TOTAL HRS. RUN	32¼			
15	STANDS DP	430.53 m	COND. 1/8's T/B/ GAGE	8 6 IN		MUD & CHEMICALS ADDED	
1	SINGLES DP	9.60 m	FLOW RATE m³/min	/	/	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	6.50 m	PRESSURE DROP kPa				
	TOTAL	624.00 m					
	(FORCE) WT. OF STRING	56,000 daN					

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
1	BIT	.30 m	BIT No.	9C		TIME	1400
1	BIT SUB	1.17	SIZE	311		DENSITY kg/m³	1050
	STB RMR OD	m	MFG.	HW		PRESSURE GRADIENT	
3	D.C. ID 222 OD	27.59 m	TYPE	T-33		VISCOSITY	44
1	STB RMR ~~STAB~~ OD	5.49 m	JETS mm	OPEN		PV YP mPa•s Pa	/ / /
	D.C. ID OD	m	SER. No.	2822		GEL STR. Pa	/ / /
1	STB RMR X O OD	.77 m	DEPTH OUT			WATER LOSS cm³	
15	171	141.40	DEPTH IN	624		pH	
1	X O	.77	TOTAL METRES DRILLED	33		SOLIDS %	
	BHA	177.37	TOTAL HRS. RUN	9¾			
16	STANDS DP	459.36 m	COND. 1/8's T/B/ GAGE			MUD & CHEMICALS ADDED	
1	SINGLES DP	9.61 m	FLOW RATE m³/min	/	/	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	10.66 m	PRESSURE DROP kPa			Caustic 2 sx	
	TOTAL	657 m					
	(FORCE) WT. OF STRING	58,000 daN					

DAY TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
1	BIT	.30 m	BIT No.	9C		TIME	
1	BIT SUB	1.17	SIZE	311		DENSITY kg/m³	
	STB RMR OD	m	MFG.	HW		PRESSURE GRADIENT	
3	D.C. ID 222 OD	27.59 m	TYPE	T-33		VISCOSITY	
1	STB RMR STAB OD	5.49 m	JETS mm	OPEN		PV YP mPa•s Pa	/ / /
	D.C. ID OD	m	SER. No.	2822		GEL STR. Pa	/ / /
1	STB RMR X O OD	.65 m	DEPTH OUT			WATER LOSS cm³	
15	171	141.40	DEPTH IN	624		pH	
1	X O	.77	TOTAL METRES DRILLED	47		SOLIDS %	
	BHA	177.37	TOTAL HRS. RUN	12½			
17	STANDS DP	468.15 m	COND. 1/8's T/B/ GAGE	OPEN		MUD & CHEMICALS ADDED	
	SINGLES DP		FLOW RATE m³/min	/	/	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	5.49 m	PRESSURE DROP kPa				
	TOTAL	678 00 m					
	(FORCE) WT. OF STRING	58,000 daN					

EVENING TOUR

MORNING TOUR

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 SGL..S PAR'EL..P COM'D..C
620	624	4			89/100	14/19	3500	152	/	152	/	AIR

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
620	1¼							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0315	3¼	2	DRILL
0315	0330	¼	10	SURVEY
0330	0500	1½	6	PULL OUT
0500	0630	1½	21	WAIT ON JARS
0630	0800	1½	6	MAKE UP BHA + RUN IN BIT #9C

BOILER HOURS 3x8

DRILLER Rick Bergum

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 SGL..S PAR'EL..P COM'D..C
624	657	33			89/110	14/18	3500	152	/	152	/	/

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1000	2	6	FINISH RUNNING IN HOLE & UNLOAD HOLE
1000	1730	7½	2	DRILL 311mm HOLE
1730	1745	¼	7	RIG SERVICE
1745	2000	2¼	2	DRILL 311mm HOLE
		12		

BOILER HOURS 3x12

DRILLER Jack McElroy

DAY TOUR

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 SGL..S PAR'EL..P COM'D..C
657	671	14			89/110	16/18	3500	152	-	152	-	AIR

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
660	1¾							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2215	2¼	2	DRILL
2215	2230	¼	10	SURVEY
2230	2330	1	22	UNLOAD HOLE
2330	2400	½	2	DRILL

BOILER HOURS 3x4

DRILLER Rick Bergum

EVENING TOUR

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
PCI FT ALTURED LAKE	11-47		85 / 12 / 26 Yr. Mo. Day
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA INC		ATCO/EQUITY	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Pachut		Dave Jarock	

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.70	E	150	XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
340	315.3	BTC	101	K-55	5	63.97	6.12	64

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
1/8	8	

METRES CUT OFF — PRESENT LENGTH 1027

MEGAJOULES SINCE LAST CUT 3662

CUMULATIVE MEGAJOULES 15790

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	7	10	2 1/4
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS			
7.	LUBRICATE RIG	1/4	1/4	1/4
8.	REPAIR RIG			1
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY		3/4	
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.	UNLOAD HOLE	3/4	3/4	1/2
22.	BOP DRILL		1/4	
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1	BIT SUB	1.17	
	STB RMR OD		m
3	D.C. ID 222 OD	27.54	m
1	STB RMR X O OD	.65	m
3	D.C. ID 171 OD	28.17	m
1	STB RMR NB OD	4.33	m
12	171	113.23	
1	X O	.77	
	BHA	176.21	
13	STANDS DP	372.89	m
1	SINGLES DP	9.57	m
	KELLY DOWN	9.31	m
	TOTAL	568.00	m
	(FORCE) WT. OF STRING	55,900	daN

BIT RECORD

BIT No.	8		
SIZE	311		
MFG.	HW		
TYPE	J-22		
JETS mm	OPEN		
SER. No.	85327		
DEPTH OUT	—		
DEPTH IN	515		
TOTAL METRES DRILLED	53		
TOTAL HRS. RUN	16 3/4		
COND. 1/8's T/B/ GAGE	0/0		
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			16.00
DENSITY kg/m³			1030
PRESSURE GRADIENT			
VISCOSITY			47
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			7.0
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
GEL	3 sx		
MUDLIG	1 sx		
CAUSTIC	1 sx		

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1	BIT SUB	1.17	
	STB RMR OD		m
3	D.C. ID 228 OD	27.59	m
1	STB RMR XO OD	.65	m
3	D.C. ID 171 OD	28.17	m
1	STB RMR NB OD	4.33	m
12	171	113.23	
1	XO	.77	
	BHA	176.21	
15	STANDS DP	430.53	m
1	SINGLES DP		m
	KELLY DOWN	7.26	m
	TOTAL	614	m
	(FORCE) WT. OF STRING	56,000	daN

BIT RECORD

BIT No.	8		
SIZE	311		
MFG.	HW		
TYPE	J-22		
JETS mm	OPEN		
SER. No.	85327		
DEPTH OUT	—		
DEPTH IN	515		
TOTAL METRES DRILLED	99		
TOTAL HRS. RUN	26 3/4		
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1	BIT SUB	1.17	
	STB RMR OD		m
3	D.C. ID 222 OD	27.59	m
1	STB RMR XO OD	.65	m
3	D.C. ID 171 OD	28.17	m
1	STB RMR NB OD	4.33	m
12	171	113.23	
1	XO	.77	
	BHA	176.21	
15	STANDS DP	430.53	m
1	SINGLES DP		m
	KELLY DOWN	13.33	m
	TOTAL	620.07	m
	(FORCE) WT. OF STRING	56,000	daN

BIT RECORD

BIT No.	8		
SIZE	311		
MFG.	HW		
TYPE	J-22		
JETS mm	OPEN		
SER. No.	85327		
DEPTH OUT	—		
DEPTH IN	515		
TOTAL METRES DRILLED	105		
TOTAL HRS. RUN	29		
COND. 1/8's T/B/ GAGE	0/0		
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DAY TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL..P COM'D..C
568	568	24			60/90	14/18	2500	152		152		AIR

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0200	2	2	DRILL
0200	0215	1/4	7	RIG SER.
0215	0500	2 3/4	2	DRILL
0500	0545	3/4	21	UNLOAD WATER FROM HOLE
0545	0800	2 1/4	2	DRILL

BOILER HOURS 3X8

DRILLER Rick Bacon

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 SGL..S PAR'EL..P COM'D..C
568					80/100	7/8	3000	152	—	152	—	—
568	614	46										

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
562	1°		591	1 1/4	—			

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0830	1/2	2	DRILL 311 mm HOLE 1645 - 2000 1/4 - DRILL 311mm HOLE 3/4
0830	0845	1/4	10	SURVEY @ 562 m.
0845	0900	1/4	7	RIG SER. CHECK CROWN STOPPER
0900	1315	4 1/4	2	DRILL 311 mm HOLE
1315	1400	3/4	21	UNLOAD HOLE
1400	1600	2	2	DRILL 311 mm HOLE
1600	1615	1/4	22	BOP DRILL
1615	1645	1/2	10	SURVEY & UNLOAD HOLE

BOILER HOURS 3X12

DRILLER

EVENING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL..P COM'D..C
614	620	6			80/100	6/18	3000	K2		152		AIR

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0830			
2000	2045	3/4	2	DRILL
2045	2145	1	8	PULL GRAVITY HEAD + LEVEL ON RIG
2145	2215	1/2	21	UNPLUG GRAVITY HEAD + UNLOAD HOLE
2215	2345	1 1/2	2	DRILL
2345	2400	1/4	7	RIG SER.

BOILER HOURS 3X4

DRILLER Rick Bacon

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
PCI. ETAL TWEED LAKE	M-47		85 01 25
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO - CANADA INC.		ATCO / EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Pachuk		Dave Lynch	

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.70	E	150	4½ XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1

SIZE 1 1/16 | No. LINES 8 | METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
340	315.3	BT-C	101	K 55	5	62.97	6.12	64

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			5
2.	DRILL ACTUAL	7¾	7¾	7
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS		2¾	
7.	LUBRICATE RIG	¼		
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY			¼
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.	WORK ON AIR DRLG.		2½	
22.	UNLOAD HOLE			¾
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30 m	
1	BIT SUB	1.17	
	STB RMR OD	m	
3	D.C. ID 222 OD	27.59 m	
1	STB RMR C/O OD	.65 m	
3	D.C. ID 171 OD	28.17 m	
1	STB RMR JARS OD	4.33 m	
12	171mm D.C.	113.23	
1	C/O	.77	
TOTAL B.H.A.		176.21	
11	STANDS DP	315.43 m	
2	SINGLES DP	19.22 m	
	KELLY DOWN	4.14 m	
	TOTAL	515 m	
(FORCE) WT. OF STRING		52 000 daN	

BIT RECORD

BIT No.	7C
SIZE	311
MFG.	H.W
TYPE	J-33
JETS mm	OPEN
SER. No.	99467
DEPTH OUT	515
DEPTH IN	273
TOTAL METRES DRILLED	242 242
TOTAL HRS. RUN	50 3/4
COND. 1/8's T/B/ GAGE	4 4 IN
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³	DRILLING		
PRESSURE GRADIENT	W/ STABLE		
VISCOSITY	FOAM		
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL..P COM'D..C.
494	515	20			60/110	17/19	2000	152	—	152	—	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	03 00	3	2	DRILL 311mm HOLE
03 00	03 15	¼	7	RIG SERVICE
03 15	08 00	4¾	2	DRILL 311mm HOLE
		8		

BOILER HOURS 3 x 8

DRILLER Brian Pachuk

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	30 m	
1	BIT SUB	1.17	
	STB RMR OD	m	
3	D.C. ID 222 OD	27.59 m	
1	STB RMR C/O OD	.65 m	
3	D.C. ID 171 OD	28.17 m	
1	STB RMR JARS OD	4.33 m	
12	171	113.23	
1	X O	.77	
	BHA	176.21	
11	STANDS DP	315.43 m	
2	SINGLES DP	19.22 m	
	KELLY DOWN	12.14 m	
	TOTAL	523.00 m	
(FORCE) WT. OF STRING		52,000 daN	

BIT RECORD

BIT No.	8C
SIZE	311
MFG.	H-W
TYPE	J-22
JETS mm	OPEN
SER. No.	85327
DEPTH OUT	515
DEPTH IN	515
TOTAL METRES DRILLED	8
TOTAL HRS. RUN	2¾
COND. 1/8's T/B/ GAGE	1/1/
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL..P COM'D..C.
515	523	8			60/80	14/12	2500	152		152		AIR

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0930	1½	6	HOIST. BIT #7C
0930	1045	1¼	6	MAKE UP BIT #8C + RUN IN
1045	1315	2½	21	CHANGE RUBBER IN GRANT HEAD & UNLOAD HOLE
1315	1600	2¾	2	DRILL
		8		

BOILER HOURS 3 x 8

DRILLER Rick Bergin

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30 m	
1	BIT SUB	1.17	
	STB RMR OD	m	
3	D.C. ID 226 OD	27.59 m	
1	STB RMR X O OD	.65 m	
3	D.C. ID 171 OD	28.17 m	
1	STB RMR JARS OD	4.33 m	
12	171mm D.C.	113.23	
1	X O	.77	
TOTAL BHA		176.21	
12	STANDS DP	344.26 m	
1	SINGLES DP	9.62	
	KELLY DOWN	13.91 m	
	TOTAL	544 m	
(FORCE) WT. OF STRING		53,000 daN	

BIT RECORD

BIT No.	8C
SIZE	311
MFG.	H-W
TYPE	J-22
JETS mm	OPEN
SER. No.	85327
DEPTH OUT	
DEPTH IN	515
TOTAL METRES DRILLED	29
TOTAL HRS. RUN	9¾
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³	DRILLING		
PRESSURE GRADIENT	W/ STABLE		
VISCOSITY	FOAM		
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL..P COM'D..C.
523	544	21			80/100	16/16	3000	152	—	152	—	—

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
515	1/2							

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1600	1615	¼	10	SURVEY @ 515 m.
1615	1700	¾	22	UNLOAD WATER FROM HOLE
1700	0400	7	2	DRILL 311mm HOLE
		8		

BOILER HOURS 3 x 8

DRILLER Jack McQuay

CREW	
DRILL	
DERRI	
MOTO	
FLOC	
FLC	

FORM 31 6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
PCT. ETAL TOWED LAKE	47		85 01 24

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA INC.	ATCO / EQUITAK	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Michael Pachuk	Dave Lauck

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.70	E	150	4½ XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1

SIZE 1 1/8 | No. LINES 8 | METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
340	315.3	BTC	101	K55	5	63.97	6.12	64

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	9½	8	3
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS			
7.	LUBRICATE RIG	¼	¼	
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY	¼		¼
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.	UNLOAD HOLE	¾		¾
22.	REPAIR MUD FOOT	2½		
23.	BOP DRILL	¼	¼	
COMPLETION 24.	A. PERF'R'T'N		6½	
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1	BIT SUB	1.17	
	STB RMR OD		m
3	D.C. ID 222 OD	27.59	m
1	STB RMR C/O OD	.65	m
3	D.C. ID 171 OD	28.17	m
1	STB RMR JAR OD	4.33	m
12	171mm D.C.	113.23	
1	C/O	.77	
TOTAL	BHA	176.21	
9	STANDS DP	258.49	m
1	SINGLES DP	9.62	m
	KELLY DOWN	11.68	m
	TOTAL	456	m
	(FORCE) WT. OF STRING	49 000	daN

BIT RECORD

BIT No.	7C
SIZE	311
MFG.	H.W.
TYPE	J-33
JETS mm	OPEN
SER. No.	99467
DEPTH OUT	
DEPTH IN	273
TOTAL METRES DRILLED	183
TOTAL HRS. RUN	35
COND 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³	DRILLING		
PRESSURE GRADIENT	W/STABLE		
VISCOSITY			
PV YP mPa•s Pa	/	Foam	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
GEL	8 sx	PREMIX	
KALZAN	1 sx		

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1	BIT SUB	1.17	
	STB RMR OD		m
3	D.C. ID 222 OD	27.59	m
1	STB RMR XO OD	.65	m
3	D.C. ID 171 OD	28.17	m
1	STB RMR JAR OD	4.33	m
12	171	113.23	
1	XO	.77	
	BHA	176.21	
10	STANDS DP	286.99	m
1	SINGLES DP		m
	KELLY DOWN	13.28	m
	TOTAL	476.48	m
	(FORCE) WT. OF STRING	52 000	daN

BIT RECORD

BIT No.	7C
SIZE	311
MFG.	HW
TYPE	J-33
JETS mm	OPEN
SER. No.	99467
DEPTH OUT	—
DEPTH IN	273
TOTAL METRES DRILLED	203
TOTAL HRS. RUN	40
COND. 1/8's T/B/ GAGE	2 8
FLOW RATE m³/min	/
PRESSURE DROP kPa	

MUD RECORD

TIME		17 30	
DENSITY kg/m³		1050	
PRESSURE GRADIENT	Foam		
VISCOSITY		53	
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH		9.5	
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1	BIT SUB	1.17	
	STB RMR OD		m
3	D.C. ID 222 OD	27.59	m
1	STB RMR C/O OD	.65	m
3	D.C. ID 171 OD	28.17	m
1	STB RMR JAR OD	4.33	m
12	171mm D.C.	113.23	
1	C/O	.77	
Total	BHA	176.21	
18	STANDS DP	286.99	m
2	SINGLES DP	18.99	
	KELLY DOWN	11.81	m
	TOTAL	494	m
	(FORCE) WT. OF STRING	50 000	daN

BIT RECORD

BIT No.	7C
SIZE	311
MFG.	H-W
TYPE	J-33
JETS mm	OPEN
SER. No.	99467
DEPTH OUT	
DEPTH IN	273
TOTAL METRES DRILLED	221
TOTAL HRS. RUN	43
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³	DRILLING		
PRESSURE GRADIENT	W/STABLE		
VISCOSITY	Foam		
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

MORNING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL-P COM'D-C
428	456	28			99/100	17/18	2500	152	—	152		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
419	¾							

BOILER HOURS 3 x 8

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	00 15	¼	7	Rig SERVICE, V MOTOR SHUT OFFS
00 15	00 30	¼	10	SURVEY @ 419m
00 30	01 15	¾	21	UNload WATER FROM HOLE
01 15	01 45	½	2	DRILL 311mm HOLE W/AIR
01 45	04 15	2½	22	WORK ON AIR DRLG EQPT.
04 15	05 00	¾	2	DRILL 311mm HOLE W/AIR
05 00	05 15	¼	23	B.O.P. DRILL W/CREW
05 15	08 00	2¾	2	DRILL 311mm HOLE

DRILLER Brian Lockard

DAY TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL-P COM'D-C
456	476	20			90/100	17/18	2500	152		152		AIR

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3 x 12

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0830	½	2	DRILL
0830	0845	¼	7	Rig SER.
0845	0900	¼	23	BOP DRILL TIGHTEN B.O.P BOLTS
0900	1100	2	2	DRILL
1100	1730	6½	24	THAW OUT STANDPIPE, KELLY HOSE & AIR DRILLING EQPT.
1730	2000	2½	2	DRILL

DRILLER Rick Bargen

EVENING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL-P COM'D-C
476	494	18			90/100	18	2000	152	—	152	—	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
476	1°							

BOILER HOURS 3 x 4

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
20 00	21 15	1¼	2	DRILL 311mm HOLE W/AIR
21 15	21 30	¼	10	SURVEY @ 476m
21 30	22 45	¾	21	UNload WATER FROM HOLE
22 45	24 00	1¾	2	DRILL 311mm HOLE W/AIR
				C.O.G.L.A. RIG INSP. 85-01-24 Rig Moved

DRILLER Brian Lockard

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
PCI ETAL TWEED LAKE	M-47		85 01 23
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO-CANADA INC.		ATCO/EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Puchlik		Dave Tauck	

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.70	E	150	4½ XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1

SIZE 1 1/8 | No. LINES 8 | METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
340	315.3	BTC	101	K55	5	63.44	6.12	64

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	7½	10	4
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS			
7.	LUBRICATE RIG	1/4	1/4	
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY	1/4	1/2	
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.	Blow out Drill		1/4	
22.	Pump out Hole		1	
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1	BIT SUB	1.17	m
	STB RMR OD		m
3	D.C. ID 222 OD	27.59	m
1	STB RMR C/O OD	.65	m
3	D.C. ID 171 OD	28.17	m
1	STB RMR JAR OD	4.33	m
12	171mm D.C	113.23	m
1	C/O	.77	m
TOTAL BHA		176.21	m
6	STANDS DP	172.13	m
1	SINGLES DP	9.68	m
	KELLY DOWN	4.98	m
	TOTAL	363	m
(FORCE) WT. OF STRING		14,000	daN

BIT RECORD

BIT No.	7C	
SIZE	311	
MFG.	H-W	
TYPE	J-33	
JETS mm	OPEN	
SER. No.	99467	
DEPTH OUT		
DEPTH IN	273	
TOTAL METRES DRILLED	90	
TOTAL HRS. RUN	17	
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	0400		
DENSITY kg/m³	PREMIX 1045		
PRESSURE GRADIENT			
VISCOSITY		50	
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	/	/	/
pH		9.5	
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
GEL	14 SXS		
KELZAN	2 SXS		

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL-P COM'D-C
321	363	42			80/100	17/18	2000	152	—	152		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
332	1°							

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0245	2¾	2	DRILL 311mm HOLE W/AIR
0245	0300	¼	10	SURVEY @ 332m
0300	0315	¼	7	RIG SERVICE
0315	0800	4¾	2	DRILL 311mm HOLE W/AIR

BOILER HOURS 3x8

DRILLER Brian Pickard

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1		1.17	m
3	STB RMR 222 OD	27.59	m
	D.C. ID OD		m
1	STB RMR C/O OD	.65	m
3	D.C. ID 171 OD	28.17	m
1	STB RMR JAR OD	4.33	m
12	171	113.23	m
1	XO	176.77	m
	BHA	176.21	m
7	STANDS DP	200.99	m
2	SINGLES DP	19.24	m
	KELLY DOWN	11.56	m
	TOTAL	408.00	m
(FORCE) WT. OF STRING		49,000	daN

BIT RECORD

BIT No.	7C	
SIZE	311	
MFG.	H-W	
TYPE	J-33	
JETS mm	OPEN	
SER. No.	99467	
DEPTH OUT	—	
DEPTH IN	273	
TOTAL METRES DRILLED	135	
TOTAL HRS. RUN	27	
COND. 1/8's T/B/ GAGE	0/8	
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	1400		
DENSITY kg/m³	1052		
PRESSURE GRADIENT			
VISCOSITY	49		
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	/	/	/
pH	9.8		
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
GEL	16 50		
KELZAN	2 50		
CAUSTIC	1 50		

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL..S PAR'EL-P COM'D-C
363	408	45			80/100	16/18	1500	152		152		AIR
							2500					

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
361	½°							

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1000	2	2	DRILL
1000	1015	¼	7	RIG SER
1015	1045	½	10	SURVEY & PUMP OUT HOLE
1045	1700	6¼	2	DRILL
1700	1715	¼	21	BLOW OUT DRILL
1715	1815	1	22	PUMP WATER OUT OF HOLE
1815	2000	1¾	2	DRILL

BOILER HOURS 3x12

DRILLER Rick Boyer

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1	BIT SUB	1.17	m
	STB RMR OD		m
3	D.C. ID 222 OD	27.59	m
1	STB RMR C/O OD	.65	m
3	D.C. ID 171 OD	28.17	m
1	STB RMR JAR OD	4.33	m
12	171mm D.C	113.23	m
1	C/O	.77	m
TOTAL BHA		176.21	m
8	STANDS DP	229.84	m
1	SINGLES DP	9.62	m
	KELLY DOWN	12.33	m
	TOTAL	428	m
(FORCE) WT. OF STRING		49,000	daN

BIT RECORD

BIT No.	7C	
SIZE	311	
MFG.	H-W	
TYPE	J-33	
JETS mm	OPEN	
SER. No.	99467	
DEPTH OUT		
DEPTH IN	273	
TOTAL METRES DRILLED	155	
TOTAL HRS. RUN	31	
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³	DRILLING W/		
PRESSURE GRADIENT	STABLE		
VISCOSITY	FOAM		
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	/	/	/
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL-P COM'D-C
408	428	20			80/100	15/18	2500	152	—	152		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2400	4	2	DRILL 311mm HOLE W/AIR

BOILER HOURS 3x4

DRILLER Brian Pickard

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
PCI ETAL TWEED LAKE	M-47		85 01 22 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
PETRO-CANADA INC.	ATCO/EQUITEK	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Michael Pickett	Dave Lauck

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.70	E	150	4½ XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	340	315.3	BT+C	101	K55	5	63.97	6.12	64

WIRE LINE RECORD REEL No. 1

SIZE	No. LINES	METRES SLIPPED
1/4	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN	-		
2.	DRILL ACTUAL	4½	5¾	3¼
3.	REAMING		½	
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS	3		
7.	LUBRICATE RIG	¼	¼	
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY			¼
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.	NOT DRILL	¼		
22.	WORK ON AIR DRLG.		5¼	
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1	BIT SUB	1.17	m
	STB RMR OD		m
3	D.C. ID 222 OD	27.59	m
1	STB RMR 1/0 OD	.65	m
3	D.C. ID 171 OD	28.17	m
1	STB RMR JAR OD	4.33	m
12	171mm DC	113.23	m
1	C/O	.77	m
	BHA	176.21	m
3	STANDS DP	86.24	m
	SINGLES DP		m
	KELLY DOWN	10.55	m
	TOTAL	273	m
	(FORCE) WT. OF STRING	75,000	daN

BIT RECORD

BIT No.	6C	7C
SIZE	311	311
MFG.	H.W.	H.W.
TYPE	J-07	J-33
JETS mm	20 20 16 OPEN	
SER. No.	46027	99467
DEPTH OUT	273	
DEPTH IN	231	273
TOTAL METRES DRILLED	42	
TOTAL HRS. RUN	19¾	
COND 1/8's T/B/ GAGE	2 2 1	
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	0230
DENSITY kg/m³	1050
PRESSURE GRADIENT	
VISCOSITY	36
PV YP mPa•s Pa	/ /
GEL STR. Pa	/ /
WATER LOSS cm³	
pH	10
SOLIDS %	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
GEL	30		
KCLAN	2		
SAWDST	10		
LIMSOL	1		

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'L P COM'D C
265	273	8			60	15	3500	152	60	152		S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
273	1°							

BOILER HOURS 3x8

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	00 15	¼	7	Rig Service
00 15	04 45	4½	2	DRILL 311mm HOLE (LOST CIRCULATION)
04 15	05 00	¼	21	B.O.P. DRILL @ CREW
05 00	06 30	1½	6	DROP SURVEY & P.O.O.H.
0630	0800	1½	6	MAKE up BIT #2 & RUN IN.

DRILLER Russ Lockert

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1	BIT SUB	1.17	m
	STB RMR OD		m
3	D.C. ID 222 OD	27.59	m
1	STB RMR x0 OD	.65	m
3	D.C. ID 171 OD	28.17	m
1	STB RMR JAR OD	4.33	m
12	171	113.23	m
1	X0	.77	m
	BHA	176.21	m
4	STANDS DP	115.01	m
2	SINGLES DP	18.87	m
	KELLY DOWN	13.28	m
	TOTAL	324.50	m
	(FORCE) WT. OF STRING	48,000	daN

BIT RECORD

BIT No.	7C	
SIZE	311	
MFG.	H-W	
TYPE	J-33	
JETS mm	OPEN	
SER. No.	99467	
DEPTH OUT		
DEPTH IN	273	
TOTAL METRES DRILLED	31	
TOTAL HRS. RUN	5¾	
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	11
DENSITY kg/m³	
PRESSURE GRADIENT	
VISCOSITY	
PV YP mPa•s Pa	/ /
GEL STR. Pa	/ /
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR'L P COM'D C
273	304	31			60	14/16	700	AIR	DRLG			
					100	14/14						

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x12

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1115	3¼	22	Rig up AIR DRILLERS
1115	1200	¾	2	DRILL 311mm HOLE w/AIR.
1200	1215	¼	7	Rig SER. & BLOW OUT DRILL
1215	1245	½	3	CLEAN 2m TO BTM.
1245	1745	5	2	DRILL
1745	2000	2¼	22	WORK ON AIR DRLG EQPT.

DRILLER Rod Burgon

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1	BIT SUB	1.17	m
	STB RMR OD		m
3	D.C. ID 222 OD	27.59	m
1	STB RMR C/O OD	.65	m
3	D.C. ID 171 OD	28.17	m
1	STB RMR JAR OD	4.33	m
12	171mm DC	113.23	m
1	C/O	.77	m
	Total BHA	176.21	m
4	STANDS DP	115.01	m
2	SINGLES DP	18.87	m
	KELLY DOWN	10.91	m
	TOTAL	321	m
	(FORCE) WT. OF STRING	48,000	daN

BIT RECORD

BIT No.	7C	
SIZE	311	
MFG.	H-W	
TYPE	I-33	
JETS mm	OPEN	
SER. No.	99467	
DEPTH OUT		
DEPTH IN	273	
TOTAL METRES DRILLED	48	
TOTAL HRS. RUN	9½	
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	2400
DENSITY kg/m³	
PRESSURE GRADIENT	
VISCOSITY	42
PV YP mPa•s Pa	/ /
GEL STR. Pa	/ /
WATER LOSS cm³	
pH	10
SOLIDS %	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
GEL	32		
KCLAN	4		

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 SGL. S PAR'L P COM'D C
304	321	17			65	16	300	152	—	152	—	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
304	1°	SW						

BOILER HOURS 3x4

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
20 00	22 30	2½	2	DRILL 311mm HOLE W/AIR
22 30	22 45	¼	10	SURVEY @ 304m
22 45	24 00	1¼	2	DRILL 311mm HOLE W/AIR

DRILLER Russ Lockert

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
PCT TWEED LAKE	M47		85 01 21
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA INC.		ATCO / EQUTAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Rudnik		Dave Lauck	

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.70	E	150	4½ XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

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
	340	315.2	BTC	10	K55	5	63.97	6.12	64

SIZE 7 1/8 | No. LINES 3 | METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	4½	11½	4
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS	2¾		
7.	LUBRICATE RIG	¼	¼	
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY	¼	¼	
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.	BOP DRILL	¼	¼	
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30 m	
1	BIT SUB	1.17	
	STB RMR OD	m	
3	D.C. ID 222 OD	27.59 m	
1	STB RMR 7/0 OD	.65 m	
3	D.C. ID 171 OD	28.17 m	
1	STB RMR TAR OD	4.33 m	
12	171 DC	113.23	
1	X/O	.77	
	BHA	176.21	
1	STANDS DP	28.83 m	
2	SINGLES DP	18.93 m	
	KELLY DOWN	7.03 m	
	TOTAL	231 m	
	(FORCE) WT. OF STRING	42 000 daN	

BIT RECORD

BIT No.	5C	6C
SIZE	311	311
MFG.	H.W.	H.W.
TYPE	J07	J07
JETS mm	20 20 16	20 20 16
SER. No.	99476	96028
DEPTH OUT	231	
DEPTH IN	145	231
TOTAL METRES DRILLED	~~231~~ 86	
TOTAL HRS. RUN	20½	
COND 1/8's T/B/ GAGE	6 2 IN	
FLOW RATE m³/min		
PRESSURE DROP kPa		
DEVIATION	1/4 @ 1240	0 @ 1070
DEVIATION	1/4 @ 1170	0 @ 1070

MUD RECORD

TIME	01²⁹	0400
DENSITY kg/m³	1075	1030
PRESSURE GRADIENT		
VISCOSITY	37	42
PV mPa*s / YP Pa	/	/
GEL STR. Pa	/	/
WATER LOSS cm³		
pH	10	10
SOLIDS %		
	10¼/M	
	4¼/M	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
		GEL	10
		KELZAN	1

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR EL P COMP'D C
215	231	16			9/10	14/20	3500	152	60	152		S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
227	¾							

BOILER HOURS 3 x 8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0030	½	2	DRILL 311mm HOLE (HELD SAFETY meeting
0032	0043	¼	7	Rig Service W/CREW
0043	0343	3	2	DRILL 311mm HOLE
0343	0400	¼	10	SURVEY @ 227m
0429	0413	¼	21	HELD BOP DRILL W/CREW
0415	0516	1	2	DRILL 311mm HOLE
0519	0800	2¾	6	TRIP.

DRILLER Brian Lachance

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30 m	
1	BIT SUB	1.17	
	STB RMR OD	m	
3	D.C. ID 222 OD	27.59 m	
1	STB RMR X/O OD	.65 m	
3	D.C. ID 171 OD	28.17 m	
1	STB RMR TAR OD	4.33 m	
12	171	113.23	
1	X/O	.77	
	BHA	176.21	
2	STANDS DP	58.59 m	
1	SINGLES DP	9.62 m	
	KELLY DOWN	9.78 m	
	TOTAL	253.00 m	
	(FORCE) WT. OF STRING	42 000 daN	

BIT RECORD

BIT No.	6C	
SIZE	311	
MFG.	HW	
TYPE	J07	
JETS mm	20 20 16	
SER. No.	46027	
DEPTH OUT		
DEPTH IN	231	
TOTAL METRES DRILLED	24	
TOTAL HRS. RUN	11¼	
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa	WF	
DEVIATION	1225	3¼ @ 1200
DEVIATION	1610	2 @ 1700

MUD RECORD

TIME	08:00	11:30	14:10
DENSITY kg/m³	1065	1060	1065
PRESSURE GRADIENT			
VISCOSITY	38	37	37
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	8.8		
pH	9.0	9.5	10
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
CAUSTIC	1		
SAWDUST	5		
GEL	16		
KELZAN	2		

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR EL P COMP'D C
231	255	24		ASPP @ 3059m - 1000kPa	60/90	14/14	3500	152	60	152		S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
246	1°							

BOILER HOURS 3 x 12

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1045	2¾	2	DRILL HELD SAFETY MEETING
1045	1100	¼	7	RIG SERVICE
1100	1530	4½	2	DRILL
1530	1545	¼	21	BOP DRILL
1545	1600	¼	10	SURVEY
1600	2000	4	2	DRILL

DRILLER Rick Bourque

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30 m	
1	BIT SUB	1.17	
	STB RMR OD	m	
3	D.C. ID 222 OD	27.59 m	
1	STB RMR X/O OD	.65 m	
3	D.C. ID 171 OD	28.17 m	
1	STB RMR TAR OD	4.33 m	
12	171mm DC	113.23	
1	C/O	.77	
	TOTAL BHA	176.21	
2	STANDS DP	57.39 m	
2	SINGLES DP	19.22	
	KELLY DOWN	12.17 m	
	TOTAL	265 m	
	(FORCE) WT. OF STRING	42 000 daN	

BIT RECORD

BIT No.	6C	
SIZE	311	
MFG.	H.W.	
TYPE	J07	
JETS mm	20 20 16	
SER. No.	46027	
DEPTH OUT		
DEPTH IN	231	
TOTAL METRES DRILLED	34	
TOTAL HRS. RUN	15¼	
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	17.30	2130	24⁰⁰
DENSITY kg/m³	1065	1060	1060
PRESSURE GRADIENT			
VISCOSITY	37	38	37
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH	10	9.5	10
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
GEL	16		
KELZAN	2		
SAWDUST	10		
CAUSTIC	1		

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR EL P COMP'D C
255	265	10			60	15	3500	152	60	152		S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3 x 4

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2400	4	2	DRILL 311mm HOLE

DRILLER Brian Lachance

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
PCI ETAL TWEED LAKE	11-47		85 01 20

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA INC.	ATCO / EQUITAK	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Michael Pruski	Dave Lamb

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.70	E		4½ XH	1	1	EMSCO	D-500	406
						2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 8

SIZE	No. LINES	METRES SLIPPED
7/8	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
340	315.3	BTC	101	K55	5	63.97	6.12	64

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	1¼	11	3¾
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS	2¾		
7.	LUBRICATE RIG		¼	
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY		¼	¼
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	4	½	
20.	DIR. WORK			
21.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30 m	
1	BIT SUB	1.17	
	STB RMR OD	m	
3	D.C. ID 222 OD	27.59 m	
1	STB RMR X/O OD	.65 m	
3	D.C. ID 171 OD	28.17 m	
1	STB RMR JAR OD	4.33 m	
8	171 DC	75.98	
1	X/O	.77	
	STANDS DP	m	
	SINGLES DP	m	
	KELLY DOWN	11.76 m	
	TOTAL	160 m	
	(FORCE) WT. OF STRING	daN	

BIT RECORD

BIT No.	5C	
SIZE	311	
MFG.	H.W.	
TYPE	J07	
JETS mm	20 20 16	
SER. No.	99476	
DEPTH OUT		
DEPTH IN	145	
TOTAL METRES DRILLED	5	
TOTAL HRS. RUN	1¼	
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa*s YP Pa	/	/	/	
GEL STR. Pa	/	/	/	
WATER LOSS cm³				
pH				
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30 m	
1	BIT SUB	1.17	
	STB RMR OD	m	
3	D.C. ID 222 OD	27.59 m	
1	STB RMR X/O OD	.65 m	
3	D.C. ID 171 OD	28.17 m	
1	STB RMR JAR OD	4.33 m	
12	171	113.23	
1	XO	.77	
	BHA	176.21	
	STANDS DP	m	
1	SINGLES DP	9.61 m	
	KELLY DOWN	12.90 m	
	TOTAL	198.72 m	
	(FORCE) WT. OF STRING	38,000 daN	

BIT RECORD

BIT No.	5C	
SIZE	311	
MFG.	H.W.	
TYPE	J07	
JETS mm	20 20 16	
SER. No.	99476	
DEPTH OUT		
DEPTH IN	145	
TOTAL METRES DRILLED	53	
TOTAL HRS. RUN	12¾	
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa	1320	3 LPM
	1670	2 LPM

MUD RECORD

TIME	08:30	11:30	14:00	
DENSITY kg/m³	1038	1035	1040	
PRESSURE GRADIENT				
VISCOSITY	32	35	37	
PV mPa*s YP Pa	/	/	/	
GEL STR. Pa	/	/	/	
WATER LOSS cm³				
pH	9.5	9.0	10.0	
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
SHALE	23K	CAUSTIC	2K
KELZAN	5K		
GEL	40SK		
SHALE	15K		

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30 m	
1	BIT SUB	1.17	
	STB RMR OD	m	
3	D.C. ID 222 OD	27.59 m	
1	STB RMR X/O OD	.65 m	
3	D.C. ID 171 OD	28.17 m	
1	STB RMR JAR OD	4.33 m	
12	171 DC	113.23	
1	X/O	.77	
	TOTAL BHA	176.21	
1	STANDS DP	28.83 m	
	SINGLES DP		
	KELLY DOWN	9.96 m	
	TOTAL	215 m	
	(FORCE) WT. OF STRING	40,000 daN	

BIT RECORD

BIT No.	5C	
SIZE	311	
MFG.	H.W.	
TYPE	J07	
JETS mm	20 20 16	
SER. No.	99476	
DEPTH OUT		
DEPTH IN	145	
TOTAL METRES DRILLED	70	
TOTAL HRS. RUN	16	
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	18:00	19:00	22:00	
DENSITY kg/m³	1063	1060	1070	
PRESSURE GRADIENT				
VISCOSITY	38	40	40	
PV mPa*s YP Pa	/	/	/	
GEL STR. Pa	/	/	/	
WATER LOSS cm³				
pH	11	11.0	9.5	
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
GEL	3		
KELZAN	1		
CAUSTIC	1		

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
145	150	5			50/60	10/12	3000	152	60	152		S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0123	1¼	19	TRY TO LATCH ON FISH
0123	0215	½	6	POOH W/OVERSHOT (NO FISH)
0215	0315	1	19	MAKE UP OVERSHOT
0315	0344	½	6	RIH W/OVERSHOT
0344	0429	¾	19	POOH W/FISH
0429	0500	½	19	RECOVER FISH
0500	0623	1¾	6	MAKE UP BIT & R.I.H.
0623	0900	1¼	2	DRILL 311mm HOLE

BOILER HOURS 3x8

DRILLER Bill Lucas

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
150	198	48			50/100	10/12	3000	152	60	152		S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
170	0°							

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1130	3½	2	DRILL
1130	1145	¼	7	RIG SER.
1145	1215	½	19	BREAK DOWN BOWEN OVERSHOT
1215	1330	1¼	2	DRILL
1330	1345	¼	10	SURVEY
1345	2000	6¼	2	DRILL

BOILER HOURS 3x12

DRILLER Bill Bowen

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
198	215	17			50/100	10/12	3000	152	60	152		S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
198	½°							

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2015	¼	2	DRILL 311mm HOLE
2015	2030	¼	10	SURVEY @ 198
2030	2400	3½	10	DRILL 311mm HOLE
		¼		

BOILER HOURS 3x4

DRILLER Bill Lucas

FORM 3T8m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
PCI ETAL TWEED LAKE	11-47	11-47	85 01 19

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA INC.	ATCO / EQUITAK	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Michael Lichak	Dave Lauck

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.
114	24.70	E		4½ XH	1

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D-500	406
2	EMSCO	D-500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 1 — SIZE 1 1/8 — No. LINES 8 — METRES SLIPPED — METRES CUT OFF — PRESENT LENGTH — MEGAJOULES SINCE LAST CUT — CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	340	315.3	BTC	101	K55	5	63.97	6.12	64

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	7½	11½	1¼
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS			1½
7.	LUBRICATE RIG	¼	¼	
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY	¼	½	
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			1½
20.	DIR. WORK			
21.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD				
1	BIT	.30 m	BIT No.	4C	TIME				
1	BIT SUB	1.17	SIZE	311	DENSITY kg/m³				
	STB RMR OD	m	MFG.	H.W.	PRESSURE GRADIENT				
3	D.C. ID 222 OD	27.59 m	TYPE	JD7	VISCOSITY				
1	STB RMR 7/0 OD	.65 m	JETS mm	20 20 16	PV YP mPa*s Pa				
	D.C. ID OD	m	SER. No.	96022	GEL STR. Pa				
1	STB RMR IMS OD	4.19 m	DEPTH OUT		WATER LOSS cm³				
6	171 DC.	56.73	DEPTH IN	64	pH	10			
1	X/O	.77	TOTAL METRES DRILLED	40	SOLIDS %				
	BHA	91.40	TOTAL HRS. RUN	12½		FROM MIX WS 180 P 1105			
	STANDS DP	m	COND. 1/8's T/B/ GAGE		MUD & CHEMICALS ADDED				
	SINGLES DP	m	FLOW RATE m³/min		TYPE	AMT. kg	TYPE	AMT. kg	
	KELLY DOWN	12.60 m	PRESSURE DROP kPa		GEL	22			
	TOTAL	104 m			CAUSTIC	3			
	(FORCE) WT. OF STRING	30 000 daN			SOLTEX	1			
					KELZAN	1			

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SOL. S PAR.EL.P COM'D.C.
79	104	25			60/80	19½	3000	152	60	152		S

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	85	1°							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0130	1½	2	DRILL 311mm HOLE
0139	0143	¼	7	RIG SERVICE
0143	0209	¼	10	SURVEY @ 85m
0209	0800	6	2	DRILL 311mm HOLE

BOILER HOURS 3 x 8

DRILLER Brian Lichak

DAY TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD				
1	BIT	.30 m	BIT No.	4C	TIME	1600		1700	
1	BIT SUB	1.17	SIZE	311	DENSITY kg/m³	1020		1020	
	STB RMR OD	m	MFG.	HW	PRESSURE GRADIENT				
3	D.C. ID 222 OD	27.59 m	TYPE	JD7	VISCOSITY	50		50	
1	STB RMR X/O OD	.65 m	JETS mm	20 20 16	PV YP mPa*s Pa	/	/	/	
1	D.C. ID SMF OD	4.19 m	SER. No.	96022	GEL STR. Pa	/	/	/	
10	STB RMR 171 OD	94.60 m	DEPTH OUT		WATER LOSS cm³				
1	X/O	.77	DEPTH IN	64	pH	10.2		10	
	BHA	129.27	TOTAL METRES DRILLED	78	SOLIDS %				
			TOTAL HRS. RUN	23¾					
	STANDS DP	m	COND. 1/8's T/B/ GAGE		MUD & CHEMICALS ADDED				
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg	
	KELLY DOWN	12.90 m	PRESSURE DROP kPa	4 LPM	SOLTEX	5			
	TOTAL	142.17 m	DOL	1270	KELZAN	5			
	(FORCE) WT. OF STRING	34,000 daN	RESH	3410	GEL	40			
				½ LPM	SAW DUST	20			

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SOL. S PAR.EL.P COM'D.C.
104	142	38			60/80	19½	3000	152	60	152		S

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	113	1°		142	1°				

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0845	¾	2	DRILL 311mm HOLE
0845	0900	¼	7	Rig SERVICE
0900	1115	2¼	2	DRILL
1115	1130	¼	10	SURVEY @ 113m
1130	1945	8¼	2	DRILL
1945	2000	¼	10	SURVEY @ 142

BOILER HOURS 3 x 12

DRILLER Rick Bourque

EVENING TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD				
	BIT FISHING ASSEMBLY	m	BIT No.	4C	TIME				
1	BIT SUB	1.25	SIZE	311	DENSITY kg/m³				
	STB RMR OD	m	MFG.	H.W.	PRESSURE GRADIENT				
6	D.C. ID 171 OD	56.73 m	TYPE	JD7	VISCOSITY				
1	STB RMR SMF OD	4.33 m	JETS mm	20 20 16	PV YP mPa*s Pa	/	/	/	
12	D.C. ID 171 OD	94.45 m	SER. No.	96022	GEL STR. Pa	/	/	/	
1	STB RMR X/O OD	.77 m	DEPTH OUT	145	WATER LOSS cm³				
5	171	47.45	DEPTH IN	64	pH				
			TOTAL METRES DRILLED	81	SOLIDS %				
			TOTAL HRS. RUN	25					
	STANDS DP	m	COND. 1/8's T/B/ GAGE	8 3 I	MUD & CHEMICALS ADDED				
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa		GEL	16			
	TOTAL	m			KELZAN	1			
	(FORCE) WT. OF STRING	28,000 daN			SOLTEX	5			

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SOL. S PAR.EL.P COM'D.C.
142	145	3			60/80	19½	3000	152	60	152		S

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00				
2000	2143	1¾	2	DRILL 311mm HOLE
2143	2213	1	6	P.O.O.H "STRIM PARTY @ JAR'S 1.09m
2213	2329	1¼	19	MAKE UP OVER SHOT LEFT IN HOLE"
2329	2429	½	6	R.I.H. W/OVERSHOT
		¼		

BOILER HOURS 3 x 4

DRILLER Brian Lichak

FORM 3T8m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
P.C.I. ETAL TWEED LAKE	M.47		85 01 19 Yr. Mo. Day
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA		ATCO EQUITAK	46
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Pustak			

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	EMSCO	D500	406
2	EMSCO	D500	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
	340	315.3		101	K55	5	639.4	6.12	64

SIZE 29 | No. LINES 8 | METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL			5
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE			
6.	TRIPS		3¼	
7.	LUBRICATE RIG	¼	¼	
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 ahead		4	3
22.	mouse Hole	8		
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	4C		
SIZE	311		
MFG.	HW		
TYPE	JD7		
JETS mm	20	20	16
SER. No.	96022		
DEPTH OUT			
DEPTH IN	64		
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa•s / YP Pa				
GEL STR. Pa				
WATER LOSS cm³				
pH				
SOLIDS %				
MUD & CHEMICALS ADDED	TYPE	AMT. kg	TYPE	AMT. kg

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1	BIT SUB	1.17	
	STB RMR OD		m
3	D.C. ID 77.2 OD	27.59	m
1	STB RMR ⅛ OD	.65	m
3	D.C. ID 77.2 OD		m
1	STB RMR JAR OD	4.19	m
2	171 OD	18.64	
1	⅛ OD	.77	
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING	24,000	daN

BIT RECORD

BIT No.	4C		
SIZE	311		
MFG.	H.W.		
TYPE	JD7		
JETS mm	20	20	16
SER. No.	96022		
DEPTH OUT			
DEPTH IN	64		
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa•s / YP Pa				
GEL STR. Pa				
WATER LOSS cm³				
pH				
SOLIDS %				
MUD & CHEMICALS ADDED	TYPE	AMT. kg	TYPE	AMT. kg
	GEL	15 sx		
	CAUST.	1 sx		

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.30	m
1	BIT SUB	1.17	
	STB RMR OD		m
3	D.C. ID 77.2 OD	27.59	m
1	STB RMR XO OD	.65	m
1	D.C. ID SAFE OD	4.19	m
4	STB RMR 171 OD	37.65	m
1	XO	.77	
	BHA	72.32	
	STANDS DP		m
	SINGLES DP		
	KELLY DOWN	6.68	m
	TOTAL	79.00	m
	(FORCE) WT. OF STRING	27,000	daN

BIT RECORD

BIT No.	HC		
SIZE	311		
MFG.	H-W		
TYPE	SP7		
JETS mm	20	20	16
SER. No.	96022		
DEPTH OUT			
DEPTH IN	64		
TOTAL METRES DRILLED	15		
TOTAL HRS. RUN	5		
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa•s / YP Pa				
GEL STR. Pa				
WATER LOSS cm³				
pH				
SOLIDS %				
MUD & CHEMICALS ADDED	TYPE	AMT. kg	TYPE	AMT. kg

MORNING TOUR

METRES DRILLED FROM 64 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 SGL..S PAR'EL..P COM'D..C

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0900	8		CLEAN OUT MOUSEHOLE + WELD KELLY SPINNER SUB.

BOILER HOURS 3 x 8

DRILLER Dave Tench

DAY TOUR

METRES DRILLED FROM 64 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 152 | PUMP No. STROKES per min | PUMP No. LINER SIZE | PUMP No. STROKES per min | METHOD RUN SGL..S PAR'EL..P COM'D..C

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0822	0922	1½	6	PICK UP BHA & TAG CEMENT @ 49.50m
0922	1320	4	21	DRILL OUT CEMENT
1320	1420	1	6	TRIP OUT FOR PLUGGED JETS
1420	1545	1¼	6	R.I.H
1545	1600	¼	7	RIG SERVICE
		8		

BOILER HOURS 3 x 8

DRILLER Brian Lukoni

EVENING TOUR

METRES DRILLED FROM 64 TO 79 | DR..D RM-R CORE..C 15 | CORE No. | **FORMATION** (SHOW CORE RECOVERY) | ROTARY RPM 60% | (FORCE) WT. ON BIT 19½ daN | PUMP PRESS 3000 / 1500 | PUMP No. 1 LINER SIZE 152 | PUMP No. 1 STROKES per min 50 | PUMP No. 2 LINER SIZE 152 | PUMP No. 2 STROKES per min | METHOD RUN SGL..S PAR'EL..P COM'D..C 5

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1600	1900	3	21	DRILL OUT
1900	2400	5	2	DRILL 311 mm HOLE

BOILER HOURS 3 x 8

DRILLER Rick Bourque

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
PEACE TWEED LAKE	1147		85 01 17
OPERATOR		**CONTRACTOR**	**RIG No.**
PET-FOR TWEED LAKE PETRO CANADA		ACRO EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Rudnik			

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	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
34	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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	6½		
14.	NIPPLE UP B.O.P.			
15.	TEST B.O.P.		10	
16.	DRILL STEM TEST			
17.	PLUG BACK			
18.	SQUEEZE CEMENT			
19.	FISHING			
20.	DIR. WORK			
21.	Cut Conductor & Weld Casing Bowl	1½		
22.	Casing Bowl		2	
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD				
	BIT	m	BIT No.		TIME				
			SIZE		DENSITY kg/m³				
	STB RMR OD	m	MFG.		PRESSURE GRADIENT				
	D.C. ID OD	m	TYPE		VISCOSITY				
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa				
	D.C. ID OD	m	SER. No.		GEL STR. Pa				
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³				
			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 m³/min		TYPE	AMT. kg	TYPE	AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

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 SGL. S PAR'EL P COM'D C.
64												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0630	6½		WAIT ON CEMENT
0630	0800	1½		CUT 20" CONDUCTOR BGL & 340MM CASING.

BOILER HOURS

DRILLER Dave Lauck

DAY TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD				
	BIT	m	BIT No.		TIME				
			SIZE		DENSITY kg/m³				
	STB RMR OD	m	MFG.		PRESSURE GRADIENT				
	D.C. ID OD	m	TYPE		VISCOSITY				
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa				
	D.C. ID OD	m	SER. No.		GEL STR. Pa				
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³				
			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 m³/min		TYPE	AMT. kg	TYPE	AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

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 SGL. S PAR'EL P COM'D C.
64												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1000	2		WELD CASING BOWL & PRESSURE TEST BOWL
1000	2000	10		NIPPLE UP DIVERTER System & GRANT HEAD
		12		

BOILER HOURS 3 x 12

DRILLER Butch Lickok

EVENING TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD				
	BIT	m	BIT No.	9C	TIME				
			SIZE	311	DENSITY kg/m³				
	STB RMR OD	m	MFG.	HW	PRESSURE GRADIENT				
	D.C. ID OD	m	TYPE	304	VISCOSITY				
	STB RMR OD	m	JETS mm	20 20 16	PV YP mPa•s Pa				
	D.C. ID OD	m	SER. No.	96022	GEL STR. Pa				
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³				
			DEPTH IN	64	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 m³/min		TYPE	AMT. kg	TYPE	AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

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 SGL. S PAR'EL P COM'D C.
64												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2100	1		Pressure Test Hydril 1005 KPA Held OK 10 mins
2100	2400	3		Make up Subs & RE Drill Mousehole

BOILER HOURS

DRILLER Dave Lauck

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
P.C.E.I. ETAL TWEED LAKE	M-47		85 01 16

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA	ATCO EQUITAR	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Michael Pachuk	

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
						1	Emsco	D-500	406
						2	Emsco	D500	406

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	340	315.3		101	K55	5	63.97	6.12	64

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
29	8	

METRES CUT OFF — PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
1.	RIG UP AND TEAR DOWN			
2.	DRILL ACTUAL	4¾		
3.	REAMING			
4.	CORING			
5.	CONDITION MUD & CIRCULATE	¼	1	
6.	TRIPS	1	¾	
7.	LUBRICATE RIG	¼		
8.	REPAIR RIG			
9.	CUT OFF DRILLING LINE			
10.	DEVIATION SURVEY	¼		
11.	WIRE LINE LOGS			
12.	RUN CASING & CEMENT		4¾	
13.	WAIT ON CEMENT		5½	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. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
TOTALS		8	17	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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.50	m
1	Bit Sub	1.17	
	STB RMR OD		m
3	D.C. ID 222 OD	27.59	m
1	STB RMR 9⅞ OD	1.65	m
1	D.C. ID 7 1/4 OD	4.19	m
1	STB RMR 9⅞ OD	.79	m
2	171 DC	18.63	
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN	10.50	m
	TOTAL	64.	m
	(FORCE) WT. OF STRING	19,000	daN

BIT RECORD

BIT No.	3A
SIZE	445
MFG.	HW
TYPE	OWJ
JETS mm	3/18
SER. No.	TR619
DEPTH OUT	64
DEPTH IN	47
TOTAL METRES DRILLED	17
TOTAL HRS. RUN	8¾
COND. 1/8's T/B/ GAGE	8 2 1/8
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV YP mPa*s Pa	/	/	/	
GEL STR. Pa	/	/	/	
WATER LOSS cm³				
pH				
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV YP mPa*s Pa	/	/	/	
GEL STR. Pa	/	/	/	
WATER LOSS cm³				
pH				
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV YP mPa*s Pa	/	/	/	
GEL STR. Pa	/	/	/	
WATER LOSS cm³				
pH				
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

MORNING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PAR EL. P COMP'D C
51	64	13	10		200	4/5	3000	152	30	152	30	P

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
57	1°							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0215	2¼	2	Drill 445 mm Hole.
0215	0230	¼	10	Survey @ 57m
0230	0245	¼	7	Rig Service.
0245	0515	2½	2	Drill
0515	0530	¼	5	Circulate Clean Hole.
0530	0630	1	6	Dump & T.P.
0630	0800	1½	5	Circulate

BOILER HOURS

DRILLER Dave Lovell

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 SGL. S. PAR EL. P COMP'D C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

DAY TOUR

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
08 22	08 55	¾	6	Lay Down 2 - 171mm Collars & Jars & POOH
08 55	12 55	3¼	12	Rig up & Run Casing
12 55	13 55	1	5	Circulate Casing
13 55	14 25	1½	12	Cement Casing
14 20	20 00	5½	13	Wait on ~~Cement~~ Cement
		12		Ran 5 Jts 63.97 m of 340mm 101 Kg/m K55 BTC
7:57	Shoe JT	CSG	Landed @ 64m Cent 3m Above Shoe + JT #4	

BOILER HOURS

DRILLER Dave Lovell

EVENING TOUR

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 SGL. S. PAR EL. P COMP'D C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
20:00	24:00	4	13	W.O.C
On well	Cement	of 18 Tonne Arctic Set 12.5m³		
Slurry @ 1870 Kg/m³ Slurry Temp +7°C Displaced w/				
4.5m³ H₂O 5m Cement Left in CSG Float Held O.K				
2m³ Cement Returns Plug Down @ 14:18 hrs				
				Ina L. Pachuk

BOILER HOURS

DRILLER Dave Lovell

EVENING TOUR

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 SGL. S. PAR EL. P COMP'D C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

DRILLER

FORM 3T6m

APPROVAL PENDING

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
P.C.I. TWEED LAKE	M-47		85 01 15

OPERATOR	CONTRACTOR	RIG No.
	ATCO/EQUITAK	76

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
Michael Pechuk	

D.P. SIZE	kg/m	GRADE	TOOL JT O. D.	TYPE THREAD	STRING No.

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	Emsco	D500	406
2	Emsco	D500	406

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
29	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	508		BTC	140	K-55	2		6.12	24

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.50	m
1	Bit Sub	1.17	m
	STB RMR OD		m
3	D.C. ID 222 OD	37.59	m
1	STB RMR 9/0 OD	.65	m
1	D.C. ID 9/0 OD	.77	m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN	12.90	m
	TOTAL	43.	m
	(FORCE) WT. OF STRING	17,000	daN

BIT RECORD

BIT No.	3A.	
SIZE	17½"	
MFG.	HW	
TYPE	OSC1GJ	
JETS mm	3X18	
SER. No.	BD552	
DEPTH OUT		
DEPTH IN	24	
TOTAL METRES DRILLED	19	
TOTAL HRS. RUN	6	
COND. 1/8's T/B/ GAGE	0/0/	
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.50	m
1	Bit Sub	1.17	m
	STB RMR OD		m
3	D.C. ID 222 OD	27.59	m
1	STB RMR 9/0 OD	.65	m
1	D.C. ID 9/0 OD	4.19	m
1	STB RMR 9/0 OD	.77	m
	BHA	34.87	
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN	13.13	m
	TOTAL	48	m
	(FORCE) WT. OF STRING	17,000	daN

BIT RECORD

BIT No.	2A	3A
SIZE	445	445
MFG.	HW	HW
TYPE	OSC1GJ	OWVJ
JETS mm	18/18/18	3 x 19
SER. No.	BD552	TR619
DEPTH OUT	47	
DEPTH IN	24	47
TOTAL METRES DRILLED	23	1
TOTAL HRS. RUN	10	2
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
GEL	16		
KWIKSEAL	2		
CAUSTIC	1		

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.50	m
1	B.7 Sub	1.17	m
	STB RMR OD		m
3	D.C. ID 222 OD	27.59	m
1	STB RMR 9/0 OD	.65	m
1	D.C. ID JARS OD	4.19	m
1	STB RMR 9/0 OD	.77	m
1	191 DC	9.58	
	STANDS DP		m
	SINGLES DP		
	KELLY DOWN	6.78	m
	TOTAL	51	m
	(FORCE) WT. OF STRING	20,000	daN

BIT RECORD

BIT No.	3A	
SIZE	445	
MFG.	HW	
TYPE	OWVJ	
JETS mm	3/18	
SER. No.	TR619	
DEPTH OUT		
DEPTH IN	47	
TOTAL METRES DRILLED	4	
TOTAL HRS. RUN	4	
COND. 1/8's T/B/ GAGE	0/0/	
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL-P COM'D-C
24	43	19			40/60	3/5	5000		52		52	P

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	34	1½°							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0115	1¼		DRILL OUT SHOE.
0115	0130	¼	7	Rig SERVICE.
0130	0400	2½	2	DRILL 17½" SURFACE HOLE.
0400	0415	¼	10	SURVEY @ 34m.
0415	7[illegible]	3	2	DRILL.
7[illegible]	7[illegible]30	1¼	10	SURVEY
7[illegible]30	8[illegible]00	½	2	DRILL

BOILER HOURS 3X8

DRILLER Dave Tauck

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL-P COM'D-C
43	47	4			200/260	3/5	5000	152	52	152	52	PP
47	48	1½			200/260	3/5	3000	152	60			PS

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	43	1¼							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
08[illegible]	08[illegible]	3/4	2	DRILL 445mm HOLE
08[illegible]	09[illegible]	¼	7	Rig SERVICE
09[illegible]	09[illegible]	¼	10	SURVEY @ 43m
09[illegible]	12[illegible]	3/4	2	DRILL 445mm HOLE
12[illegible]	14[illegible]	1½	21	WORK ON CELLAR Pump (mix Premix mud, CIRCULATE WASHED OUT CONDUCTOR PIPE)
14[illegible]	18[illegible]	4	6	POOH. Change BITS, PICK UP JARS & R.I.H.
18[illegible]	20[illegible]	2	2	DRILL 445mm HOLE

BOILER HOURS 3X12

DRILLER

EVENING TOUR

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL-P COM'D-C
48	51	3			300	3/5	3000	152		152		P

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

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2200	2		Work on Cellar Pump & Hoses.
2200	2400	2		Drill 445mm Hole.

BOILER HOURS 3X4

DRILLER D. Tauck

FORM 3T6m

APPROVAL PENDING

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
PCP TWEED LAKE	11-47		85 01 14
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA		ATCO / EQUITAK	76
SIGNATURE OF OPERATOR'S REPRESENTATIVE		**SIGNATURE OF CONTRACTOR'S TOOL PUSHER**	
Michael Pinchuk			

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.

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	308			H40	K55	2			24

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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	8	12	2
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			2
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR.EL.P COMD.C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0800	8		WAIT ON CEMENT

BOILER HOURS 388

DRILLER Dave Tench

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR.EL.P COMD.C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	2000	12	13	WAIT ON CEMENT

BOILER HOURS 3X12

DRILLER Dave Tench

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	.50	m
1	1st Sub.	1.17	
	STB RMR OD		m
1	D.C. ID 227 OD	9.18	m
1	STB RMR 5/6 OD	.65	m
1	D.C. ID 6/6 OD	.79	m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		
	KELLY DOWN	11.73	m
	TOTAL	24	m
	(FORCE) WT. OF STRING	12600	daN

BIT RECORD

BIT No.			
SIZE			
MFG.	H.W.		
TYPE	05HJC5		
JETS mm	3X18		
SER. No.	80552		
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR.EL.P COMD.C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	22:00	2	13	WAIT ON CEMENT
22:00	24:00	2	21	DRILL OUT PLUG + CEMENT
				TAG PLUG @ 18m

BOILER HOURS

DRILLER Dave Tench

FORM 3T6m

APPROVAL PENDING

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OFFICIAL DAILY DRILLING REPORT FORM

Petro Canada

SIGNATURE OF OPERATOR'S REPRESENTATIVE

76

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
LAST CASING TUBING OR LINER									

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	0.30	m
1	Hydrapower	1.89	
	STB RMR OD		m
1	D.C. ID 294 OD	9.18	m
1	STB RMR 270 OD	.77	m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	1A.		
SIZE	311mm		
MFG.	HW		
TYPE	XJA.		
JETS mm	open		
SER. No.	4260		
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa*s / YP Pa	/	/	/	
GEL STR. Pa	/	/	/	
WATER LOSS cm³				
pH				
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR'EL P COMP'D C
0	19	19										

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 389

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0015	¼	9	Rig Service.
0015	0400	3¾		Open 311mm Hole w/24" Hole opener.

DRILLER Dave Lynch

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa*s / YP Pa	/	/	/	
GEL STR. Pa	/	/	/	
WATER LOSS cm³				
pH				
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR'EL P COMP'D C
19	24											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
03 00	13 00	5		Open 311mm Hole w/610mm Hole opener
13 00	14 00	1		Drop Survey & Lay down 279mm Drill Collar
14 00	17 00	3		Run 508mm Conductor Pipe
17 00	18 00	1		Circulate
18 00	20 00	2		Rig up Dowell & cement Conductor Pipe

DRILLER Dave Lynch

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME				
DENSITY kg/m³				
PRESSURE GRADIENT				
VISCOSITY				
PV mPa*s / YP Pa	/	/	/	
GEL STR. Pa	/	/	/	
WATER LOSS cm³				
pH				
SOLIDS %				

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR'EL P COMP'D C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x4

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
2000	2100	1		Displace Conductor Pipe.
2100	2400	3		W.O.C.

DRILLER Dave Lynch

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
PCI ETAL TWEED LAKE	M-47		85 01 12
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA		ATCO EQUITAK	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	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	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

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR'EL-P COMP'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0800	8		REAM OUT MOUSEHOLE.

BOILER HOURS

DRILLER Dave Janik

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT	30	m
1	BIT SUB	.76	m
1	STB RMR OD		m
1	D.C. ID 2¼ OD	9.14	m
1	STB RMR ⅛ OD	.77	m
1	D.C. SMITH SUB OD	.76	m
	STB RMR OD		m
	KELLY	12.18	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	1A		
SIZE	311mm		
MFG.	H.W.		
TYPE	X3A		
JETS mm	OPEN		
SER. No.	4260		
DEPTH OUT			
DEPTH IN	0		
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY	H_2O		
PV mPa•s YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR'EL-P COMP'D-C
	15.09											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	0900	1		REAM OUT MOUSE HOLE
0900	1600	9		REAM OUT RATHOLE
1600	1800	2		DRILL PILOT HOLE (311mm)

BOILER HOURS 3+12

DRILLER Dave Janik

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	1A.		
SIZE	311mm		
MFG.	H.W.		
TYPE	X3A		
JETS mm	OPEN		
SER. No.	4260		
DEPTH OUT			
DEPTH IN	0		
TOTAL METRES DRILLED	24		
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL..S PAR'EL-P COMP'D-C
15	24	9			60	3/5				140	28	5.

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1900	2230	2½		Drill 311mm Pilot Conductor Hole.
2230	2400	1½		Lay Down 9" Drill Collar + Pick up 24" Hole Opener. Weld on 311mm Bit.

BOILER HOURS

DRILLER Dave Janik

FORM 3T6m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
PCI ETAL TWEED LAKE	MW47		85 1 11
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA		ATCO EQUITAK	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	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
								6.42	

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE 85 1 11 (Year Month Day)

WELL NAME & No. PCI TWEED LAKE MW47

COMPANY ATCO EQUITAK

TOOL PUSHER _____ RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N.			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'L			
	G.			
TOTALS				

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	

FORM 3T6m

MORNING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
			m
			m
			m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGC. S PARTL P COMD C.

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 3x8

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0800	8	1	FILL MUD TANKS W/ WATER. PUT SCREENS ON SHAKERS
				HOOK UP ALL ELEC. CORDS. PICK UP KELLY

DRILLER Rick Borgen

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		Rick Borgen	8
DERRICKMAN		STEVE PECHOTTA	8
MOTORMAN		ED LICKOSH	8
FLOORMAN		GORDON KELLY	8
FLOORMAN		GEORGE GRANDTAMBE	8
FLOORMAN			
LEASEMAN		Johnnie Lennie	8

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
1	BIT		m
1	Bit Sub	.74	m
1	STB RMR OD	.65	m
1	D.C. ID OD	.99	m
8	STB RMR OD	.92	m
1	D.C. ID OD		m
1	STB RMR OD		m
			m
	DEPTH IN	2.90	
			m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	1A		
SIZE	311		
MFG.	HW		
TYPE	J3A		
JETS mm	11 11 11		
SER. No.	4260		
DEPTH OUT	0		
DEPTH IN			
TOTAL METRES DRILLED	4		
TOTAL HRS. RUN	3½		
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGC. S PARTL P COMD C.
0	4	4			65	200		140				S

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1330	5½		Rig To Spud.
1330	1600	2½		Pilot w/311mm Bit For 26" Conductor Hole.
SPUD RIG 1300 HRS JAN 11/85				

BOILER HOURS

DRILLER Dave Lauck

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		Dave Lauck	4
DERRICKMAN		Jack McEvoy	8
MOTORMAN		DAVID COOK	4
FLOORMAN		PAT MASUZUMI	9
FLOORMAN		HARPER SINGH	8
FLOORMAN			
LEASEMAN		ALFRED ROBISCA	8
DERRICK		PAT DUBRAND	8
CREW		Lloyd Ostlund	12

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
			m
			m
			m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	1A		
SIZE	311		
MFG.	HW		
TYPE	J3A		
JETS mm	OPEN		
SER. No.	4260		
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGC. S PARTL P COMD C.
4	16											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
16 00	17 30	1½		DRILL PILOT HOLE W/311mm BIT
17 30	18 00	½		TORQUE UP KELLY & PICK UP BAILS
19 00	24 00	6		DRILL MOUSE HOLE & RAT HOLE

BOILER HOURS

DRILLER Richard Lockhart

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		BRIAN LICKOSH	8
DERRICKMAN		BRUCE LOTT	8
MOTORMAN	628 775 903	Andy Fitzel	8
FLOORMAN		ALAN KELLY	8
FLOORMAN		ROBERT KELLY	8
FLOORMAN			
LEASEMAN		STHON FRASER	16
OPERATOR		KENNY SHAE	8

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

APPROVAL PENDING APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING APPROVED
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No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
PCI ETAL TWEED LAKE	M-47		85 1 9 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA	ATCO EBUTAK	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	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	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

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE 85 1 9 (Year Month Day)

WELL NAME & No. PCI TWEED LAKE M-47

COMPANY ATCO EBUTAK

TOOL PUSHER _____ RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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	

DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR	OD	m
D.C. ID	OD	m
STB RMR	OD	m
D.C. ID	OD	m
STB RMR	OD	m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

MORNING TOUR

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 SGL..S PAR'EL..P COM'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	2000	12	1	START #1 GEN. PUT UP PREFABS SPOT FUEL TANK
				START LISTER AIR HEATER. Rig up AIR, STEAM, FUEL
				+ WATER LINES.

BOILER HOURS 1 X 12

DRILLER Rick Borgen

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		Rick Borgen	12
DERRICKMAN		STEVE PIECHOTTA	12
MOTORMAN		ED LICKOCH	12
FLOORMAN		GORDON KELLY	12
FLOORMAN		GEORGE GRANDMAIRE	12
FLOORMAN			
LEASEMAN		JOHNNY LENNIE	12

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR

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 SGL..S PAR'EL..P COM'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	2000	12	1	PUT UP PUMP END PRE-FABS
				STRING MUD TANK ELECTRAL CORDS
				Rig Up AIR, WATER + FUEL LINES

BOILER HOURS

DRILLER D. D. Hausman

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		DUANE SCHLEDMAN	12
DERRICKMAN		JACK McAVOY	12
MOTORMAN			
FLOORMAN			
FLOORMAN		PAT MASUZUMI	12
FLOORMAN		HARPER SINGH	12
LEASEMAN		ALFRED ROBISON	12
DRK		PAT DURAND	12
LEASE		SIMON FRASER	12
LEASE		LEON TAKAZO	12
LEASE		MAURICE LENNIE	12

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

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 SGL..S PAR'EL..P COM'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

DRILLER

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

FORM 376m

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING

APPROVED

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No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
PCI ET AL TWEED	M-47		85 1 8
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA		ATCO EQUITAK	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	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	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

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE 85 1 8 (Year Month Day)

WELL NAME & No. PCI TWEED M-47

COMPANY ATCO / EQUITAK

TOOL PUSHER [illegible] RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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

FORM 3T6m

No. DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m^3/min	/	/	/
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m^3			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm^3			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

MORNING TOUR

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 SGL., S. PAR'EL P. COMP'D C.

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
18:00	20:00	12	1	RAISE DERRICK & SUB SPOT SUCTION TANK
				SPOT BOILERS & LITE PLANTS, WATER TANK, LISTER.
				PUT UP FLOOR PREFABS.

BOILER HOURS

DRILLER Rick Boagen

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		RICK BOAGEN	12
DERRICKMAN		STEVEN PACHOTA	12
MOTORMAN		ED LICHOCK	12
FLOORMAN		GORDON KELLY	12
FLOORMAN		GEORGE GRANDSTAFF	12
FLOORMAN			
LEASEMAN		JOHNNIE LENNIE	12

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

No. DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m^3/min	/	/	/
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m^3			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm^3			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DAY TOUR

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 SGL., S. PAR'EL P. COMP'D C.

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
13:00	20:00	12	1	RAISE DERRICK & SUB
				SPOT MUD TANK
				SPOT BOILERS & LIGHT PLANT SHACKS
				PUT ON PRE-FAB - RIG FLOOR

BOILER HOURS

DRILLER D. Richmond

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		DUANN SCHAEFFMAN	12
DERRICKMAN		JACK McAVOY	14
MOTORMAN			
FLOORMAN			
FLOORMAN		PAT MASUZUMI	12
FLOORMAN		HARPER SINEH	12
LEASEMAN		ALFRED ROBISCH	12
DRK		PAT DURAND	12
LEASE		SIMON FRASER	14
LEASE		LEON TAKAZO	12
LEASE		MAURICE LENNIE	12

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

No. DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m^3/min	/	/	/
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m^3			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm^3			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

EVENING TOUR

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 SGL., S. PAR'EL P. COMP'D C.

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

DRILLER

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

APPROVAL PENDING

APPROVED

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OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING

APPROVED

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No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
PCI ET AL TWEED LAKE	M-47		85 1 7

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA	ATCO / EQUITAK	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	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	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

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE 85 / 1 / 7 (Year / Month / Day)

WELL NAME & No. PCI TWEED M-47

COMPANY ATCO / EQUITAK

TOOL PUSHER _____ RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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	

DRILLING ASSEMBLY (at end of tour) / BIT RECORD / MUD RECORD

No.	DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa*s Pa	
	D.C. ID OD	m	SER. No.		GEL STR. Pa	
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			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 m³/min		TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

MORNING TOUR

METRES DRILLED / FORMATION (SHOW CORE RECOVERY)

FROM	TO	DR..D RM-R CORE..C	CORE No.	FORMATION	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 SGL..S PARE..P COMP..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	2000	12	1	SPOT MATS, SPOT + RU SUB. PIN DERRICK + RAISE A-LEGS SPOT MUDTANK. PIN DOG HOUSE + MANIFOLD SHACK ON SUB. WORK ON WELDING SHACK.

BOILER HOURS

DRILLER Richard Borgen

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		Rick Borgen	12
DERRICKMAN		STEVE PRICHOTTA	12
MOTORMAN		ED LICHOH	12
FLOORMAN		GORDON KELLY	12
FLOORMAN		GEORGE GRANDJEAN	12
FLOORMAN			
LEASEMAN		Johnnie Lennie	12

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR

METRES DRILLED / FORMATION (SHOW CORE RECOVERY)

FROM	TO	DR..D RM-R CORE..C	CORE No.	FORMATION	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 SGL..S PARE..P COMP..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
08.00	20.00	12	1	SPOT MATTING, SPOT + RU SUB, PIN DERRICK RAISE A-LEGS, PIN MONKEY BOARD Dog House + MANIFOLD SHACKS PLACED ON SUB SHACK MUD TANK

BOILER HOURS

DRILLER R. C. Scherman

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		DUANE SCHIERMAN	12
DERRICKMAN		JACK McANDY	12
MOTORMAN			12
FLOORMAN			
FLOORMAN		PAT MASUZUMI	12
FLOORMAN		HARPER SINGH	12
LEASEMAN		HAROLD ROBISCH	12
DRK		PAT DURAND	12
LEASE		SIMON FRASER	12
LEASE		LEON TAKAZO	12
LEASE		MORRICE LENNIE	12

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

METRES DRILLED / FORMATION (SHOW CORE RECOVERY)

FROM	TO	DR..D RM-R CORE..C	CORE No.	FORMATION	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 SGL..S PARE..P COMP..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

DRILLER

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

FORM 3T6m

APPROVAL PENDING

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OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING

APPROVED COPYRIGHT 1977 JANUARY

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
PCI ET AL TWEED	M-47		85 1 6 (Yr. Mo. Day)
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA		ATCO EQUITAK	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	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	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
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

DRILLING CREW PAYROLL DATA No.

DATE 85 1 6 (Year Month Day)

WELL NAME & No. PCI TWEED M-47

COMPANY ATCO EQUITAK

TOOL PUSHER _____ RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

MORNING TOUR

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 SOL. S PAR'L P COMP'D C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
0800	2000	12	1	UNLOAD TRUCKS, PIN DERRICK, UNLOAD MAT LOADS & CLEAN MATTING. WORK ON DRAWORKS.	
				1 MAN HELP CARNS WATER TRUCK TO FLOOD FUEL BURRS 10 HRS.	

DRILLER Rick Berger

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		RICK BERGER	12
DERRICKMAN		STEVE PICCIOTTA	12
MOTORMAN		ED LEHRICH	12
FLOORMAN		GORDON KELLY	12
FLOORMAN		GEORGE GRANDMAISE	12
FLOORMAN			
LEASEMAN		JOHNNIE LENNIE	12

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR

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 SOL. S PAR'L P COMP'D C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
08:00	20:00	12	1	RIG DERRICK TOGETHER, PINNED CLEAN & CAGE ICE OFF MATTING UNLOAD TRUCKS	

DRILLER D. P. Sherman

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		DUANE SCHUERMAN	12
DERRICKMAN		JACK McAVOY	12
MOTORMAN			
FLOORMAN			
FLOORMAN		BAT MASUZUMI	12
FLOORMAN		HARPER SINCH	12
LEASEMAN		ALFRED ROBISCA	12
DRK		BAT DURAND	12
LEASEMAN		SIMON FRASER	12
LEASEMAN		LEON TAKAZE	12
LEASEMAN		MAURICE LENNIE	12

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

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 SOL. S PAR'L P COMP'D C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

DRILLER

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

FORM 376m

APPROVAL PENDING

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APPROVAL PENDING

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No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
PCI ET AL TWEED	M-47		85 1 5

OPERATOR	CONTRACTOR	RIG No.
TETRA CANADA	ATCO / EQUITAK	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	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER

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

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE 85 1 5 (Year Month Day)

WELL NAME & No. PCI TWEED M-47

COMPANY ATCO/EQUITAK

TOOL PUSHER _____ RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
			m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
			m
			m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

MORNING TOUR

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 SGC/S PARB/P COMP'D/C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	2000	12	1	AT UPTARK SHOP, HELP BLASTER W/ SUBS.

BOILER HOURS

DRILLER Rick Borgen

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		RICK BORGEN	12
DERRICKMAN		STEVE PECHOTTA	12
MOTORMAN		ED LICHACH	12
FLOORMAN		GORDON KELLY	12
FLOORMAN		GEORGE GRANDJEAN	12
FLOORMAN			
LEASEMAN		JOHNNY LENNIE	12

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR

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 SGC/S PARB/P COMP'D/C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
08:00	20:00	12	1	PUT UP TRUCK
				HAUL FOOD FROM PENNE
				UNLOAD TRUCKS

BOILER HOURS

DRILLER D. P. Akisuman

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		DWAYNE SCHIERMAN	12
DERRICKMAN		JACK McAVOY	12
MOTORMAN			
FLOORMAN			
FLOORMAN		PAT MASUZUMI	12
FLOORMAN		HARPER SINGH	12
LEASEMAN		ALFRED ROBISCH	12
DRK		PAT DURAND	12
LEASEMAN		SIMON FRASER	12
LEASEMAN		LEON TAKAZO	12
LEASEMAN		MAURICE LENNIE	12

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

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 SGC/S PARB/P COMP'D/C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

DRILLER

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

FORM 316m

APPROVAL PENDING

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APPROVAL PENDING

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No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
PCI TWEED	M-HT		85 1 4
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA		ATCO / ESQUIRE	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	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING, TUBING OR LINER	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

METRES CUT OFF — PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE 85 1 4 (Year Month Day)

WELL NAME & No. PCI TWEED M-HT

COMPANY ATCO/ESQUIRE

TOOL PUSHER _____ RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N.			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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			

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

MORNING TOUR

METRES DRILLED / FORMATION

FROM	TO	DR. / RM. / 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 SOL. S. PARB. P COMP'D. C.

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0500	2000	12	1	SPOT MATS FOR TRUCK SHOP + UNLOAD TRUCKS
				RIG UP MUD BLASTERS, WAIT ON TRANSWORKS

DRILLER Rick Borgen

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		Rick Borgen	12
DERRICKMAN		Dwain Schroeder	12
MOTORMAN		LD LICKOCK	14
FLOORMAN		Gordon KELLY	12
FLOORMAN		George GRANDSAIGE	10
FLOORMAN			
LEASEMAN		Johnnie Leonie	8
DRK		STEVE Recchetta	12
LEASE		MAURICE LEONIE	12
LEASE		KEON TAKAZO	8
LEASE		SIMON FRASER	8

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR

METRES DRILLED / FORMATION

FROM	TO	DR. / RM. / 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 SOL. S. PARB. P COMP'D. C.

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
16 00	24 00	8	1	Spot Truck Shop Mats, Unload Trucks
				Set Up Salute Dish
				Haul Food + Equip. From Rane

DRILLER Rick Borgen

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		Dwain Schroeder	12
DERRICKMAN		Jack McAvoy	8
MOTORMAN			
FLOORMAN			
FLOORMAN		Pat Masuzumi	8
FLOORMAN		HARPER SINGH	8
LEASEMAN		Alfred Robison	8
DRK		Pat Durand	8

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

METRES DRILLED / FORMATION

FROM	TO	DR. / RM. / 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 SOL. S. PARB. P COMP'D. C.

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

DRILLER

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

FORM 376m

APPROVAL PENDING

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APPROVAL PENDING

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No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE
PE TWEED ~~MAGNUS~~ PAPER	M3-47 ~~3-47~~		85 1 3 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA	ARCO / ESSO	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	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	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

METRES CUT OFF — PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE 85 / 1 / 3 (Year / Month / Day)

WELL NAME & No. PE TWEED M3-47

COMPANY ARCO / ESSO

TOOL PUSHER [signature] RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES	DP	m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS	mm		
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s	YP Pa	/	/
GEL STR. Pa		/	/
WATER LOSS cm³			
pH			
SOLIDS %			
MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES	DP	m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS	mm		
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s	YP Pa	/	/
GEL STR. Pa		/	/
WATER LOSS cm³			
pH			
SOLIDS %			
MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES	DP	m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS	mm		
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s	YP Pa	/	/
GEL STR. Pa		/	/
WATER LOSS cm³			
pH			
SOLIDS %			
MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg

MORNING TOUR

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 SGL..S PAR'EL..P COMP'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	2000	12	1	TEAR OUT TRUCK SHOP, LOAD TRUCKS & DRIVE TO NEW LOCATION

BOILER HOURS

DRILLER Rick Bergen

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		Rick Bergen	12
DERRICKMAN		Steve Rechotta	12
MOTORMAN		Ed Lickish	12
FLOORMAN		Gordon Kelly	8
FLOORMAN		George Grandjambe	8
FLOORMAN			
LEASEMAN		Johnnie Lennie	12

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR

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 SGL..S PAR'EL..P COMP'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

DRILLER

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

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 SGL..S PAR'EL..P COMP'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

DRILLER

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

FORM 3T6m

APPROVAL PENDING

APPROVED COPYRIGHT 1977 JANUARY

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APPROVAL PENDING

APPROVED COPYRIGHT 1977 JANUARY

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
FCT TWEED	M-47		85 01 03
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA INC.		ATCO EQUITAK	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	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	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

METRES CUT OFF — PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA — No.

DATE 85 / 1 / 3 (Year / Month / Day)

WELL NAME & No. FCT TWEED M-47

COMPANY ATCO/EQUITAK

TOOL PUSHER _____ RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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

DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SOL..S PARTL.P COMP'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
				CLEAN UP CAMP & unload TRUCKS

BOILER HOURS

DRILLER

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		BRIAN LISKOSKI	12
DERRICKMAN		BRUCE LOTT	12
MOTORMAN	DENATOK	KENNY SHAP	12
FLOORMAN		ALLAN KELLY	8
FLOORMAN		ROBINSON KELLY	8
FLOORMAN			
LEASEMAN		MAURICE LENNIE	12
Lease		LEON TAKAZO	8
Lease		Lloyd OSlund	8

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SOL..S PARTL.P COMP'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

DRILLER

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SOL..S PARTL.P COMP'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

DRILLER

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

FORM 3T6m

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OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING

APPROVED COPYRIGHT 1977 JANUARY

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
PI MORROW CREEK	3-11		85 1 2
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA		ATCO/EQUITAK	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	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	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

METRES CUT OFF — PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE 85 / 1 / 2+3 (Year / Month / Day)

WELL NAME & No. PI MORROW CREEK 3-11

COMPANY ATCO/EQUITAK

TOOL PUSHER _____ RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PARL. P COMP'D. C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	2000	12	1	DRIVE TO NEW LEASE - TUFFED M-47
				JAN 2/85

BOILER HOURS

DRILLER Rick Bergen

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN		DWAYNE SHERMAN	12
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PARL. P COMP'D. C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	2000	12	1	CLEAN CAMPS + UNLOAD TRUCKS
				JAN 3/85

BOILER HOURS

DRILLER Rick Bergen

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN		DWAYNE SHERMAN	12
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T/B/ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PARL. P COMP'D. C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

DRILLER

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

FORM 3T6m

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APPROVAL PENDING

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No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
PCI Tweed	M47		85 1 02
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO CANADA		ATCO EQUITAK	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	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	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

METRES CUT OFF — PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE 85 1 02 (Year Month Day)

WELL NAME & No. PCI Tweed M47

COMPANY ATCO/EQUITAK

TOOL PUSHER _____ RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m

(FORCE) WT. OF STRING daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T./B./ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SCL..S PAR'L..P COMP'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
				Rig up Camp & String out airport lights @ Tweed Airstrip	

DRILLER Brad Liked

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		BRIAN LICKACH	12
DERRICKMAN		BRUCE LOTT	12
MOTORMAN	DERRICK	Kenny SHAE	12
FLOORMAN		ALAN KELLY	8
FLOORMAN		Robinson KELLY	8
FLOORMAN			
LEASEMAN		MAURICE Lemire	12
Lease		Lloyd Ostlund	8
Lease		Leon TAKAZO	

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STR RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m

(FORCE) WT. OF STRING daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T./B./ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SCL..S PAR'L..P COMP'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

DRILLER

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m

(FORCE) WT. OF STRING daN

BIT RECORD

BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS. RUN		
COND. 1/8's T./B./ GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SCL..S PAR'L..P COMP'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

DRILLER

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

FORM 3T6m

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OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING

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No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE (Yr. Mo. Day)
MORROW CREEK	J-71		85 1 2

OPERATOR	CONTRACTOR	RIG No.
PETRO CANADA	ATCO/EQUITAK	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	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER

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

METRES CUT OFF — PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA No.

DATE 85 1 2 (Year Month Day) — TOUR F P / MORROW CK J-71 / PETRO CAN

WELL NAME & No. PETRO CAN MORROW CK J-71

COMPANY ATCO

TOOL PUSHER Chuny — RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR'EL..P COMP'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	2200	14	1	LOAD OUT TRUCKS + CLEAN TRUCK SHOP

DRILLER Rick Borgen

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		Rick Borgen	13
DERRICKMAN		DUAN SHERMAN	12
MOTORMAN		ED LICKOCH	13
FLOORMAN		GORDON KELLY	8
FLOORMAN		GEORGE GRANTJANKE	8
FLOORMAN			
LEASEMAN		Johnnie Lennie	10
DRK		STEVE PIECHOTTA	13

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR'EL..P COMP'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

DRILLER

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa*s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR'EL..P COMP'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

DRILLER

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

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No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
MORROW CREEK	J-71		85 1 1
OPERATOR		**CONTRACTOR**	**RIG No.**
PETRO-CAN		ATCO/EQUITAK	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	TYPE	STROKE LENGTH

LEG.

LAST CASING TUBING OR LINER	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
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

DRILLING CREW PAYROLL DATA No.

DATE 85 1 1 (Year Month Day) TUES

WELL NAME & No. PETRO-CAN MORROW J-71

COMPANY ATCO

TOOL PUSHER Shuny RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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

No. DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR'L..P COM'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	2000	12	1	REPAIR TRUCK SHOP TARPS, CLEAN LEASE + WAIT ON TRUCKS.

BOILER HOURS

DRILLER Rick Borgen

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		Rick Borgen	12
DERRICKMAN		DUAIN SHERMAN	12
MOTORMAN		ED LICKOCH	12
FLOORMAN		GORDON KELLY	8
FLOORMAN		GEORGE GRANTSPANKE	8
FLOORMAN			
LEASEMAN		Johnnie Lemaire	8
DRK		STEVE PECHOTTA	12

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR

No. DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR'L..P COM'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

DRILLER

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

No. DRILLING ASSEMBLY (at end of tour)

BIT		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
D.C. ID OD		m
STB RMR OD		m
STANDS DP		m
SINGLES DP		m
KELLY DOWN		m
TOTAL		m
(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/ GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa			
GEL STR. Pa			
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL..S PAR'L..P COM'D..C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

DRILLER

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

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No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	DATE Yr. Mo. Day
OPERATOR		CONTRACTOR	RIG No. 16
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

LAST CASING TUBING OR LINER	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
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

DRILLING CREW PAYROLL DATA No.

DATE 95 / 1 / 1 (Year / Month / Day)

WELL NAME & No. PCE Tweed M 47

COMPANY ATCO / EQUITAK

TOOL PUSHER [illegible] RIG No. 76

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	MORN.	DAY	EVE.
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.				
22.				
23.				
COMPLETION	A. PERF'R'T'N			
	B. TBG TRIPS			
	C. TREATING			
	D. SWABBING			
	E. TESTING			
	F. ADDIT'N'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

DRILLING ASSEMBLY (at end of tour)

BIT			m
STB RMR	OD		m
D.C. ID	OD		m
STB RMR	OD		m
D.C. ID	OD		m
STB RMR	OD		m
STANDS DP		151	m
SINGLES DP		1	m
KELLY DOWN			m
TOTAL		1016.28	m
(FORCE) WT. OF STRING			daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	
DENSITY kg/m³	
PRESSURE GRADIENT	
VISCOSITY	
PV mPa*s / YP Pa	
GEL STR. Pa	
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR'EL P COMP'D C.

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TIME LOG TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
				DRIVE TO NEW Lease & Rig up CAMP	

DRILLER [illegible] Lidard

MORNING TOUR 00:00 TO 08:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER		BRIAN LICKOCH	12
DERRICKMAN		BRUCE LOTT	12
MOTORMAN	DERRICK	KENNY SHAE	12
FLOORMAN		ALLAN KELLY	8
FLOORMAN		ROBINSON KELLY	8
FLOORMAN			
LEASEMAN		MAURICE Lennie	12
Lease		Lloyd OSlund	8
Lease		Leon TAKAZO	8

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

DAY TOUR

DRILLING ASSEMBLY (at end of tour)

BIT			m
STB RMR	OD		m
D.C. ID	OD		m
STB RMR	OD		m
D.C. ID	OD		m
STB RMR	OD		m
STANDS DP			m
SINGLES DP			m
KELLY DOWN			m
TOTAL			m
(FORCE) WT. OF STRING			daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	
DENSITY kg/m³	
PRESSURE GRADIENT	
VISCOSITY	
PV mPa*s / YP Pa	
GEL STR. Pa	
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR'EL P COMP'D C.

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TIME LOG TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

DRILLER

DAY TOUR 08:00 TO 16:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

DRILLING ASSEMBLY (at end of tour)

BIT			m
STB RMR	OD		m
D.C. ID	OD		m
STB RMR	OD		m
D.C. ID	OD		m
STB RMR	OD		m
STANDS DP			m
SINGLES DP			m
KELLY DOWN			m
TOTAL			m
(FORCE) WT. OF STRING			daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/ GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	
DENSITY kg/m³	
PRESSURE GRADIENT	
VISCOSITY	
PV mPa*s / YP Pa	
GEL STR. Pa	
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

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 SGL. S PAR'EL P COMP'D C.

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TIME LOG TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS

DRILLER

EVENING TOUR 16:00 TO 24:00

CREW	SOC. SEC. No.	NAME	HRS.
DRILLER			
DERRICKMAN			
MOTORMAN			
FLOORMAN			
FLOORMAN			
FLOORMAN			
LEASEMAN			

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

FORM 3T6m

APPROVAL PENDING

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OFFICIAL DAILY DRILLING REPORT FORM

APPROVAL PENDING

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