

REPORT No.

REPORT No.

1700	1700	5100	21	Mile off A-1 to A2 locations as above
1700				Cont. Montrose

No. 36

DAILY DRILLING REPORTREPORT No. 36

LEASE

WELL No.

WELL NUMBER

WATER DEPTH

DATE

OPERATOR

CONTRACTOR

RIG No.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER

D.P. SIZE

kg/m

GRADE

TOOL JT O.D.

TYPE THREAD

STRING No.

PUMP No.

PUMP MANUFACTURER

TYPE

STROKE LENGTH

TIME DISTRIBUTION - HOURS

No. DRILLING ASSEMBLY (at end of tour)

BIT RECORD

MUD RECORD

CODE No. OPERATION

FIRST TOUR

SECOND TOUR

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 1/2" J. PPS

22 1/2" J. PPS

23 1/2" J. PPS

COMPLETION

A. PERFORATION

B. TBG TRIPS

C. TREATING

D. SWABBING

E. TESTING

F. ADDITION

G.

TOTALS

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.

HRS. W/OPR. D.P.

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

TOTAL MUD COST

DRILLER

DRILLER

E.R.C.B.

OPR.

R.M.

R.M.

LEGAL LAND DESCRIPTION

WIRE LINE RECORD

REEL No.

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER

INSIDE DIAMETER

MAKE

kg/m

GRADE

No. JOINTS

TOTAL LENGTH

RKB. TO CSG. HD.

SET AT

SIZE

No. LINES

METRES SLIPPED

METRES CUT OFF

PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED

FORMATION

ROTARY RPM

(FORCE) WT. ON BIT daN

PUMP PRESS

PUMP No.

STROKES per min

PUMP No.

STROKES per min

METHOD RUN

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

DEVIATION RECORD

DEPTH

DEV.

DIRECTION

DEPTH

DEV.

DIRECTION

DEPTH

DEV.

DIRECTION

TIME LOG

ELAPSED TIME

CODE No.

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

METRES DRILLED

FORMATION

ROTARY RPM

(FORCE) WT. ON BIT daN

PUMP PRESS

PUMP No.

STROKES per min

PUMP No.

STROKES per min

METHOD RUN

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

DEVIATION RECORD

DEPTH

DEV.

DIRECTION

DEPTH

DEV.

DIRECTION

DEPTH

DEV.

DIRECTION

TIME LOG

ELAPSED TIME

CODE No.

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS

No.

35

DAILY DRILLING REPORT

REPORT No. 35

LEASE A-1 P-53 Rindal Mt	WELL No. A-1 P-53	WELL NUMBER A-1 P-53	WATER DEPTH 94' 08' 30"	DATE Yr. Mo. Day 94 08 30					
OPERATOR Amoco Canada Petro Co. Ltd		CONTRACTOR Drill Well		RIG No. 441					
SIGNATURE OF OPERATOR'S REPRESENTATIVE [Signature]		SIGNATURE OF CONTRACTOR'S RIG MANAGER [Signature]							
D.P. SIZE 88.9	kg/m 1479	GRADE E	TOOL JT. O.D. 130.6	TYPE THREAD IF	STRING No. 368	PUMP No. 1	PUMP MANUFACTURER OPI	TYPE 700	STROKE LENGTH 203
88.9	2307	X	130.7	IF	79	2	Kilwell	640	123

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT	SIZE	BIT No.	TIME	DENSITY kg/m ³	PRESSURE GRADIENT
1	RIG UP AND TEAR DOWN			used	17				
2	DRILL ACTUAL			B/sub	.91				
3	REAMING			STB RMR	OD	m	MFG		
4	CORING			D.C. ID	OD	m	TYPE		
5	CONDITION MUD & CIRCULATE	100	125	STB RMR	OD	m	JETS mm		
6	TRIPS	600	1000	D.C. ID	OD	m	SER. No.		
7	LUBRICATE RIG	25	25	STB RMR	OD	m	DEPTH OUT		
8	REPAIR RIG						DEPTH IN		
9	CUT OFF DRILLING LINE	75					TOTAL METRES DRILLED		
10	DEVIATION SURVEY						TOTAL HRS. RUN		
11	WIRE LINE LOGS			190	STANDS DP	3631.56	COND. 1/8" T/B/GAGE		
12	RUN CASING & CEMENT				SINGLES DP		FLOW RATE m ³ /min		
13	WAIT ON CEMENT				KELLY DOWN	10.94	PRESSURE DROP kPa		
14	NIPPLE UP B.O.P.				TOTAL	3643.55			
15	TEST B.O.P.	50			(FORCE) WT OF STRING	45,000	daN		
16	DRILL STEM TEST				REMARKS				
17	PLUG BACK								
18	SQUEEZE CEMENT								
19	FISHING								
20	DIR. WORK								
21	3 1/2" drill pipe 200								
22	1 1/2" drill pipe 150								
23	Drill Kelly 50								

COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A. PERF. T.N.	B. TBG TRIPS	C. TREATING	D. SWABBING	E. TESTING	F. ADDIT'L	G.	BIT	SIZE	TIME
							STB RMR	OD	m
							D.C. ID	OD	m
							STB RMR	OD	m
							D.C. ID	OD	m
							STB RMR	OD	m
TOTALS				12	12				
DAY WORK TIME SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. WO/DP									
HRS. STANDBY									
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS									
TOTAL MUD COST									

E.R.C.B.	OPR.	R.M.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)
(3) H.S. Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering

LEGAL LAND DESCRIPTION										WIRE LINE RECORD									
Amoco PTD M.T. UNIT										REEL No.									
OUTSIDE DIAMETER										SIZE									
INSIDE DIAMETER										No. LINES									
MAKE										METRES SUPPLIED									
kg/m										12.11									
GRADE										METRES CUT OFF									
No. JOINTS										PRESENT LENGTH									
TOTAL LENGTH										MEGAJOULES SINCE LAST CUT									
RKB. TO CSG. HD										2053									
SET AT										CUMULATIVE MEGAJOULES									
										148081									

METRES DRILLED		DR. D RM R CORE C		CORE No.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO																		
3643.55																			

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

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO								
00:00	00:10	2.00	21			Rig out at base, unloading/make up flow nipple/charge			
00:10	00:15	.25	7			over handling, equip to 3 1/2" switch out key hose			
00:15	00:15	4.00	6			Rig sources / function B/Runs (3 sources) out of hole			
00:15	00:15	.75	9			Mud + trip in w/ bit, bit out + DP to 3640m			
00:15	00:15	.75	9			Shut + cut / 12-1/4" in			
00:15	00:15	2.00	6			TRIP IN 3643.55' (Back to top)			
00:15	00:15	1.50	22			Brake Ann. Indicator, Dry Seal, 400 in 400 CBI, core same			
00:15	00:15	1.00	5			Free Hole w/ Indicator 400			
00:15	00:15	.50	15			Pressure Test Permanent Indicator (PPE Pumps 40)			
00:15	00:15	.50	15			To Topo Lo, 21 mpa H ₂ 10 mpa (20)			

METRES DRILLED		DR. D RM R CORE C		CORE No.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO																		

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

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO								
12:00	13:15	1.25	5			Finish Drilling w/ Indicator water			
13:15	15:00	1.75	6			Up D.P. 2 R.M. 6 195' sds H/decide			
15:00	15:30	.50	23			Brake Top Bottom Kelly Subs			
15:30	17:00	3.50	6			Up D.P.			
17:00	19:15	.25	7			Rig sources / function (1 source) / 1/2" (3 sources)			
19:15	24:00	4.75	6			40 3 1/2" DP w/ 40 machine			



No.

DAILY DRILLING REPORT

REPORT No.

LEASE M F53 POINTED MTN	WELL No. A2 F53	WELL NUMBER A2 F53	WATER DEPTH 3.1	DATE 31/12/94					
OPERATOR AMOCO CANADA PETRO. CO. LTD		CONTRACTOR LRIVE WELL SERVICE		RIG No. L11					
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S RIG MANAGER <i>[Signature]</i>							
D.P. SIZE 100	kg/m 1.25	GRADE X	TOOL JT O.D. 120.6	TYPE THREAD 11	STRING No. 28	PUMP No. 2	PUMP MANUFACTURER CITWELL	TYPE 64C	STROKE LENGTH 1.25

TIME DISTRIBUTION - HOURS				No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT	m	BIT No.	SIZE	TIME	DENSITY kg/m ³	PRESSURE GRADIENT	VISCOSITY	
1	RIG UP AND TEAR DOWN											
2	DRILL ACTUAL			STB RMR	OD	m	MFG					
3	REAMING			D.C. ID	OD	m	TYPE					
4	CORING			STB RMR	OD	m	JETS mm		PV mPa.s	YP Pa		
5	CONDITION MUD & CIRCULATE			D.C. ID	OD	m	SER. No.		GEL STR. Pa			
6	TRIPS	1075	200	STB RMR	OD	m	DEPTH OUT		WATER LOSS cm ³			
7	LUBRICATE RIG	125					DEPTH IN		pH			
8	REPAIR RIG						TOTAL METRES DRILLED		SOLIDS %			
9	CUT OFF DRILLING LINE						TOTAL HRS RUN					
10	DEVIATION SURVEY											
11	WIRE LINE LOGS		7.00	STANDS DP	m	COND. 1/8" T/B/GAGE			MUD & CHEMICALS ADDED			
12	RUN CASING & CEMENT			SINGLES DP	m	FLOW RATE m ³ /min			TYPE	AMT. kg	TYPE	AMT. kg
13	WAIT ON CEMENT			KELLY DOWN	m	PRESSURE DROP kPa						
14	NIPPLE UP B.O.P.			TOTAL	m							
15	TEST B.O.P.			(FORCE) WT. OF STRING	daN							
16	DRILL STEM TEST			REMARKS Repairing down on pressure side / Rig 8512 + crown								
17	PLUG BACK			sucker (w/)								
18	SQUEEZE CEMENT											
19	FISHING											
20	DIR. WORK											
21	NO. OF DAYS FROM SPUD											
22	CUMULATIVE ROTATING HRS											
23	TOTAL MUD COST			DRILLER 344								

COMPLETION				No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
A	PERF'T'N	B	TBG TRIPS	BIT	m	BIT No.	SIZE	TIME	DENSITY kg/m ³	PRESSURE GRADIENT	VISCOSITY	
C	TREATING	D	SWABBING	STB RMR	OD	m	MFG					
E	TESTING	F	ADDIT'N'L	D.C. ID	OD	m	TYPE					
G				STB RMR	OD	m	JETS mm		PV mPa.s	YP Pa		
				D.C. ID	OD	m	SER. No.		GEL STR. Pa			
				STB RMR	OD	m	DEPTH OUT		WATER LOSS cm ³			
							DEPTH IN		pH			
							TOTAL METRES DRILLED		SOLIDS %			
							TOTAL HRS RUN					
				STANDS DP	m	COND. 1/8" T/B/GAGE			MUD & CHEMICALS ADDED			
				SINGLES DP	m	FLOW RATE m ³ /min			TYPE	AMT. kg	TYPE	AMT. kg
				KELLY DOWN	m	PRESSURE DROP kPa						
				TOTAL	m							
				(FORCE) WT. OF STRING	daN							
				REMARKS (Unleak) Production string onto paper necks (unleak) turns - links on pump sub								
				DRILLER 115								

E.R.C.B. (1) Daily Walk Around Inspection (2) Detailed Inspection-Weekly (using check list) (3) H+S Signs Posted (if required)		OPR. Initial _____ Initial _____ Initial _____		R.M. Initial _____ Initial _____ Initial _____		(1) Rig Site Health and Safety Meeting (one meeting/crew/month) (2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) (3) Mast Inspected Before Raising or Lowering		R.M. Initial _____ Initial _____ Initial _____			
LEGAL LAND DESCRIPTION: AMOCO 120 MTN NW1						WIRE LINE RECORD REEL No. _____					
LAST CASING TUBING OR LINER						SIZE No. LINES METRES CUT OFF PRESENT LENGTH MEGAJOULES SINCE LAST CUT CUMULATIVE MEGAJOULES					

METRES DRILLED		DR. D RM R CORE C		CORE No.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN			
FROM	TO																				
DEVIATION RECORD																					
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS												BOILER HOURS			
FROM	TO					0000 0330 35 0 TIEP IN INFL. ASSEM.															
0330	0430	1	21	INFLATE PACKER - PUMP 8m ³ DOWN DP																	
0430	0530	1	6	POOH W/ INFLATE ASSEM.																	
0530	0545	25	7	RIG SERVICE / function annular (8 strokes) Pumps (3 strokes)																	
0545	1200	6.25	6	POOH W/ INFLATE ASSEM.																	
1200																					

METRES DRILLED		DR. D RM R CORE C		CORE No.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN			
FROM	TO																				
DEVIATION RECORD																					
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS												BOILER HOURS			
FROM	TO					1200 1400 2.00 6 Trip out w/ 8X DP & 1/2 (25 strokes) / back out															
1400	1400	4.00	11	w/ 1/2 bag down Packer inflate annular																	
1400	2100	3.00	23	Rig in cables wireline / R/H w/ CCL & Comm. Key																	
2100																					
2100 2900 3.00 11 Run in PERMANENT Packer. ON ARAS WIRELINE @ 40m/min																					
Set Packer @ 26412m & Pull WIRELINE																					
1200																					

FORM 2T6m

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Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

No.

REPORT No.

REPORT No. 53

TIME LOG		ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
12.00	12.45	2.75	6	Trip out w/ fish down 2' & liner	
12.45	15.30	2.75	9	slip & cut 12.44 dull line	
15.30	1900	3.5	6	Cent trip out w/ fish across 24' liner	
1900				BREAK FISH ON SURFACE. BREAK DOWN FISH	
	2000	1	21	w/PPS TONGS - HOMCO - LAY DOWN	
2000	2345	3.75	22	4D 1JT 16/1 + 9/16 NEW JT. + MU. NEW LINED TOP ASSA	
2345	2400	.5	7	RIG SERVICE / FUNCTION ANNULAR (3 SECS)	
		12			

No.

DAILY DRILLING REPORT

REPORT No. 28

LEASE A1 P53 PTD.MTN	WELL No. A1 P53	WELL NUMBER A1 P53	WATER DEPTH 41	DATE Yr. Mo. Day					
OPERATOR AMOCO CANADA PETRO. CO. LTD		CONTRACTOR DRIEVE WELL							
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S RIG MANAGER							
D.P. SIZE 589	kg/m 17.4	GRADE E	TOOL JT Q.D. 100.6	TYPE-THREAD IF	STRING No. 369	PUMP No. 1	PUMP MANUFACTURER OIL WELL	TYPE 840	STROKE LENGTH 1.57

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT No.	SIZE	TIME	DENSITY kg/m ³	PRESSURE GRADIENT	VISCOSITY
1	RIG UP AND TEAR DOWN			6	73	01:30 04:00 01:30	1015	1000	1010
2	DRILL ACTUAL	11:25	6:20	6	73				
3	REAMING			6	73				
4	CORING			6	73				
5	CONDITION MUD & CIRCULATE	3:25		6	73				
6	TRIPS	1:25		6	73				
7	LUBRICATE RIG	25		6	73				
8	REPAIR RIG			6	73				
9	CUT OFF DRILLING LINE			6	73				
10	DEVIATION SURVEY			6	73				
11	WIRE LINE LOGS			6	73				
12	RUN CASING & CEMENT			6	73				
13	WAIT ON CEMENT			6	73				
14	NIPPLE UP B.O.P.			6	73				
15	TEST B.O.P.			6	73				
16	DRILL STEM TEST			6	73				
17	PLUG BACK			6	73				
18	SQUEEZE CEMENT			6	73				
19	FISHING			6	73				
20	DIR. WORK			6	73				
21				6	73				
22				6	73				
23				6	73				

COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A	PERF'TN	B	TBG TRIPS	BIT No.	SIZE	TIME	DENSITY kg/m ³	PRESSURE GRADIENT	VISCOSITY
1				6	73	13:00 17:00 19:30	1005	1010	1010
2				6	73				
3				6	73				
4				6	73				
5				6	73				
6				6	73				
7				6	73				
8				6	73				
9				6	73				
10				6	73				
11				6	73				
12				6	73				
13				6	73				
14				6	73				
15				6	73				
16				6	73				
17				6	73				
18				6	73				
19				6	73				
20				6	73				
21				6	73				
22				6	73				
23				6	73				

FORM 276m	APPROVAL PENDING	APPROVED	Revised December 1986
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LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.

mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit = indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)

flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa·s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

ER.C.B.	OPR.	R.M.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	Initial
(3) H/S Signs Posted (if required)	Initial	Initial	Initial
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/ing/month)	Initial	Initial	Initial
(3) Mast Inspected Before Raising or Lowering	Initial	Initial	Initial
LEGAL LAND DESCRIPTION	WIRE LINE RECORD		
LAST CASING TUBING OR LINER	REEL No.		
OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m
GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD
SET AT	SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH		
MEGAJOULES SINCE LAST CUT	CUMULATIVE MEGAJOULES		

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D RM. R CORE. C	CORE No.	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S PAREL. P COM'D. C	NAME	HRS
4024	4076	D		15	6	6.5	140	80	152			GLENN HELLARD	12
DEVIATION RECORD													
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS							
0000	11:45	11:45	3	DIR/FIC 4024-4076m									
11:45	12:00	15	7	Rig Service / function completion (8 hrs) / Pump (3 hrs)									

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D RM. R CORE. C	CORE No.	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S PAREL. P COM'D. C	NAME	HRS
4076	4104	D		15	6	7.5	140	80	152			GLENN HELLARD	12
DEVIATION RECORD													
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS					
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS							
12:00	13:30	1:30	2	Cased 71.4116 - 4107m TD									
13:30	14:45	1:15	3	Pump - 1.5m down 3m / Circ 7min 144/min									
14:45	21:00	6:15	6	POOH TO WIN (OW)									
21:00			5	GAIN PIT VOLUME + (CONDITION) MUD / PUMP 22m									
3:30	24:00	1:30	6	HOIST BIT #6 FILL HOLE ON WAY OUT.									

FORM 276m	APPROVAL PENDING	APPROVED	Revised December 1986
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DRILLING CREW PAYROLL DATA

DATE	74 09 23
WELL NAME & No.	A1 P53 AMOCO PETRO. CO. LTD. NWT
COMPANY	DRIEVE WELL
RIG MANAGER	FRED BERTHOLD
RIG No.	411

FIRST TOUR 00:00 TO 12:00		INJURIES	
CREW	SOC. INS. No.	NAME	HRS
DRILLER		GLENN HELLARD	12
DERRICKMAN		CHRIS FORTY	12
MOTORMAN		EAST HELLARD	12
FLOORMAN		LANCE LUSTIG	12
FLOORMAN		JARED DOLL	12
FLOORMAN			
LEASEMAN			
CRANE SUPT			
MECHANIC			
WELDER			
ROUSTABOUT			
ROUSTABOUT			
TRAINEE			
DERRICKMAN (2)			

SECOND TOUR 12:00 TO 24:00		INJURIES	
CREW	SOC. INS. No.	NAME	HRS
DRILLER		GLENN HELLARD	12
DERRICKMAN		CHRIS FORTY	12
MOTORMAN		EAST HELLARD	12
FLOORMAN		LANCE LUSTIG	12
FLOORMAN		JARED DOLL	12
FLOORMAN			
LEASEMAN			
CRANE SUPT			
MECHANIC			
WELDER			
ROUSTABOUT			
ROUSTABOUT			
TRAINEE			
DERRICKMAN (2)			

FORM 276m	APPROVAL PENDING	APPROVED	Revised December 1986
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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No. 26

LEASE Amoco A1-P53	WELL No. A1-P53	WELL NUMBER A1-P53	WATER DEPTH 940.21	DATE 940821					
OPERATOR Amoco Canada Petro. Co. Ltd.	CONTRACTOR Drive Well		RIG No. 41						
SIGNATURE OF OPERATOR'S REPRESENTATIVE Rob Reid		SIGNATURE OF CONTRACTOR'S RIG MANAGER D. J. McLean							
D.P. SIZE 88.9	kg/m 17.79	GRADE E	TOOL JOINT 120.6	TYPE THREAD 1F	STRING No. 184	PUMP No. 1	PUMP MANUFACTURER OPE	TYPE 700	STROKE LENGTH 203
88.9	17.79	E	120.6	1F	184	1	OPE	700	203
22.9	23.07	X	120.7	2F		2	OIL WELL	640	157

TIME DISTRIBUTION - HOURS				No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT	SIZE	BIT No.	SIZE	TIME	DENSITY	PRESSURE GRADIENT	VISCOSITY
1	RIG UP AND TEAR DOWN			6	73	153	Smith	02:00	1010	1010	36
2	DRILL ACTUAL	11:25	14:00	6	73	153	Smith	02:00	1010	1010	36
3	REAMING			10	73	153	Smith	02:00	1010	1010	36
4	CORING			10	73	153	Smith	02:00	1010	1010	36
5	CONDITION MUD & CIRCULATE	7:25		10	73	153	Smith	02:00	1010	1010	36
6	TRIPS			10	73	153	Smith	02:00	1010	1010	36
7	LUBRICATE RIG	2:25	12:25	10	73	153	Smith	02:00	1010	1010	36
8	REPAIR RIG			10	73	153	Smith	02:00	1010	1010	36
9	CUT OFF DRILLING LINE			10	73	153	Smith	02:00	1010	1010	36
10	DEVIATION SURVEY			10	73	153	Smith	02:00	1010	1010	36
11	WIRE LINE LOGS			10	73	153	Smith	02:00	1010	1010	36
12	RUN CASING & CEMENT			10	73	153	Smith	02:00	1010	1010	36
13	WAIT ON CEMENT			10	73	153	Smith	02:00	1010	1010	36
14	NIPPLE UP B.O.P.			10	73	153	Smith	02:00	1010	1010	36
15	TEST B.O.P.			10	73	153	Smith	02:00	1010	1010	36
16	DRILL STEM TEST			10	73	153	Smith	02:00	1010	1010	36
17	PLUG BACK			10	73	153	Smith	02:00	1010	1010	36
18	SQUEEZE CEMENT			10	73	153	Smith	02:00	1010	1010	36
19	FISHING			10	73	153	Smith	02:00	1010	1010	36
20	DIR. WORK			10	73	153	Smith	02:00	1010	1010	36
21				10	73	153	Smith	02:00	1010	1010	36
22				10	73	153	Smith	02:00	1010	1010	36
23				10	73	153	Smith	02:00	1010	1010	36

COMPLETION				No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT	SIZE	BIT No.	SIZE	TIME	DENSITY	PRESSURE GRADIENT	VISCOSITY
A	PERF. T.N.			6	73	153	Smith	02:00	1010	1010	36
B	T.B.G. TRIPS			6	73	153	Smith	02:00	1010	1010	36
C	TREATING			6	73	153	Smith	02:00	1010	1010	36
D	SWABBING			6	73	153	Smith	02:00	1010	1010	36
E	TESTING			6	73	153	Smith	02:00	1010	1010	36
F	ADDITIONAL			6	73	153	Smith	02:00	1010	1010	36
G				6	73	153	Smith	02:00	1010	1010	36
TOTALS				6	73	153	Smith	02:00	1010	1010	36
DAY WORK TIME 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											

LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.

mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit = indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)

flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa·s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H/S Signs Posted (if required)	Initial	Initial

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

METRES DRILLED		FORMATION		ROTARY		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE C.	CORE No.	(SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min
3916	3957	41			65	7/8	8750	140	80	152	5
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS			

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS			
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS						
11:45	12:00	15	7	RIG SERVICE - FUNCTION PIPE RAMS 3 SECS							
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS			

METRES DRILLED		FORMATION		ROTARY		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE C.	CORE No.	(SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min
3957	3978	41			5	7/8	100	10	10	10	5
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS			

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS			
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS						
12:00	12:00	11:00	2	Dr/Pr 3957-3995							
23:00	23:15	15	7	Rig Service							
23:15	24:00	17:5	5	Condition MUD and ADD BHA #5 Pump to bit (min PPS 200 ALL) 8							
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS			

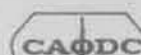
DRILLING CREW PAYROLL DATA

DATE		94 08 21		WELL NAME & No.		Amoco A1-P53 Pld. Msn. NWI.		COMPANY		Drive Well		RIG MANAGER		D. J. McLean		RIG No.		41	
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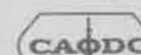
CREW		SOC. INS. No.		NAME		HRS		INJURIES	
DRILLER				Ken Hansall	12				
DERRICKMAN				John Pratt	12				
MOTORMAN				Dale Kostyniuk	12				
FLOORMAN				Ken Calvert	12				
FLOORMAN				Chris Young	12				
FLOORMAN									
LEASEMAN									
CRANE SUPT.									
MECHANIC									
WELDER									
ROUSTABOUT									
ROUSTABOUT									
TRAINEE									
DERRICKMAN (2)									

CREW		SOC. INS. No.		NAME		HRS		INJURIES	
DRILLER				GLENN HELLROD	12				
DERRICKMAN				CHRIS FORTENOUS	12				
MOTORMAN				FAST HOLKRO	12				
FLOORMAN				LANCE LUSTIG	12				
FLOORMAN				JARED DOLL	12				
FLOORMAN									
LEASEMAN									
CRANE SUPT.									
MECHANIC									
WELDER									
ROUSTABOUT									
ROUSTABOUT									
TRAINEE									
DERRICKMAN (2)									

FORM 276m

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OFFICIAL DAILY DRILLING REPORT FORM

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No.

DAILY DRILLING REPORT

REPORT No. 24

LEASE				WELL No.		WELL NUMBER		WATER DEPTH		DATE	
Amoco A1-P53						A1-P53				940819 Yr. Mo. Day	
OPERATOR						CONTRACTOR				RIG No.	
Amoco Canada. Petro. Co. Ltd.						Drive Well				41	
SIGNATURE OF OPERATOR'S REPRESENTATIVE						SIGNATURE OF CONTRACTOR'S RIG MANAGER					
H. P. P. P. P.						D. G. Cameron					
D.P. SIZE		kg/m.	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER		TYPE	STROKE LENGTH
88.9		19.79	E	120.6	IF	369	1	OPE		700	203
88.9		23.1	X	120.7	IF	79	2	OILWELL		640	157

TIME DISTRIBUTION - HOURS				No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD			
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT	m	BIT No				TIME					
1	RIG UP AND TEAR DOWN			SPERMAL	38.10	SIZE	153			DENSITY kg/m ³	1000				
2	DRILL ACTUAL	1075.15		3 STB RMR	27.79	MFG	HW			PRESSURE GRADIENT					
3	REAMING			D.C. ID	5.43	TYPE	AT 440			VISCOSITY	32				
4	CORING			13 STB RMR	120.43	JETS mm	87.5/139			PV mPa.s	YP Pa	/	/		
5	CONDITION MUD & CIRCULATE	1.00		D.C. ID	191.75	SER. No.	183WH			GEL STR Pa	/	/	/		
6	TRIPS	7.00		STB RMR	OD	DEPTH OUT	3880			WATER LOSS cm ³	15	12.5			
7	LUBRICATE RIG	2.00				DEPTH IN	3825			pH	9.5				
8	REPAIR RIG					TOTAL METRES DRILLED	55			SOLIDS %					
9	CUT OFF DRILLING LINE					TOTAL HRS RUN	18.25								
10	DEVIATION SURVEY	1		164 STANDS D.P.	3522.57	COND. 1/8" T/B/GAGE				MUD & CHEMICALS ADDED					
11	WIRE LINE LOGS			17 SINGLES X DP	159.14	FLOW RATE m ³ /min	/ /			TYPE	AMT. kg	TYPE	AMT. kg		
12	RUN CASING & CEMENT					PRESSURE DROP kPa				HEC 10	3.00				
13	WAIT ON CEMENT			KELLY DOWN	6.59										
14	NIPPLE UP B.O.P.			TOTAL	3880										
15	TEST B.O.P.			(FORCE) WT. OF STRING	60000	daN									
16	DRILL STEM TEST			REMARKS											
17	PLUG BACK			Function Pipe Ram 3/sec											
18	SQUEEZE CEMENT														
19	FISHING														
20	DIR. WORK														
21	FINISHING	1.50													

22. COMPLETION		No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
A. PERF. T/N		BIT	m	BIT No.	4	TIME	13:00	13:30	
B. TBG TRIPS		SPERRY 4	38.10	SIZE	153	DENSITY kg/m ³	1000	110	
C. TREATING		STB RMR	27.79	MFG	HW	PRESSURE GRADIENT			
D. SWABBING		D.C. ID	5.42	TYPE	ATJ 440	VISCOSITY	32	33	
E. TESTING		STB RMR	120.43	JETS	mm	PV mPa.s	/	/	/
F. ADDIT'L		D.C. ID	191.75	SER. No.	105WH	GEL STR. Pa	/	/	/
G.		STB RMR		DEPTH OUT	3894	WATER LOSS cm ³	10.5		
TOTALS	12 12			DEPTH IN	3825	pH	10	40	
DAY WORK TIME SUMMARY (OFFICE USE ONLY)				TOTAL METRES DRILLED	59	SOLIDS %			
HRS. W/CONTR. D.P.				TOTAL HRS. RUN	16.75				
HRS. W/OPR. D.P.		STANDS DP	3825.53	COND. 1/8" T/B GAGE		MUD & CHEMICALS ADDED			
HRS. WO/DP		SINGLES DP	109.14	FLOW RATE m ³ /min	/	TYPE	AMT. kg	TYPE	AMT. kg
HRS. STANDBY		KELLY DOWN	10.58	PRESSURE DROP kPa		BIOXIDE (pail)			
		TOTAL	3894			FLOPLEX 5	5 SXS		
		(FORCE) WT OF STRING	1090	daN		PTS 300	300		
REMARKS		FUNCTION TEST (CHOKES) (OK) TYPE RAMS: 1							
TOTAL DAY WORK		ANNULAR PREVENTER (S. 100)							
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS									
TOTAL MUD COST									

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

mud density = kilogram per cubic metre (kg/m³)
 pump-stroke length = millimetre (mm)
 weight of string = decanewton (daN)
 weight on bit: indicator will record decanewton
 linear mass = kilogram per metre (kg/m)
 viscosity = second per litre (s/L)

flow rate = cubic metre per minute (m^3/min)
 pressure gradient = kilopascal per metre (kPa/m)
 yield point = pascal (Pa)
 plastic viscosity = millipascal second ($\text{mPa}\cdot\text{s}$)
 gel strength = pascal (Pa)
 work completed by wire line = megajoule (MJ)
 inside diameter and outside diameter = millimetre (mm)
 pump pressure = kilopascal (kPa)

E.R.C.B.		O.P.R.		R.M.		R.M.	
(1) Daily Walk Around Inspection		Initial _____		Initial _____		(1) Rig Site Health and Safety Meeting (one meeting/crew/month) Initial _____	
(2) Detailed Inspection-Weekly (using check list)		Initial _____		Initial _____		(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) Initial _____	
(3) H ₂ S Signs Posted (If required)		Initial _____		Initial _____		(3) Mast Inspected Before Raising or Lowering Initial _____	

LEGAL LAND DESCRIPTION										WIRE LINE RECORD										REEL No.	
Amoco Ptd. Wtn. A1-P53 NWT.																					
LAST CASING TUBING OR LINER		OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No JOINTS	TOTAL LENGTH	RKB TO CSG HD.	SET AT	SIZE	No. LINES	METRES SLIPPED								
											1 1/4	8									
													METRES CUT OFF								
													PRESENT LENGTH								
													MEGAJOULES SINCE LAST CUT								
													CUMULATIVE MEGAJOULES								

METRES DRILLED		DR. D RM. R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	IFORCE WT. ON BIT daN	PUMP PRESS	PUMP No.		PUMP No.		METHOD RUN
FROM	TO			LINER SIZE	STROKES per min				LINER SIZE	STROKES per min	SGL S PAREL P COM'D C		
3837	3880			3837-3880 12.02m					140	80	152	-	S
							REDUCED PUMP SPEED						
DEVIATION RECORD		DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION			
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS					
FROM	TO												
0000	0030	.50	2	Rotate 3837-3840.8									
0030	0100	.50	10	Survey									
0100	0315	2.25	2	Slide 3840.8-3844 Rotate 3844-3848.15									
0315	0345	.50	10	Survey									
0345	0530	1.75	2	Slide & Rotate. 3848.15-3854 3854-3857.5									
0530	0545	.25	7	Rig Service									
0545	1200	6.25	7	SLIDE + ROTATE 3857 3880									
		12											

METRES DRILLED		DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1		PUMP No.		METHOD RUN	
FROM	TO			LINER SIZE	STROKES per min				LINER SIZE	STROKES per min	SGL'S PAR'EL P COM'D. C			
3880	3884								140	80	152		596	
						REDUCED PUMP SPEED								
DEVIATION RECORD		DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION				
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS						
FROM	TO													
1300	1330	1.5	2	ROTATE FR. 3880-3884										
1430	1430	1.16	5	MIX PTE IN MUD / CIRC TO BOTTOM (NEXT TRIP)										
1530	1530	1.00	6	PULL 20GDS 3500m										
1630	1700	1.5	2	CIRC. + PRESSURE TEST FORMATION TOO 14mpg										
1700	1800	1.00	6	FOOH W/ SPERRY #4 3000m										
1800	1830	.5	22	PICK UP Kelly / FILL HOLE + COOL TOOL										
1830	2000	1.5	6	PULL TO 2000 meters										
2000	2030	3.5	6	CIRC. TRIP OUT										
		12												
		12.76												

DRILLING CREW PAYROLL DATA

No. 24

SECOND TOUR 12:00 TO 24:00



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PENDING



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OFFICIAL DAILY DRILLING REPORT FORM



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No.

DAILY DRILLING REPORT

REPORT No.

LEASE AMOCO A1 F53 FTD MW	WELL No. A1 F53	WELL NUMBER A1 F53	WATER DEPTH 41	DATE 94 08 18					
OPERATOR AMOCO CANADA PETRO. CO. LTD.		CONTRACTOR DRIVE WELL							
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S RIG MANAGER <i>[Signature]</i>							
D.P. SIZE 1979	kg/m 1979	GRADE E	TOOL JT O.D. 100.6	TYPE THREAD 100.6	STRING No. 285	PUMP No. 1	PUMP MANUFACTURER DILL WELLS	TYPE 40	STROKE LENGTH 157

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT	m	BIT No.	SIZE	TIME	DENSITY kg/m ³
1	RIG UP AND TEAR DOWN								
2	DRILL ACTUAL	4.75		STB RMH	OD 27.74	MFG	HW		
3	REAMING			D.C. ID	5.43	TYPE	40.40		
4	CORING			STB RMH	OD 40.43	JETS mm	38.75		
5	CONDITION MUD & CIRCULATE			D.C. ID	191.75	SER No.	13504		
6	TRIPS	8.00	4.35	STB RMH	OD	DEPTH OUT			
7	LUBRICATE RIG		2.25			DEPTH IN			
8	REPAIR RIG					TOTAL METRES DRILLED			
9	CUT OFF DRILLING LINE	7.75				TOTAL HRS RUN			
10	DEVIATION SURVEY					COND. 1/8" T/8" GAGE			
11	WIRE LINE LOGS			184	STANDS DP	13.12.58			
12	RUNCASING & CEMENT			11	SINGLES X DP	102.46			
13	WAIT ON CEMENT				KELLY DOWN	m			
14	NIPPLE UP B.O.P.				TOTAL	m			
15	TEST B.O.P.								
16	DRILL STEM TEST								
17	PLUG BACK								
18	SQUEEZE CEMENT								
19	FISHING								
20	DIR. WORK								
21	CAI TOOL	1.30							
22	DRILL BHA 100								
23	DRILL TRS 100	2.75							

COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A	PERF. T.N.	B	T.B.G. TRIPS	BIT	m	BIT No.	SIZE	TIME	DENSITY kg/m ³
C	TREATING			STB RMH	OD 27.74	MFG	HW		
D	SWABBING			D.C. ID	5.43	TYPE	40.40		
E	TESTING			STB RMH	OD 40.43	JETS mm	38.75		
F	ADDIT'L			D.C. ID	191.75	SER No.	09504		
G				STB RMH	OD	DEPTH OUT	3837		
TOTALS		17	12			DEPTH IN	3825		
DAY WORK TIME SUMMARY (OFFICE USE ONLY)						TOTAL METRES DRILLED	12		
HRS. W/ CONTR. D.P.						TOTAL HRS RUN	5		
HRS. W/ OPR. D.P.						COND. 1/8" T/8" GAGE			
HRS. W/ O.D.P.						FLOW RATE m ³ /min			
HRS. STANDBY						PRESSURE DROP kPa			
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS									
TOTAL MUD COST									

DRILLER

LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.

mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)

flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa·s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

ER.C.B.	OPR.	R.M.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	Initial
(3) H.S. Signs Posted (if required)	Initial	Initial	Initial

LEGAL LAND DESCRIPTION	AMOCO FTD MW A1 F53 ALST	WIRE LINE RECORD	REEL No.
OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m
GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSO. HD
SET AT	SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH		
MEGAJOULES SINCE LAST CUT	2812.5		
CUMULATIVE MEGAJOULES	115061		

METRES DRILLED		DR. D. RM. R. CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	FORCE/WT. ON BIT daN	PUMP PRESS	PUMP No.	PUMP No.	METHOD RUN
FROM	TO									
3825	3825									

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3825									

TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS
FROM	TO					
1000	1100	100	6	TRIP IN BHA #3 SPERRY		
1100	1200	100	21	TRIP COOL TOOL 105.5°C		
1200	0800	600	6	TRIP OUT SPERRY #3		
0800	0900	100	22	MAKE DP SPERRY BHA #4		
0900	0945	.75	9	SLIP CUT 12.44m DRILL LINE		
0945	1000	.75	7	RIG SERVICE		
1000	1100	100	23	SURFACE PULSE TEST SPERRY #4		
1100	1200	100	6	RTH W/ SPERRY #4		

METRES DRILLED		DR. D. RM. R. CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	FORCE/WT. ON BIT daN	PUMP PRESS	PUMP No.	PUMP No.	METHOD RUN	
FROM	TO										
3825	3837			MUD MTR. 90	30	5/8	10	140	80	152	S

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

TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS
FROM	TO					
1200	1300	100	6	TRIP IN SPERRY #4		
1300	1330	.30	23	PULSE TEST SPERRY #4 @ 1500m		
1330	1400	1.00	6	TRIP IN SPERRY #4		
1400	1500	.50	23	PULSE TEST @ 2500 46°C		
1500	1600	1.00	6	TRIP IN SPERRY #4		
1600	1700	1.00	23	PULSE TEST @ 3000 10°C + 8.2°C		
1700	1730	.30	6	TRIP IN SPERRY #4		
1730	1815	.75	23	PULSE TEST		
1815	1900	.75	6	Run to Btm Kelly Up.		
1900	375	4.75	2	Rotary slide 3825 - 3837 0.01 TOL.		
375	2400	25	7	Rig Service Function Pipe Runs 4sec		

DRILLING CREW PAYROLL DATA		No. 23
DATE	94 08 18	
WELL NAME & No.	AMOCO A1 F53 FTD MW	
COMPANY	DRIVE WELL	
RIG MANAGER	<i>[Signature]</i>	RIG No. 41

FIRST TOUR 00:00 TO 12:00		INJURIES			
CREW	SOC. INS. No.	NAME	HRS	YES	NO
DRILLER		KEU LANSALL	12		
DERRICKMAN		JOHN FRATT	12		
MOTORMAN		DALE KOSTAJUK	12		
FLOORMAN		KEU CALVERT	12		
FLOORMAN		CHRIS YOUNG	12		
FLOORMAN					
LEASEMAN					
CRANE SUPT					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

SECOND TOUR 12:00 TO 24:00		INJURIES			
CREW	SOC. INS. No.	NAME	HRS	YES	NO
DRILLER		GLENN HELLARD	12		
DERRICKMAN		CHRIS FORTLEWS	12		
MOTORMAN		PAT HOLKHO	12		
FLOORMAN		IANKA LUSTIG	12		
FLOORMAN		JARED DOLL	12		
FLOORMAN					
LEASEMAN					
CRANE SUPT					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

FORM 278m

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Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

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1977 JANUARY

No.

DAILY DRILLING REPORT

REPORT No. 22

LEASE Amoco AI-P53 PTD.MTN. NAT.	WELL No. AI-P53	WELL NUMBER AI-P53	WATER DEPTH 9108 17	DATE Yr. Mo. Day					
OPERATOR Amoco Can. Petro. Co. LTD.	CONTRACTOR Drive Well		RIG No. 41						
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S RIG MANAGER <i>[Signature]</i>							
D.P. SIZE 88.9	kg/m 14.79	GRADE E	TOOL JT O.D. 120.6	TYPE THREAD IF	STRING No. 372	PUMP No. 1	PUMP MANUFACTURER OPE	TYPE 700	STROKE LENGTH 203
88.9	23.07	X	120.7	IF	80	2	oil well	640	157

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT	m	BIT No.	3	TIME	02:00 06:00 08:00
1	RIG UP AND TEAR DOWN			STB RMR	27.79	SIZE	153	DENSITY kg/m ³	1000 1000 1000
2	DRILL ACTUAL	11.5	10	D.C. ID	5.43	MFG.	HW	PRESSURE GRADIENT	
3	REAMING			D.C. ID	5.43	TYPE	AT533	VISCOSITY	31 30 30
4	CORING			STB RMR	120.43	JETS mm	87.87 159	PV mPa.s	/ / /
5	CONDITION MUD & CIRCULATE	.50		D.C. ID	191.75	SER. No.	38446	GEL STR Pa	/ / /
6	TRIPS	1.00		STB RMR		DEPTH OUT	3799	WATER LOSS cm ³	
7	LUBRICATE RIG	.25				DEPTH IN	3745	pH	
8	REPAIR RIG					TOTAL METRES DRILLED	54	SOLIDS %	
9	CUT OFF DRILLING LINE					TOTAL HRS. RUN	24		
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	INFORMATION	.50							
22									
23	Tool Face	.50							

COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A	PERF'RTN			BIT	m	BIT No.	3	TIME	02:45 5:00 8:00
B	TBG TRIPS			STB RMR	27.79	SIZE	153	DENSITY kg/m ³	1000 1000 1000
C	TREATING			D.C. ID	5.43	MFG.	HW	PRESSURE GRADIENT	
D	SWABBING			D.C. ID	5.43	TYPE	AT533	VISCOSITY	30 30 30
E	TESTING			STB RMR	120.43	JETS mm	87.87 159	PV mPa.s	/ / /
F	ADDIT'NL			D.C. ID	191.75	SER. No.	38446	GEL STR Pa	/ / /
G				STB RMR		DEPTH OUT	3825	WATER LOSS cm ³	15
TOTALS		17	12			DEPTH IN	3745	pH	10.5 10
DAY WORK TIME SUMMARY (OFFICE USE ONLY)						TOTAL METRES DRILLED	80	SOLIDS %	
HRS. W/CONTR. D.P.						TOTAL HRS. RUN	34		
HRS. W/OPR. D.P.									
HRS. WO/DP									
HRS. STANDBY									
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS									
TOTAL MUD COST									

LEGEND

Metric expressions:

mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit = indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)

flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa.s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B. (1) Daily Walk Around Inspection (2) Detailed Inspection-Weekly (using check list) (3) H/S Signs Posted (if required)

OPR. (1) Initial (2) Initial (3) Initial

R.M. (1) Initial (2) Initial (3) Initial

LEGAL LAND DESCRIPTION Amoco AI-P53 PTD.MTN. NAT.

WIRE LINE RECORD

REEL No. 112249

DRILLING CREW PAYROLL DATA

No. 22

DATE 94 08 17

WELL NAME & No. Amoco AI-P53 PTD.MTN.

COMPANY Drive Well

RIG MANAGER Tony Carman

RIG No. 41

METRES DRILLED

FORMATION (SHOW CORE RECOVERY)

ROTARY RPM 30 618 23/9 140 80 152

PUMP No. 140 80 152

PUMP No. 140 80 152

METHOD RUN SGL S PAREL P COM'D-C

DEVIATION RECORD

DEPTH DEV. DIRECTION

TIME LOG

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

1000 0200 3.00 2 Slide Rotate Lost 3m Fr. 3768 - 3773

0200 0230 .30 23 Establish Tool Face Splice #3 x DP

0230 0240 2 Slide FR 3773 - 3778 Rotate 1/2 Kelly 3778 - 3782

1145 9.25 SLIDE FR 3782 - 3788 ROTATE FR 3788 - 3792

1145 1200 2.35 1 RIG SERVICE - FUNCTION PIPE RAMS-CLOSE

12

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FORMATION (SHOW CORE RECOVERY)

ROTARY RPM 30 618 23/9 140 80 152

PUMP No. 140 80 152

PUMP No. 140 80 152

METHOD RUN SGL S PAREL P COM'D-C

DEVIATION RECORD

DEPTH DEV. DIRECTION

TIME LOG

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

1200 1445 2.75 2 ROTATE FR 3799 - 3801 / SLIDE FR 3801 - 3808

1415 1815 3.50 2 ROTATE FR 3808 - 3810 / SLIDE FR 3810 - 3816

1815 2200 3.75 2 ROTATE 3816 - 3820 / SLIDE FR 3820 - 3825

2200 2230 .50 5 Mix in mud + Circulate BTM (Heat Treatment)

2230 2330 1.00 6 Trip Sperry BHA #3

2330 2400 .50 21 Circ To Cool mWD Tools

12

METRES DRILLED

FORMATION (SHOW CORE RECOVERY)

ROTARY RPM 30 618 23/9 140 80 152

PUMP No. 140 80 152

PUMP No. 140 80 152

METHOD RUN SGL S PAREL P COM'D-C

DEVIATION RECORD

DEPTH DEV. DIRECTION

TIME LOG

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

1200 1445 2.75 2 ROTATE FR 3799 - 3801 / SLIDE FR 3801 - 3808

1415 1815 3.50 2 ROTATE FR 3808 - 3810 / SLIDE FR 3810 - 3816

1815 2200 3.75 2 ROTATE 3816 - 3820 / SLIDE FR 3820 - 3825

2200 2230 .50 5 Mix in mud + Circulate BTM (Heat Treatment)

2230 2330 1.00 6 Trip Sperry BHA #3

2330 2400 .50 21 Circ To Cool mWD Tools

12

No.

DAILY DRILLING REPORT

REPORT No. 21

LEASE Amoco A1-P53 PTD.MT. NW	WELL No. A1-P53	WELL NUMBER A1-P53	WATER DEPTH 9408.16	DATE 940816					
OPERATOR Amoco Can. Petro. Co. Ltd.	CONTRACTOR Drive Well	RIG No. 411							
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S RIG MANAGER							
D.P. SIZE 88.9	kg/m 19.79	GRADE E	TOOL JOINT 120.6	TYPE THREAD IF	STRING No. 372	PUMP No. 1	PUMP MANUFACTURER OPE	TYPE 200	STROKE LENGTH 203
88.9	23.07	X	120.7	IF	80	2	OILWELL	640	157

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT	SIZE	BIT No.	TIME	DENSITY	
1	RIG UP AND TEAR DOWN			SPERRY #3	38.10	153			
2	DRILL ACTUAL	1	11.28	STB RMR	27.79	MFG HW		PRESSURE GRADIENT	
3	REAMING			DARS	5.43	TYPE ATJ33		VISCOSITY	
4	CORING			STB RMR	120.43	JETS mm		PV mPa.s	
5	CONDITION MUD & CIRCULATE	50		DARS	191.75	SER. No. J84W6		GEL STR Pa	
6	TRIPS	60		STB RMR		DEPTH OUT		WATER LOSS cm ³	
7	LUBRICATE RIG		25			DEPTH IN		pH	
8	REPAIR RIG					TOTAL METRES DRILLED		SOLIDS %	
9	CUT OFF DRILLING LINE	75				TOTAL HRS RUN			
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	Handle Tool	25							
22	Fill pipe	20							
23	Tool face	15	50						

COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A.	PERF'RT'N			BIT	SIZE	BIT No.	TIME	DENSITY	
B.	TBG TRIPS			STB RMR	27.79	MFG HW		PRESSURE GRADIENT	
C.	TREATING			DARS	5.43	TYPE ATJ33		VISCOSITY	
D.	SWABBING			STB RMR	120.43	JETS mm		PV mPa.s	
E.	TESTING			DARS	191.75	SER. No. J84W6		GEL STR Pa	
F.	ADDIT'L			STB RMR		DEPTH OUT		WATER LOSS cm ³	
G.						DEPTH IN		pH	
TOTALS		12	12			TOTAL METRES DRILLED		SOLIDS %	
DAY WORK TIME SUMMARY (OFFICE USE ONLY)						TOTAL HRS RUN			
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									

LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.

mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)

flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa.s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.	
(1) Daily Walk Around Inspection	Initial	Initial	
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	
(3) H/S Signs Posted (if required)	Initial	Initial	

LEGAL LAND DESCRIPTION	WIRE LINE RECORD
AMOCO A1-P53 PTD.MT. NW	REEL No.
OUTSIDE DIAMETER	SIZE
INSIDE DIAMETER	No. LINES
MAKE	METRES SLIPPED
kg/m	
GRADE	
No. JOINTS	
TOTAL LENGTH	
RKB TO CSG. HD.	
SET AT	
LAST CASING TUBING OR LINER	METRES CUT OFF
	PRESENT LENGTH
	MEGAJOULES SINCE LAST CUT
	CUMULATIVE MEGAJOULES

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D RM R CORE C	CORE No.	ROTARY RPM	IFORCEI WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S PAR. EL. P COM'D C		
3745	3749	3	1	12	140	80							

DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO								
0000	0015	25	21			Make up Sperry BHA #3			
0015	0100	75	8			Pick up Kelly & Pulse Test Tripin with Sperry BHA #3			
0100	0130	50	5			Pick up Kelly & Pulse Test BHA #3 @ 90 spm (Flow)			
0130	0205	75	9			Slip & Cut 1244 m Line			
0205	0345	150	6			Tripin with sperry BHA #3			
0345	0415	50	22			Pick up Kelly Fill pipe & Pulse Test (Flow)			
0415	0630	225	6			Tripin with sperry BHA #3			
0630	0800	15	22			Pick up Kelly Fill pipe & Pulse Test cool Tool			
0800	0930	15	6			RUN SPERRY #3			
0930	1100	15	23			ESTABLISH TOOL FACE - TEMP / SPICE #1 x DP			
1100	1200	1	2			SLIDE FR. 3745-3748			

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D RM R CORE C	CORE No.	ROTARY RPM	IFORCEI WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S PAR. EL. P COM'D C		
3748	3768	10		12	140	80							

DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO								
1200	1215	25	7			RIG SERVICE / FUNCTION PIPE RAMC 3 SIG + ANNUAL			
1215	2200	975	2			SLIDE 3748-3764			
2200	2230	50	23			Establish TOOL FACE / SPICE #2 x DP			
2230	2400	150	2			SLIDE 3764-3768			

DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	

DRILLING CREW PAYROLL DATA

No. 21					
DATE 94 08 16					
WELL NAME & No. AMOCO A1-P53 PTD.MT. NW					
COMPANY DRIVE WELL					
RIG MANAGER Doug Cameron RIG No. 411					
FIRST TOUR 00:00 TO 12:00					
CREW	SOC. INS. No.	NAME	HRS	YES	NO
DRILLER		Ken Lansall	12		
DERRICKMAN		John Pratt	12		
MOTORMAN		Dale Kestyniuk	12		
FLOORMAN		Ken Calvert	12		
FLOORMAN		Chris Young	12		
FLOORMAN					
LEASEMAN					
CRANE SUPT					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					
No. OF DAYS SINCE LAST LOST TIME ACCIDENT					

SECOND TOUR 12:00 TO 24:00					
CREW	SOC. INS. No.	NAME	HRS	YES	NO
DRILLER		GLENN HEILROD	12		
DERRICKMAN		CHRIS FORTCOUS	12		
MOTORMAN		PASI HOLKKO	12		
FLOORMAN		LANCE LUSTIG	12		
FLOORMAN		JARED DOLL	12		
FLOORMAN					
LEASEMAN					
CRANE SUPT					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					
No. OF DAYS SINCE LAST LOST TIME ACCIDENT					

FORM 2T6m

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No. 20

REPORT No.

flow rate = cubic metre per minute (m^3/min)
 pressure gradient = kilopascal per metre (kPa/m)
 yield point = pascal (Pa)
 plastic viscosity = millipascal second ($\text{mPa}\cdot\text{s}$)
 gel strength = pascal (Pa)
 work completed by wire line = megajoule (MJ)
 inside diameter and outside diameter = millimetre (mm)
 pump pressure = kilopascal (kPa)

mud density = kilogram per cubic metre (kg/m³)
 pump-stroke length = millimetre (mm)
 weight of string = decanewton (daN)
 weight on bit: indicator will record decanewton
 linear mass = kilogram per metre (kg/m)
 viscosity = second per litre (s/L)

R.M.DRILLING CREW PAYROLL DATA

No. 17

DATE 94 08 12
Year Month Day
WELL NAME & No. Amoco A1 P3 P1000
COMPANY Devine Int'l
RIG MANAGER FRAN JOHNSON

FIRST TOUR

SECOND TOUR

METRES DRILLED		DR D- RM R CORE C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1		PUMP No. 2		METH RUN
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
3694.60	3696.52		192	Cut Window	20	1	850	140	85	140	-	5
					REDUCED PUMP SPEED							
DEVIATION RECORD		DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION		
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				BOILER HOURS				
FROM	TO											
17:50	1345	1.75	22	Cut Window - Two window 3694.60 - 3696.52								
1345	1530	1.75	22	Wore Mill & Mill then window section for dressing & circulate iron facing out of casing								
1530	1600	.70	23	Pressure Test Wellbore to 14 mpa - 15 min OK								
1600	1915	3.25	6	TK p Mill Assy #3 (Flow by) completed								
1915	1945	.30	9	Stop & cut 12" dia								
1945	2010	.25	7	Rig sensor 1 function Phases (3 sec) completed								
2010	2100	4.00	6	Cont. Taps cut Mill Assy #3								
		12										

DAILY DRILLING REPORT

REPORT No.

LEASE				WELL No.		WELL NUMBER		WATER DEPTH		DATE	
A1-PS3 PTD INT. H.W.T						A1 PS3				7/4/81 Yr. Mo. Day	
OPERATOR						CONTRACTOR				RIG No.	
Amoco Canada Petro Co LTD						DINE WIRE SERVICES				241	
SIGNATURE OF OPERATOR'S REPRESENTATIVE						SIGNATURE OF CONTRACTOR'S RIG MANAGER					
D P. SIZE		kg/m	GRADE	TOOL JT. O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER		TYPE	STROKE LENGTH
55.7		14.79	C	120.6	IF	375	1	OPI		700	203
55.7		23.07	X	160.7	IF	50	2	ON WELL		6140	152

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)

flow rate = cubic metre per minute (m^3/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second ($\text{mPa}\cdot\text{s}$)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.	R.M.
(1) Daily Walk Around Inspection	Initial <u>OC</u>	Initial <u> </u>	(1) Rig Site Health and Safety Meeting (one meeting/crew/month) Initial <u> </u>
(2) Detailed Inspection-Weekly (using check list)	Initial <u>OC</u>	Initial <u> </u>	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) Initial <u> </u>
(3) H ₂ S Signs Posted (if required)	Initial <u> </u>	Initial <u> </u>	(3) Mast Inspected Before Raising or Lowering Initial <u> </u>

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

METRES DRILLED		DR. D RM. R CORE. C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT dN	PUMP PRESS	PUMP No. 1		PUMP No. 2		MET RU
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
3691.42	3691.60	20		Cur Window	80 1/2	8500	140	85	140		3	
					REDUCED PUMP SPEED							

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

TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
00.00	01.00	1.00	6	POOH starter mill	
01.00	04.00	3.00	21	4/10 3000s DC / 1/16 in. up & R/H M. 11 ASS. #2	
04.00	04.15	.25	7	R/H Sealing / Function annular (7000s)	
04.15	05.00	3.75	6	R/H w/ Annul (10500s) #2	
05.00	06.00	.75	9	Scp & Cut 12.44m LINE, ADJUST BRACKS.	
06.00	1.00	1.25	6	FINISH IN w/ MILL ASS. #2	
10.00	12.00	2.00	22	CUT WINDOW 3691.40 - (REAM WINDOW 3690.50 - 3691.40)	
				POORLY TORQUE 4500 - 6800 D/1/16.	
		12.11.50			

METRES DRILLED		DR. O BM. R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT kN	PUMP PRESS	PUMP No. 1		PUMP No. 2		MET RUL SCALE CORRECTION
FROM	TO							LINER SIZE	STROKES per min.	LINER SIZE	STROKES per min.	
5041.60	3043.90	130			80	1	850	140	85	140		5
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
17.00	19.30	2.30	22	Cut WINDOW 3691.60 - 3693.90	
19.30	19.45	.15	7	RUG Service / Fan Fan Plugging (3 sec) (Assum. for 8.3)	
19.45	21.00	1.15	6	Room Window Assum. #2 / 40 1 Sample Plugs per	
			12		

DRILLING CREW PAYROLL DATA

No. 140

DATE 04 08 11
Year Month Day
WELL NAME & No. Chico A1 153 PPD 1177
COMPANY Exxon Well
RIG MANAGER Joe [Signature] RIG No. EL-11

SECOND TOUR 12:00 TO 24:00					INJURIES	
CREW	SOC. INS. No.	NAME	HRS	YES	NO	
DAILER		Dorey (Pine Con)	12			
DERRICKMAN		JOHN PRATT	12			
MOTORMAN		Paul Lamm	12			



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No.

DAILY DRILLING REPORT

REPORT No.

LEASE A-1-53 P.D. MT.	WELL No. A-1-53	WELL NUMBER A-1-53	WATER DEPTH 94.53 m	DATE 94 05 10					
OPERATOR Husco Canada P.D. Co. LTD	CONTRACTOR DRIWELL	RIG No. 2-11							
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S RIG MANAGER							
D.P. SIZE 88.9	kg/m 1179	GRADE E	TOOL J.T. O.D. 120.6	TYPE THREAD 1 1/2"	STRING No. 375	PUMP No. 1	PUMP MANUFACTURER GPI	TYPE 700	STROKE LENGTH 203
88.9	2307	X	120.7	1 1/2"	30	2	OILWELL	640	152

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT	m	BIT No.	SIZE	TIME	DENSITY kg/m ³
1	RIG UP AND TEAR DOWN			1	3.70				
2	DRILL ACTUAL			1	1.00				
3	REAMING			1	40				
4	CORING			1	62				
5	CONDITION MUD & CIRCULATE			1	955				
6	TRIPS	6:00	9:25	1	176.9				
7	LUBRICATE RIG								
8	REPAIR RIG								
9	CUT OFF DRILLING LINE								
10	DEVIATION SURVEY								
11	WIRE LINE LOGS								
12	RUNCASING & 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	BHA 7' 100								
22	Run GYRO 4' 40								
23	Wireline 4.75								

COMPLETION				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A	PERF'TIN	B	TBG TRIPS	BIT	m	BIT No.	SIZE	TIME	DENSITY kg/m ³
1		1		1	3.70				
2		1		1	1.00				
3		1		1	40				
4		1		1	62				
5		1		1	955				
6		1		1	176.9				
7		1		1	176.9				
8		1		1	176.9				
9		1		1	176.9				
10		1		1	176.9				
11		1		1	176.9				
12		1		1	176.9				
13		1		1	176.9				
14		1		1	176.9				
15		1		1	176.9				
16		1		1	176.9				
17		1		1	176.9				
18		1		1	176.9				
19		1		1	176.9				
20		1		1	176.9				
21		1		1	176.9				
22		1		1	176.9				
23		1		1	176.9				

LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.

mud density = kilogram per cubic metre (kg/m³)
pump stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit = indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)

flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa·s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

ERCB	OPR	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H/S Signs Posted (if required)	Initial	Initial

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

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE C	CORE No.	ROTARY RPM	FORCE WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. PAR. P. COM. D. C.	INJURIES	YES

DEVIATION RECORD		DEPTH		DEV		DIRECTION		DEPTH		DEV		DIRECTION	

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS	INJURIES	YES	NO	
0000	0100	1.00	81	Make up BHA 4' whipstock tool					
0100	0700	6.00	6	RTH BHA 27' (whipstock)					
0700	0730	30	6	Measure 13' x 15' = P/u same					
0730	1200	4.50	22	Seismic wireline gauge in depth, 24 in. (circumference)					
			12	HEAD & CEMENT TO COOL GYRO WHEN RUNNING IN GYRO, LAND GYRO = ORIENT WHIPSTOCK, SHAPE OF WHIPSTOCK @ 3690.56					
				1' LONG WHIPSTOCK ORIENTATION = RUN GYRO					

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No. 2		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE C	CORE No.	ROTARY RPM	FORCE WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. PAR. P. COM. D. C.	INJURIES	YES
3690.56	3691.40			80	1	500	140	85	140	-	5		

DEVIATION RECORD		DEPTH		DEV		DIRECTION		DEPTH		DEV		DIRECTION	

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS	INJURIES	YES	NO	
1200	1245	45	22	Run GYRO - ON ON WIRELINE - Rig out Seismic, Circumference					
				HEAD, WIRELINE = 4' 10' 15' wireline					
1245	1315	50	5	Key up, insert Kelly bar, Measure in = TAG whipstock					
1315	1800	4.45	23	Cut WINDON 3690.56 - 3691.40					
1800	1815	15	7	Rig Seismic, Function HYDRA CLOSE & SEC.					
1815	2100	5.45	6	4' 10' 12' SAMPLE 'X' DA. = Trip All Assembly #1					
			12						

FORM 278m

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