

LICENCE NO

WELL NAME & NO

APACHE PARAMOUNT LAC MAUNIOIR L-80, JOB #3954

OPERATOR

CONTRACTOR

APACHE CANADA LTD

NABORS DRILLING

SURFACE LOCATION

UNIQUE ID

1/10

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER

BARRY CLOSSON

RUSS LINDSAY

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Detailed Inspection - Weekly (Using Check List)

(3) H2S Syste Posttest if Required

(4) Well License & Stick Diagram Posted

(5) Flare Lines Observed

(6) BOP Drills Performed

(7) Visually Inspect BOP+ Flare Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (enrichment)

(2) CAODC Rig Rule Inspection Checklist (enrichment)

(3) Mast Inspection before Raising or Lowering

(4) Crown Bearer Checked

(5) Motor Kils Checked

YEAR

MONTH

DAY

2005

2

4

LAST CASING RUN IN

CS

UNEP

244 5

53 57

IPSCO

J-55

30

390 49

4 6

369

TEMPERATURE

30

DP

114

24 7

E

83

155

4 50H

297

8-P-80

NATIONAL

216

CURRENT CONDITIONS

SYNCHRO

DP

114

62 45

E

75

155

4 50H

14

WIND DIRECTION

WEST

DP

114

62 45

E

75

155

4 50H

14

ROAD CONDITION

SUPPLY

DP

159

147 5

E

56

159

4 50H

14

SHALE SHAKER (S)

RENTALS

SERVICES

MORNING

DAY

12

12

WELL NAME & NO.

YEAR

BIRTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

RIG NO.

PROVINCE

CAMP

YES

NO

RIG SAFETY DAYS

MORNING TOUR

FROM

0

TO

1200

INJURIES

CREW

SOC INS. NO

NAME

HRS

YES

NO

RATE SCHEDULE

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

DRIVERS

DAY TOUR

FROM

1200

TO

2400

INJURIES

CREW

SOC INS. NO

NAME

HRS

YES

NO

RATE SCHEDULE

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

DRIVERS

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

O.D

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

Ta

MOD

LOC

BRG

GADE

ODC

REASON PULLED

TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

WT OF DC

WT OF STRING

MUD TYPE

WATER BASED

OIL BASED

TIME

DENSITY (kg/m3)

FUNNEL VISCOSITY

FLUID LOSS (cm3)

pH

MUD MATERIALS ADDED

PRODUCT

AMOUNT

UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN

INTAKE DENSITY (kg/m3)

OVER FLOW DENSITY

UNDER FLOW DENSITY

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

BOILERS

1

2

HRS RUN

0

HRS RUN

BOILER pH

BOILER pH

STACK TEMP

STACK TEMP

DRILLER SIGNATURE

ROBERT LIVINGSTONE

SPECIAL / EVENT

TIME / DEPTH

SAFETY TOPIC

MEH

MAP

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

0

0800

8 00

22

NIGHT SHIFT GETS 8 HRS EACH STANDBY

0800

1200

4 00

23

PREPARE RIG TO GO TO NORMAN WELLS
WAITING ON TRUCKS (MULLEN TRUCKING)

1200

2400

4 00

22

WAIT ON DAYLIGHT & MULLEN TRUCKING

NOTES

FUEL @ 24:00-RIG +0, BOILER+0

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

O.D

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

Ta

MOD

LOC

BRG

GADE

ODC

REASON PULLED

TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

WT OF DC

WT OF STRING

MUD TYPE

WATER BASED

OIL BASED

TIME

DENSITY (kg/m3)

FUNNEL VISCOSITY

FLUID LOSS (cm3)

pH

MUD MATERIALS ADDED

PRODUCT

AMOUNT

UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN

INTAKE DENSITY (kg/m3)

OVER FLOW DENSITY

UNDER FLOW DENSITY

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

BOILERS

1

2

HRS RUN

0

HRS RUN

BOILER pH

BOILER pH

STACK TEMP

STACK TEMP

DRILLER SIGNATURE

GLEN CAREW

SPECIAL / EVENT

TIME / DEPTH

SAFETY TOPIC

MEH

MAP

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1200

2000

8 00

23

PREPARE RIG TO GO TO NORMAN WELLS
TAKE ROTARY TABLE OFF REMOVE POWER CORDS AND LIFTING SLINGS FROM DOGHOUSE
PREPARE SHALE SHAKERS TO REMOVE AND DEGASSER REMOVE MIX PUMPS
REMOVE A LOT OF EXTRA EQUIPMENT FROM RIG FOR WEIGHT RESTRICTION FOR ICE BRIDGES
SUCKED ALL FUEL OUT OF RIG TANK AND BOILER TANK(5296 LT RIG 1014 LT BOILER)

2000

2400

4 00

22

WAIT ON DAYLIGHT & MULLEN TRUCKING

NOTES

FUEL @ 24:00-RIG +0, BOILER+0

[illegible]

LICENCE NO 1075		WELL NAME & NO APACHE PARAMOUNT LAC MAUNIOIR L-80, JOB #3954		DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) HSS Signs Posted if Required (4) Well License & Slot Diagram Posted (5) Flare Lines Staked (6) BOP Data Performed (7) Visually Inspect BOPs - Flare Lines & Chokes/Lines (8) Rig Site Health & Safety Meeting (if necessary) (9) CAODC Rig Data Inspection Checklist (if necessary) (10) Mast Inspection before Raising or Lowering (11) Crown Block Checked (12) Motor Oils Checked		YEAR 2005 MONTH 2 DAY 8		LAST C/S SHOT TUESDAY CR UNEP		O.D. (mm) 244.5		MWD (mm) 53.57		MASS (kg/m) IPSCO		GRADE J-55		NO. OF JOINTS 30		TOTAL LENGTH 390.49		KB TO CSD HEAD 4.6		SET AT (m) 389							
OPERATOR APACHE CANADA LTD				CONTRACTOR NABORS DRILLING				RIG NO 8		FUEL @ 05:00 HRS 0		TEMPERATURE -20		CURRENT CONDITIONS SHOWING		WIND DIRECTION WEST		WIND VELOCITY 14		PUMP TYPE B-P-80		PUMP MANUFACTURER NATIONAL		STROKE LENGTH 218		SPUD DATE		TIME			
SURFACE LOCATION L-80				UNIQUE ID 1/10				RIG NO 0		BOILER 0		O.D. (mm) 244.5		MWD (mm) 53.57		MASS (kg/m) IPSCO		GRADE J-55		NO. OF JOINTS 30		TOTAL LENGTH 390.49		KB TO CSD HEAD 4.6		SET AT (m) 389		RIG RELEASE		TIME	
SIGNATURE OF OPERATOR'S REPRESENTATIVE				SIGNATURE OF CONTRACTOR'S RIG MANAGER RUSS LINDSAY				RIG NO 0		BOILER 0		O.D. (mm) 244.5		MWD (mm) 53.57		MASS (kg/m) IPSCO		GRADE J-55		NO. OF JOINTS 30		TOTAL LENGTH 390.49		KB TO CSD HEAD 4.6		SET AT (m) 389		WELL TYPE VERT		RS-ENTRY NO	
CODE NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100																															
TOTALS																															
DRILLING CREW PAYROLL DATA																															
WELL NAME & NO. YEAR MONTH DAY																															
OPERATOR CONTRACTOR																															
RIG MANAGER RIG NO.																															
PROVINCE CAMP YES NO RIG SAFETY DAYS																															
MORNING TOUR FROM 0 TO 1200 INJURES																															
CREW SOC INS NO. NAME HRS YES NO																															
RATE SCHEDULE REGULAR REPAIR INVERT																															
CREW SAFETY DAYS DRIVERS																															
DAY TOUR FROM 1200 TO 2400 INJURES																															
CREW SOC INS NO. NAME HRS YES NO																															
RATE SCHEDULE REGULAR REPAIR INVERT																															
CREW SAFETY DAYS DRIVERS																															

[illegible]

LICENCE NO 1075		WELL NAME & NO APACHE PARAMOUNT LAC MAUNIOIR L-80, JOB #3954		DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) VES Signs Posted & Rechecked (4) Well License & Stock Diagram Posted (5) Plans Lines Stated (6) BOP Drills Performed (7) Visually Inspect BOPs, Plans Lines & Degreaser Lines (8) Rig Site Health & Safety Monitoring (onshore/offshore) (9) CADCRC Rig Safety Inspection Checklist (onshore/offshore) (10) Must inspect before Raising or Lowering (11) Crown Shear Checked (12) Motor Vibs Checked		YEAR 2005 MONTH 2 DAY 8 RIG NO. 8 FUEL @ 05:00 HRS RIG 0 BOILER 0 TEMPERATURE TO CURRENT CONDITIONS SHOWING WIND DIRECTION WEST ROAD CONDITION SUPPLY		O.D. 244.5 I.D. 53.57 MASS (kg/m3) IPSCO GRADE J-65 NO. OF JOINTS 30 TOTAL LENGTH 360.48 KB TO CSD HEAD 4.8 SET AT (m) 388		BPOD DATE RIG RELEASE TIME WELL TYPE VERT RE-ENTRY NO OPERATOR'S ARE NT-05-0352 KELLY RSHQ CONTRACTOR'S JOB NUM 3954 TOUR SHEET SERIAL NUM NABRS_20050208_18 VENDOR SOFTWARE VERSION EDR_3-1-0_HF2 ETS 2.2		PASON	
OPERATOR APACHE CANADA LTD SURFACE LOCATION L-80 SIGNATURE OF OPERATOR'S REPRESENTATIVE		CONTRACTOR NABORS DRILLING UNIQUE ID 1/ /0 SIGNATURE OF CONTRACTOR'S RIG MANAGER RUSS LINDSAY		CODE NO 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		TOTALS NO. 2 TYPE DERRICK TYPE DERRICK LOADER #216 12 12		DRILLING CREW PAYROLL DATA WELL NAME & NO. YEAR MONTH DAY OPERATOR CONTRACTOR RIG MANAGER RIG NO. PROVINCE CAMP YES NO RIG SAFETY DAYS					
NO. DRILLING ASSEMBLY 1-1-1 END OF TOUR		LENGTH		BIT RECORD BIT NO. SIZE ADC CODE MANUFACTURER TYPE SERIAL NO JETS DEPTH OUT (m) DEPTH IN (m) TOTAL DRILLED (m) TOTAL HRS RUN CUTTING STRUCTURE TI T2 MDC LOC BRS GAGE GOC REASON PULLED TOTAL RUN (HRS) HOLE CONDITION HOLE DRAG TORQUE AT BOTTOM FILL ON BOTTOM (m)		MORNING TOUR MUD TYPE WATER BASED OIL BASED FROM TO D-R-C RPM WOB MUD MATERIALS ADDED PRODUCT AMOUNT UNIT SOLIDS CONTROL CENTRIFUGE HOURS RUN INTAKE DENSITY OVER FLOW DENSITY UNDER FLOW DENSITY REDUCED PUMP SPEED DEVIATION SURVEYS DEPTH (m) DEVIATION DIRECTION BOILERS 1 2 HRS RUN 0 HRS RUN BOILER PH BOILER PH STACK TEMP STACK TEMP DRILLER SIGNATURE ANDY MOROZ		METRES DRILLED FROM TO ELAPSED TIME CODE DETAILS OF OPERATIONS IN SEQUENCE & REMARKS RIG IN CAMP FOR NABORS #8 (REPAIR WATER LINES TOILETS FREEZERS & CLEAN CAMP) (CAMP WAS SEVERLEY BEAT FROM TRAVEL ON ICE ROAD VERY VERY ROUGH) MARTIN LONG FIELD SUPT (SET UP CAMP) RUSS LINDSAY RIG MANAGER (SET UP CAMP) C0082 RIG MANAGER CARL BREAUULT (SET UP CAMP)		TIME LOG FROM TO ELAPSED TIME CODE DETAILS OF OPERATIONS IN SEQUENCE & REMARKS STAND-BY		RATE SCHEDULE REGULAR REPAIR INVERT CREW SAFETY DAYS DAY TOUR FROM 1200 TO 2400 DILIGENCES CREW SOC INS NO NAME HRS YES NO	
NO. DRILLING ASSEMBLY 1-1-1 END OF TOUR		LENGTH		BIT RECORD BIT NO. SIZE ADC CODE MANUFACTURER TYPE SERIAL NO JETS DEPTH OUT (m) DEPTH IN (m) TOTAL DRILLED (m) TOTAL HRS RUN CUTTING STRUCTURE TI T2 MDC LOC BRS GAGE GOC REASON PULLED TOTAL RUN (HRS) HOLE CONDITION HOLE DRAG TORQUE AT BOTTOM FILL ON BOTTOM (m)		DAY TOUR MUD TYPE WATER BASED OIL BASED FROM TO D-R-C RPM WOB MUD MATERIALS ADDED PRODUCT AMOUNT UNIT SOLIDS CONTROL CENTRIFUGE HOURS RUN INTAKE DENSITY OVER FLOW DENSITY UNDER FLOW DENSITY REDUCED PUMP SPEED DEVIATION SURVEYS DEPTH (m) DEVIATION DIRECTION BOILERS 1 2 HRS RUN 0 HRS RUN BOILER PH BOILER PH STACK TEMP STACK TEMP DRILLER SIGNATURE ROBERT LIVINGSTONE		METRES DRILLED FROM TO ELAPSED TIME CODE DETAILS OF OPERATIONS IN SEQUENCE & REMARKS STAND-BY		TIME LOG FROM TO ELAPSED TIME CODE DETAILS OF OPERATIONS IN SEQUENCE & REMARKS STAND-BY		RATE SCHEDULE REGULAR REPAIR INVERT CREW SAFETY DAYS DAY TOUR FROM 1200 TO 2400 DILIGENCES CREW SOC INS NO NAME HRS YES NO	

[illegible]

LICENCE NO 1075
 WELL NAME & NO APACHE PARAMOUNT LAC MAUNIOIR L-80, JOB #3954
 OPERATION APACHE CANADA LTD
 SURFACE LOCATION L-80
 SIGNATURE OF OPERATOR'S REPRESENTATIVE BOB BROOKS
 CONTRACTOR NABORS DRILLING
 UNIQUE ID 1/10
 SIGNATURE OF CONTRACTOR'S RIG MANAGER RUSS LINDSAY

DAILY CHECKS
 (1) Daily Walk Around Inspection
 (2) Detailed Inspection Weekly (Using Check List)
 (3) H2S Signs/Pastes if Required
 (4) Well Licence & Stock Diagram Posted
 (5) Flare Lines Staked
 (6) BOP Drills Performed
 (7) Visually Inspect BOP's Flare Lines & Degasser Lines
 (1) Rig Site Health & Safety Meeting (once a week/month)
 (2) CADCDC Rig Safety Inspection Checklist (once a month)
 (3) Mast Inspection before Raising or Lowering
 (4) Crown Saver Checked
 (5) Motor Kils Checked

YEAR 2005 MONTH 2 DAY 10
 RIG NO 8
 FUEL @ 05:00 HRS
 RIG 0
 BOILER 0
 TEMPERATURE 30
 CURRENT CONDITIONS
 WIND DIRECTION WEST
 ROAD CONDITION SUPPLY
 O.D. (mm) 244.5
 I.D. (mm) 53.57
 MASS (kg/m) IPSCO
 GRADE J-55
 NO. OF JOINTS 30
 TOTAL LENGTH 390.48
 NO. TO CSD HEAD 4.8
 SET AT (m) 389
 MAKE IPSCO
 GRADE J-55
 NO. OF JOINTS 30
 TOTAL LENGTH 390.48
 NO. TO CSD HEAD 4.8
 SET AT (m) 389
 MAKE IPSCO
 GRADE J-55
 NO. OF JOINTS 30
 TOTAL LENGTH 390.48
 NO. TO CSD HEAD 4.8
 SET AT (m) 389

CODE	NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	TOTALS
		ROOUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	CONO MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	OUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSD & CEMENT	WAIT ON CEMENT	PIPELINE UP & D.P.	TEST & D.P.	DRILLSTEM TEST	PLUG BACK	BOULEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING									

NO. DRILLING ASSEMBLY (AT END OF TOUR)
 LENGTH
 BIT NO. O.D.
 SIZE
 MDC CODE
 MANUFACTURER
 TYPE
 SERIAL NO.
 JETS
 DEPTH OUT (m)
 DEPTH IN (m)
 TOTAL DRILLED (m)
 TOTAL HRS RUN
 CUTTING STRUCTURE
 TI T₉ MDC LOC BRG GAGE CDC REASON PULLED TOTAL RUN (HRS)
 HOLE CONDITION
 HOLE DRAG
 TORQUE AT BOTTOM
 FILL ON BOTTOM (m)
 MUD TYPE WATER BASED OIL BASED
 TIME
 DENSITY (kg/m³)
 FUNNEL VISCOSITY
 FLUID LOSS (cm³)
 pH
 MUD MATERIALS ADDED
 SOLIDS CONTROL
 CENTRIFUGE
 CIRCULATION PRESSURE
 PUMP NO 1
 PUMP NO 2
 REDUCED PUMP SPEED
 DEVIATION SURVEYS
 DEPTH (m) DEVIATION DIRECTION
 BOILERS
 HRS RUN 0 HRS RUN
 BOILER PH BOILER PH
 STACK TEMP STACK TEMP
 DRILLER SIGNATURE ANDY MOROZ
 SPECIAL EVENT
 TIME / DEPTH
 DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
 ATTEND PRESPLUD SM IN TRAVERS CAMP W3 RIG MANAGERS ALL CREWS OFF OF RIG
 C0008 PART CREW OFF OF C0062 & NABORS FIELD SUPT MARTIN LONG APACHE REPS
 GREG HLADUN WLF SWAN DARREL OPINKO BOB BRAITWAITE BOB BROOKS & JEFF BOWMES & VARIOUS SERVICES
 BOTH CREWS & ROSS BIRTWISTLE FLEW IN TODAY
 MECHANIC DROVE IN FROM NORMAN WELLS & ELECTRICIAN FLEW IN
 RIG MANAGER RIG C0062 CARL BREAUULT AND PART CREW ATTENDED PRE SPUD MEETING
 WITH APACHE AND RIG C0008 CREWS AND THEN FLEW INTO NORMAN WELLS WITH APACHE REPS

NO. DRILLING ASSEMBLY (AT END OF TOUR)
 LENGTH
 BIT NO. O.D.
 SIZE
 MDC CODE
 MANUFACTURER
 TYPE
 SERIAL NO.
 JETS
 DEPTH OUT (m)
 DEPTH IN (m)
 TOTAL DRILLED (m)
 TOTAL HRS RUN
 CUTTING STRUCTURE
 TI T₉ MDC LOC BRG GAGE CDC REASON PULLED TOTAL RUN (HRS)
 HOLE CONDITION
 HOLE DRAG
 TORQUE AT BOTTOM
 FILL ON BOTTOM (m)
 MUD TYPE WATER BASED OIL BASED
 TIME
 DENSITY (kg/m³)
 FUNNEL VISCOSITY
 FLUID LOSS (cm³)
 pH
 MUD MATERIALS ADDED
 SOLIDS CONTROL
 CENTRIFUGE
 CIRCULATION PRESSURE
 PUMP NO 1
 PUMP NO 2
 REDUCED PUMP SPEED
 DEVIATION SURVEYS
 DEPTH (m) DEVIATION DIRECTION
 BOILERS
 HRS RUN 0 HRS RUN
 BOILER PH BOILER PH
 STACK TEMP STACK TEMP
 DRILLER SIGNATURE GLEN CAREW
 SPECIAL EVENT
 TIME / DEPTH
 DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
 RECEIVED 10 RIG LOADS



PASON

SPUD DATE
 RIG RELEASE
 WELL TYPE VERT
 OPERATOR'S AFE NT 05-0352
 KELLY BEND
 CONTRACTOR'S JOB NUM 3954
 TOUR SHEET SERIAL NUM NABRS_20050210_1C
 VENDOR SOFTWARE VERSION EDR_3-1-0_HF2 ETS 2.2

DRILLING CREW PAYROLL DATA
 WELL NAME & NO. YEAR MONTH DAY
 OPERATOR CONTRACTOR
 RIG MANAGER RIG NO.
 PROVINCE CAMP YES NO RIG SAFETY DAYS
 MORNING TOUR FROM 0 TO 1200 INJURIES
 CREW SOC INS. NO. NAME HRS YES NO
 RATE SCHEDULE REGULAR REPAIR INVERT
 CREW SAFETY DAYS DRIVERS
 DAY TOUR FROM 1200 TO 2400 INJURIES
 CREW SOC INS. NO. NAME HRS YES NO
 RATE SCHEDULE REGULAR REPAIR INVERT
 CREW SAFETY DAYS DRIVERS

LICENCE NO
1075

WELL NAME & NO
APACHE PARAMOUNT LAC MAUNIOIR L-80, JOB #3954

OPERATOR
APACHE CANADA LTD

CONTRACTOR
NABORS DRILLING

SURFACE LOCATION
L-80

UNIQUE ID
1 / 0

SIGNATURE OF OPERATOR'S REPRESENTATIVE
BOB BROOKS

SIGNATURE OF CONTRACTOR'S RIG MANAGER
ROSS BIRTWISTLE

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Detailed Inspection - Weekly (Using Check List)

(3) HSE Signs Posted if Required

(4) Well Location & Status Diagram Posted

(5) Flare Lines Staked

(6) BOPD Data Performed

(7) Visually Inspect BOPs- Flare Lines & Doghouse Lines

(1) Rig Site Health & Safety Meeting (end of month)

(2) CADC Rig Status Inspection Checklist (end of month)

(3) Must inspect before Testing or Lowering

(4) Churn Grease Checked

(5) Motor Ribs Checked

YEAR
2008

MONTH
2

DAY
12

LEST
CARRIED
TUBING
C/L
LIFER

OD (mm)
244.5

WID (mm)
53.57

MASS (kg/m3)
IPSCO

GRADE
J-55

NO. OF JOINTS
30

TOTAL LENGTH
380.48

KB TO CSO HEAD
4.6

SET AT (m)
389

TEMPERATURE
-25

CURRENT CONDITIONS
SHOWING

WIND DIRECTION
WEST

WIND CONDITION
SUPPLY

DP
114

MASS
24.7

GRADE
E

WINDSPEED
83

T. JNT
155

TYPE
4.5X14

NO. OF JOINTS
297

PUMP TYPE
8-P-80

PUMP MANUFACTURER
NATIONAL

STROKE LENGTH
216

DP
114

MASS
82.45

GRADE
E

WINDSPEED
75

T. JNT
155

TYPE
4.5X14

NO. OF JOINTS
14

PUMP TYPE
P2.7

PUMP MANUFACTURER
GARDNER DENVER

STROKE LENGTH
216

DP
159

MASS
147.5

GRADE
E

WINDSPEED
58

T. JNT
159

TYPE
4.5X14

NO. OF JOINTS
14

PUMP TYPE
P2.7

PUMP MANUFACTURER
GARDNER DENVER

STROKE LENGTH
216

SPUD DATE

TIME

RIG RELEASE

TIME

WELL TYPE

VERT

RE-ENTRY

NO

OPERATOR'S AFE

NT-05-0352

KELLY BISHQ

OP FUEL

CONTRACTOR'S JOB NUM

3954

TOUR SHEET SERIAL NUM

NABR8_20050212_1B

VEHICLE SOFTWARE VERSION

EDR_3-1-0_HF2 ETS 2.2

PASON

CODE NO

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

TOTALS

NO

TYPE

TYPE

RENTALS

SERVICES

MORNING

DAY

WELP & TARDOWN

DRILL ACTUAL

REMARKS

CORING

CONO MUD & CIRC

TRIPS

RIG SERVICE

REPAIR RIG

CUT OFF DRILL LINE

DEV SURVEY

WIRELINE LOGS

RUN CSO & CEMENT

WAIT ON CEMENT

APPLY UP BOP

TEST BOP

DESLISTEN TEST

FLUID BACK

SQUEEZE CEMENT

FISHING

GR. WORK

SAFETY MEETING

0.25

8.75

12.00

12.00

24.00

84

TOP

110

84

MIDDLE

84

84

BOTTOM

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT

Q.D.

3.0

5.5

8.50

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT NO

SIZE

WCC CODE

MANUFACTURER

TYPE

SERIAL NO

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

TT

Ta

MOC

LOC

BRO

OAGE

ODC

REASON PULLED

TOTAL RUN HRS

HOLE CONDITION

DRILL PIPE STANDS

DRILL PIPE SHOLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT

Q.D.

3.0

5.5

8.50

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

0

845

8.75

22

W/O LOADS AND DAYLIGHT

845

900

0.25

21

SAFETY MEETING WITH MULLEN

900

1200

3.00

1

WAIT ON LOADS AND RIG UP

EXTRA RIG MANAGER -RUSS LINDSAY AND FIELD SUP'T. MARTIN LONG ASSISTING RIG UP

THE LAST 300 KMS. OF ROADS TO LOCATION ARE IN VERY POOR CONDITION VERY HILLY AND LOTS OF CURVES NOT UNCOMMON FOR TRUCKS TO GO 10 KM / HR. IN SOME PLACES

DRILLER SIGNATURE

GLEN CAREW

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MEH

WACP

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT NO

SIZE

WCC CODE

MANUFACTURER

TYPE

SERIAL NO

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

TT

Ta

MOC

LOC

BRO

OAGE

ODC

REASON PULLED

TOTAL RUN HRS

HOLE CONDITION

DRILL PIPE STANDS

DRILL PIPE SHOLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT

Q.D.

3.0

5.5

8.50

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

1200

1430

2.50

22

W/O LOADS

1430

2000

5.50

1

SUB AND PUMP HOUSES ARRIVED AT 1430 HRS SPOT SUB INSTALL ROTARY TABLE PIN DERRICK TO CARRIER AND LOAD ONTO SUB SPOT WATER TANK AND LIFT DOGHOUSE ONTO SUPPORTS ON WATER TANK SPOT COMBO BUILDING AND PLUG IN BLOCK HEATER FOR FLOOR MRT TO PLUG BOARD SHUT DOWN BECAUSE OF DARKNESS

2000

2400

4.00

23

WAIT ON DAY LIGHT

ALL LOADS ARRIVED NO DAMAGE. 2700 KM MOVE VERY GOOD WORK ON THE PART OF ALL THE MULLEN TRUCK DRIVERS

DRILLER SIGNATURE

ROBERT RODIER

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MEH

WACP

LICENCE NO 1075		WELL NAME & NO APACHE PARAMOUNT LAC MAUNIOIR L-80, JOB #3954		DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Living Check List) (3) HSE Signs Posted if Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Stained (6) HSE Data Performance (7) Visually Inspect BOPs - Flare Lines & Discharge Lines (1) Rig Site Health & Safety Meeting (end of month) (2) CAODC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Master Kite Checked		YEAR 2008 MONTH 2 DAY 13 RIG NO 8 FUEL @ 05:00 HRS RIG BOILER TEMPERATURE -37 CURRENT CONDITIONS CLEAR WIND DIRECTION CALM ROAD CONDITION ICE		LAST CASING TUBES CP LINER O.D. (mm) M.M.D. (mm) MASS (kg/m3) MAKE GRADE NO. of JOINTS TOTAL LENGTH KB TO CSD HEAD SET AT (m)		SPUD DATE TIME RIG RELEASE TIME WELL TYPE RS-ENTRY OPERATOR'S AFE NT-05-0352 KELLY BISHO OP FUEL CONTRACTOR'S JOB NUM 3054 TOUR SHEET SERIAL NUM NABR8_20050213_1B VENDOR SOFTWARE VERSION EDR_3-1-0_HF2 ETS 2.2	
OPERATOR APACHE CANADA LTD L-80 SIGNATURE OF OPERATOR'S REPRESENTATIVE BOB BROOKS		CONTRACTOR NABORS DRILLING UNIQUE ID 1/10 SIGNATURE OF CONTRACTOR'S RIG MANAGER ROSS BIRTWISTLE		CODE NO 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35		TOTALS		SHALE SHAKER (S) NO TYPE TYPE SCREENS CHANGED NEW USED TOP TOP MIDDLE MIDDLE BOTTOM BOTTOM		MORNING DAY	
NO. DRILLING ASSEMBLY (AT END OF TOUR) BIT O.D. LENGTH		BIT RECORD BIT NO. SIZE WCC CODE MANUFACTURER TYPE SERIAL NO. JETS DEPTH OUT (m) DEPTH IN (m) TOTAL DRILLED (m) TOTAL HRS RUN CUTTING STRUCTURE TI T6 WCC LOC BRG GAGE CCG REASON PULLED TOTAL RUN (HRS)		MORNING TOUR MUD TYPE WATER BASED OIL BASED TIME DENSITY (kg/m3) FUNNEL VISCOSITY FLUID LOSS (cm3) pH MUD MATERIALS ADDED PRODUCT AMOUNT UNIT CENTRIFUGE HOURS RUN INTAKE DENSITY OVER FLOW DENSITY UNDER FLOW DENSITY REDUCED PUMP SPEED DEVIATION SURVEYS DEPTH (m) DEVIATION DIRECTION BOILERS HRS RUN 0 HRS RUN 0 BOILER PH BOILER PH STACK TEMP STACK TEMP DRILLER SIGNATURE GLEN CAREW		METRES DRILLED FROM TO D-R-C RPM WOB FROM TO ELAPSED TIME CODE 0 845 8.75 22 WAIT ON DAY LIGHT 845 900 0.25 21 SAFETY MEETING W/ CREW AND MULLEN TRUCKERS PRIOR TO RIG MOVE 900 1200 3.00 1 SPOT MUD TANK, 2-BOILERS 2-PUMPS CENTRIFUGE SHALE SLOOP NABORS FIELD SUP AND EXTRA RIG MANAGER ASSISTED ON MOVE AND RIG UP		TIME LOG DETAILS OF OPERATIONS IN SEQUENCE & REMARKS		RATE SCHEDULE REGULAR REPAIR INVERT CREW SAFETY DAYS DRIVERS	
NO. DRILLING ASSEMBLY (AT END OF TOUR) BIT O.D. LENGTH		BIT RECORD BIT NO. SIZE WCC CODE MANUFACTURER TYPE SERIAL NO. JETS DEPTH OUT (m) DEPTH IN (m) TOTAL DRILLED (m) TOTAL HRS RUN CUTTING STRUCTURE TI T6 WCC LOC BRG GAGE CCG REASON PULLED TOTAL RUN (HRS)		DAY TOUR MUD TYPE WATER BASED OIL BASED TIME DENSITY (kg/m3) FUNNEL VISCOSITY FLUID LOSS (cm3) pH MUD MATERIALS ADDED PRODUCT AMOUNT UNIT CENTRIFUGE HOURS RUN INTAKE DENSITY OVER FLOW DENSITY UNDER FLOW DENSITY REDUCED PUMP SPEED DEVIATION SURVEYS DEPTH (m) DEVIATION DIRECTION BOILERS HRS RUN 8 HRS RUN 8 BOILER PH BOILER PH STACK TEMP STACK TEMP DRILLER SIGNATURE ROBERT RODIER		METRES DRILLED FROM TO D-R-C RPM WOB FROM TO ELAPSED TIME CODE 1200 1500 3.00 1 FINISH SPOTTING RIG, CATWALK, PIPE TUBS, GARBAGE BIN EXTRA SLEEPER TRAILER AT CAMP 1500 2400 9.00 1 RIG UP TO SPUD HAMMER UP STEAM LINES AND WATER LINES RUN POWER CORDS HYDRAULIC AND AIR LINES SLIDE 3412 PUMP MTR. IN PUMP HOUSE AND INSTALL RAISE DERRICK AT 1600 HRS FILL BOILERS AND WATER TANK, CIRC STEAM AND WATER LINES RIG UP PRE-FABS ON FLOOR SUB AND MUD TANK		TIME LOG DETAILS OF OPERATIONS IN SEQUENCE & REMARKS		RATE SCHEDULE REGULAR REPAIR INVERT CREW SAFETY DAYS DRIVERS	



PASON

DAILY CHECKS														
OPR		YEAR	MONTH	DAY	LAST CARGO PULBKG	O.D. (mm)	MIND (mm)	MASS (kg/m ³)	MAKE	GRADE	NO. OF JOINTS	TOTAL LENGTH	KG TO CSG HEAD	SET AT (m)
RB RB		2005	2	15										
RB RB		REG NO	8											
RB RB		FUEL @ CS DO HRS												
RB RB		SOILER												
RB RB		TEMPERATURE -2												
RB RB		CONDIT. CONDITIONS												
RB RB		WIND DIRECTION												
RB RB		WIND VELOCITY												
RB RB		ROAD CONDITION												
RB RB		ICE												
RB RB		ROAD CORRECTION												
RB RB		NO. OF JOINTS												
RB RB		TEMPERATURE												
RB RB		CONDIT. CONDITIONS												
RB RB		WIND DIRECTION												
RB RB		WIND VELOCITY												
RB RB		ROAD CONDITION												
RB RB		ICE												
RB RB		ROAD CORRECTION												
RB RB		NO. OF JOINTS												
RB RB		TEMPERATURE												
RB RB		CONDIT. CONDITIONS												
RB RB		WIND DIRECTION												
RB RB		WIND VELOCITY												
RB RB		ROAD CONDITION												
RB RB		ICE												
RB RB		ROAD CORRECTION												
RB RB		NO. OF JOINTS												
RB RB		TEMPERATURE												
RB RB		CONDIT. CONDITIONS												
RB RB		WIND DIRECTION												
RB RB		WIND VELOCITY												
RB RB		ROAD CONDITION												
RB RB		ICE												
RB RB		ROAD CORRECTION												
RB RB		NO. OF JOINTS												
RB RB		TEMPERATURE												
RB RB		CONDIT. CONDITIONS												
RB RB		WIND DIRECTION												
RB RB		WIND VELOCITY												
RB RB		ROAD CONDITION												
RB RB		ICE												
RB RB		ROAD CORRECTION												
RB RB		NO. OF JOINTS												
RB RB		TEMPERATURE												



PASON

DRILLING CREW PAYROLL DATA			
WELL NAME & NO.	YEAR	BIRTH	DAY
OPERATOR	CONTRACTOR		
REG. MANAGER	REG. NO.		
PROVINCE	CAMP	YES ☐ NO ☐	REG. SAFETY DAYS

[illegible][illegible]

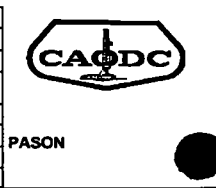
LICENCE NO 1075
 WELL NAME & NO APACHE PARAMOUNT LAC MAUNIOIR L-80, JOB #3954
 OPERATOR APACHE CANADA LTD
 SURFACE LOCATION L-80
 SIGNATURE OF OPERATOR'S REPRESENTATIVE BOB BROOKS
 CONTRACTOR NABORS DRILLING
 UNIQUE ID 1/10
 SIGNATURE OF CONTRACTOR'S RIG MANAGER ROSS BIRTWISTLE

DAILY CHECKS
 (1) Daily Well Around Inspection
 (2) Detailed Inspection - Weekly (Using Check List)
 (3) 1405 Sign Posting (Required)
 (4) Well License & Block Diagram Posted
 (5) Flow Lines Staked
 (6) BOP Data Performed
 (7) Visually Inspect BOP's - Flow Lines & Degasser Lines
 (1) Rig Site Health & Safety Meeting (once a week/month)
 (2) CAGDC Rig Data Inspection Checklist (once a week/month)
 (3) Meet Inspectors before Tossing or Lowering
 (4) Crown Saver Checked
 (5) Motor Kils Checked

YEAR 2005 MONTH 2 DAY 17
 FUEL @ 05:00 HRS
 BOILER 75.77
 TEMPERATURE 39
 CURRENT CONDITIONS OVERCAST
 WIND DIRECTION CALM
 ROAD CONDITION ICE

LAST CASING PUSHING 05:15 HRS
 O.D. (mm) 114
 I.D. (mm) 82.45
 MASS (kg/m) 147.5
 MAKE E
 GRADE 155
 NO. OF JOINTS 6
 TOTAL LENGTH 4.5 X.H. 21
 NO. OF JOINTS 6
 PUMP TYPE P-Z 7
 PUMP MANUFACTURER GARDNER DENVER
 STROKE LENGTH 216

RIGUP DATE 2005/02/15
 TIME 19:00
 RIG RELEASE TIME
 WELL TYPE RE-ENTRY
 OPERATOR'S AFE NT-05-0352
 KELLY BSHG
 CONTRACTOR'S JOB NUM 3954
 TOUR SHEET SERIAL NUM NABRS_20050217_1B
 VENDOR SOFTWARE VERSION EDR_3-1-0_HF2 ETS 2.2



CODE/NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHAPE SHEET (S)				RENTALS		SERVICES		MORNING	DAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	GROUP & TEAM/NO	DRILL ACTUAL	REAMING	CORING	CONO MUD & CIRC	TRIPS	RD SERVICE	REPAIR RD	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CNO & CEMENT	WAIT ON CEMENT	APPLE UP BOP	TEST BOP	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	OIL WORK	SAFETY MEETING	NO OF SCREENS CHANGED	TYPE OF DEBRISK	TYPE OF DEBRISK	EXTRA BOILER UNIT #29	CAMP 6 UNIT ELECTRIC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

DRILLING CREW PAYROLL DATA
 WELL NAME & NO. YEAR MONTH DAY
 OPERATOR CONTRACTOR
 RIG MANAGER RIG NO.
 PROVINCE CAMP YES NO RIG SAFETY DAYS

NO. DRILLING ASSEMBLY 1 AT END OF TOUR
 LENGTH 11.0
 BIT RECORD
 BIT NO. 1
 SIZE 311
 TIME 400
 DENSITY (kg/m3) 1080
 FUNNEL VISCOSITY 57
 FLUID LOSS (cm3) 10.0
 pH 10.0
 PVT 48.0
 MUD MATERIALS ADDED
 PRODUCT AMOUNT UNIT
 SUPER COL 45 SX
 SAWDUST 12 SX
 CUTTING STRUCTURE
 HOLE CONDITION
 HOLE DRAG 1/2 UP 1/2 DN
 TORQUE AT BOTTOM 4500
 FILL ON BOTTOM (m) 0
 MUD RECORD
 MUD TYPE GEL CHEM
 WATER BASED X OIL BASED
 FROM TO D-R-C RPM WOB
 138 168 D 32 6
 115 130 0.25 10
 130 415 2.75 2
 415 430 0.25 7
 430 0700 2.50 2
 0700 0715 0.25 21
 0715 1145 4.50 2
 1145 1200 0.25 10
 METRES DRILLED
 FROM TO ELAPSED TIME CODE
 0000 115 1.25 2
 115 130 0.25 10
 130 415 2.75 2
 415 430 0.25 7
 430 0700 2.50 2
 0700 0715 0.25 21
 0715 1145 4.50 2
 1145 1200 0.25 10
 TIME LOG
 DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
 DRILL 311mm HOLE F138m TO 141m
 MWD SURVEY @ 140m
 DRILL 311mm HOLE F141m TO 150m
 RIG SERVICE F/T ANNUAL C/O 9 SECS
 DRILL 311mm HOLE F150m TO 158m
 HOLD CROSS-SHIFT SAFETY MEETING
 DRILL ACTUAL F158 T/168
 MWD SURVEY @ 168m 0.0 DEGREES

MORNING TOUR FROM 0 TO 1200
 CREW SOC INS. NO. NAME HRS YES NO
 RATE SCHEDULE REGULAR REPAIR INVERT
 CREW SAFETY DAYS DRIVERS

NO. DRILLING ASSEMBLY 1 AT END OF TOUR
 LENGTH 11.0
 BIT RECORD
 BIT NO. 1
 SIZE 311
 TIME 400
 DENSITY (kg/m3) 1080
 FUNNEL VISCOSITY 75
 FLUID LOSS (cm3) 10.5
 pH 10.5
 PVT 48.2
 MUD MATERIALS ADDED
 PRODUCT AMOUNT UNIT
 SUPER COL 8 SX
 SAWDUST 10 SX
 CAUSTIC 1 SX
 CUTTING STRUCTURE
 HOLE CONDITION
 HOLE DRAG
 TORQUE AT BOTTOM
 FILL ON BOTTOM (m)
 MUD RECORD
 MUD TYPE
 WATER BASED OIL BASED
 FROM TO D-R-C RPM WOB
 168 188 D 32 10
 168 190 D 32 7
 1800 2015 2.25 6
 2015 2115 1.00 20
 2115 2315 2.00 8
 2315 2400 0.75 2
 METRES DRILLED
 FROM TO ELAPSED TIME CODE
 1200 1645 4.75 2
 1645 1700 0.25 7
 1700 1900 1.00 5
 1800 2015 2.25 6
 2015 2115 1.00 20
 2115 2315 2.00 8
 2315 2400 0.75 2
 TIME LOG
 DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
 DRILL ACTUAL F168m T/168m
 HOLD CROSS-SHIFT SAFETY MEETING
 CONDITION MUD & CIRC
 TRIP FOR BIT
 DIR WORK CHECK MWD CHANGE BITS
 TRIPS RH TO 175m WASH TO BOTTOM NO FILL
 DRILL 311mm HOLE F188m TO 193m

DAY TOUR FROM 1200 TO 2400
 CREW SOC INS. NO. NAME HRS YES NO
 RATE SCHEDULE REGULAR REPAIR INVERT
 CREW SAFETY DAYS DRIVERS

1075

APACHE CANADA LTD

L-80

BOB BROOKS

APACHE PARAMOUNT LAC MAUNIOIR L-80, JOB #3954

NABORS DRILLING

1/10

ROSS BIRTWISTLE

1) Daily Walk Around Inspection

2) Detailed Inspection - Weekly (Using Check List)

3) VIBS Signs Posted (if Required)

4) Well License & Stock Diagram Posted

5) Flare Lines Stained

6) BOP Drills Performed

7) Visually Inspected BOPs- Flare Lines & Degreaser Lines

1) Rig Site Health & Safety Meeting (weekly/monthly)

2) CAGDC Rig Brief Inspection Checklist (weekly/monthly)

3) Must inspect before Raising or Lowering

4) Crown Saver Checked

5) Motor Vibs Checked

YEAR 2008 MONTH 2 DAY 18

RIG NO. 8

PUEL @ 05:00 HRS

TEMPERATURE -25

CURRENT CONDITIONS 17.50MM

WIND DIRECTION CALM

SEA CONDITION ICE

LAST CASING RUN-IN OF LINER

OC/DP SIZE

OC/DP SIZE

MASS

GRADE

MINIMUM I.D.

T ANT O.D.

TYPE THREAD

NO OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

OD (mm) 339.7

MINID (mm) 315.3

MASS (kg/m3) 101.2

MAKE K55

GRADE 4

MINIMUM I.D. 83

T ANT O.D. 155

TYPE THREAD 4.5 X H

NO OF JOINTS 120

PUMP TYPE 8-P-80

PUMP MANUFACTURER NATIONAL

STROKE LENGTH 216

OC/DP SIZE DP 114

OC/DP SIZE DP 114

MASS 82.45

GRADE E

MINIMUM I.D. 75

T ANT O.D. 155

TYPE THREAD 4.5 X H

NO OF JOINTS 8

PUMP TYPE P-27

PUMP MANUFACTURER GARDNER DENVER

STROKE LENGTH 178

OC/DP SIZE DC 159

OC/DP SIZE DC 159

MASS 147.5

GRADE E

MINIMUM I.D. 56

T ANT O.D. 159

TYPE THREAD 4.5 X H

NO OF JOINTS 21

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

SPUD DATE 2005/02/15

RIG RELEASE TIME 19:00

WELL TYPE

OPERATOR'S AFE NT 05-0352

KELLY SHAH OP FUEL

CONTRACTOR'S JOB # 3954

TOUR SHEET SERIAL # NABR8_20050218_1B

VEHICLE SOFTWARE VERSION EDR_3-1-0_HF2 ET5 2.2

CAGDC

PASON

GROUP & TOORDOWN

DRILL ACTUAL

REAMING

CORING

CONO MID & CIRC

TRIPS

RIG SERVICE

REPAIR RIG

CUT OFF DRILL LINE

DIV SURVEY

WIRELINE LOGS

RUN CNO & CEMENT

WMT ON CEMENT

SHIPLE UP B O P

TEST B O P

DRILLER TEST

PLUG BACK

SQUEEZE CEMENT

FISHING

DIR. WORK

SAFETY MEETING

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

MORN

DAY

TOTAL

11.0

6.5

17.50

0.25

0.5

0.75

3.50

0.25

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

0.50

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT

O.D.

37

BIT NO

2

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1

X.O

244

38

SIZE

311

TIME

200

800

1000

183

229

D

35

9

0

115

1.25

2

DRILL 311mm HOLE F/193m TO 197m

1

MOTOR

241

8.80

VOC CODE

3

3

3

DENSITY (kg/m3)

1065

1065

1055

115

130

0.25

10

DEVIATION SURVEY at 180m, 0.1 DEGREE

1

MONEL D.C.

230

9.40

MANUFACTURER

BAKER HUGH

FUNNEL VISCOSITY

70

55

50

130

0700

5.50

2

DRILL 311mm HOLE F/197m TO 215m

1

HANG OFF SUB

232

39

TYPE

HC506 Z

FLUID LOSS (cm3)

7003653

70

55

50

0700

0715

0.25

21

HOLD CROSS-SHIFT SAFETY MEETING

1

MONEL D.C.

230

18.20

SERIAL NO

7003653

pH

10

10

1000

1015

0.25

10

DRILL 311mm HOLE F/215m TO 225m

1

X.O

238

49

SETS

6X

14.3

10

10

1000

1015

0.25

10

MWD SURVEY @ 224m, 0.1 DEGREE

1

JAR

227

5.64

MUD MATERIALS ADDED

PRODUCT

AMOUNT

UNIT

1015

1145

1.50

2

DRILL 311mm HOLE F/225m TO 229m

2

8" DC

185

18.36

DEPTH OUT (m)

185

70

DEPTH IN (m)

185

112.37

1145

1200

0.25

7

RIG SERVICE, FT ANNUAL DIVER, C/O 9 SEC

1

X.O

185

70

DEPTH IN (m)

185

112.37

1145

1200

0.25

7

RIG SERVICE, FT ANNUAL DIVER, C/O 9 SEC

12

D.C.

182

112.37

DEPTH IN (m)

182

112.37

1145

1200

0.25

7

RIG SERVICE, FT ANNUAL DIVER, C/O 9 SEC

6

H.W.D.P.

114

45.89

TOTAL DRILLED (m)

41.00

TOTAL HRS RUN

11.75

1145

1200

0.25

7

RIG SERVICE, FT ANNUAL DIVER, C/O 9 SEC

CUTTING STRUCTURE

T1

T2

MOC

LOC

BRO

GAGE

ODS

REASON PULLED

TOTAL RUN (HRS)

HOLE CONDITION

HOLE DRAG

23UP 1/2 DN

TORQUE AT BOTTOM

7000

FILL ON BOTTOM (m)

0

DRILL PIPE STANDS

DRILL PIPE SINGLES

KELLY DOWN

8.41

TOTAL

229.00

WT OF DC

28

WT OF STRING

28

DRILLER SIGNATURE

ROBERT LIVINGSTONE

SPECIAL EVENT

B/ BOILER 3X

PRE TOUR SAFETY MTG

SAFETY TOPIC

MEH

MACP

TIME / DEPTH

TRIPPING

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT

O.D.

37

BIT NO

2

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1

X.O

244

38

SIZE

311

TIME

1400

1800

2300

229

245

D

24

11

1200

1230

0.50

8

REPAIR RIG REPLACED POP VALVE ON PZ 7

1

MOTOR

241

8.80

VOC CODE

3

3

3

DENSITY (kg/m3)

1060

1060

1060

1230

1745

6.25

2

DRILL 311mm HOLE F/223m TO 245m

1

MONEL D.C.

230

9.40

MANUFACTURER

BAKER HUGH

FUNNEL VISCOSITY

50

52

53

1745

1830

0.75

5

CIRCULATE HOLE CLEAN

1

HANG OFF SUB

232

39

TYPE

HC506 Z

FLUID LOSS (cm3)

7105349

50

52

53

1830

1900

0.50

6

TRIP FBIT

1

MONEL D.C.

230

18.20

SERIAL NO

7003653

pH

10

10

1900

1915

0.25

21

HOLD CROSS-SHIFT SAFETY MEETING

1

X.O

238

49

SETS

6X

14.3

37.7

1915

2045

1.50

6

TRIP FBIT

1

JAR

227

5.64

MUD MATERIALS ADDED

PRODUCT

AMOUNT

UNIT

2045

2115

0.50

23

SERVICE MWD CHANGE BITS

2

8" DC

185

18.36

DEPTH OUT (m)

245

250

DEPTH IN (m)

188

245

2115

2245

1.50

6

TRIP IN HOLE W/BIT 83

1

X.O

185

70

DEPTH IN (m)

185

112.37

2115

2245

1.50

6

TRIP IN HOLE W/BIT 83

12

D.C.

182

112.37

DEPTH IN (m)

182

112.37

2115

2245

1.50

6

TRIP IN HOLE W/BIT 83

6

H.W.D.P.

114

55.59

TOTAL DRILLED (m)

57.00

TOTAL HRS RUN

17

2115

2245

1.25

2

DRILL 311mm HOLE F/245m TO 250m

CUTTING STRUCTURE

T1

T2

MOC

LOC

BRO

GAGE

ODS

REASON PULLED

TOTAL RUN (HRS)

HOLE CONDITION

HOLE DRAG

23UP 1/2 DN

TORQUE AT BOTTOM

4500

FILL ON BOTTOM (m)

0

DRILL PIPE STANDS

DRILL PIPE SINGLES

KELLY DOWN

8.24

TOTAL

250.00

WT OF DC

28

WT OF STRING

28

DRILLER SIGNATURE

ROBERT RODIER

SPECIAL EVENT

REWROTE JSA B-44 TRIPPING PIPE OUT OF HOLE

PRE TOUR SAFETY MTG

SAFETY TOPIC

MEH

MACP

TIME / DEPTH

TRIPPING

1075

APACHE PARAMOUNT LAG MAUNIOIR L-80, JOB #3954

APACHE CANADA LTD

L-80

BOB BROOKS

CONTRACTOR

NABORS DRILLING

ROSS BIRTWISTLE

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Detailed Inspection Weekly (Using Check List)

(3) HOS Signs Posted as Required

(4) Well Location & Block Diagram Posted

(5) Flame Lines Staked

(6) BOP Data Performed

(7) Visually Inspected BOP- Flame Lines & Dragger Lines

(1) Rig Site Health & Safety Meeting (once/monthly)

(2) CAODC Rig Safety Inspection Checklist (annually)

(3) Mast Inspection before Raising or Lowering

(4) Crown Block Checked

(5) Master Key Checked

OPS E M

2005

MONTH

2

DAY

18

LAST CASING TIGHTENED

CS LINEUP

339 7

315.3

101.2

MASS

GRADE

NO. OF JOINTS

TOTAL LENGTH

KG TO CSO HEAD

RET AT (m)

62.7

FUEL @ 02:00 HRS

BOILER

TEMPERATURE

CURRENT CONDITIONS

CLEAR

WIND DIRECTION

CALM

ROAD CORRECTION

ICE

DC/DP

DC/DP SIZE

MASS

GRADE

MINIMUM ID

T ANT OD

TYPE THREAD

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

216

178

DRILLING ASSEMBLY

DRILL ACTUAL

REMAINING

CORING

CONC MUD & CIRC

TRIPS

RIG SERVICE

REPAIR RIG

CUT OFF DRLO LINE

DEV SURVEY

WIRELINE LOGS

RUN CRO & CEMENT

WUT ON CEMENT

NEPPEL UP & P

TEST & P

DRILLER TEST

FLUID BACK

SQUEEZE CEMENT

FISHING

DRK WORK

SAFETY MEETING

TOTALS

12.00

12.00

24.00

SHAPE SHAVER (S)

RENTALS

SERVICES

MORNING

DAY

NO

DRILLING ASSEMBLY

DRILL ACTUAL

REMAINING

CORING

CONC MUD & CIRC

TRIPS

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DRK WORK

SAFETY MEETING

TOTALS

12.00

12.00

24.00

SHAPE SHAVER (S)

RENTALS

SERVICES

MORNING

DAY

NO

DRILLING ASSEMB



PASON

DRILLING CREW PAYROLL DATA					
WELL NAME & NO.			YEAR	MONTH	DAY
OPERATOR		CONTRACTOR			
RIG MANAGER			RIG NO.		
PROVINCE	CAMP	☐ YES ☐ NO	RIG SAFETY DAYS		

[illegible][illegible]



PASON

DRILLING CREW PAYROLL DATA						
WELL NAME & NO.				YEAR	BIRTH	DAY
OPERATOR			CONTRACTOR			
REG. MANAGER				REG. NO.		
PROMISOR	CAMP	☐ YES	☐ NO	REG. SAFETY DAYS		

[illegible][illegible]



PASON

DRILLING CREW PAYROLL DATA						
WELL NAME & NO				YEAR	MONTH	DAY
OPERATOR			CONTRACTOR			
RIG MANAGER				RIG NO.		
PROVINCE	CAMP	☐ YES	☐ NO	RIG SAFETY DATA		

[illegible][illegible]

[illegible]

WELL NAME & NO
1075 APACHE PARAMOUNT LAC MAUNIOIR L-80 JOB #3954

OPERATOR
APACHE CANADA LTD

SURFACE LOCATION
L-80

SIGNATURE OF OPERATOR'S REPRESENTATIVE
JEFF BOWES

CONTRACTOR
NABORS DRILLING

UNIQUE ID
1/10

SIGNATURE OF CONTRACTOR'S RIG MANAGER
ROSS BIRTWISTLE

- DAILY CHECKS
- (1) Daily Walk Around Inspection
 - (2) Detailed Inspection Weekly (Using Check List)
 - (3) H2S Signs Posted if Required
 - (4) Visual Leaks & Risk Diagram Posted
 - (5) Flare Lines Staked
 - (6) BOP Drills Performed
 - (7) Visually Inspect BOP's Flare Lines & Degasser Lines
- (1) Rig Site Health & Safety Meeting (on arrival/departure)
(2) C/OCC Rig Safety Inspection Checklist (on arrival/departure)
(3) Meet Inspection before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kils Checked

YEAR 2005 MONTH 2 DAY 28

LAST CASING TUBING C/P LINEP

339.7 315.3 101.2

244.5 218.79 89.94

IPSCO

MASS (kg/m3)

GRADE

NO OF JOINTS

TOTAL LENGTH

NO TO C/SO HEAD

SET AT (m)

62.7

399.0

TEMPERATURE 25

DC/DP SIZE

MASS

GRADE

MIRUM LO

T JNT QD

TYPE THREAD

NO OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

218

178

DC 159 147.5 E 56 159 4.5" X.H. 21

SHALE SHAPER, S.I

REPAIRS SERVICES

MORNING DAY

WELL DATE 2005/02/15 TIME 19:00

WELL TYPE RE-ENTRY

OPERATOR'S AFE NT-05-0352

KELLY BSHD

CONTRACTOR'S JOB NAME 3954

TOUR SHEET SERIAL NUM NABR8_20050228_18

VENDOR SOFTWARE VERSION EDR_3-1-0_HF2 ETS 2.2



CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
ROUP & TEARDOWN																										
DRILL ACTUAL	4.75	5.25																								
REAMING																										
CORING																										
CONG MUD & CIRC																										
TRIPS																										
RIG SERVICE																										
REPAIR NO																										
CUT OFF DRILL LINE																										
DEV SURVEY																										
WIRELINE LOGS																										
RUN C/S & CEMENT																										
WAIT ON CEMENT																										
NEEPLE UP B.O.P																										
TEST B.O.P																										
DRILLER TEST																										
PLUG BACK																										
SQUEEZE CEMENT																										
FISHING																										
DR. WORK																										
SAFETY MEETING																										
TOTALS																										
NO																										
TYPE																										
TYPE DERRICK																										
EXTRA BOILER UNIT #29																										
CAMP 8 UNIT.ELECTRIC																										
MUD TANK SHELTER (KETEK)																										
NO																										
TYPE																										
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CAMP 8 UNIT.ELECTRIC																										
MUD TANK SHELTER (KETEK)																										

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR MONTH DAY

OPERATOR

CONTRACTOR

RIG MANAGER

RIG NO.

PROVINCE

CAMP ☐ YES ☐ NO

RIG SAFETY DAYS

NO. DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

0 0030 0.50 13 WAIT ON CEMENT

0030 0045 0.25 21 BOP DRILL

0045 0055 0.25 3 DRILLED OUT CEMENT F/ 380m 566m

0055 0100 1.00 2 DRILL 216mm HOLE F/ 566m 570m

0100 0115 0.25 21 SAFETY MEETING CREW CHANGE

0115 0120 0.75 10 DRILL 216mm HOLE F/ 570m 599m

0120 0125 0.25 7 RIG SERVICE F/T PIPE RAMS 4 SEC T/C

0125 0130 0.75 10 ACCUMULATED MWD SURVEYS

MUD MATERIALS ADDED

SOLIDS CONTROL

CIRCULATION PRESSURE

PUMP NO 1

PUMP NO 2

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

407 8 351.5

482 0.8 345.0

525 1.1 289.7

558 0.9 289.7

NOTES SET CROWN SAVER CH. BRAKE LINKAGE

REVIEWED JSA Ch 03 LAYING ON DRILL PIPE

SPECIAL EVENT PRE TOUR SAFETY MTG

B/BOILER X3

SAFETY TOPIC

MEL

MACP

DRILLER SIGNATURE

ROBERT RODIER

TIME / DEPTH

LAY ON PIPE

35

3073

MORNING TOUR

FROM 0 TO 1200

INJURIES

CREW

SOC INS. NO

NAME

HRS

YES

NO

RATE SCHEDULE

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

DRIVERS

NO. DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1200 1215 0.25 2 DRILL 216mm F/599m 600m

1215 1230 0.25 10 MWD SURVEY @ 587 C/O MWD SENSOR ON STANDPIPE. RE-SURVEY

1230 1415 1.75 2 DRILL 216mm HOLE F/600m 619m

1415 1430 0.25 7 RIG SERVICE F/T ANNULAR 8 SECS T/C

1430 1815 4.75 2 DRILL 216mm HOLE F/619m 627m

1815 1830 0.25 21 SAFETY MEETING CREW CHANGE

1830 2045 1.25 5 CONDITION MUD & CIRC. PUMPED A LCM PILL

2045 2400 3.25 6 TRIPS POOH FOR BIT FLOW 627/520/208/00H & MONITORED WELL

MUD MATERIALS ADDED

SOLIDS CONTROL

CIRCULATION PRESSURE

PUMP NO 1

PUMP NO 2

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

587 9 285.9

NOTES CHECKED CROWN SAVER. BRAKE LINKAGES. TONGS LINES

REVIEWED JSA P 8-33 STABBING VALVE STORAGE & INSTALLATION

SPECIAL EVENT PRE TOUR SAFETY MTG

B/BOILER X3

SAFETY TOPIC

MEL

MACP

DRILLER SIGNATURE

GLEN CAREW

TIME / DEPTH

LAY ON PIPE

38

3073

DAY TOUR

FROM 1200 TO 2400

INJURIES

CREW

SOC INS. NO

NAME

HRS

YES

NO

RATE SCHEDULE

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

DRIVERS

CAODC

PASON

DRILLING CREW PAYROLL DATA						
WELL NAME & NO.				YEAR	MONTH	DAY
OPERATOR			CONTRACTOR			
RIG MANAGER				RIG NO.		
PROVINCE	CAMP	☐ YES	☐ NO	RIG SAFETY DAYS		

[illegible][illegible]

[illegible]

[illegible]

1075

APACHE CANADA LTD

L-80

BOB BROOKS

WELL NAME & NO

APACHE PARAMOUNT LAC MAUNIOIR L-80 JOB #3954

CONTRACTOR

NABORS DRILLING

UNIQUE ID

1 / 10

SIGNATURE OF OPERATOR'S REPRESENTATIVE

RUSS LINDSAY

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Detailed Inspection - Weekly (Using Check List)

(3) H2S Signs Posted & Required

(4) Well License & Stock Diagram Posted

(5) Flare Line Stalled

(6) BOP Chk Performed

(7) Visually Inspect BOPs- Flare Lines & Drigger Lines

(1) Rig Site Health & Safety Meeting (announcements)

(2) CAODC Rig Safety Inspection Checklist (announcements)

(3) Meet Inspection before Raising or Lowering

(4) Crown Block Checked

(5) Motor Kils Checked

YEAR

2008

MONTH

3

DAY

8

FUEL @ 08:00 HRS

80.35

TEMPERATURE

15

CURRENT CONDITIONS

114

WIND DIRECTION

114

WIND SPEED

114

ROAD CONDITION

114

QD (mm)

338.7

IN (mm)

315.3

MASS (kg/m)

101.2

MAKE

K55

GRADE

4

NO OF JOINTS

4

TOTAL LENGTH

399.94

KB TO CSG HEAD

62.7

SET AT (m)

399.0

MASS (kg/m)

244.5

IN (mm)

218.79

MASS (kg/m)

89.94

MAKE

IPSCO

GRADE

L80

29

399.94

399.0

TEMPERATURE

15

CURRENT CONDITIONS

114

WIND DIRECTION

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WIND SPEED

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ROAD CONDITION

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MASS (kg/m)

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MAKE

K55

GRADE

4

NO OF JOINTS

4

[illegible]

LICENCE NO 1075		WELL NAME & NO APACHE PARAMOUNT LAC MAUNIOIR L-80, JOB #3954		DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) VSS Sign Posted / Required (4) Well License & Stock Diagram Posted (5) Flare Lines Staked (6) BOP Data Performed (7) Visually Inspect BOPs, Flare Lines & Degasser Lines (1) Rig Site Health & Safety Meeting (before/monthly) (2) CAODC Rig Safe Inspection Checklist (before/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Kils Checked		YEAR 2005 MONTH 3 DAY 8 FUEL @ 02:00 HRS BOILER TEMPERATURE 29 CURRENT CONDITIONS CLEAR WIND DIRECTION WINDY ROAD CONDITION ICE		LAST C-STOP PUSHING C- LNER 339 7 315.3 101.2 244 5 218.79 69.94 IPSCO MINIMUM ID. 24.7 E 83 155 4.5 X.H 120 8-P-90 NATIONAL 218 GRADE 24.7 E 75 155 4.5 X.H 6 P-Z 7 GARDNER DENVER 178 DC 159 147.5 E 56 159 4.5 X.H 21		MAKE ORACE NO. OF JOINTS TOTAL LENGTH KB TO CSD HEAD SET AT (m) K55 4 62.7 L80 29 339.94 339.0		BPOD DATE 2005/02/15 TIME 18:00 RIG RELEASE TIME WELL TYPE RE-ENTRY OPERATOR'S AFE NT-05-0352 KELLY BSHD CONTRACTOR'S JOB NUM 3954 TOUR SHEET SERIAL NUM NABR8_20050308_18 VENDOR SOFTWARE VERSION EDR_3-1-0_HF2 ETS 2.2		PASON	
OPERATOR APACHE CANADA LTD SURFACE LOCATION L-80 SIGNATURE OF OPERATOR'S REPRESENTATIVE BOB BROOKS		CONTRACTOR NABORS DRILLING UNIQUE ID 1 / 0 SIGNATURE OF CONTRACTOR'S RIG MANAGER RUSS LINDSAY		CODE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		MUD LOG MUD TYPE SAT SALT WATER BASED X OIL BASED FROM 1218 TO 1221 D-R-C R RPM 50 WOB DENSITY (kg/m3) 1221 C FUNNEL VISCOSITY FLUID LOSS (cm3) HX-S20 pH 5043466 3K 17.5 DEPTH OUT (m) 1221 DEPTH IN (m) 1183 TOTAL DRILLED (m) 28.00 TOTAL HRS RUN 10.75 CUTTING STRUCTURE HOLE CONDITION HOLE DRAG TORQUE AT BOTTOM FILL ON BOTTOM (m) WT OF DC 28 WT OF STRING 41		MUD RECORD MUD TYPE SAT SALT WATER BASED X OIL BASED FROM 1218 TO 1221 D-R-C R RPM 50 WOB DENSITY (kg/m3) 1221 C FUNNEL VISCOSITY FLUID LOSS (cm3) HX-S20 pH 5043466 3K 17.5 DEPTH OUT (m) 1221 DEPTH IN (m) 1183 TOTAL DRILLED (m) 28.00 TOTAL HRS RUN 10.75 CUTTING STRUCTURE HOLE CONDITION HOLE DRAG TORQUE AT BOTTOM FILL ON BOTTOM (m) WT OF DC 28 WT OF STRING 41		METRES DRILLED FROM 1218 TO 1221 D-R-C R RPM 50 WOB DENSITY (kg/m3) 1221 C FUNNEL VISCOSITY FLUID LOSS (cm3) HX-S20 pH 5043466 3K 17.5 DEPTH OUT (m) 1221 DEPTH IN (m) 1183 TOTAL DRILLED (m) 28.00 TOTAL HRS RUN 10.75 CUTTING STRUCTURE HOLE CONDITION HOLE DRAG TORQUE AT BOTTOM FILL ON BOTTOM (m) WT OF DC 28 WT OF STRING 41		TIME LOG DETAILS OF OPERATIONS IN SEQUENCE & REMARKS 0000 0030 0.50 3 BREAK CIRC REAM THROUGH BRIDGE @1168m 0030 130 1.00 5 WASH 50m F/1168m - 1218m 130 230 1.00 3 REAM F/1218m 1221m 230 345 1.25 5 CONDITION MUD & CIRC HOLE CLEAN PRIOR TO POOH FOR LOGS 345 715 3.50 6 TRIP OUT F/LOGS FLOWCHECK @ 1218m, 1155m 680m, 175m & OOH 715 730 0.25 21 CREW CHANGE SAFETY MEETING 730 1200 4.50 11 RIG TO AND LOG TRIP RECORD CALC = 8.61m3 MEASURED = 7.45m3 DIFF = 84m3 NABORS SAFETY SUP'T ERNIE LEONHARDT ON LOCATION NOTES CHECKED CROWN SAVER BRAKE LINKAGES TONGS LINES REVIEWED JSA# B-25 POOH (KELLY RACKED)		DRILLING CREW PAYROLL DATA WELL NAME & NO. YEAR MONTH DAY OPERATOR CONTRACTOR RIG MANAGER RIG NO. PROVINCE CAMP YES NO RIG SAFETY DAYS MORNING TOUR FROM 0 TO 1200 INJURIES CREW SOC INS NO. NAME HRS YES NO RATE SCHEDULE REGULAR REPAIR INVERT CREW SAFETY DAYS DRIVERS DAY TOUR FROM 1200 TO 2400 INJURIES CREW SOC INS NO. NAME HRS YES NO RATE SCHEDULE REGULAR REPAIR INVERT CREW SAFETY DAYS DRIVERS	
OPERATOR APACHE CANADA LTD SURFACE LOCATION L-80 SIGNATURE OF OPERATOR'S REPRESENTATIVE BOB BROOKS		CONTRACTOR NABORS DRILLING UNIQUE ID 1 / 0 SIGNATURE OF CONTRACTOR'S RIG MANAGER RUSS LINDSAY		CODE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		MUD LOG MUD TYPE SAT SALT WATER BASED X OIL BASED FROM 1218 TO 1221 D-R-C R RPM 50 WOB DENSITY (kg/m3) 1221 C FUNNEL VISCOSITY FLUID LOSS (cm3) HX-S20 pH 5043466 3K 17.5 DEPTH OUT (m) 1221 DEPTH IN (m) 1183 TOTAL DRILLED (m) 28.00 TOTAL HRS RUN 10.75 CUTTING STRUCTURE HOLE CONDITION HOLE DRAG TORQUE AT BOTTOM FILL ON BOTTOM (m) WT OF DC 28 WT OF STRING 41		MUD RECORD MUD TYPE SAT SALT WATER BASED X OIL BASED FROM 1218 TO 1221 D-R-C R RPM 50 WOB DENSITY (kg/m3) 1221 C FUNNEL VISCOSITY FLUID LOSS (cm3) HX-S20 pH 5043466 3K 17.5 DEPTH OUT (m) 1221 DEPTH IN (m) 1183 TOTAL DRILLED (m) 28.00 TOTAL HRS RUN 10.75 CUTTING STRUCTURE HOLE CONDITION HOLE DRAG TORQUE AT BOTTOM FILL ON BOTTOM (m) WT OF DC 28 WT OF STRING 41		METRES DRILLED FROM 1218 TO 1221 D-R-C R RPM 50 WOB DENSITY (kg/m3) 1221 C FUNNEL VISCOSITY FLUID LOSS (cm3) HX-S20 pH 5043466 3K 17.5 DEPTH OUT (m) 1221 DEPTH IN (m) 1183 TOTAL DRILLED (m) 28.00 TOTAL HRS RUN 10.75 CUTTING STRUCTURE HOLE CONDITION HOLE DRAG TORQUE AT BOTTOM FILL ON BOTTOM (m) WT OF DC 28 WT OF STRING 41		TIME LOG DETAILS OF OPERATIONS IN SEQUENCE & REMARKS 1200 1900 7.00 11 WIRE LINE LOGS WL SCHLUMBERGER 1900 1915 0.25 21 CREW CHANGE SAFETY MEETING 1915 2030 1.25 6 FLOW CHECK PRIOR TO MU BHA, RIH TO 191m 2030 2130 1.00 9 CUT OFF DRILL LINE, 15m 2130 2230 1.00 6 RIH F/191m - 781m 2230 2245 0.25 5 FILL PIPE, BREAK CIRCULATION 2245 2345 1.00 6 RIH F/781m - 1208m 2345 2400 0.25 5 FILL PIPE, BREAK CIRCULATION NOTES HELD PRE TOUR SAFETY MEETING FLOW CHECK WHILE LOGGING FUEL @ 24:00 HRS RIG-38 BOILER#1=47 BOILER#2=48 DRILLER SIGNATURE ROBERT LIVINGSTONE PRE TOUR SAFETY MTG B/BOILER X3 SAFETY TOPIC MECL MSCP		DRILLING CREW PAYROLL DATA WELL NAME & NO. YEAR MONTH DAY OPERATOR CONTRACTOR RIG MANAGER RIG NO. PROVINCE CAMP YES NO RIG SAFETY DAYS MORNING TOUR FROM 0 TO 1200 INJURIES CREW SOC INS NO. NAME HRS YES NO RATE SCHEDULE REGULAR REPAIR INVERT CREW SAFETY DAYS DRIVERS DAY TOUR FROM 1200 TO 2400 INJURIES CREW SOC INS NO. NAME HRS YES NO RATE SCHEDULE REGULAR REPAIR INVERT CREW SAFETY DAYS DRIVERS	

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LICENCE NO
1076

WELL NAME & NO
APACHE PARAMOUNT LAC MAUNIOIR L-80, JOB #3954

CONTRACTOR
APACHE CANADA LTD

CONTRACTOR
NABORS DRILLING

SURFACE LOCATION
L-80

UNIQUE ID
1/10

SIGNATURE OF OPERATOR'S REPRESENTATIVE
BOB BROOKS

SIGNATURE OF CONTRACTOR'S RIG MANAGER
ROSS BIRTWISTLE

DAILY CHECKS
(1) Daily Walk Around Inspection
(2) Drilling Inspection - Visually (Using Check List)
(3) HOS Signs Posted if Required
(4) Well Location & Stick Diagram Posted
(5) Flare Lines Stalled
(6) BOP Data Performed
(7) Visually Inspect BOPs - Flare Lines & Degreaser Lines
(8) CAODC Rig Safety Inspection Checklist (overnight)
(9) Mast Inspection before Raising or Lowering
(10) Crown Block Checked
(11) Motor Kils Checked

OPERATOR'S SIGNATURE
BOB BROOKS

CONTRACTOR'S SIGNATURE
ROSS BIRTWISTLE

YEAR
2005

MONTH
3

DAY
11

TIME
08:00

DATE
2005-03-11

TIME
08:00

DATE
2005-03-11

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1075

WELL NAME & NO.

APACHE PARAMOUNT LAC MAUNIOIR L-80 JOB #3954

CONTRACTOR

APACHE CANADA LTD

NABORS DRILLING

SURFACE LOCATION

UNIQUE ID

L-80

1/10

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER

BOB BROOKS

ROSS BIRTWISTLE

DAILY CHECKS

(1) Daily Walk Around Inspection
(2) Drilling Inspection - Visually (Using Check List)
(3) H2S Spill Protocol & Response
(4) Well Licence & Stock Diagram Posted
(5) Plans Lines Staked
(6) BOP Data Performance
(7) Visually Inspect BOPs - Plans Lines & Degasser Lines
(8) Rig Site Health & Safety Meeting (every month)
(9) CADC Rig Safety Inspection Checklist (every month)
(10) Most Inspection before Raising or Lowering
(11) Crown Saver Checked
(12) Motor Oil Checked

YEAR MONTH DAY

2005 3 12

LAST SHIFT
7:00-12:00
OP LINE#

338 7 315.3 101.2
244 5 218 79 89 94

IPSCO

L80

29

359 94

399 0

62.7

399 0

TEMPERATURE & CURRENT CONDITIONS
CLEAR
WIND DIRECTION
CALM
WIND SPEED
ICE

DC/CP SIZE
DP 114 24.7 E 83 155 4.5 X.H 120 8-P-80 NATIONAL 216
DP 114 62.45 E 75 155 4.5 X.H 8 P-2.7 GARDNER DENVER 178
DC 159 147.5 E 58 159 4.5 X.H 21

MASS (kg/m3)
338 7 315.3 101.2
244 5 218 79 89 94

GRADE
KSS 4
L80 29

NO. OF JOINTS
4
29

TOTAL LENGTH
359 94
399 0

KB TO CSD HEAD
62.7
399 0

SET AT (m)
62.7
399 0

WELL TYPE
NT 05-0352

CONTRACTOR'S JOB NUM
3954

TOUR SHEET SERIAL NUM
NABR8_20050312_1B

VENDOR SOFTWARE VERSION
EDR_3-1-0_HF2 ETS 2.2

DRILLING CREW PAYROLL DATA

WELL NAME & NO.
1075

YEAR
2005

MONTH
3

DAY
12

OPERATOR
BOB BROOKS

CONTRACTOR
NABORS DRILLING

RIG MANAGER
ROSS BIRTWISTLE

RIG NO.
L-80

PROVINCE
ALBERTA

CAMP
YES

RIG SAFETY DAYS
178

RATE SCHEDULE
REGULAR

REPAIR

INVERT

CREW SAFETY DAYS
178

DRIVERS
BOB BROOKS

DRILLING CREW PAYROLL DATA

WELL NAME & NO.
1075

YEAR
2005

MONTH
3

DAY
12

OPERATOR
BOB BROOKS

CONTRACTOR
NABORS DRILLING

RIG MANAGER
ROSS BIRTWISTLE

RIG NO.
L-80

PROVINCE
ALBERTA

CAMP
YES

RIG SAFETY DAYS
178

RATE SCHEDULE
REGULAR

REPAIR

INVERT

CREW SAFETY DAYS
178

DRIVERS
BOB BROOKS

DRILLING CREW PAYROLL DATA

WELL NAME & NO.
1075

YEAR
2005

MONTH
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OPERATOR
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RIG MANAGER
ROSS BIRTWISTLE

RIG NO.
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PROVINCE
ALBERTA

CAMP
YES

RIG SAFETY DAYS
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RATE SCHEDULE
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CREW SAFETY DAYS
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DRIVERS
BOB BROOKS

DRILLING CREW PAYROLL DATA

WELL NAME & NO.
1075

YEAR
2005

MONTH
3

DAY
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OPERATOR
BOB BROOKS

CONTRACTOR
NABORS DRILLING

RIG MANAGER
ROSS BIRTWISTLE

RIG NO.
L-80

PROVINCE
ALBERTA

CAMP
YES

RIG SAFETY DAYS
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RATE SCHEDULE
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REPAIR

INVERT

CREW SAFETY DAYS
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DRIVERS
BOB BROOKS

DRILLING CREW PAYROLL DATA

WELL NAME & NO.
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YEAR
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MONTH
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OPERATOR
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CAMP
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RIG SAFETY DAYS
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RATE SCHEDULE
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CREW SAFETY DAYS
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DRIVERS
BOB BROOKS

DRILLING CREW PAYROLL DATA

WELL NAME & NO.
1075

YEAR
2005

MONTH
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DAY
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OPERATOR
BOB BROOKS

CONTRACTOR
NABORS DRILLING

RIG MANAGER
ROSS BIRTWISTLE

RIG NO.
L-80

PROVINCE
ALBERTA

CAMP
YES

RIG SAFETY DAYS
178

RATE SCHEDULE
REGULAR

REPAIR

INVERT

CREW SAFETY DAYS
178

DRIVERS
BOB BROOKS

DRILLING CREW PAYROLL DATA

WELL NAME & NO.
1075

YEAR
2005

MONTH
3

DAY
12

OPERATOR
BOB BROOKS

CONTRACTOR
NABORS DRILLING

RIG MANAGER
ROSS BIRTWISTLE

RIG NO.
L-80

PROVINCE
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RIG SAFETY DAYS
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RATE SCHEDULE
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DRIVERS
BOB BROOKS

DRILLING CREW PAYROLL DATA

WELL NAME & NO.
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L-80

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RIG SAFETY DAYS
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RATE SCHEDULE
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DRIVERS
BOB BROOKS

DRILLING CREW PAYROLL DATA

WELL NAME & NO.
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RIG NO.
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RIG SAFETY DAYS
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DRIVERS
BOB BROOKS

DRILLING CREW PAYROLL DATA

WELL NAME & NO.
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DRILLING CREW PAYROLL DATA

WELL NAME & NO.
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2005

MONTH
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DAY
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BOB BROOKS

CONTRACTOR
NABORS DRILLING

RIG MANAGER
ROSS BIRTWISTLE

RIG NO.
L-80

PROVINCE
ALBERTA

CAMP
YES

RIG SAFETY DAYS
178

RATE SCHEDULE
REGULAR

REPAIR

INVERT

CREW SAFETY DAYS
178

DRIVERS
BOB BROOKS

DRILLING CREW PAYROLL DATA

WELL NAME & NO.
1075

YEAR
2005

MONTH
3

DAY
12

OPERATOR
BOB BROOKS

CONTRACTOR
NABORS DRILLING

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