LICENCE NO.	WELL NAME & NO.
1159	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60'9'35.5''	1/ /0
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	DAVE MOSS

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection		
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required		
(4.) Well Licence & Stick Diagram Posted		
(5.) Flare Lines Staked		
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines		
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked		
(5.) Motor Kills Checked		

YEAR 2007 MONTH 1 DAY 8

RIG NO. 220

FUEL @ 08:00 HRS

RIG | BOILER

WEATHER: TEMPERATURE | CURRENT CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)

DC/ DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH

SPUD DATE	TIME
RIG RELEASE	TIME
WELL TYPE	RE-ENTRY
OPERATOR'S AFE	
KELLY BSHG	OP FUEL
CONTRACTOR'S JOB NUM	76
TOUR SHEET SERIAL NUM	PREC220_20070108_1B
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2

PASON DATAHUB

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
TIME - HRS	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING					
MORN																										
DAY																										
EVE																										
TOTAL																										

TOTALS

SHALE SHAKER(S) NO.	TYPE	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
SCREENS CHANGED		NEW/ USED				
TOP		TOP				
MIDDLE		MIDDLE				
BOTTOM		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	8

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE MOSS	220

PROVINCE	CAMP				RIG SAFETY DAYS
N.W.T.	YES		X	NO	1

MORNING TOUR

FROM 0000 TO 0800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO

RATE SCHEDULE		REGULAR		REPAIR	X	INVERT
CREW SAFETY DAYS		DRIVERS				
1						

DAY TOUR

FROM 0800 TO 2000

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DERRICKHAND		DANNY S CROWLEY	12.00			DC
MOTORHAND		COREY ANDERSON	12.00			CA
RIG MANAGER		DAVE MOSS	12.00			DM

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT
CREW SAFETY DAYS		DRIVERS				
1						

EVENING TOUR

FROM 2000 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO

RATE SCHEDULE		REGULAR		REPAIR		INVERT
CREW SAFETY DAYS		DRIVERS				
1						

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.				
SIZE				
IADC CODE				
MANUFACTURER				
TYPE				
SERIAL NO.				
JETS				
DEPTH OUT (m)				
DEPTH IN (m)				
TOTAL DRILLED (m)				
TOTAL HRS RUN				

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MORNING TOUR — MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN		HRS RUN	
BOILER pH		BOILER pH	
STACK TEMP		STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

NOTES :

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH						

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.				
SIZE				
IADC CODE				
MANUFACTURER				
TYPE				
SERIAL NO.				
JETS				
DEPTH OUT (m)				
DEPTH IN (m)				
TOTAL DRILLED (m)				
TOTAL HRS RUN				

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

DAY TOUR — MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN		HRS RUN	
BOILER pH		BOILER pH	
STACK TEMP		STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
				TRAVEL FROM HOME TO HIGH LEVEL "1050" KM
				GOT HOTEL IN HIGH LEVEL TRAVELLED TO RIG IN THE MORNING

NOTES :

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH						

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.				
SIZE				
IADC CODE				
MANUFACTURER				
TYPE				
SERIAL NO.				
JETS				
DEPTH OUT (m)				
DEPTH IN (m)				
TOTAL DRILLED (m)				
TOTAL HRS RUN				

CUTTING STRUCTURE

Ti	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

EVENING TOUR — MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN		HRS RUN	
BOILER pH		BOILER pH	
STACK TEMP		STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

NOTES :

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH						

LICENCE NO.	WELL NAME & NO.
1159	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60'9'35.5''	1/ /0
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE MOSS

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection		
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required		
(4.) Well Licence & Stick Diagram Posted		
(5.) Flare Lines Staked		
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines		
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked		
(5.) Motor Kills Checked		

YEAR 2007 MONTH 1 DAY 9

RIG NO. 220

FUEL @ 08:00 HRS: RIG | BOILER

WEATHER: TEMPERATURE -30; CURRENT CONDITIONS CLEAR; WIND DIRECTION CALM; ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH

SPUD DATE		TIME	
RIG RELEASE		TIME	
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	76		
TOUR SHEET SERIAL NUM	PREC220_20070109_1B		
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2		

PASON DATAHUB

CODE NO.	1 RIGUP & TEARDOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 rig move	23	24	25	26	TOTALS
TIME - HRS MORN																											
DAY																						12.0					12.00
EVE																											
TOTAL																						12.00					12.00

SHALE SHAKER(S) NO.	TYPE	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
	SCREENS CHANGED	NEW/ USED				
	TOP	TOP				
	MIDDLE	MIDDLE				
	BOTTOM	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	9

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE MOSS	220

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES / NO	2

MORNING TOUR

FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

NO. / DRILLING ASSEMBLY (AT END OF TOUR) / LENGTH

BIT	O.D.	LENGTH
D.P.	STANDS	
D.P.	SINGLES	
KELLY DOWN		
TOTAL		
WT. OF D.C.		
WT. OF STRING		

BIT RECORD

BIT NO.
SIZE
IADC CODE
MANUFACTURER
TYPE
SERIAL NO.
JETS
DEPTH OUT (m)
DEPTH IN (m)
TOTAL DRILLED (m)
TOTAL HRS RUN

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MORNING TOUR — MUD RECORD

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

BOILERS: 1 | 2 — HRS RUN | BOILER pH | STACK TEMP

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE, SPM | PUMP NO. 2 LINER SIZE, SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

NOTES :

SPECIAL EVENT | SAFETY TOPIC | MEHL | MACP
TIME / DEPTH

DAY TOUR

FROM 800 TO 2000

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DERRICKHAND		DANNY S CROWLEY	12.00			DC
MOTORHAND		COREY ANDERSON	12.00			CA
RIG MANAGER		DAVE MOSS	24.00			DM

RATE SCHEDULE X | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

NO. / DRILLING ASSEMBLY (AT END OF TOUR) / LENGTH

BIT	O.D.	LENGTH
D.P.	STANDS	
D.P.	SINGLES	
KELLY DOWN		
TOTAL		
WT. OF D.C.		
WT. OF STRING		

BIT RECORD

BIT NO.
SIZE
IADC CODE
MANUFACTURER
TYPE
SERIAL NO.
JETS
DEPTH OUT (m)
DEPTH IN (m)
TOTAL DRILLED (m)
TOTAL HRS RUN

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

DAY TOUR — MUD RECORD

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

BOILERS: 1 | 2 — HRS RUN | BOILER pH | STACK TEMP

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE, SPM | PUMP NO. 2 LINER SIZE, SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	2000	12.00	22	MOVED ALL RENTAL EQUIPTMENT TO NEW LOCATION AT CAMP SITE

NOTES :

SPECIAL EVENT | SAFETY TOPIC | MEHL | MACP
TIME / DEPTH

NO. / DRILLING ASSEMBLY (AT END OF TOUR) / LENGTH

BIT	O.D.	LENGTH
D.P.	STANDS	
D.P.	SINGLES	
KELLY DOWN		
TOTAL		
WT. OF D.C.		
WT. OF STRING		

BIT RECORD

BIT NO.
SIZE
IADC CODE
MANUFACTURER
TYPE
SERIAL NO.
JETS
DEPTH OUT (m)
DEPTH IN (m)
TOTAL DRILLED (m)
TOTAL HRS RUN

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

EVENING TOUR — MUD RECORD

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

BOILERS: 1 | 2 — HRS RUN | BOILER pH | STACK TEMP

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE, SPM | PUMP NO. 2 LINER SIZE, SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

NOTES :

SPECIAL EVENT | SAFETY TOPIC | MEHL | MACP
TIME / DEPTH

EVENING TOUR

FROM 2000 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
1159	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60'9'35.5''	1/ /0
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE MOSS

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection		
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required		
(4.) Well Licence & Stick Diagram Posted		
(5.) Flare Lines Staked		
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines		
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked		
(5.) Motor Kills Checked		

YEAR 2007 MONTH 1 DAY 10

RIG NO. 220

FUEL @ 08:00 HRS: RIG | BOILER

WEATHER: TEMPERATURE -33; CURRENT CONDITIONS CLEAR; WIND DIRECTION CALM; ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH

SPUD DATE		TIME	
RIG RELEASE		TIME	
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	76		
TOUR SHEET SERIAL NUM	PREC220_20070110_1B		
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2		

CAODC

PASON DATAHUB

CODE NO.	1 RIGUP & TEARDOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 rig move	23	24	25	26	TOTALS
TIME - HRS MORN																											
DAY																						12.0					12.00
EVE																											
TOTAL																						12.00					12.00

SHALE SHAKER(S) NO.	TYPE	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
	SCREENS CHANGED	NEW/ USED				
	TOP	TOP				
	MIDDLE	MIDDLE				
	BOTTOM	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	10

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE MOSS	220

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES / NO	3

MORNING TOUR

FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MORNING TOUR — MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN		HRS RUN	
BOILER pH		BOILER pH	
STACK TEMP		STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

NOTES :

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					

DAY TOUR

FROM 800 TO 2000

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DERRICKHAND		DANNY S CROWLEY	12.00			DC
MOTORHAND		COREY ANDERSON	12.00			CA
RIG MANAGER		DAVE MOSS	24.00			DM

RATE SCHEDULE X | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

DAY TOUR — MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN		HRS RUN	
BOILER pH		BOILER pH	
STACK TEMP		STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	2000	12.00	22	MOVE REST OF RIG TO NEW LOCATION AT CAMP SITE

NOTES :

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

EVENING TOUR — MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN		HRS RUN	
BOILER pH		BOILER pH	
STACK TEMP		STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

NOTES :

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					

EVENING TOUR

FROM 2000 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
1159	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60'9'35.5''	1/ /0
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	DAVE MOSS

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection		
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required		
(4.) Well Licence & Stick Diagram Posted		
(5.) Flare Lines Staked		
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines		
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked		
(5.) Motor Kills Checked		

YEAR 2007 MONTH 1 DAY 11

RIG NO. 220

FUEL @ 08:00 HRS — RIG | BOILER

WEATHER — TEMPERATURE -25 — CURRENT CONDITIONS clear — WIND DIRECTION CALM — ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH

SPUD DATE		TIME	
RIG RELEASE		TIME	
WELL TYPE		RE-ENTRY	NO
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	76		
TOUR SHEET SERIAL NUM	PREC220_20070111_1C		
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2		

PASON DATAHUB

CODE NO.	1 RIGUP & TEARDOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 Wait on lease	23	24	25	26
TIME - HRS MORN																										
DAY																						12.0				
EVE																						4.0				
TOTAL																						16.00				

TOTALS	SHALE SHAKER(S) NO.	TYPE	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
	SCREENS CHANGED		NEW/ USED				
12.00	TOP		TOP				
4.00	MIDDLE		MIDDLE				
16.00	BOTTOM		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	11

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE MOSS	220

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ☐ NO	4

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN		HRS RUN	
BOILER pH		BOILER pH	
STACK TEMP		STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

NOTES :

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					

RATE SCHEDULE		REGULAR		REPAIR		INVERT
CREW SAFETY DAYS		DRIVERS				

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	2	HRS RUN	
BOILER pH	10	BOILER pH	
STACK TEMP	350	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAVE D CROWLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	2000	12.00	22	FIRE UP LIGHT PLANT,WORK ON MUD TANKS, CHIP ICE OFF MATTING, LOOSEN ALL BOLTS
				ON BOPS,VALVES HELP TRUCKERS, PUT WINGS UP ON SUB
				FIRE UP BOILER, SHUT IN WITH HEAD OF STEAM

NOTES :

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT
CREW SAFETY DAYS		DRIVERS				

DAY TOUR FROM 800 TO 2000

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	12.00			DC
DERRICKHAND		DANNY S CROWLEY	12.00			DC
MOTORHAND		COREY ANDERSON	12.00			CA
FLOORHAND		BENGIE SWEET	12.00			BS
FLOORHAND		MIKE BELLAMY	12.00			MB
RIG MANAGER		DAVE MOSS	24.00			DM

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

Ti	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN		HRS RUN	
BOILER pH		BOILER pH	
STACK TEMP		STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JACK HUSTON

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2400	4.00	22	wait on the lease to be finished up.

NOTES :

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT
CREW SAFETY DAYS		DRIVERS				

EVENING TOUR FROM 2000 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	12.00	L3		JH
DERRICKHAND		KARL GEREIN	12.00			KG
MOTORHAND		IAN ROSS	12.00			IR
FLOORHAND		WILLIAM JONES	12.00			WJ
FLOORHAND		COURTNEY DODGE	12.00			CD

LICENCE NO.	WELL NAME & NO.
1159	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR NAME: PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION: 60'9'35.5''	UNIQUE ID: 1/ /0
SIGNATURE OF OPERATOR'S REPRESENTATIVE: BRIAN NEIGUM	SIGNATURE OF CONTRACTOR'S RIG MANAGER: DAVE MOSS

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection		
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required		
(4.) Well Licence & Stick Diagram Posted		
(5.) Flare Lines Staked		
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines		
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked		
(5.) Motor Kills Checked		

YEAR 2007 | MONTH 1 | DAY 12

RIG NO. 220

FUEL @ 08:00 HRS: RIG | BOILER

WEATHER: TEMPERATURE -28 | CURRENT CONDITIONS CLEAR | WIND DIRECTION CALM | ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	165	136	DC	57	165	41/2 XH	22	F-800	EMSCO	228.8
DP	102	43.2	HWDP	72	134	4FH	8	PZ-7	GARDNER DENVER	178
DP	102	23.38	SS/95	82	134	4FH	235			

SPUD DATE	TIME
RIG RELEASE	TIME
WELL TYPE: DIR.	RE-ENTRY: NO
OPERATOR'S AFE	
KELLY BSHG	OP FUEL
CONTRACTOR'S JOB NUM	76
TOUR SHEET SERIAL NUM	PREC220_20070112_1B
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2

PASON DATAHUB

CODE NO.	1 RIGUP & TEARDOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26	TOTALS
TIME - HRS MORN																						8.0					8.00
DAY																					0.5						0.50
EVE																						4.0					4.00
TOTAL																					0.50	12.00					12.50

SHALE SHAKER(S) NO.	TYPE	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
SCREENS CHANGED	NEW/ USED					
TOP	TOP					
MIDDLE	MIDDLE					
BOTTOM	BOTTOM					

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	12

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE MOSS	220

PROVINCE	CAMP		RIG SAFETY DAYS
N.W.T.	YES	X NO	5

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
KELLY DOWN			
TOTAL			
WT. OF D.C.			
WT. OF STRING			

BIT RECORD: BIT NO. | SIZE | IADC CODE | MANUFACTURER | TYPE | SERIAL NO. | JETS | DEPTH OUT (m) | DEPTH IN (m) | TOTAL DRILLED (m) | TOTAL HRS RUN

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD: 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

BOILERS: 1 | 2 | HRS RUN | BOILER pH | STACK TEMP

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE | SPM | PUMP NO. 2 LINER SIZE | SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0000	0800	8.00	22	Wait on the lease to be finished

NOTES :

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP

DAY TOUR — FROM 800 TO 2000

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		DAVE D CROWLEY	12.00			DC
DERRICKHAND		DANNY S CROWLEY	10.00			DC
MOTORHAND		COREY ANDERSON	8.00			CA
FLOORHAND		BENGIE SWEET	9.00			BS
FLOORHAND		MIKE BELLAMY	8.00			MB
RIG MANAGER		DAVE MOSS	24.00			DM

RATE SCHEDULE: X | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
KELLY DOWN			
TOTAL			
WT. OF D.C.			
WT. OF STRING			

BIT RECORD: BIT NO. | SIZE | IADC CODE | MANUFACTURER | TYPE | SERIAL NO. | JETS | DEPTH OUT (m) | DEPTH IN (m) | TOTAL DRILLED (m) | TOTAL HRS RUN

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD: 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

BOILERS: 1 | 2 | HRS RUN | BOILER pH | STACK TEMP

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE | SPM | PUMP NO. 2 LINER SIZE | SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	830	0.50	21	SAFETY MEETING WITH ALLNITE TRUCKING
830	2000	11.50		WENT DOWN TO MOVE RIG LEASE WAS NOT READY

NOTES :

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP

EVENING TOUR — FROM 2000 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		JACK HUSTON	12.00	L3		JH
DERRICKHAND		KARL GEREIN	10.00			KG
MOTORHAND		IAN ROSS	10.00			IR
FLOORHAND		WILLIAM JONES	10.00			WJ
FLOORHAND		COURTNEY DODGE	10.00			CD

RATE SCHEDULE: X | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
KELLY DOWN			
TOTAL			
WT. OF D.C.			
WT. OF STRING			

BIT RECORD: BIT NO. | SIZE | IADC CODE | MANUFACTURER | TYPE | SERIAL NO. | JETS | DEPTH OUT (m) | DEPTH IN (m) | TOTAL DRILLED (m) | TOTAL HRS RUN

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD: 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

BOILERS: 1 | 2 | HRS RUN | BOILER pH | STACK TEMP

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE | SPM | PUMP NO. 2 LINER SIZE | SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2400	4.00	22	Wait on the lease to be finished

NOTES :

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60DEG9'35.5" 117DEG37'15.9"	300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE MOSS

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection		
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required		
(4.) Well Licence & Stick Diagram Posted		
(5.) Flare Lines Staked		
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines		
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked		
(5.) Motor Kills Checked		

YEAR 2007 MONTH 1 DAY 13

RIG NO. 220

FUEL @ 08:00 HRS: RIG | BOILER

WEATHER: TEMPERATURE -40; CURRENT CONDITIONS CLEAR; WIND DIRECTION CALM; ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	165	136	DC	57	165	41/2 XH	22	F-800	EMSCO	228.8
DP	102	43.2	HWDP	72	134	4FH	8	PZ-7	GARDNER DENVER	178
DP	102	23.38	SS/95	82	134	4FH	235			

SPUD DATE	2007/01/15
TIME	16:30
RIG RELEASE	
TIME	
WELL TYPE	DIR.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	76
TOUR SHEET SERIAL NUM	PREC220_20070113_1E
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2

PASON DATAHUB

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
TIME - HRS	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING	wait lease					
MORN																						8.0					8.00
DAY	11.75																				0.25						12.00
EVE	4.0																										4.00
TOTAL	15.75																				0.25	8.00					24.00

SHALE SHAKER(S)				RENTALS / SERVICES	MORN	DAY	EVE
NO.	TYPE		TYPE				
SCREENS CHANGED		NEW/ USED					
TOP		TOP					
MIDDLE		MIDDLE					
BOTTOM		BOTTOM					

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	13

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE MOSS	220

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES / NO	6

MORNING TOUR

FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

MORNING TOUR

NO. | DRILLING ASSEMBLY (AT END OF TOUR) | LENGTH

BIT | O.D.

D.P. STANDS

D.P. SINGLES

KELLY DOWN

TOTAL

WT. OF D.C.

WT. OF STRING

BIT RECORD

BIT NO.

SIZE

IADC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

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

HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS: 1 | 2

HRS RUN | HRS RUN

BOILER pH | BOILER pH

STACK TEMP | STACK TEMP

CIRCULATION PRESSURE kPa

PUMP NO. 1: LINER SIZE | SPM

PUMP NO. 2: LINER SIZE | SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

TIME LOG: FROM | TO | ELAPSED TIME | CODE | DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	800	8.00	22	wait on lease

NOTES :

SPECIAL EVENT | SAFETY TOPIC | MEHL | MACP

TIME / DEPTH

DAY TOUR

FROM 800 TO 2000

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		DAVE D CROWLEY	16.00			DC
DERRICKHAND		DANNY S CROWLEY	16.00			DC
MOTORHAND		COREY ANDERSON	12.00			CA
FLOORHAND		BENGIE SWEET	12.00			BS
FLOORHAND		MIKE BELLAMY	12.00			MB
RIG MANAGER		DAVE MOSS	24.00			DM

RATE SCHEDULE | X | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR

NO. | DRILLING ASSEMBLY (AT END OF TOUR) | LENGTH

BIT | O.D.

D.P. STANDS

D.P. SINGLES

KELLY DOWN

TOTAL

WT. OF D.C.

WT. OF STRING

BIT RECORD

BIT NO.

SIZE

IADC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

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

HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS: 1 | 2

HRS RUN | HRS RUN

BOILER pH | BOILER pH

STACK TEMP | STACK TEMP

CIRCULATION PRESSURE kPa

PUMP NO. 1: LINER SIZE | SPM

PUMP NO. 2: LINER SIZE | SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

TIME LOG: FROM | TO | ELAPSED TIME | CODE | DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	21	SAFETY MEETING WITH ALLNITE TRUCKER
815	2000	11.75	1	SPOT ALL MATTING SUB DERRICK DRAWWORK WATERTANK MUDTANK # 2 & 1 PUMPHOUSE
				LIGHTPLANT BOILER & ALL RENTAL EQUIPTMENT & ALL SHACKS

NOTES :

SPECIAL EVENT | SAFETY TOPIC | MEHL | MACP

TIME / DEPTH

EVENING TOUR

FROM 2000 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		JACK HUSTON	10.00	L3		JH
DERRICKHAND		KARL GEREIN	10.00			KG
MOTORHAND		IAN ROSS	10.00			IR
FLOORHAND		COURTNEY DODGE	10.00			CD
FLOORHAND		WILLIAM JONES	10.00			WJ

RATE SCHEDULE | X | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR

NO. | DRILLING ASSEMBLY (AT END OF TOUR) | LENGTH

BIT | O.D.

D.P. STANDS

D.P. SINGLES

KELLY DOWN

TOTAL

WT. OF D.C.

WT. OF STRING

BIT RECORD

BIT NO.

SIZE

IADC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

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

HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS: 1 | 2

HRS RUN: 3 | HRS RUN

BOILER pH: 9.5 | BOILER pH

STACK TEMP: 350 | STACK TEMP

CIRCULATION PRESSURE kPa

PUMP NO. 1: LINER SIZE | SPM

PUMP NO. 2: LINER SIZE | SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

TIME LOG: FROM | TO | ELAPSED TIME | CODE | DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2400	4.00	1	RIG UP POWER & PASON CORD TO ALL SHACKS
				WARM UP FLOOR MOTOR RIG UP DERRICK STEAM LINED POWER CORD

NOTES :

SPECIAL EVENT | SAFETY TOPIC | MEHL | MACP

TIME / DEPTH

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60DEG9'35.5" 117DEG37'15.9"	300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE MOSS

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection	BN	DM
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required		
(4.) Well Licence & Stick Diagram Posted	BN	DM
(5.) Flare Lines Staked	BN	DM
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines		
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		DM
(4.) Crown Saver Checked		
(5.) Motor Kills Checked		

YEAR 2007 MONTH 1 DAY 14

RIG NO. 220

FUEL @ 08:00 HRS

RIG | BOILER

WEATHER: TEMPERATURE -29; CURRENT CONDITIONS CLEAR; WIND DIRECTION CALM; ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	165	136	DC	57	165	41/2 XH	22	F-800	EMSCO	228.8
DP	102	43.2	HWDP	72	134	4FH	8	PZ-7	GARDNER DENVER	178
DP	102	23.38	SS/95	82	134	4FH	235			

SPUD DATE	2007/01/15
TIME	16:30
RIG RELEASE	
TIME	
WELL TYPE	DIR.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	76
TOUR SHEET SERIAL NUM	PREC220_20070114_1D
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2

PASON DATAHUB

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
TIME - HRS	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING	DIVERTER	DRILL MOUSE HOLE				
MORN	7.0																					1.0					8.00
DAY	3.0																					5.0	4.0				12.00
EVE																							4.0				4.00
TOTAL	10.00																					6.00	8.00				24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO.	TYPE	TYPE	CREW VEHICLE			
SCREENS CHANGED		NEW/ USED				
TOP	84	TOP				
MIDDLE		MIDDLE				
BOTTOM	84	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	14

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE MOSS	220

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES / NO	7

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	8.00	L3		JH
DERRICKHAND		KARL GEREIN	8.00			KG
MOTORHAND		IAN ROSS	8.00			IR
FLOORHAND		COURTNEY DODGE	8.00			CD
FLOORHAND		WILLIAM JONES	8.00			WJ

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR — FROM 800 TO 2000

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	12.00			DC
DERRICKHAND		DANNY S CROWLEY	12.00			DC
MOTORHAND		COREY ANDERSON	12.00			CA
FLOORHAND		BENGIE SWEET	12.00			BS
FLOORHAND		MIKE BELLAMY	12.00			MB
RIG MANAGER		DAVE MOSS	24.00			DM

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR — FROM 2000 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	4.00	L3		JH
DERRICKHAND		KARL GEREIN	4.00			KG
MOTORHAND		IAN ROSS	4.00			IR
FLOORHAND		COURTNEY DODGE	4.00			CD
FLOORHAND		WILLIAM JONES	4.00			WJ

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

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

BOILERS: 1 — HRS RUN 8; BOILER pH 11; STACK TEMP 360 — 2: HRS RUN; BOILER pH; STACK TEMP

CIRCULATION PRESSURE kPa | PUMP NO. 1: LINER SIZE, SPM | PUMP NO. 2: LINER SIZE, SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0200	2.00	1	RIG UP-RAISE DERRICK AT 0200hrs.-INSPECT DERRICK BEFORE RAISING
0200	0700	5.00	1	RIG UP - PRE FABS,-RIG UP FLOOR, MAKE UP KELLY
0700	0800	1.00	22	NIPPLE UP DIVERTER

NOTES :

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1	BIT	.34	
1	BIT SUB	222	1.1
1	9 IN. DC	222	9.21
1	BELL SUB	192	.95
1	X/O	162	.67
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		12.27
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	1
SIZE	311
IADC CODE	
MANUFACTURER	
TYPE	MXC1
SERIAL NO.	3009680
JETS	3X 15.9
DEPTH OUT (m)	
DEPTH IN (m)	13
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

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

BOILERS: 1 — HRS RUN 12; BOILER pH 10; STACK TEMP 380 — 2: HRS RUN; BOILER pH; STACK TEMP

CIRCULATION PRESSURE kPa | PUMP NO. 1: LINER SIZE, SPM | PUMP NO. 2: LINER SIZE, SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1300	5.00	22	CONTINUE NIPPLE DIVERTER RIG UP FLARE LINES TO FLARE TANK
				RIG UP FLARE TANK
1300	1600	3.00	1	STRING PASON CORDS, PUT ON WEIGHT INDICATOR,RIG UP PHONES,PUT
				HOOK UP CELLAR PUMP, BRING SUBS UP TO FLOOR & RIG UP MUD TANK
1600	2000	4.00	23	RIG UP KELLY SUB RE DRILL MOUSE HOLE RIG UP TRAMH PUMP

NOTES : VISUALY INSPECT ACCUMULATOR FLARE LINES DIVERTER
FUNCTION HCR

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

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

BOILERS: 1 — HRS RUN 4; BOILER pH 11; STACK TEMP 365 — 2: HRS RUN; BOILER pH; STACK TEMP

CIRCULATION PRESSURE kPa | PUMP NO. 1: LINER SIZE, SPM | PUMP NO. 2: LINER SIZE, SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2400	4.00	23	DRILL MOUSE HOLE IT WAS LEFT NOT DRILLED DEEP ENOUGH

NOTES :

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60DEG9'35.5" 117DEG37'15.9"	300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE MOSS

DAILY CHECKS

(1.) Daily Walk Around Inspection
(2.) Detailed Inspection - Weekly (Using Check List)
(3.) H2S Signs Posted if Required
(4.) Well Licence & Stick Diagram Posted
(5.) Flare Lines Staked
(6.) BOP Drills Performed
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines

(1.) Rig Site Health & Safety Meeting (one/crew/month)
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)
(3.) Mast Inspection before Raising or Lowering
(4.) Crown Saver Checked
(5.) Motor Kills Checked

OPR	R.M.
BN	DM
BN	DM
BN	DM
DM	
DM	

YEAR 2007 MONTH 1 DAY 15
RIG NO. 220
FUEL @ 08:00 HRS
RIG 215 BOILER

WEATHER: TEMPERATURE - 14; CURRENT CONDITIONS CLEAR; WIND DIRECTION CALM; ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	165	136	DC	57	165	41/2 XH	22	F-800	EMSCO	228.8
DP	102	43.2	HWDP	72	134	4FH	8	PZ-7	GARDNER DENVER	178
DP	102	23.38	SS/95	82	134	4FH	235			

SPUD DATE	2007/01/15
TIME	16:30
RIG RELEASE	
TIME	
WELL TYPE	DIR.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	76
TOUR SHEET SERIAL NUM	PREC220_20070115_1D
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2

PASON DATAHUB

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
TIME - HRS	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING	MOUSE HOLE	MAKE UP BHA				
MORN																						8.0					8.00
DAY		3.5					0.25														0.25	5.75	2.25				12.00
EVE		3.5					0.25			0.25																	4.00
TOTAL		7.00					0.50			0.25											0.25	13.75	2.25				24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO.	TYPE	TYPE	CREW VEHICLE			
SCREENS CHANGED		NEW/ USED				
TOP 80		TOP				
MIDDLE		MIDDLE				
BOTTOM 80		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	15

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE MOSS	220

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ☐ NO	8

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MORNING TOUR

MUD RECORD

MUD TYPE ____ WATER BASED ☐ OIL BASED ☐

TIME	
DENSITY (kg/m3)	
FUNNEL VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
SODA ASH	4	SX
GEL	50	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	360	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ ____ @ ____

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	800	8.00	22	DRILL MOUSE HOLE THERE MUST BE SOME GRAVEL AND IT HAS WASHED OUT UNDER THE PAD
				SOME WHERE. THIS SHOULD HAVE BE DONE WITH THE RAT HOLE RIG AND LINE IF NEEDED.

NOTES :

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH						

MORNING TOUR	FROM 0	TO 800	INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	8.00	L3		JH
DERRICKHAND		KARL GEREIN	8.00			KG
MOTORHAND		IAN ROSS	8.00			IR
FLOORHAND		COURTNEY DODGE	8.00			CD
FLOORHAND		WILLIAM JONES	8.00			WJ

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1	BIT SUB	222	1.1
1	9 IN. DC	222	9.32
1	BELL SUB	192	.95
1	X/O	162	.67
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		12.85
	TOTAL		25.23
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	1
SIZE	311
IADC CODE	
MANUFACTURER	
TYPE	MXC1
SERIAL NO.	3009680
JETS	3X 15.9
DEPTH OUT (m)	
DEPTH IN (m)	13
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ____ WATER BASED ☐ OIL BASED ☐

TIME	
DENSITY (kg/m3)	
FUNNEL VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
GEL	55	SX
SODA ASH	2	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	12	HRS RUN	
BOILER pH	10	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
1850	152	100		

REDUCED PUMP SPEED: @ ____ @ ____

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
13	25	D	145	5

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1345	5.75	22	CONTINUE DRILLING MOUSE HOLE,RAISE VIS TO 200,TRY DRILL SOME MORE
1345	1600	2.25	23	BLOW KELLY INSTALL KELLY BUSHINGS,MAKE UP BHA
1600	1615	0.25	7	RIG SERVICE FUNCTION TEST ANNULAR 12 SECS TO CLOSE
1615	1630	0.25	21	SAFETY MEETING PRE SPUD
1630	2000	3.50	2	SPUD DRILL 311mm HOLE F/ 13M TO 25M

NOTES : FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKAGE AND ANCHOR

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH						

DAY TOUR	FROM 800	TO 2000	INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	12.00			DC
DERRICKHAND		DANNY S CROWLEY	12.00			DC
MOTORHAND		COREY ANDERSON	12.00			CA
FLOORHAND		BENGIE SWEET	12.00			BS
FLOORHAND		MIKE BELLAMY	12.00			MB
RIG MANAGER		DAVE MOSS				DM

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1	BIT SUB	222	1.1
2	9 IN. DC	222	18.53
1	BELL SUB	192	.95
1	X/O	162	.67
4	D.C.	165	37.89
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		5.52
	TOTAL		65.00
	WT. OF D.C.		
	WT. OF STRING	12	

BIT RECORD

BIT NO.	1
SIZE	311
IADC CODE	
MANUFACTURER	
TYPE	MXC1
SERIAL NO.	3009680
JETS	3X 15.9
DEPTH OUT (m)	
DEPTH IN (m)	13
TOTAL DRILLED (m)	52
TOTAL HRS RUN	7.0

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	4	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	375	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
4100	152	100	152	100

REDUCED PUMP SPEED: @ ____ @ ____

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
31	.58	

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
25	65	D	150	6

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2115	1.25	2	DRILL 25 TO 44
2115	2130	0.25	10	DEVIATION SURVEY AT 31m
2130	2145	0.25	7	RIG SERVICE
2145	2400	2.25	2	DRILL 44 TO 65

NOTES : FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				TONGS	15	

EVENING TOUR	FROM 2000	TO 2400	INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	4.00	L3		JH
DERRICKHAND		KARL GEREIN	4.00			KG
MOTORHAND		IAN ROSS	4.00			IR
FLOORHAND		COURTNEY DODGE	4.00			CD
FLOORHAND		WILLIAM JONES	4.00			WJ

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	**UNIQUE ID**
60DEG9'35.5'' 117DEG37'15.9''	300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**
BRIAN NEIGUM	DAVE MOSS

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection	BN	DC
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required		
(4.) Well Licence & Stick Diagram Posted		
(5.) Flare Lines Staked	BN	DC
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines	BN	DC
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked		DC
(5.) Motor Kills Checked		

YEAR	MONTH	DAY	RIG NO.
2007	1	16	220

FUEL @ 08:00 HRS — RIG: 177 — BOILER:

WEATHER — TEMPERATURE: -8 — CURRENT CONDITIONS: CLEAR — WIND DIRECTION: CALM — ROAD CONDITION: SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
DC	165	136	DC	57	165	41/2 XH	22
DP	102	43.2	HWDP	72	134	4FH	8
DP	102	23.38	SS/95	82	134	4FH	235

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F-800	EMSCO	228.8
PZ-7	GARDNER DENVER	178

SPUD DATE	2007/01/15	TIME	16:30
RIG RELEASE		TIME	
WELL TYPE	DIR.	RE-ENTRY	NO
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	76		
TOUR SHEET SERIAL NUM	PREC220_20070116_1C		
VENDOR SOFTWARE VERSION	EDR_3-2-3_HF2 ETS 2.2		

CAODC

PASON DATAHUB

TIME - HRS

CODE NO.	1 RIGUP & TEARDOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26	TOTALS
MORN		4.0			1.0	2.0	0.25			0.75																	8.00
DAY		9.75				0.5	0.25			1.5																	12.00
EVE		2.75				1.0				0.25																	4.00
TOTAL		16.50			1.00	3.50	0.50			2.50																	24.00

SHALE SHAKER(S)

NO.	TYPE	TYPE
SCREENS CHANGED		NEW/ USED
TOP 80		TOP
MIDDLE		MIDDLE
BOTTOM 80		BOTTOM

RENTALS / SERVICES

	MORN	DAY	EVE
CREW VEHICLE			

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	16

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE MOSS	220

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	YES: X — NO:	9

MORNING TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT	O.D.	LENGTH
1	BIT		.34
1	BIT SUB	222	1.1
2	9 IN. DC	222	18.53
1	BELL SUB	192	.95
1	X/O	162	.67
11	D.C.	165	103.90
	D.P. STANDS		
	D.P. SINGLES		
	KELLY DOWN		3.01
	TOTAL		128.50
	WT. OF D.C.		
	WT. OF STRING	12	

BIT RECORD

BIT NO.	1	2
SIZE	311	311
IADC CODE		
MANUFACTURER		
TYPE	MXC1	MX 1
SERIAL NO.	3009680	KO4EL
JETS	3X 15.9	15.9 15.9 / 15.9
DEPTH OUT (m)	128	
DEPTH IN (m)	13	128
TOTAL DRILLED (m)	115.00	
TOTAL HRS RUN	11.0	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION — HOLE DRAG: — TORQUE AT BOTTOM: — FILL ON BOTTOM (m):

MUD RECORD — 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

BOILERS

	1	2
HRS RUN	8	
BOILER pH	10.5	
STACK TEMP	370	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
65	128	D	180	10

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
5200	152	100	152	100

REDUCED PUMP SPEED: @ — @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
60	.26	
88	.31	
116	.63	

DRILLER SIGNATURE: JACK HUSTON

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	045	0.75	2	DRILL 65 TO 72
045	0100	0.25	10	DEVIATION SURVEY AT 60m
0100	230	1.50	2	DRILL 72 TO 100
230	245	0.25	10	DEVIATION SURVEY AT 88m
245	430	1.75	2	DRILL 100 TO 128-SAND AT 110m
430	530	1.00	5	MUD UP
530	545	0.25	7	RIG SERVICE
545	600	0.25	10	DEVIATION SURVEY AT 116
600	800	2.00	6	TRIP OUT - MUD RING - CHANGE BITS
800				

NOTES : FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			30	

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		JACK HUSTON	8.00	L3		JH
DERRICKHAND		KARL GEREIN	8.00			KG
MOTORHAND		IAN ROSS	8.00			IR
FLOORHAND		COURTNEY DODGE	8.00			CD
FLOORHAND		WILLIAM JONES	8.00			WJ

RATE SCHEDULE: X REGULAR — REPAIR — INVERT

CREW SAFETY DAYS — DRIVERS

DAY TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT	O.D.	LENGTH
1	BIT		.34
1	BIT SUB	222	1.1
2	9 IN. DC	222	18.53
1	BELL SUB	192	.95
1	X/O	162	.67
16	D.C.	165	150.64
1	X/O	162	.96
8	H.W.D.P.		74.86
2	D.P. STANDS		37.6
	D.P. SINGLES		
	KELLY DOWN		11.35
	TOTAL		297.00
	WT. OF D.C.	22	
	WT. OF STRING	26	

BIT RECORD

BIT NO.	2	
SIZE	311	
IADC CODE		
MANUFACTURER		
TYPE	MX1	
SERIAL NO.	K04EL	
JETS	3X 15.9	
DEPTH OUT (m)		
DEPTH IN (m)	128	
TOTAL DRILLED (m)	169	
TOTAL HRS RUN	9.75	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR
1	2	NO	N	1	0		MUD	

HOLE CONDITION — HOLE DRAG: — TORQUE AT BOTTOM: — FILL ON BOTTOM (m):

MUD RECORD — MUD TYPE: — WATER BASED ☐ OIL BASED ☐

TIME	930	1230	1530
DENSITY (kg/m3)	1110	1140	1145
FUNNEL VISCOSITY	48	40	43
FLUID LOSS (cm3)			
pH	10	9.5	9

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
CAUSTIC	3	SX
SAPP	1	SX

SOLIDS CONTROL — CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	12	
BOILER pH	10.5	
STACK TEMP	370	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
128	297	D	160	110

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
8000	152	110	152	110

REDUCED PUMP SPEED: @ — @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
145	.56	
175	.44	
215	.69	
241	.23	
269	.59	
294	.60	

DRILLER SIGNATURE: DAVE D CROWLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	830	0.50	6	FINISH RUNNING IN
830	1000	1.50	2	DRILL F/ 128 TO 157
1000	1015	0.25	7	RIG SERVICE FUNCTION ANNULAR 12 SECS TO CLOSE
1015	1030	0.25	10	DEVIATION SURVEY
1030	1215	1.75	2	DRILL F/ 157 TO 183
1215	1230	0.25	10	DEVIATION SURVEY
1230	1400	1.50	2	DRILL F/183 TO 221
1400	1415	0.25	10	DEVIATION SURVEY
1415	1600	1.75	2	DRILL F/ 221 TO 250
1600	1615	0.25	10	DEVIATION SURVEY
1615	1730	1.25	2	DRILL F/250 TO 279
1730	1745	0.25	10	DEVIATION SURVEY
1745	1945	2.00	2	DRILL F/ 279 TO 297
1945	2000	0.25	10	DEVIATION SURVEY

NOTES : FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKAGE AND ANCHOR

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		ROTARY TABLE	30	

DAY TOUR FROM 800 TO 2000

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		DAVE D CROWLEY	12.00			DC
DERRICKHAND		DANNY S CROWLEY	12.00			DC
MOTORHAND		COREY ANDERSON	12.00			CA
FLOORHAND		BENGIE SWEET	12.00			BS
FLOORHAND		MIKE BELLAMY	12.00			MB
RIG MANAGER		DAVE MOSS				DM
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE: X REGULAR — REPAIR — INVERT

CREW SAFETY DAYS — DRIVERS

EVENING TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT	O.D.	LENGTH
1	BIT		.34
1	BIT SUB	222	1.1
2	9 IN. DC	222	18.53
1	BELL SUB	192	.95
1	X/O	162	.67
16	D.C.	165	150.64
1	X/O	162	.96
8	H.W.D.P.		74.86
5	D.P. STANDS		93.97
	D.P. SINGLES		
	KELLY DOWN		12.47
	TOTAL		354.49
	WT. OF D.C.	22	
	WT. OF STRING	31	

BIT RECORD

BIT NO.	2	
SIZE	311	
IADC CODE		
MANUFACTURER		
TYPE	MX1	
SERIAL NO.	K04EL	
JETS	3X 15.9	
DEPTH OUT (m)		
DEPTH IN (m)	128	
TOTAL DRILLED (m)	226	
TOTAL HRS RUN	12.5	

CUTTING STRUCTURE

Ti	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION — HOLE DRAG: — TORQUE AT BOTTOM: — FILL ON BOTTOM (m):

MUD RECORD — MUD TYPE: — WATER BASED ☐ OIL BASED ☐

TIME	1830	2100	2330
DENSITY (kg/m3)	1150	1130	
FUNNEL VISCOSITY	48	47	
FLUID LOSS (cm3)			
pH	9	9	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL — CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	4	
BOILER pH	11	
STACK TEMP	365	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
297	354	D	180	10

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
7000	152	125	152	

REDUCED PUMP SPEED: @ — @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
323	.36	

DRILLER SIGNATURE: JACK HUSTON

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2130	1.50	2	DRILL 297 TO 335
2130	2145	0.25	10	DEVIATION SURVEY AT 323
2145	2300	1.25	2	DRILL 335 TO 354
2300	2400	1.00	6	POOH-MUD RING

NOTES : FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		TRIPPING	50	

EVENING TOUR FROM 2000 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		JACK HUSTON	4.00	L3		JH
DERRICKHAND		KARL GEREIN	4.00			KG
MOTORHAND		IAN ROSS	4.00			IR
FLOORHAND		COURTNEY DODGE	4.00			CD
FLOORHAND		WILLIAM JONES	4.00			WJ

RATE SCHEDULE: X REGULAR — REPAIR — INVERT

CREW SAFETY DAYS — DRIVERS

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60DEG9'35.5" 117DEG37'15.9"	300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE CROWLEY

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection	BN	DC
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required		
(4.) Well Licence & Stick Diagram Posted	BN	DC
(5.) Flare Lines Staked	BN	DC
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines		
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked	DC	
(5.) Motor Kills Checked		

YEAR 2007 MONTH 1 DAY 17

RIG NO. 220

FUEL @ 08:00 HRS

RIG 124 BOILER

WEATHER: TEMPERATURE -8; CURRENT CONDITIONS CLEAR; WIND DIRECTION CALM; ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	165	136	DC	57	165	41/2 XH	22	F-800	EMSCO	228.8
DP	102	43.2	HWDP	72	134	4FH	8	PZ-7	GARDNER DENVER	178
DP	102	23.38	SS/95	82	134	4FH	235			

SPUD DATE	2007/01/15	TIME	16:30
RIG RELEASE		TIME	
WELL TYPE	DIR.	RE-ENTRY	NO
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	76		
TOUR SHEET SERIAL NUM	PREC220_20070117_1C		
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2		

PASON DATAHUB

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
TIME-HRS	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING						
MORN					1.5	6.25	0.25																				8.00
DAY		4.25	0.25		0.5	6.25	0.25			0.5																	12.00
EVE		0.25			0.5	2.0				0.25		0.75									0.25						4.00
TOTAL		4.50	0.25		2.50	14.50	0.50			0.75		0.75									0.25						24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE				
SCREENS CHANGED	NEW/ USED					
TOP 50	TOP					
MIDDLE	MIDDLE					
BOTTOM 50	BOTTOM					

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	17

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE CROWLEY	220

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ___ NO	1573

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.34
1	BIT SUB	222	1.1
2	9 IN. DC	222	18.53
1	BELL SUB	192	.95
1	X/O	162	.67
16	D.C.	165	150.64
1	X/O	162	.96
8	H.W.D.P.		74.86
5	D.P. STANDS		93.97
	D.P. SINGLES		
KELLY DOWN			12.47
TOTAL			354.49
WT. OF D.C.	22		
WT. OF STRING	31		

MORNING TOUR

BIT RECORD

BIT NO.	2
SIZE	311
IADC CODE	
MANUFACTURER	
TYPE	MX1
SERIAL NO.	K04EL
JETS	3X 15.9
DEPTH OUT (m)	
DEPTH IN (m)	128
TOTAL DRILLED (m)	226
TOTAL HRS RUN	12.5

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ___ WATER BASED ☐ OIL BASED ☐

TIME	930	1230	1530
DENSITY (kg/m3)	1160	1165	
FUNNEL VISCOSITY	40	70	
FLUID LOSS (cm3)			
pH	9	10	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
GEL	4	SX
CAUSTIC	1	SX
DRILLING DETERGENT	1	PAILS

SOLIDS CONTROL

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	365	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
	355			

CIRCULATION PRESSURE kPa: 6100

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
152	120	152	

REDUCED PUMP SPEED: @ ___ @ ___

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JACK HUSTON

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	130	1.50	6	POOH
130	145	0.25	7	RIG SERVICE
145	630	4.75	6	RIH- WORK MUD RING AT 20M, AT 100M-UNPLUG FLOWLINE-REAM MUD
				RING AT 160, AT 260
630	800	1.50	5	CIRC TO BOTTOM 280 TO 354

NOTES: FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC: TONGS | MEHL: 45 | MACP:

MORNING TOUR	FROM 0	TO 800		INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES / NO
DRILLER		JACK HUSTON	8.00 L3	JH
DERRICKHAND		KARL GEREIN	8.00	KG
MOTORHAND		IAN ROSS	8.00	IR
FLOORHAND		COURTNEY DODGE	8.00	CD
FLOORHAND		WILLIAM JONES	8.00	WJ

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT

CREW SAFETY DAYS | DRIVERS

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.34
1	BIT SUB	222	1.1
1	BELL SUB	192	.95
1	X/O	162	.67
16	D.C.	165	150.64
1	X/O	162	.96
8	H.W.D.P.		74.86
9	D.P. STANDS		169.18
1	D.P. SINGLES		9.39
KELLY DOWN			11.91
TOTAL			420.00
WT. OF D.C.	22		
WT. OF STRING	31		

DAY TOUR

BIT RECORD

BIT NO.	2
SIZE	311
IADC CODE	
MANUFACTURER	
TYPE	MX1
SERIAL NO.	K04EL
JETS	3X 15.9
DEPTH OUT (m)	
DEPTH IN (m)	128
TOTAL DRILLED (m)	292
TOTAL HRS RUN	16.25

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ___ WATER BASED ☐ OIL BASED ☐

TIME; DENSITY (kg/m3); FUNNEL VISCOSITY; FLUID LOSS (cm3); pH

MUD MATERIALS ADDED

SOLIDS CONTROL

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	12	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	365	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
354	420	D	150	8

CIRCULATION PRESSURE kPa: 7800

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
152	126	152	

REDUCED PUMP SPEED: @ ___ @ ___

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
354	1	
382	.59	

DRILLER SIGNATURE: DAVE D CROWLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	830	0.50	2	DRILL F/354 TO 363
830	845	0.25	7	RIG SERVICE FUNCTION ANNULAR 12 SECS TO CLOSE
845	900	0.25	10	DEVIATION SURVEY
900	1100	2.00	2	DRILL F/363 TO 392
1100	1115	0.25	10	DEVIATION SURVEY
1115	1130	0.25	2	DRILL F/392 TO 410
1130	1200	0.50	5	CIRCULATE HOLE CLEAN
1200	1815	6.25	6	WIPER TRIP
1815	1830	0.25	3	WASH TO BOTTOM
1830	2000	1.50	2	DRILL F/410 TO 420

NOTES: FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKAGE AND ANCHOR

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC: TRIPPING | MEHL: 36 | MACP:

DAY TOUR	FROM 800	TO 2000		INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES / NO
DRILLER		DAVE D CROWLEY	12.00	DC
DERRICKHAND		DANNY S CROWLEY	12.00	DC
MOTORHAND		COREY ANDERSON	12.00	CA
FLOORHAND		BENGIE SWEET	12.00	BS
FLOORHAND		MIKE BELLAMY	12.00	MB
RIG MANAGER		DAVE CROWLEY		DC

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT

CREW SAFETY DAYS | DRIVERS

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.34
1	BIT SUB	222	1.1
1	BELL SUB	192	.95
1	X/O	162	.67
16	D.C.	165	150.64
1	X/O	162	.96
8	H.W.D.P.		74.86
10	D.P. STANDS		188.30
	D.P. SINGLES		
KELLY DOWN			7.18
TOTAL			425.00
WT. OF D.C.	22		
WT. OF STRING	31		

EVENING TOUR

BIT RECORD

BIT NO.	2
SIZE	311
IADC CODE	
MANUFACTURER	
TYPE	MX1
SERIAL NO.	K04EL
JETS	3X 15.9
DEPTH OUT (m)	425
DEPTH IN (m)	128
TOTAL DRILLED (m)	297.00
TOTAL HRS RUN	16.50

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ___ WATER BASED ☐ OIL BASED ☐

TIME; DENSITY (kg/m3); FUNNEL VISCOSITY; FLUID LOSS (cm3); pH

MUD MATERIALS ADDED

SOLIDS CONTROL

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	4	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	360	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
420	425	D	180	10

CIRCULATION PRESSURE kPa: 7500

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
152	120	152	

REDUCED PUMP SPEED: @ ___ @ ___

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
417	1.48	

DRILLER SIGNATURE: JACK HUSTON

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2015	0.25	2	DRILL F/ 420 TO 425
2015	2045	0.50	5	CONDITION MUD & CIRCULATE
2045	2100	0.25	10	DEVIATION SURVEY AT 417
2100	2300	2.00	6	POOH
2300	2315	0.25	21	SAFETY MEETING W/TONG OPERATER-ELEVATORS-S.N.-32607
2315	2400	0.75	12	RIG TO RUN CASING

NOTES: FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS, BRAKES,PINS, PINS

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC: CASING | MEHL: 35 | MACP:

EVENING TOUR	FROM 2000	TO 2400		INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES / NO
DRILLER		JACK HUSTON	4.00 L3	JH
DERRICKHAND		KARL GEREIN	4.00	KG
MOTORHAND		IAN ROSS	4.00	IR
FLOORHAND		COURTNEY DODGE	4.00	CD
FLOORHAND		WILLIAM JONES	4.00	WJ

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60DEG9'35.5" 117DEG37'15.9"	300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE CROWLEY

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection	BN	DC
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required	BN	DC
(4.) Well Licence & Stick Diagram Posted	BN	DC
(5.) Flare Lines Staked	BN	DC
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines	BN	DC
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked	DC	
(5.) Motor Kills Checked		

YEAR	MONTH	DAY
2007	1	18

RIG NO.	FUEL @ 08:00 HRS	
220		
RIG	BOILER	
80		

WEATHER: -8 | TEMPERATURE | CURRENT CONDITIONS: CLEAR | WIND DIRECTION: CALM | ROAD CONDITION: SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	219.1	205.7	35.72	IPSCO	J-55	32	425.49	.49	425

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
DC	165	136	DC	57	165	41/2 XH	22
DP	102	43.2	HWDP	72	134	4FH	8
DP	102	23.38	SS/95	82	134	4FH	235

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F-800	EMSCO	228.8
PZ-7	GARDNER DENVER	178

SPUD DATE	2007/01/15
TIME	16:30
RIG RELEASE	
TIME	
WELL TYPE	DIR.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	76
TOUR SHEET SERIAL NUM	PREC220_20070118_1C
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2

PASON DATAHUB

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
TIME - HRS	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING	WELD BOWL					
MORN					1.5							4.0	2.25								0.25						8.00
DAY													1.75	7.0								2.25	1.0				12.00
EVE														2.0	2.0												4.00
TOTAL					1.50							4.00	4.00	9.00	2.00						0.25	2.25	1.00				24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE				
SCREENS CHANGED	NEW/ USED					
TOP 50	TOP					
MIDDLE	MIDDLE					
BOTTOM 50	BOTTOM					

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	18

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE CROWLEY	220

PROVINCE	CAMP		RIG SAFETY DAYS
N.W.T.	X YES	NO	1574

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.34
1	BIT SUB	222	1.1
1	BELL SUB	192	.95
1	X/O	162	.67
16	D.C.	165	150.64
1	X/O	162	.96
8	H.W.D.P.		74.86
10	D.P. STANDS		188.30
	D.P. SINGLES		
KELLY DOWN			7.18
TOTAL			425.00
WT. OF D.C.	22		
WT. OF STRING	31		

MORNING TOUR

BIT RECORD

BIT NO.	2
SIZE	311
IADC CODE	
MANUFACTURER	
TYPE	MX1
SERIAL NO.	K04EL
JETS	3X 15.9
DEPTH OUT (m)	425
DEPTH IN (m)	128
TOTAL DRILLED (m)	297.00
TOTAL HRS RUN	16.50

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE	WATER BASED ☐	OIL BASED ☐
TIME	400	
DENSITY (kg/m3)	1140	
FUNNEL VISCOSITY	45	
FLUID LOSS (cm3)		
pH	9	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DESCO	2	SX

SOLIDS CONTROL

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	365	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
	152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
	425			

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	300	3.00	12	RUN CASING
300	430	1.50	5	CONDITION MUD & CIRCULATE
430	445	0.25	21	SAFETY MEETING WITH CEMENTERS
445	545	1.00	12	CEMENT
545	800	2.25	13	WAIT ON CEMENT
				CEMENTED THE SURFACE CASING WITH 32 TONNE OF 0-1-0 G + 1.5% CACL2
				WE GOT BACK 7M3 OF GOOD CEMENT RETURNS. PLUG DOWN 0536 JAN 18/07

NOTES : FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,ANCHORS,LINES,BRAKES,PINS,LINKAGE

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			CEMENTING		

MORNING TOUR	FROM 0	TO 800		INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	8.00	L3		JH
DERRICKHAND		KARL GEREIN	8.00			KG
MOTORHAND		IAN ROSS	8.00			IR
FLOORHAND		COURTNEY DODGE	8.00			CD
FLOORHAND		WILLIAM JONES	8.00			WJ

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

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

BOILERS

1		2	
HRS RUN	12	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
	152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	945	1.75	13	WAIT ON CEMENT
945	1045	1.00	23	LAY OUT DIVERTER
1045	1300	2.25	22	WELD BOWL
1300	2000	7.00	14	NIPPLE UP B.O.P.

NOTES :

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					

DAY TOUR	FROM 800	TO 2000		INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	12.00			DC
DERRICKHAND		DANNY S CROWLEY	12.00			DC
MOTORHAND		COREY ANDERSON	12.00			CA
FLOORHAND		BENGIE SWEET	12.00			BS
FLOORHAND		MIKE BELLAMY	12.00			MB
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

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

BOILERS

1		2	
HRS RUN	4	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	365	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
	152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2200	2.00	14	NIPPLE UP B.O.P.
2200	2400	2.00	15	TEST B.O.P. - LOW-1500kpa/15min HIGH-10500kpa/15min
				TEST ALL MANIFOLD VALVES,MANIFOLD LINE,HCR,BLIND RAMS, ALL BOP VALVES

NOTES :

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					

EVENING TOUR	FROM 2000	TO 2400		INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	4.00	L3		JH
DERRICKHAND		KARL GEREIN	4.00			KG
MOTORHAND		IAN ROSS	4.00			IR
FLOORHAND		COURTNEY DODGE	4.00			CD
FLOORHAND		WILLIAM JONES	4.00			WJ

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60DEG9'35.5" 117DEG37'15.9"	300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE CROWLEY

DAILY CHECKS

(1.) Daily Walk Around Inspection
(2.) Detailed Inspection - Weekly (Using Check List)
(3.) H2S Signs Posted if Required
(4.) Well Licence & Stick Diagram Posted
(5.) Flare Lines Staked
(6.) BOP Drills Performed
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines

(1.) Rig Site Health & Safety Meeting (one/crew/month)
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)
(3.) Mast Inspection before Raising or Lowering
(4.) Crown Saver Checked
(5.) Motor Kills Checked

OPR	R.M.
BN	DC
BN	DC
BN	DC
BN	DC
BN	DC
BN	DC
BN	DC
DC	
DC	

YEAR 2007 MONTH 1 DAY 19
RIG NO. 220
FUEL @ 08:00 HRS
RIG 80 BOILER

WEATHER -8
TEMPERATURE
CURRENT CONDITIONS CLEAR
WIND DIRECTION CALM
ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	219.1	205.7	35.72	IPSCO	J-55	32	425.49	.49	425

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	165	136	DC	57	165	41/2 XH	22	F-800	EMSCO	228.8
DP	102	43.2	HWDP	72	134	4FH	8	PZ-7	GARDNER DENVER	178
DP	102	23.38	SS/95	82	134	4FH	235			

SPUD DATE	2007/01/15	TIME	16:30		
RIG RELEASE		TIME			
WELL TYPE	DIR.	RE-ENTRY	NO		
OPERATOR'S AFE					
KELLY BSHG		OP FUEL			
CONTRACTOR'S JOB NUM	76				
TOUR SHEET SERIAL NUM	PREC220_20070119_1C				
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2				

PASON DATAHUB

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
TIME - HRS	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING	MOTOR KILLS	TOOLS READY	DRILL OUT		BOP DRILL	
MORN															8.0												8.00
DAY		1.0				4.0			0.75											3.0	0.75	0.25	0.75	1.0	0.25	0.25	12.00
EVE		2.75					0.25			0.75															0.25		4.00
TOTAL		3.75				4.00	0.25		0.75	0.75					8.00					3.00	0.75	0.25	0.75	1.00	0.50	0.25	24.00

SHALE SHAKER(S)

NO.	TYPE	TYPE
1	SWACO	
SCREENS CHANGED		NEW/ USED
TOP	50	TOP
MIDDLE		MIDDLE
BOTTOM	50	BOTTOM

RENTALS / SERVICES	MORN	DAY	EVE

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	Para Et Ai Cameron L-40 60 deg 10 117 deg 30	YEAR 2007	MONTH 1 / DAY 19
OPERATOR	PARAMOUNT RESOURCES LTD.	CONTRACTOR NAME	PRECISION DRILLING, DIV OF PDC
RIG MANAGER	DAVE CROWLEY	RIG NO.	220
PROVINCE	N.W.T.	CAMP	X YES / NO
RIG SAFETY DAYS	1575		

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ____ WATER BASED ☐ OIL BASED ☐
TIME
DENSITY (kg/m3)
FUNNEL VISCOSITY
FLUID LOSS (cm3)
pH

MUD MATERIALS ADDED PRODUCT	AMOUNT	UNIT
GEL	6	SX
ENVIROFLOC	18	SX
ALKAPAM 1103D	7	SX

SOLIDS CONTROL

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS: 1 HRS RUN 8 | BOILER pH | STACK TEMP; 2 HRS RUN | BOILER pH | STACK TEMP

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
	152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
	425			

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	800	8.00	15	TEST B.O.P.- TEST ANNULAR,PIPE RAMS,INSIDE BOP, TEST UPPER AND LOWER
				KELLY VALVES- DO ACCUM. FUNCTION TEST TEST PRESS 1500/10500 15 MIN'S EACH.

NOTES : ACCUM. TEST-20000KPA TO START/CLOSE ANNULAR(11secs.)3800kpa PRESS LOSS/OPEN HCR
(2secs.)500kpa LOSS/CLOSE PIPE RAMS(2secs.)1450kpa LOSS/TOTAL PRESS. LOSS-5750kp
14250 kpa PRESS LEFT/1MIN 10 SEC TO BUILD ORIGINAL PRESS-PRECHARGE PRESS 7000kpa
N2(1)15400kpa N2(2)14700kpa N2(3)14000kpa

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

MORNING TOUR FROM 0 TO 800					INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		JACK HUSTON	8.00	L3	JH
DERRICKHAND		KARL GEREIN	8.00		KG
MOTORHAND		IAN ROSS	8.00		IR
FLOORHAND		COURTNEY DODGE	8.00		CD
FLOORHAND		WILLIAM JONES	8.00		WJ

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1		.27	
1	MOTOR	165	8.7
1	X/O	159	.52
1	MONEL	164	9.48
1	PULSER SUB	162	1.48
1	FLEX MONEL	162	9.5
1	FLEX MONEL	162	9.48
1	X/O	153	.39
1	SHOCK SUB	160	2.26
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
8	D.P.	STANDS	150.36
1	D.P.	SINGLES	9.44
	KELLY DOWN		11.82
	TOTAL		445.00
	WT. OF D.C.	22	
	WT. OF STRING	30	

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	20
TOTAL HRS RUN	1.0

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ____ WATER BASED ☐ OIL BASED ☐
TIME
DENSITY (kg/m3)
FUNNEL VISCOSITY
FLUID LOSS (cm3)
pH

SOLIDS CONTROL

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS: 1 HRS RUN 12 | BOILER pH | STACK TEMP; 2 HRS RUN | BOILER pH | STACK TEMP

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
	152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
425	445	D	45	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	22	FUNCTION MOTOR KILLS ALL WORKING
815	900	0.75	23	GET DIR TOOLS READY
900	915	0.25	21	SAFETY MEETING WITH DIRECTIONAL GUYS
915	1215	3.00	20	DIR. WORK
1215	1430	2.25	6	RIH
1430	1515	0.75	9	CUT OFF DRILLING LINE
1515	1700	1.75	6	FINISH RIH LAY OUT SINGLES
1700	1715	0.25	21	SAFETY MEETING
1715	1815	1.00	24	DRILL OUT TAG FLOAT AT 412M SHOE 425
1815	1845	0.50	2	DRILL F/425 TO 435
1845	1900	0.25	21	SAFETY MEETING WITH PRESSURE TESTER
1900	1915	0.25	26	LEAK OFF TEST
1915	1930	0.25	25	BOP DRILL 99 SECS TO SHUT IN WELL
1930	2000	0.50	2	DRILL F/435 TO 445

NOTES :

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: BOP DRILL | MEHL: 32 | MACP: 3523

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR FROM 800 TO 2000					INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		DAVE D CROWLEY	12.00		DC
DERRICKHAND		DANNY S CROWLEY	12.00		DC
MOTORHAND		COREY ANDERSON	12.00		CA
FLOORHAND		BENGIE SWEET	12.00		BS
FLOORHAND		MIKE BELLAMY	12.00		MB
RIG MANAGER		DAVE CROWLEY			DC

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1		.27	
1	MOTOR	165	8.7
1	X/O	159	.52
1	MONEL	164	9.48
1	PULSER SUB	162	1.48
1	FLEX MONEL	162	9.5
1	FLEX MONEL	162	9.48
1	X/O	153	.39
1	SHOCK SUB	160	2.26
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
12	D.P.	STANDS	225.86
	D.P.	SINGLES	
	KELLY DOWN		11.82
	TOTAL		511.06
	WT. OF D.C.	22	
	WT. OF STRING	33	

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	86
TOTAL HRS RUN	3.75

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ____ WATER BASED ☐ OIL BASED ☐
TIME
DENSITY (kg/m3)
FUNNEL VISCOSITY
FLUID LOSS (cm3)
pH

SOLIDS CONTROL

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS: 1 HRS RUN 4 | BOILER pH 11 | STACK TEMP 370; 2 HRS RUN | BOILER pH | STACK TEMP

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
6500	152	110	152	

REDUCED PUMP SPEED: 2400 @ 65 @ 465

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION
458.2 | 1.9 | 2.5
476.97 | 4.3 | 19.6
495.76 | 6.7 | 17.4

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
445	511	D	50	5

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2015	0.25	25	BOP DRILL-WELL SECURE IN 95secs.
2015	2300	2.75	2	DRILL 445 TO 511
2300	2315	0.25	7	RIG SERVICE-FUNCTION ANNULAR-12secs. to close
2315	2400	0.75	10	ACCUMULATED SURVEYS

NOTES : FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: BOP DRILL | MEHL: 35 | MACP: 3523

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR FROM 2000 TO 2400					INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		JACK HUSTON	4.00	L3	JH
DERRICKHAND		KARL GEREIN	4.00		KG
MOTORHAND		IAN ROSS	4.00		IR
FLOORHAND		COURTNEY DODGE	4.00		CD
FLOORHAND		WILLIAM JONES	4.00		WJ

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60DEG9'35.5" 117DEG37'15.9"	300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE CROWLEY

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection	BN	DC
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required	BN	DC
(4.) Well Licence & Stick Diagram Posted	BN	DC
(5.) Flare Lines Staked	BN	DC
(6.) BOP Drills Performed	BN	
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines	BN	DC
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked		DC
(5.) Motor Kills Checked		

YEAR 2007 MONTH 1 DAY 20
RIG NO. 220
FUEL @ 08:00 HRS
RIG 201 BOILER

WEATHER: TEMPERATURE -23; CURRENT CONDITIONS CLEAR; WIND DIRECTION CALM; ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	219.1	205.7	35.72	IPSCO	J-55	32	425.49	.49	425

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	165	136	DC	57	165	41/2 XH	22	F-800	EMSCO	228.8
DP	102	43.2	HWDP	72	134	4FH	8	PZ-7	GARDNER DENVER	178
DP	102	23.38	SS/95	82	134	4FH	235			

SPUD DATE	2007/01/15
TIME	16:30
RIG RELEASE	
TIME	
WELL TYPE	DIR.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	76
TOUR SHEET SERIAL NUM	PREC220_20070120_1C
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2

PASON DATAHUB

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
TIME - HRS	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING						
MORN		7.0					0.25			0.75																	8.00
DAY		10.0					0.25			1.75																	12.00
EVE		3.0					0.25			0.75																	4.00
TOTAL		20.00					0.75			3.25																	24.00

SHALE SHAKER(S)		RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	CREW VEHICLE			
SCREENS CHANGED	NEW/ USED				
TOP 50	TOP				
MIDDLE	MIDDLE				
BOTTOM 50	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	20

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE CROWLEY	220

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ___ NO	1576

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.27
1	MOTOR	165	8.7
1	X/O	159	.52
1	MONEL	164	9.48
1	PULSER SUB	162	1.48
1	FLEX MONEL	162	9.5
1	FLEX MONEL	162	9.48
1	X/O	153	.39
1	SHOCK SUB	160	2.26
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
20	D.P. STANDS		376.5
1	D.P. SINGLES		9.4
KELLY DOWN			12.72
TOTAL			672.00
WT. OF D.C.	22		
WT. OF STRING	36		

MORNING TOUR

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	247
TOTAL HRS RUN	10.75

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ___ WATER BASED ☐ OIL BASED ☐
TIME
DENSITY (kg/m3)
FUNNEL VISCOSITY
FLUID LOSS (cm3)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
ALKAPAM 1103D	1	SX
ENVIROFLOC	5	SX

SOLIDS CONTROL

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
9600	152	110	152	

REDUCED PUMP SPEED: 2500 @ 65 @ 600

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
572	11.6	355.9
581.39	11.6	352.9

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
511	672	D	50	5

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	700	7.00	2	DRILL 511 TO 672
700	715	0.25	7	RIG SERVICE-FUNCTION ANNULAR-12secs. to close
715	800	0.75	10	ACCUMULATED SURVEYS

NOTES: FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			H2S	40	3523

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	8.00	L3		JH
DERRICKHAND		KARL GEREIN	8.00			KG
MOTORHAND		IAN ROSS	8.00			IR
FLOORHAND		COURTNEY DODGE	8.00			CD
FLOORHAND		WILLIAM JONES	8.00			WJ

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT

CREW SAFETY DAYS / DRIVERS

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.27
1	MOTOR	165	8.7
1	X/O	159	.52
1	MONEL	164	9.48
1	PULSER SUB	162	1.48
1	FLEX MONEL	162	9.5
1	FLEX MONEL	162	9.48
1	X/O	153	.39
1	SHOCK SUB	160	2.26
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
33	D.P. STANDS		621.1
	D.P. SINGLES		
KELLY DOWN			12.52
TOTAL			907.00
WT. OF D.C.	22		
WT. OF STRING	39		

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	482
TOTAL HRS RUN	20.75

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ___ WATER BASED ☐ OIL BASED ☐
TIME
DENSITY (kg/m3)
FUNNEL VISCOSITY
FLUID LOSS (cm3)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
ENVIROFLOC	7	SX
ALKAPAM 1103D	3	SX

SOLIDS CONTROL

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	12	HRS RUN	
BOILER pH	105	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
10000	152	110	152	

REDUCED PUMP SPEED: 3190 @ 64 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
656.52	9.4	349.2
675.34	10.9	349.2
694.15	11.1	348.3
750.51	10.3	352.5
788.03	10.2	356.4

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
672	907	D	40	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1800	10.00	2	DRILL F/672 TO 907
1800	1945	1.75	10	ACCUMULATED SURVEYS
1945	2000	0.25	7	RIG SERVICE FUNCTION TEST PIPES 3 SECS TO CLOSE CHECKED DRIVE SHAFT BOLTS

NOTES: FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKAGE AND ANCHOR

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			WEEKLY GOALS	45	3523

DAY TOUR FROM 800 TO 2000

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	12.00			DC
DERRICKHAND		DANNY S CROWLEY	12.00			DC
MOTORHAND		COREY ANDERSON	12.00			CA
FLOORHAND		BENGIE SWEET	12.00			BS
FLOORHAND		MIKE BELLAMY	12.00			MB
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT

CREW SAFETY DAYS / DRIVERS

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.27
1	MOTOR	165	8.7
1	X/O	159	.52
1	MONEL	164	9.48
1	PULSER SUB	162	1.48
1	FLEX MONEL	162	9.5
1	FLEX MONEL	162	9.48
1	X/O	153	.39
1	SHOCK SUB	160	2.26
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
36	D.P. STANDS		677.53
	D.P. SINGLES		
KELLY DOWN			13.30
TOTAL			964.21
WT. OF D.C.	22		
WT. OF STRING	42		

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	539
TOTAL HRS RUN	23.75

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ___ WATER BASED ☐ OIL BASED ☐
TIME
DENSITY (kg/m3)
FUNNEL VISCOSITY
FLUID LOSS (cm3)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
ENVIROFLOC	2	SX

SOLIDS CONTROL

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	4	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
10000	152		152	

REDUCED PUMP SPEED: 3200 @ 64 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
907	964	D	45	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2300	3.00	2	DRILL F/907 TO 964
2300	2315	0.25	7	RIG SERVICE-FUNCTION REMOTE CHOKE
2315	2400	0.75	10	ACCUMULATED SURVEYS

NOTES: FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				50	3523

EVENING TOUR FROM 2000 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	4.00	L3		JH
DERRICKHAND		KARL GEREIN	4.00			KG
MOTORHAND		IAN ROSS	4.00			IR
FLOORHAND		COURTNEY DODGE	4.00			CD
FLOORHAND		WILLIAM JONES	4.00			WJ

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT

CREW SAFETY DAYS / DRIVERS

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60DEG9'35.5" 117DEG37'15.9"	300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE CROWLEY

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection	BN	DC
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required	BN	DC
(4.) Well Licence & Stick Diagram Posted	BN	DC
(5.) Flare Lines Staked	BN	DC
(6.) BOP Drills Performed	BN	
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines	BN	DC
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked		DC
(5.) Motor Kills Checked		

YEAR 2007 MONTH 1 DAY 21
RIG NO. 220
FUEL @ 08:00 HRS
RIG 151 BOILER

WEATHER: TEMPERATURE -16; CURRENT CONDITIONS CLEAR; WIND DIRECTION CALM; ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	219.1	205.7	35.72	IPSCO	J-55	32	425.49	.49	425

	DC/ DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
	DC	165	136	DC	57	165	41/2 XH	22	F-800	EMSCO	228.8
	DP	102	43.2	HWDP	72	134	4FH	8	PZ-7	GARDNER DENVER	178
	DP	102	23.38	SS/95	82	134	4FH	235			

SPUD DATE	2007/01/15
TIME	16:30
RIG RELEASE	
TIME	
WELL TYPE	DIR.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	76
TOUR SHEET SERIAL NUM	PREC220_20070121_1C
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2

PASON DATAHUB

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
TIME - HRS	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING						
MORN		6.75					0.25			1.0																	8.00
DAY		10.0					0.25			1.75																	12.00
EVE		3.25					0.25			0.5																	4.00
TOTAL		20.00					0.75			3.25																	24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE	CREW VEHICLE			
SCREENS CHANGED		NEW/ USED				
TOP	50	TOP				
MIDDLE		MIDDLE				
BOTTOM	50	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	21

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE CROWLEY	220

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES / NO	1577

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.27
1	MOTOR	165	8.7
1	X/O	159	.52
1	MONEL	164	9.48
1	PULSER SUB	162	1.48
1	FLEX MONEL	162	9.5
1	FLEX MONEL	162	9.48
1	X/O	153	.39
1	SHOCK SUB	160	2.26
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
40	D.P. STANDS		753.25
1	D.P. SINGLES		9.39
KELLY DOWN			12.76
TOTAL			1048.78
WT. OF D.C.	22		
WT. OF STRING	44		

MORNING TOUR

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	623
TOTAL HRS RUN	30.5

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG 7 UP 5DOWN; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD: MUD TYPE ; WATER BASED ☐ OIL BASED ☐

TIME	
DENSITY (kg/m3)	
FUNNEL VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
ENVIROFLOC	6	SX

SOLIDS CONTROL — CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
10000	152	110	152	

REDUCED PUMP SPEED: 3100 @ 63 @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
964	1048	D	50	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	645	6.75	2	DRILL 964 TO 1048
645	700	0.25	7	RIG SERVICE-FUNCTION ANNULAR -12secs.TO CLOSE
700	800	1.00	10	ACCUMULATED SURVEYS

NOTES : FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				WEEKLY GOALS	50	3523

MORNING TOUR	FROM 0	TO 800		INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES / NO
DRILLER		JACK HUSTON	8.00	L3 / JH
DERRICKHAND		KARL GEREIN	8.00	KG
MOTORHAND		IAN ROSS	8.00	IR
FLOORHAND		COURTNEY DODGE	8.00	CD
FLOORHAND		WILLIAM JONES	8.00	WJ

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.27
1	MOTOR	165	8.7
1	X/O	159	.52
1	MONEL	164	9.48
1	PULSER SUB	162	1.48
1	FLEX MONEL	162	9.5
1	FLEX MONEL	162	9.48
1	X/O	153	.39
1	SHOCK SUB	160	2.26
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
48	D.P. STANDS		904
1	D.P. SINGLES		9.39
KELLY DOWN			12.23
TOTAL			1199.00
WT. OF D.C.	22		
WT. OF STRING	44		

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	774
TOTAL HRS RUN	40.5

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG 8UP 6 DWN; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD: MUD TYPE ; WATER BASED ☐ OIL BASED ☐

TIME	
DENSITY (kg/m3)	
FUNNEL VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
ENVIROFLOC	5	SX
GEL	8	SX
CAUSTIC	1	SX
ALKAPAM 1103D	1	SX
SODA ASH	6	SX

SOLIDS CONTROL — CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	12	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
11000	152	110	152	

REDUCED PUMP SPEED: 3230 @ 64 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1032.78	10.8	353.8
1070.37	9.7	357.1
1089.14	8.9	354.0
1108.29	9.1	357.8
1127.08	9.4	1.6
1136.49	9.5	1.2

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1048	1199	D	45	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1800	10.00	2	DRILL F/ 1048 TO 1199
1800	1815	0.25	7	RIG SERVICE FUNCTION PIPES 3 SECS TO CLOSE
1815	2000	1.75	10	ACCUMULATED SURVEYS

NOTES : FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKAGE ANCHOR
H2S ALARM 100 SECS TO SECURE WELL FALSE ALARM

SPECIAL EVENT	MUD UP			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH	1800	1175		CONNECTIONS	55	3523

DAY TOUR	FROM 800	TO 2000		INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES / NO
DRILLER		DAVE D CROWLEY	12.00	DC
DERRICKHAND		DANNY S CROWLEY	12.00	DC
MOTORHAND		COREY ANDERSON	12.00	CA
FLOORHAND		BENGIE SWEET	12.00	BS
FLOORHAND		MIKE BELLAMY	12.00	MB
RIG MANAGER		DAVE CROWLEY		DC

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.27
1	MOTOR	165	8.7
1	X/O	159	.52
1	MONEL	164	9.48
1	PULSER SUB	162	1.48
1	FLEX MONEL	162	9.5
1	FLEX MONEL	162	9.48
1	X/O	153	.39
1	SHOCK SUB	160	2.26
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
50	D.P. STANDS		951.2
1	D.P. SINGLES		9.39
KELLY DOWN			10.03
TOTAL			1244.00
WT. OF D.C.	22		
WT. OF STRING	44		

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	819
TOTAL HRS RUN	43.75

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG 7UP 5DOWN; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD: MUD TYPE ; WATER BASED ☐ OIL BASED ☐

TIME	2330
DENSITY (kg/m3)	1110
FUNNEL VISCOSITY	40
FLUID LOSS (cm3)	
pH	9

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
GEL	76	SX

SOLIDS CONTROL — CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	4	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	365	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
11000	152	110	152	

REDUCED PUMP SPEED: 3300 @ 63 @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1199	1244	D	45	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2315	3.25	2	DRILL F /1199 TO 1244
2315	2330	0.25	7	RIG SERVICE- FUNCTION REMOTE CHOKE
2330	2400	0.50	10	ACCUMULATED SURVEYS

NOTES : FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				MUD MOTORS	55	

EVENING TOUR	FROM 2000	TO 2400		INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES / NO
DRILLER		JACK HUSTON	4.00	L3 / JH
DERRICKHAND		KARL GEREIN	4.00	KG
MOTORHAND		IAN ROSS	4.00	IR
FLOORHAND		COURTNEY DODGE	4.00	CD
FLOORHAND		WILLIAM JONES	4.00	WJ

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60DEG9'35.5" 117DEG37'15.9"	300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE CROWLEY

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection	BN	DC
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required	BN	DC
(4.) Well Licence & Stick Diagram Posted	BN	DC
(5.) Flare Lines Staked	BN	DC
(6.) BOP Drills Performed	BN	DC
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines	BN	DC
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked	DC	
(5.) Motor Kills Checked		

YEAR 2007 MONTH 1 DAY 22
RIG NO. 220
FUEL @ 08:00 HRS: RIG 99 BOILER
WEATHER: TEMPERATURE -22; CURRENT CONDITIONS CLEAR; WIND DIRECTION CALM; ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	219.1	205.7	35.72	IPSCO	J-55	32	425.49	.49	425

	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	165	136	DC	57	165	41/2 XH	22	F-800	EMSCO	228.8
DP	102	43.2	HWDP	72	134	4FH	8	PZ-7	GARDNER DENVER	178
DP	102	23.38	SS/95	82	134	4FH	235			

SPUD DATE	2007/01/15
TIME	16:30
RIG RELEASE	
TIME	
WELL TYPE	DIR.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	76
TOUR SHEET SERIAL NUM	PREC220_20070122_1C
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2

PASON DATAHUB

CODE NO.	1 RIGUP & TEARDOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 BOP DRILL	23	24	25	26	TOTALS
TIME - HRS: MORN		7.25					0.25			0.5																	8.00
DAY		11.5					0.25			0.25																	12.00
EVE		3.25					0.25			0.25												0.25					4.00
TOTAL		22.00					0.75			1.00												0.25					24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE	CREW VEHICLE			
SCREENS CHANGED		NEW/ USED				
TOP 84		TOP				
MIDDLE		MIDDLE				
BOTTOM 84		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	22

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE CROWLEY	220

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ☐ NO	1578

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.27
1	MOTOR	165	8.7
1	X/O	159	.52
1	MONEL	164	9.48
1	PULSER SUB	162	1.48
1	FLEX MONEL	162	9.5
1	FLEX MONEL	162	9.48
1	X/O	153	.39
1	SHOCK SUB	160	2.26
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
50	D.P.	STANDS	998.07
1	D.P.	SINGLES	9.39
KELLY DOWN			12.76
TOTAL			1293.60

WT. OF D.C. 22
WT. OF STRING 45

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	868
TOTAL HRS RUN	51

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG 7UP 5DOWN; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MORNING TOUR — MUD RECORD

MUD TYPE: WATER BASED ☐ OIL BASED ☐

TIME	300	430	530
DENSITY (kg/m3)	1120	1120	1120
FUNNEL VISCOSITY	44	50	48
FLUID LOSS (cm3)	20	12	8
pH	9	9.5	10

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DRISPAC REG	2	SX
HUMALITE	3	SX
SODA ASH	2	SX
CAUSTIC	2	SX

SOLIDS CONTROL — CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
11000	152	110	152	

REDUCED PUMP SPEED: 3600 @ 61 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1244	1293	D	50	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	715	7.25	2	DRILL 1244 TO 1293
715	730	0.25	7	RIG SERVICE-FUNCTION ANNULAR -12secs. TO CLOSE
730	800	0.50	10	ACCUMULATED SURVEYS

NOTES: FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			LOADERT	55	3023

MORNING TOUR — CREW

FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO (INJURIES)
DRILLER		JACK HUSTON	8.00	L3		JH
DERRICKHAND		KARL GEREIN	8.00			KG
MOTORHAND		IAN ROSS	8.00			IR
FLOORHAND		COURTNEY DODGE	8.00			CD
FLOORHAND		WILLIAM JONES	8.00			WJ

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.27
1	MOTOR	165	8.7
1	X/O	159	.52
1	MONEL	164	9.48
1	PULSER SUB	162	1.48
1	FLEX MONEL	162	9.5
1	FLEX MONEL	162	9.48
1	X/O	153	.39
1	SHOCK SUB	160	2.26
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
58	D.P.	STANDS	1092.25
	D.P.	SINGLES	
KELLY DOWN			12.37
TOTAL			1378.00

WT. OF D.C. 22
WT. OF STRING 51

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	953
TOTAL HRS RUN	62.5

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG 7UP 5 DWN; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

DAY TOUR — MUD RECORD

MUD TYPE: GEL-CHEM WATER BASED ☒ OIL BASED ☐

TIME	700	1200	1630
DENSITY (kg/m3)	1125	1130	1120
FUNNEL VISCOSITY	48	48	50
FLUID LOSS (cm3)	8	9	9.5
pH	10.5	10.5	10.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
SODA ASH	6	SX
DRISPAC REG	2	SX
HUMALITE	4	SX
CAUSTIC	2	SX

SOLIDS CONTROL — CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	12	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
12600	152	110	152	

REDUCED PUMP SPEED: 3725 @ 61 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1340	10.9	353.3

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1293	1378	D	45	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1930	11.50	2	DRILL F/ 1293 TO 1378
1930	1945	0.25	10	DEVIATION SURVEY
1945	2000	0.25	7	RIG SERVICE FUNCTION TEST PIPE RAMS 3 SECS TO CLOSE

NOTES: FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKAGE AND ANCHOR

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			TORQUE	58	3106

DAY TOUR — CREW

FROM 800 TO 2000

CREW	SOC INS. NO.	NAME	HRS		YES	NO (INJURIES)
DRILLER		DAVE D CROWLEY	12.00			DC
DERRICKHAND		DANNY S CROWLEY	12.00			DC
MOTORHAND		COREY ANDERSON	12.00			CA
FLOORHAND		BENGIE SWEET	12.00			BS
FLOORHAND		MIKE BELLAMY	12.00			MB
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.27
1	MOTOR	165	8.7
1	X/O	159	.52
1	MONEL	164	9.48
1	PULSER SUB	162	1.48
1	FLEX MONEL	162	9.5
1	FLEX MONEL	162	9.48
1	X/O	153	.39
1	SHOCK SUB	160	2.26
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
59	D.P.	STANDS	1111.45
	D.P.	SINGLES	
KELLY DOWN			12.37
TOTAL			1397.20

WT. OF D.C. 22
WT. OF STRING 51

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	972
TOTAL HRS RUN	65.75

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG 10 UP 7 DOWN; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

EVENING TOUR — MUD RECORD

MUD TYPE: GEL-CHEM WATER BASED ☒ OIL BASED ☐

TIME	1830	2100	2330
DENSITY (kg/m3)	1125	1130	1120
FUNNEL VISCOSITY	51	75	55
FLUID LOSS (cm3)	10	12	12
pH	10.5	11	10.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DESCO		SX
SODA ASH		SX
HUMALITE		SX
DRISPAC REG		SX

SOLIDS CONTROL — CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	4	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
12200	152	110	152	

REDUCED PUMP SPEED: 3700 @ 61 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1378	1397	D	35	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2015	0.25	22	BOP DRILL -WELL SECURE IN 95 SECS.
2015	2330	3.25	2	DRILL 1378 TO 1397
2330	2345	0.25	10	ACCUMULATED SURVEYS
2345	2400	0.25	7	RIG SERVICE- FUNCTION REMOTE CHOKE

NOTES: FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			BOP DRILL	62	3023

EVENING TOUR — CREW

FROM 2000 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO (INJURIES)
DRILLER		JACK HUSTON	4.00	L3		JH
DERRICKHAND		CODY HYLAND	4.00			CH
MOTORHAND		GORD KENNEDY	4.00			GK
FLOORHAND		ALLAN BISHOP	4.00			AB
FLOORHAND		JAMIE HOMENIUCH	4.00			JH

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60DEG9'35.5" 117DEG37'15.9"	300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE CROWLEY

DAILY CHECKS

(1.) Daily Walk Around Inspection
(2.) Detailed Inspection - Weekly (Using Check List)
(3.) H2S Signs Posted if Required
(4.) Well Licence & Stick Diagram Posted
(5.) Flare Lines Staked
(6.) BOP Drills Performed
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines

(1.) Rig Site Health & Safety Meeting (one/crew/month)
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)
(3.) Mast Inspection before Raising or Lowering
(4.) Crown Saver Checked
(5.) Motor Kills Checked

OPR	R.M.
BN	DC
BN	DC
BN	DC
BN	DC
BN	
BN	DC
DC	

YEAR	MONTH	DAY
2007	1	23

RIG NO.	FUEL @ 08:00 HRS	
220		
RIG	BOILER	
150		

WEATHER: TEMPERATURE -24; CURRENT CONDITIONS CLEAR; WIND DIRECTION CALM; ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	219.1	205.7	35.72	IPSCO	J-55	32	425.49	.49	425

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	165	136	DC	57	165	41/2 XH	22	F-800	EMSCO	228.8
DP	102	43.2	HWDP	72	134	4FH	8	PZ-7	GARDNER DENVER	178
DP	102	23.38	SS/95	82	134	4FH	235			

SPUD DATE	2007/01/15
TIME	16:30
RIG RELEASE	2007/01/26
TIME	12:00
WELL TYPE	DIR.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	76
TOUR SHEET SERIAL NUM	PREC220_20070123_1D
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2

PASON DATAHUB

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
TIME - HRS	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING						
MORN		7.5					0.25			0.25																	8.00
DAY		0.5			0.5	8.75	0.25			0.25										1.5	0.25						12.00
EVE					1.0	2.75	0.25																				4.00
TOTAL		8.00			1.50	11.50	0.75			0.50										1.50	0.25							24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE	CREW VEHICLE			
SCREENS CHANGED		NEW/ USED				
TOP	84	TOP				
MIDDLE		MIDDLE				
BOTTOM	84	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	23

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE CROWLEY	220

PROVINCE	CAMP		RIG SAFETY DAYS
N.W.T.	X YES	NO	1579

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.27
1	MOTOR	165	8.7
1	X/O	159	.52
1	MONEL	164	9.48
1	PULSER SUB	162	1.48
1	FLEX MONEL	162	9.5
1	FLEX MONEL	162	9.48
1	X/O	153	.39
1	SHOCK SUB	160	2.26
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
62	D.P.	STANDS	1167.48
	D.P.	SINGLES	
KELLY DOWN			7.14
TOTAL			1448.00
WT. OF D.C.	22		
WT. OF STRING	51		

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	1023
TOTAL HRS RUN	73.25

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MORNING TOUR — MUD RECORD

MUD TYPE: GEL-CHEM — WATER BASED [X] OIL BASED [ ]

TIME	0200	0400	0600
DENSITY (kg/m3)	1110	1110	1110
FUNNEL VISCOSITY	51	60	70
FLUID LOSS (cm3)	13	13	13
pH	10	10	10

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
GEL	22	SX
CAUSTIC	2	SX
DESCO	4	SX
DRISPAC REG	1	SX
HUMALITE	1	SX
SODA ASH	50	SX

SOLIDS CONTROL — CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
	1120	1110	1660
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
12100	152	110	152	

REDUCED PUMP SPEED: 3800 @ 62 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1409.31	9.4	352.9

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1397	1448	D	30	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	730	7.50	2	DRILL 1397 TO 1448
730	745	0.25	7	RIG SERVICE-FUNCTION ANNULAR-12SECS.TO CLOSE
745	800	0.25	10	ACCUMULATED SURVEYS

NOTES : FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				NEW HANDS	65	3065

MORNING TOUR — DRILLING CREW

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	8.00	L3		JH
DERRICKHAND		CODY HYLAND	8.00			CH
MOTORHAND		GORD KENNEDY	8.00			GK
FLOORHAND		ALLAN BISHOP	8.00			AB
FLOORHAND		JAMIE HOMENIUCH	8.00			JH

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.27
1			
1	BIT SUB	165	.92
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
62	D.P.	STANDS	1167.48
	D.P.	SINGLES	
KELLY DOWN			12.14
TOTAL			1412.11
WT. OF D.C.	22		
WT. OF STRING	51		

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	10.28
TOTAL HRS RUN	73.75

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

DAY TOUR — MUD RECORD

MUD TYPE: GEL-CHEM — WATER BASED [X] OIL BASED [ ]

TIME	930
DENSITY (kg/m3)	1110
FUNNEL VISCOSITY	70
FLUID LOSS (cm3)	13
pH	10.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BARITE	20	SX

SOLIDS CONTROL — CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	12	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
12200	152	110	152	

REDUCED PUMP SPEED: 3825 @ 62 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1452	8.9	352.3

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1448	1453	D	45	7.5

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	830	0.50	2	DRILL F/ 1448 TO 1453
830	845	0.25	10	DEVIATION SURVEY
845	915	0.50	5	CIRC UP SAMPLE
915	1330	4.25	6	POOH FLOW CHECK AT 1453,1344,787, 191, 0
1330	1345	0.25	21	SAFETY MEETING WITH DIR HANDS
1345	1515	1.50	20	DIR. WORK LAY DWN TOOLS
1515	1900	3.75	6	RIH
1900	1915	0.25	7	RIG SERVICE FUNCTION TEST PIPES 3 SECS TO CLOSE
1915	2000	0.75	6	WASH TO BOTTOM

NOTES : FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKAGE AND ANCHOR
TRIP SHEET CAL 7.46 ACT 7.84 DIFF .38
FUNCTION TEST BLINDS WILE OUT OF HOLE 3SECS TO CLOSE

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				TRIPPING	67	3065

DAY TOUR — DRILLING CREW

DAY TOUR FROM 800 TO 2000

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	12.00			DC
DERRICKHAND		DANNY S CROWLEY	12.00			DC
MOTORHAND		COREY ANDERSON	12.00			CA
FLOORHAND		BENGIE SWEET	12.00			BS
FLOORHAND		MIKE BELLAMY	12.00			MB
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.27
1			
1	BIT SUB	165	.92
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
62	D.P.	STANDS	1167.48
	D.P.	SINGLES	
KELLY DOWN			12.14
TOTAL			1412.11
WT. OF D.C.	22		
WT. OF STRING	51		

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	1028
TOTAL HRS RUN	73.75

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

EVENING TOUR — MUD RECORD

MUD TYPE: [ ] WATER BASED [ ] OIL BASED [ ]

TIME	2000	2200
DENSITY (kg/m3)	1120	1120
FUNNEL VISCOSITY	65	75
FLUID LOSS (cm3)	13	13
pH	11	11

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL — CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	4	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
9500	152	120	152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2100	1.00	5	CONDITION MUD & CIRCULATE
2100	2115	0.25	7	RIG SERVICE-FUNCTION REMOTE CHOKE
2115	2400	2.75	6	POOH-FLOW CHECK AT 1447, AT 1350, AT 700

NOTES : FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					65	3065

EVENING TOUR — DRILLING CREW

EVENING TOUR FROM 2000 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	4.00	L3		JH
DERRICKHAND		CODY HYLAND	4.00			CH
MOTORHAND		GORD KENNEDY	4.00			GK
FLOORHAND		ALLAN BISHOP	4.00			AB
FLOORHAND		JAMIE HOMENIUCH	4.00			JH

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60DEG9'35.5" 117DEG37'15.9"	300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE CROWLEY

DAILY CHECKS

(1.) Daily Walk Around Inspection
(2.) Detailed Inspection - Weekly (Using Check List)
(3.) H2S Signs Posted if Required
(4.) Well Licence & Stick Diagram Posted
(5.) Flare Lines Staked
(6.) BOP Drills Performed
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines

(1.) Rig Site Health & Safety Meeting (one/crew/month)
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)
(3.) Mast Inspection before Raising or Lowering
(4.) Crown Saver Checked
(5.) Motor Kills Checked

OPR	R.M.
BN	DC
BN	DC
BN	DC
BN	DC
BN	DC
BN	DC
DC	

YEAR	MONTH	DAY
2007	1	24

RIG NO.	FUEL @ 08:00 HRS	
220		
RIG	BOILER	
96		

WEATHER: TEMPERATURE -10; CURRENT CONDITIONS CLEAR; WIND DIRECTION CALM; ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	219.1	205.7	35.72	IPSCO	J-55	32	425.49	.49	425

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	165	136	DC	57	165	41/2 XH	22	F-800	EMSCO	228.8
DP	102	43.2	HWDP	72	134	4FH	8	PZ-7	GARDNER DENVER	178
DP	102	23.38	SS/95	82	134	4FH	235			

SPUD DATE	2007/01/15
TIME	16:30
RIG RELEASE	
TIME	
WELL TYPE	DIR.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	76
TOUR SHEET SERIAL NUM	PREC220_20070124_1C
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2

PASON DATAHUB

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
	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING						
TIME - HRS: MORN						4.5	0.25		0.75		2.25										0.25						8.00
DAY					2.5	6.0	0.25				3.0										0.25						12.00
EVE						0.5	0.25				3.25																4.00
TOTAL					2.50	11.00	0.75		0.75		8.50										0.50						24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE	CREW VEHICLE			
SCREENS CHANGED		NEW/ USED				
TOP 84		TOP				
MIDDLE		MIDDLE				
BOTTOM 84		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	24

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE CROWLEY	220

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES / NO	1580

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
1	BIT	O.D.	.27
1			
1	BIT SUB	165	.92
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
	D.P.	STANDS	
	D.P.	SINGLES	
KELLY DOWN			
TOTAL			232.49
WT. OF D.C.	22		
WT. OF STRING	51		

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	1028
TOTAL HRS RUN	73.75

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MORNING TOUR

MUD RECORD

MUD TYPE: ; WATER BASED ☐ OIL BASED ☐

TIME	
DENSITY (kg/m3)	
FUNNEL VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BARITE	20	SX
GEL	10	SX

SOLIDS CONTROL — CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
	1453			

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
	152		152	

REDUCED PUMP SPEED: @ ; @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JACK HUSTON

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	200	2.00	6	POOH-FLOW CHECK AT 208 AND OUT OF HOLE
200	215	0.25	21	SAFETY MEETING
215	430	2.25	11	WIRELINE LOGS
430	445	0.25	7	RIG SERVICE- FUNCTION BLIND RAMS-3SECS TO CLOSE
445	600	1.25	6	RIH
600	645	0.75	9	CUT OFF DRILLING LINE
645	800	1.25	6	RIH

NOTES : HOLE FILL-ACT. 7.64 / CAL. 7.09
STRAP- 1453.59 / BOARD-1453.0

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			LOGGING		

MORNING TOUR	FROM 0	TO 800		INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES / NO
DRILLER		JACK HUSTON	8.00 L3	JH
DERRICKHAND		CODY HYLAND	8.00	CH
MOTORHAND		GORD KENNEDY	8.00	GK
FLOORHAND		ALLAN BISHOP	8.00	AB
FLOORHAND		JAMIE HOMENIUCH	8.00	JH

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
1	BIT	O.D.	.27
1			
1	BIT SUB	165	.92
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
	D.P.	STANDS	
	D.P.	SINGLES	
KELLY DOWN			
TOTAL			232.49
WT. OF D.C.	22		
WT. OF STRING	51		

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	1028
TOTAL HRS RUN	73.75

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

DAY TOUR

MUD RECORD

MUD TYPE: GEL-CHEM ; WATER BASED ☒ OIL BASED ☐

TIME	1200
DENSITY (kg/m3)	1110
FUNNEL VISCOSITY	90
FLUID LOSS (cm3)	14
pH	10

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BARITE	22	SX
CAUSTIC	1	SX
HUMALITE	1	SX
GEL	20	SX
SODA ASH	7	SX

SOLIDS CONTROL — CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	12	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	370	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
9900	152	110	152	

REDUCED PUMP SPEED: 3371 @ 63 @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: DAVE D CROWLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	930	1.50	6	FINISH RUNNING IN BRIDGE AT 768
930	945	0.25	6	KELLY UP WASH TOBOTTOM
945	1000	0.25	7	RIG SERVICE FUNCTION PIPES 3 SECS TO CLOSE-F/ANNULAR-12SECS. TO CLOSE
1000	1230	2.50	5	CONDITION MUD & CIRCULATE
1230	1645	4.25	6	POOH FLOW CHECK @ 1453,1349,736,152,0
1645	1700	0.25	21	SAFETY MEETING WITH LOGGERS
1700	2000	3.00	11	WIRELINE LOGS
2000				

NOTES : FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKAGE AND ANCHOR
TRIP SHEET CAL 7.09 ACT 7.34 DIFF .25
VISUALY INSPECT BRAKE LINGAGE AND BRAKE BANDS RM. DC.

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			LOGGING	55	3106

DAY TOUR	FROM 800	TO 2000		INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES / NO
DRILLER		DAVE D CROWLEY	12.00	DC
DERRICKHAND		DANNY S CROWLEY	12.00	DC
MOTORHAND		COREY ANDERSON	12.00	CA
FLOORHAND		BENGIE SWEET	12.00	BS
FLOORHAND		MIKE BELLAMY	12.00	MB
RIG MANAGER		DAVE CROWLEY		DC

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
1	BIT	O.D.	.27
1			
1	BIT SUB	165	.92
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
	D.P.	STANDS	
	D.P.	SINGLES	
KELLY DOWN			
TOTAL			232.49
WT. OF D.C.	22		
WT. OF STRING	51		

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS56S
SERIAL NO.	1921
JETS	6X 10.3
DEPTH OUT (m)	
DEPTH IN (m)	425
TOTAL DRILLED (m)	1028
TOTAL HRS RUN	73.75

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

EVENING TOUR

MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	4	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
	152		152	

REDUCED PUMP SPEED: @ ; @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JACK HUSTON

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2315	3.25	11	WIRELINE LOGS
2315	2330	0.25	7	RIG SERVICE-HELD MAN DOWN DRILL
2330	2400	0.50	6	RIH
				LOG THE WELL WITH COMPENSATED SONIC,PHOTO DENSITY
				MICROLOG,DUAL SPACED NEUTRON FROM 1453.3 TO 425 MKB

NOTES : FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			MAN DOWN DRILL		3106

EVENING TOUR	FROM 2000	TO 2400		INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES / NO
DRILLER		JACK HUSTON	4.00 L3	JH
DERRICKHAND		CODY HYLAND	4.00	CH
MOTORHAND		GORD KENNEDY	4.00	GK
FLOORHAND		ALLAN BISHOP	4.00	AB
FLOORHAND		JAMIE HOMENIUCH	4.00	JH

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR NAME: PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION: 60DEG9'35.5" 117DEG37'15.9"	UNIQUE ID: 300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE: BRIAN NEIGUM	SIGNATURE OF CONTRACTOR'S RIG MANAGER: DAVE CROWLEY

DAILY CHECKS

(1.) Daily Walk Around Inspection
(2.) Detailed Inspection - Weekly (Using Check List)
(3.) H2S Signs Posted if Required
(4.) Well Licence & Stick Diagram Posted
(5.) Flare Lines Staked
(6.) BOP Drills Performed
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines

(1.) Rig Site Health & Safety Meeting (one/crew/month)
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)
(3.) Mast Inspection before Raising or Lowering
(4.) Crown Saver Checked
(5.) Motor Kills Checked

OPR	R.M.
BN	DC
BN	DC
BN	DC
BN	DC
BN	DC
DC	

YEAR	MONTH	DAY
2007	1	25

RIG NO. 220

FUEL @ 08:00 HRS: RIG 55 | BOILER

WEATHER: TEMPERATURE -7 | CURRENT CONDITIONS OVERCAST | WIND DIRECTION S.E. | ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	219.1	205.7	35.72	IPSCO	J-55	32	425.49	.49	425
	139.7	125.7	23.07	IPSCO	J-55	107	1453.52	.22	1453.3

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	165	136	DC	57	165	41/2 XH	22	F-800	EMSCO	228.8
DP	102	43.2	HWDP	72	134	4FH	8	PZ-7	GARDNER DENVER	178
DP	102	23.38	SS/95	82	134	4FH	235			

SPUD DATE	2007/01/15
TIME	16:30
RIG RELEASE	2007/01/26
TIME	12:00
WELL TYPE	DIR.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	76
TOUR SHEET SERIAL NUM	PREC220_20070125_1E
VENDOR SOFTWARE VERSION	EDR 3-2-3 HF2 ETS 2.2

PASON DATAHUB

TIME - HRS

CODE NO.	1 RIGUP & TEARDOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26	TOTALS
MORN					1.0	6.75	0.25																				8.00
DAY					1.75	3.25	0.25					6.5									0.25						12.00
EVE					0.25							2.0		1.5							0.25						4.00
TOTAL					3.00	10.00	0.50					8.50		1.50							0.50						24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE	CREW VEHICLE			
SCREENS CHANGED	NEW/ USED					
TOP 84	TOP					
MIDDLE	MIDDLE					
BOTTOM 84	BOTTOM					

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	25

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE CROWLEY	220

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES / NO	1581

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.27
1			
1	BIT SUB	165	.92
12	D.C.	165	113.29
1	JAR	160	5.13
4	D.C.	165	37.33
1	X/O	159	.69
8	H.W.D.P.	102	74.86
	D.P. STANDS		
	D.P. SINGLES		
KELLY DOWN			
TOTAL			232.49
WT. OF D.C.	22		
WT. OF STRING	51		

MORNING TOUR

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☐

TIME	0400
DENSITY (kg/m3)	1140
FUNNEL VISCOSITY	90
FLUID LOSS (cm3)	13
pH	10

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BARITE	20	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
	152		152	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
	1453			

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	230	2.50	6	RIH
230	330	1.00	5	CONDITION MUD & CIRCULATE
330	345	0.25	7	RIG SERVICE- FUNNCTION ANNULAR-12SECS. TO CLOSE
345	800	4.25	6	LAY DOWN PIPE-FLOW CHECK AT 1447,1350, 750

NOTES : FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				60	2940

MORNING TOUR	FROM 0	TO 800		INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	4.00	L3		JH
DERRICKHAND		CODY HYLAND	4.00			CH
MOTORHAND		GORD KENNEDY	4.00			GK
FLOORHAND		ALLAN BISHOP	4.00			AB
FLOORHAND		JAMIE HOMENIUCH	4.00			JH

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P. STANDS		
	D.P. SINGLES		
KELLY DOWN			
TOTAL			
WT. OF D.C.			
WT. OF STRING			

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☐

TIME	
DENSITY (kg/m3)	
FUNNEL VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
HUMALITE	1	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	12	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
2720	152	94	152	

REDUCED PUMP SPEED: 1645 | @ | 65 | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1115	3.25	6	LAY DWN PIPE
1115	1130	0.25	21	SAFETY MEETING
1130	1800	6.50	12	RUN CASING
1800	1945	1.75	5	CONDITION MUD & CIRCULATE
1945	2000	0.25	7	RIG SERVICE FUNCTION BLIND RAMS WILE OUT OF HOLE 3 SECS TO CLOSE

NOTES : ELEVATORS CIRT #55576
TRIP CAL 7.09 ACT 7.53 DIFF .44
FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKAGE AND ANCHOR

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			CASING	35	2940

DAY TOUR	FROM 800	TO 2000		INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	12.00			DC
DERRICKHAND		DANNY S CROWLEY	12.00			DC
MOTORHAND		COREY ANDERSON	12.00			CA
FLOORHAND		BENGIE SWEET	12.00			BS
FLOORHAND		MIKE BELLAMY	12.00			MB
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P. STANDS		
	D.P. SINGLES		
KELLY DOWN			
TOTAL			
WT. OF D.C.			
WT. OF STRING			

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

Ti	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	4	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
	152		152	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2015	0.25	5	CONDITION MUD & CIRCULATE
2015	2030	0.25	21	SAFETY MEETING WITH CEMENTERS
2030	2230	2.00	12	CEMENT
2230	2400	1.50	14	NIPPLE DOWN BOPS
				CEMENT THE PRODUCTION CASING WITH 21.5 TONNE OF THIXLITE +1% SMS
				& 14 TONNE OF EXPANDOMIX LWL +.1% CF-L-3,.2% LTR .2% SPC-2. WE GOT BACK 6.5M3
				GOOD CEMENT RETURN'S. PLUG DOWN AT 22:08 JAN 25/06.

NOTES :

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					

EVENING TOUR	FROM 2000	TO 2400		INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	4.00	L3		JH
DERRICKHAND		CODY HYLAND	4.00			CH
MOTORHAND		GORD KENNEDY	4.00			GK
FLOORHAND		ALLAN BISHOP	4.00			AB
FLOORHAND		JAMIE HOMENIUCH	4.00			JH

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

LICENCE NO.	WELL NAME & NO.
2045	Para Et Ai Cameron L-40 60 deg 10 117 deg 30
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
60DEG9'35.5" 117DEG37'15.9"	300L406010117300
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE CROWLEY

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection	BN	DC
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required	BN	DC
(4.) Well Licence & Stick Diagram Posted	BN	DC
(5.) Flare Lines Staked		
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines		
(1.) Rig Site Health & Safety Meeting (one/crew/month)		
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		DC
(4.) Crown Saver Checked		DC
(5.) Motor Kills Checked		

YEAR	MONTH	DAY
2007	1	26

RIG NO.	FUEL @ 08:00 HRS	
220	RIG	BOILER
	55	

WEATHER: TEMPERATURE -20; CURRENT CONDITIONS OVERCAST; WIND DIRECTION S.E.; ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	219.1	205.7	35.72	IPSCO	J-55	32	425.49	.49	425
	139.7	125.7	23.07	IPSCO	J-55	107	1453.52		

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
DC	165	136	DC	57	165	41/2 XH	22
DP	102	43.2	HWDP	72	134	4FH	8
DP	102	23.38	SS/95	82	134	4FH	235

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F-800	EMSCO	228.8
PZ-7	GARDNER DENVER	178

SPUD DATE	2007/01/15	TIME	16:30
RIG RELEASE	2007/01/26	TIME	12:00
WELL TYPE	DIR.	RE-ENTRY	NO
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	76		
TOUR SHEET SERIAL NUM	PREC220_20070126_1C		
VENDOR SOFTWARE VERSION	EDR 3-2-4 ETS 2.2		

CAODC

PASON DATAHUB

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
TIME - HRS	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING						
MORN	6.0													2.0													8.00
DAY	4.0																										4.00
EVE																											
TOTAL	10.00													2.00													12.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE	CREW VEHICLE			
SCREENS CHANGED		NEW/ USED				
TOP 84		TOP				
MIDDLE		MIDDLE				
BOTTOM 84		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Para Et Ai Cameron L-40 60 deg 10 117 deg 30	2007	1	26

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC

RIG MANAGER	RIG NO.
DAVE CROWLEY	220

PROVINCE	CAMP		RIG SAFETY DAYS
N.W.T.	X YES	NO	1582

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		JACK HUSTON	12.00	L3		JH
DERRICKHAND		CODY HYLAND	12.00			CH
MOTORHAND		GORD KENNEDY	12.00			GK
FLOORHAND		ALLAN BISHOP	12.00			AB
FLOORHAND		JAMIE HOMENIUCH	8.00			JH

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
	152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
	1453			

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	200	2.00	14	NIPPLE DOWN BOPS- SET SLIPS
200	800	6.00	1	RIG OUT

NOTES :

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH						

DAY TOUR — FROM 800 TO 2000

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		DAVE D CROWLEY	4.00			DC
DERRICKHAND		DANNY S CROWLEY	4.00			DC
MOTORHAND		COREY ANDERSON	4.00			CA
FLOORHAND		BENGIE SWEET	4.00			BS
FLOORHAND		MIKE BELLAMY	4.00			MB
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	12	HRS RUN	
BOILER pH	11	BOILER pH	
STACK TEMP	370	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
	152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1200	4.00	1	TEAR DOWN
				VISUALY INSPECT DERICK AND LAY DOWN DC.
				RIG RELEASED 12:00 HRS JAN 26 2007

NOTES :

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH						

EVENING TOUR — FROM 2000 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO

RATE SCHEDULE		REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS:

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

Ti	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	0	HRS RUN	
BOILER pH		BOILER pH	
STACK TEMP		STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
	152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE:

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

NOTES :

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH						