LICENCE NO.	WELL NAME & NO.
2048	PARA ET AL CAMERON E-72
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
E-72-60 DEG-10-117 DEG-15	300E726010117150
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN NEIGUM	DAVE CROWLEY

DAILY CHECKS

	OPR BN	R.M. DC
(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 2 DAY 22

RIG NO. 220

FUEL @ 08:00 HRS: RIG 62 | BOILER

WEATHER: TEMPERATURE -32; CURRENT CONDITIONS OVERCAST; WIND DIRECTION S.W.; 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	2007/02/24
TIME	04:30
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	79
TOUR SHEET SERIAL NUM	PREC220_20070222_1D
VENDOR SOFTWARE VERSION	EDR 3-2-4 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 W.O.D.	23	24	25	26	TOTALS
TIME - HRS MORN	8.0																										8.00
DAY	12.0																										12.00
EVE																						4.0					4.00
TOTAL	20.00																					4.00					24.00

SHALE SHAKER(S) NO. 1	TYPE SWACO	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
SCREENS CHANGED	NEW/ USED		CREW VEHICLE			
TOP 38		TOP				
MIDDLE		MIDDLE				
BOTTOM 38		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
PARA ET AL CAMERON E-72	2007	2	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	1609

MORNING TOUR

BIT RECORD: 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

BOILERS: 1 — HRS RUN 8; 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

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
0000	800	8.00	1	TEAR DOWN READY FOR MORNING MOVE

NOTES :

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

INJURIES		
MORNING TOUR	FROM 0000	TO 0800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	8.00			DC
DERRICKHAND		DANNY S CROWLEY	8.00			DC
MOTORHAND		COREY ANDERSON	8.00			CA
FLOORHAND		MIKE BELLAMY	8.00			MB
FLOORHAND		BRECK PICHE	8.00			BP

RATE SCHEDULE: X REGULAR | ___ REPAIR | ___ INVERT

CREW SAFETY DAYS | DRIVERS: DAVE D CROWLEY

DAY TOUR

BIT RECORD: 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

BOILERS: 1 — HRS RUN 0; 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

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
0800	2000	12.00	1	TEAR DOWN TEAR OUT RIG LOAD UP MOVE TO NEW LOCATION

NOTES :

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

INJURIES		
DAY TOUR	FROM 0800	TO 2000

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	12.00			JH
DERRICKHAND		KARL GEREIN	12.00			KG
MOTORHAND		IAN ROSS	12.00			IR
FLOORHAND		WILL WINTER	12.00			WW
FLOORHAND		BENGIE SWEET	12.00			BS
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE: X REGULAR | ___ REPAIR | ___ INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR

BIT RECORD: 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

BOILERS: 1 — HRS RUN 0; 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

REDUCED PUMP SPEED: @ ___ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: DAVE CROWLEY

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 DAYLIGHT TO MOVE

NOTES :

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

INJURIES		
EVENING TOUR	FROM 2000	TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO

RATE SCHEDULE: X REGULAR | ___ REPAIR | ___ INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
2048	PARA ET AL CAMERON E-72

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	**UNIQUE ID**
E-72-60 DEG-10-117 DEG-15	300E726010117150
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**
BRIAN NEIGUM	DAVE CROWLEY

DAILY CHECKS

Check	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		
(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	RIG NO.
2007	2	23	220

FUEL @ 08:00 HRS — RIG: 62 — BOILER:

WEATHER — TEMPERATURE: -32 — CURRENT CONDITIONS: OVERCAST — WIND DIRECTION: S.W. — 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	2007/02/24	TIME	04:30
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	79		
TOUR SHEET SERIAL NUM	PREC220_20070223_1C		
VENDOR SOFTWARE VERSION	EDR_3-2-4_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																						8.0					8.00
DAY	12.0																										12.00
EVE	4.0																										4.00
TOTAL	16.00																					8.00					24.00

SHAKE SHAKER(S) NO.	TYPE	TYPE
1	SWACO	
SCREENS CHANGED		NEW/USED
TOP	38	TOP
MIDDLE		MIDDLE
BOTTOM	38	BOTTOM

RENTALS / SERVICES	MORN	DAY	EVE
CREW VEHICLE			

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
PARA ET AL CAMERON E-72	2007	2	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	1610

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

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

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	0	
BOILER pH		
STACK TEMP		

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

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 CROWLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	800	8.00	22	W.O.D. TO SET UP RIG

NOTES :

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

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS:

DAY TOUR

BIT RECORD / DRILLING ASSEMBLY / HOLE CONDITION / MUD RECORD / MUD MATERIALS ADDED / SOLIDS CONTROL: (blank)

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

METRES DRILLED / CIRCULATION PRESSURE / REDUCED PUMP SPEED / DEVIATION SURVEYS: (blank)

DRILLER SIGNATURE: JACK HUSTON

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	2000	12.00	1	RIG UP ON NEW LOCATION
				VISUALY INSPECT DERICK AND RAISE DC.

NOTES :

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

DAY TOUR FROM 800 TO 2000

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		JACK HUSTON	16.00	L3		JH
DERRICKHAND		KARL GEREIN	16.00			KG
MOTORHAND		IAN ROSS	16.00			IR
FLOORHAND		WILL WINTER	10.00			WW
FLOORHAND		BENGIE SWEET	10.00			BS
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

EVENING TOUR

BIT RECORD / DRILLING ASSEMBLY / HOLE CONDITION / MUD RECORD / MUD MATERIALS ADDED / SOLIDS CONTROL: (blank)

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

METRES DRILLED / CIRCULATION PRESSURE / REDUCED PUMP SPEED / DEVIATION SURVEYS: (blank)

DRILLER SIGNATURE: DAVE D CROWLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
2000	2200	2.00	1	RIG UP FLOOR, KELLY, PRE-FABS
2200	2400	2.00	1	RIG UP DIVERTER, AND LINES TO FLARE STACK

NOTES :

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

EVENING TOUR FROM 2000 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		DAVE D CROWLEY	10.00			DC
DERRICKHAND		DANNY S CROWLEY	10.00			DC
MOTORHAND		COREY ANDERSON	10.00			CA
FLOORHAND		BRECK PICHE	10.00			BP

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

LICENCE NO.	WELL NAME & NO.
2048	PARA ET AL CAMERON E-72
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
E-72-60 DEG-10-117 DEG-15	300E726010117150
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		
(4.) Crown Saver Checked	DC	
(5.) Motor Kills Checked		

YEAR 2007 MONTH 2 DAY 24

RIG NO. 220

FUEL @ 08:00 HRS: RIG 196 BOILER

WEATHER: TEMPERATURE -23; CURRENT CONDITIONS OVERCAST; WIND DIRECTION S.W.; 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	2007/02/24	TIME	04:30
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	79		
TOUR SHEET SERIAL NUM	PREC220_20070224_1C		
VENDOR SOFTWARE VERSION	EDR 3-2-4 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	4.0	3.5					0.25														0.25						8.00
DAY		6.5			1.0		0.25			0.25																	8.00
EVE		5.0				1.75	0.25			1.0																	8.00
TOTAL	4.00	15.00			1.00	1.75	0.75			1.25											0.25						24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE				
SCREENS CHANGED		NEW/ USED				
TOP	38	TOP				
MIDDLE		MIDDLE				
BOTTOM	38	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.		YEAR	MONTH	DAY
PARA ET AL CAMERON E-72		2007	2	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	1611		

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	8.00			DC
DERRICKHAND		DANNY S CROWLEY	8.00			DC
MOTORHAND		COREY ANDERSON	8.00			CA
FLOORHAND		KEVIN DRINKWATER	8.00			KD
FLOORHAND		BRECK PICHE	8.00			BP

RATE SCHEDULE: X REGULAR; REPAIR; INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1	BIT		.34
1	BIT SUB	218	1.1
2	9 IN. DC	218	18.54
1	BELL SUB	201	.95
1	X/O	154	.92
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		12.15
	TOTAL		34.00
	WT. OF D.C.	10	
	WT. OF STRING	10	

BIT NO.	1A	
SIZE	311	
IADC CODE		
MANUFACTURER	VAREL	
TYPE	MXC1	
SERIAL NO.	5039817	
JETS	3X	12.7
DEPTH OUT (m)		
DEPTH IN (m)	13	
TOTAL DRILLED (m)	21	
TOTAL HRS RUN	3.5	

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)

MORNING TOUR — MUD RECORD

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

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

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
GEL	13	SX
SODA ASH	4	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: 1130

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
	105		

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
13	34	D	150	4

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	400	4.00	1	FLANGE UP DIVERTER RUN LINES TO FLARE STACK MEASURE OUT BHA AND MAKE UP
400	415	0.25	21	SAFETY MEETING PRE SPUD
415	430	0.25	7	RIG SERVICE FUNCTION TEST MOTOR KILLS
430	800	3.50	2	DRILL F/13 TO 34

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

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				PRE SPUD	25	

DAY TOUR — FROM 800 TO 1600

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		WILL WINTER	12.00			WW
FLOORHAND		BENGIE SWEET	12.00			BS
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE: X REGULAR; REPAIR; INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1	BIT		.34
1	BIT SUB	218	1.1
2	9 IN. DC	218	18.54
1	BELL SUB	201	.95
1	X/O	154	.67
4	D.C.	161	37.66
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		13.04
	TOTAL		72.30
	WT. OF D.C.	16	
	WT. OF STRING	16	

BIT NO.	1A	
SIZE	311	
IADC CODE		
MANUFACTURER	VAREL	
TYPE	MXC1	
SERIAL NO.	5039817	
JETS	3X	12.7
DEPTH OUT (m)		
DEPTH IN (m)	13	
TOTAL DRILLED (m)	59	
TOTAL HRS RUN	10	

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
GEL	80	SX
SODA ASH	6	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: 6200

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
152	90	152	90

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
40	.28	

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
34	72	D	180	5

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	900	1.00	5	CONDITION MUD -MIX GEL
900	1415	5.25	2	DRILL 34 TO 53-GRAVEL FROM 32m TO 45m
1415	1430	0.25	10	DEVIATION SURVEY AT 40m
1430	1545	1.25	2	DRILL 53 TO 72
1545	1600	0.25	7	RIG SERVICE

NOTES: VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				ICE	40	

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	4.00			DC
DERRICKHAND		DANNY S CROWLEY	4.00			DC
MOTORHAND		COREY ANDERSON	4.00			CA
FLOORHAND		KEVIN DRINKWATER	4.00			KD
FLOORHAND		BRECK PICHE	4.00			BP

RATE SCHEDULE: X REGULAR; REPAIR; INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1	BIT		.34
1	BIT SUB	218	1.1
2	9 IN. DC	218	18.54
1	BELL SUB	201	.95
1	X/O	154	.67
14	D.C.	161	131.93
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		12.47
	TOTAL		166.00
	WT. OF D.C.	22	
	WT. OF STRING	22	

BIT NO.	1A			
SIZE	311	311		
IADC CODE				
MANUFACTURER	VAREL			
TYPE	MXC1	CHSIGMS		
SERIAL NO.	5039817	192271		
JETS	3X	12.7	12.7	12.7
			12.7	
DEPTH OUT (m)	81			
DEPTH IN (m)	13	81		
TOTAL DRILLED (m)	68.00	85		
TOTAL HRS RUN	11	4		

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR
5	5	FC	A	E	1	NO	DEV	6.18

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

EVENING TOUR — MUD RECORD

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

TIME	2000	2200	2330
DENSITY (kg/m3)	1210	1220	1225
FUNNEL VISCOSITY	49	45	48
FLUID LOSS (cm3)			
pH	10	10.5	10.5

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	365	STACK TEMP	

CIRCULATION PRESSURE kPa: 9270

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
152	95	152	95

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
68	1.10	
90	.28	
118	1.01	
147	.61	

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
72	166	D	180	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1700	1.00	2	DRILL 72 TO 81
1700	1715	0.25	10	DEVIATION SURVEY
1715	1900	1.75	6	TRIP FOR BIT
1900	2000	1.00	2	DRILL 81 TO 100
2000	2015	0.25	10	DEVIATION SURVEY
2015	2030	0.25	7	RIG SERVICE FUNCTION TEST ANNULAR 12 SECS TO CLOSE
2030	2130	1.00	2	DRILL F/100 TO 128
2130	2145	0.25	10	DEVIATION SURVEY
2145	2330	1.75	2	DRILL F/128 TO157
2330	2345	0.25	10	DEVIATION SURVEY
2345	0000	0.25	2	DRILL F/157 TO 166

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

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				WEEKLY GOALS	25	

LICENCE NO.	WELL NAME & NO.
2048	PARA ET AL CAMERON E-72
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
E-72-60 DEG-10-117 DEG-15	300E726010117150
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		
(4.) Crown Saver Checked	DC	
(5.) Motor Kills Checked		

YEAR 2007 MONTH 2 DAY 25

RIG NO. 220

FUEL @ 08:00 HRS: RIG 145 BOILER

WEATHER: TEMPERATURE -23; CURRENT CONDITIONS OVERCAST; WIND DIRECTION S.W.; 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	2007/02/24
TIME	04:30
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	79
TOUR SHEET SERIAL NUM	PREC220_20070225_1C
VENDOR SOFTWARE VERSION	EDR 3-2-4 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		4.25			0.25	2.75	0.25			0.5																	8.00
DAY		6.5					0.25			1.25																	8.00
EVE		3.25			0.5	3.5	0.25			0.5																	8.00
TOTAL		14.00			0.75	6.25	0.75			2.25																	24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE	CREW VEHICLE			
SCREENS CHANGED		NEW/ USED				
TOP 38		TOP				
MIDDLE		MIDDLE				
BOTTOM 38		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
PARA ET AL CAMERON E-72	2007	2	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	1612

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1	BIT SUB	218	1.1
2	9 IN. DC	218	18.54
1	BELL SUB	201	.95
1	X/O	154	.67
16	D.C.	161	150.98
1	X/O	153	.69
6	H.W.D.P.	132	56.15
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		12.58
	TOTAL		242.00

WT. OF D.C. 22

WT. OF STRING 26

MORNING TOUR

BIT RECORD

BIT NO.	2A	3A
SIZE	311	311
IADC CODE		
MANUFACTURER	VAREL	VAREL
TYPE	CHSIGMS	CHIGJMS
SERIAL NO.	192271	214325
JETS	12.7 12.7 3X 12.7 / 12.7	
DEPTH OUT (m)	185	
DEPTH IN (m)	81	185
TOTAL DRILLED (m)	104.00	57
TOTAL HRS RUN	5.75	2.5

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR
4	4	WT	A	3		WT	DEV	20

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

MUD RECORD

MUD TYPE ___ WATER BASED ☐ OIL BASED ☐

TIME	200	400	600
DENSITY (kg/m3)	1230	1230	1235
FUNNEL VISCOSITY	49	47	48
FLUID LOSS (cm3)			
pH	10.5	10.5	10.5

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	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
166	242	D	180	5

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
9400	152	95	152	95

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
173	1.71	
195	.26	

DRILLER SIGNATURE: DAVE D CROWLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	130	1.50	2	DRILL F/166 TO 184
130	145	0.25	10	DEVIATION SURVEY
145	200	0.25	2	DRILL F/184 TO 185
200	215	0.25	5	CIRCULATE
215	230	0.25	7	RIG SERVICE
230	515	2.75	6	BIT TRIP
515	630	1.25	2	DRILL F/185 TO 204
630	645	0.25	10	DEVIATION SURVEY
645	800	1.25	2	DRILL F/204 TO 242

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

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				NEW GUYS	35	

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	8.00			DC
DERRICKHAND		DANNY S CROWLEY	8.00			DC
MOTORHAND		COREY ANDERSON	8.00			CA
FLOORHAND		KEVIN DRINKWATER	8.00			KD
FLOORHAND		BRECK PICHE	8.00			BP

INJURIES

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	BIT SUB	218	1.1
2	9 IN. DC	218	18.54
1	BELL SUB	201	.95
1	X/O	154	.67
16	D.C.	161	150.98
1	X/O	153	.69
8	H.W.D.P.	132	74.97
6	D.P.	STANDS	113.15
	D.P.	SINGLES	
	KELLY DOWN		12.76
	TOTAL		374.15

WT. OF D.C. 22

WT. OF STRING 32

DAY TOUR

BIT RECORD

BIT NO.	3A
SIZE	311
IADC CODE	
MANUFACTURER	VAREL
TYPE	CHIGJMS
SERIAL NO.	214325
JETS	3X 12.7
DEPTH OUT (m)	
DEPTH IN (m)	185
TOTAL DRILLED (m)	189
TOTAL HRS RUN	9.0

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	1000	1300	1700
DENSITY (kg/m3)	1240	1180	1140
FUNNEL VISCOSITY	34	45	40
FLUID LOSS (cm3)			
pH	9.5	9.5	9.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DRILLING DETERGENT	1	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	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
242	374	D	180	9

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
9000	152	100	152	100

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
220	.32	
248	1.23	
267	.59	
295	.72	
323	.76	
352	.91	

DRILLER SIGNATURE: JACK HUSTON

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	900	1.00	2	DRILL 242 TO 261
900	915	0.25	10	DEVIATION SURVEY AT 248
915	1000	0.75	2	DRILL 261 TO 279
1000	1015	0.25	10	DEVIATION SURVEY AT 267
1015	1130	1.25	2	DRILL 279 TO 308
1130	1145	0.25	10	DEVIATION SURVEY AT 295
1145	1300	1.25	2	DRILL 308 TO 336
1300	1315	0.25	10	DEVIATION SURVEY AT 323
1315	1445	1.50	2	DRILL 336 TO 364
1445	1500	0.25	10	DEVIATION SURVEY AT 352
1500	1515	0.25	7	RIG SERVICE
1515	1600	0.75	2	DRILL 364 TO 374

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

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				TONGS	45	

DAY TOUR FROM 800 TO 1600

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		WILL WINTER	12.00			WW
FLOORHAND		BENGIE SWEET	12.00			BS
RIG MANAGER		DAVE CROWLEY				DC

INJURIES

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1	BIT SUB	218	1.1
2	9 IN. DC	218	18.54
1	BELL SUB	201	.95
1	X/O	154	.67
16	D.C.	161	150.98
1	X/O	153	.69
8	H.W.D.P.	132	74.97
9	D.P.	STANDS	169.53
1	D.P.	SINGLES	9.4
	KELLY DOWN		7.83
	TOTAL		435.00

WT. OF D.C. 22

WT. OF STRING 33

EVENING TOUR

BIT RECORD

BIT NO.	3A
SIZE	311
IADC CODE	
MANUFACTURER	VAREL
TYPE	CHIGJMS
SERIAL NO.	214325
JETS	3X 12.7
DEPTH OUT (m)	
DEPTH IN (m)	185
TOTAL DRILLED (m)	250
TOTAL HRS RUN	9.0

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	1900		
DENSITY (kg/m3)	1130		
FUNNEL VISCOSITY	65		
FLUID LOSS (cm3)			
pH	10		

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	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
374	435	D	180	9

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
5500	152	120	152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
380	.44	
408	.53	

DRILLER SIGNATURE: DAVE D CROWLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1700	1.00	2	DRILL 374 TO 392
1700	1715	0.25	10	DEVIATION SURVEY AT 380
1715	1845	1.50	2	DRILL 392 TO 421
1845	1900	0.25	10	DEVIATION SURVEY AT 408
1900	1930	0.50	2	DRILL 421 TO 430
1930	2000	0.50	5	CIRC HOLE CLEAN
2000	2330	3.50	6	WIPER TRIP
2330	2345	0.25	7	RIG SERVICE
2345	0000	0.25	2	DRILL F/430 TO 435

NOTES : FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE
STRAP 430.53 BOARD 430.53

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				LAYING DWN COLLARS	45	

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	4.00			DC
DERRICKHAND		DANNY S CROWLEY	4.00			DC
MOTORHAND		COREY ANDERSON	4.00			CA
FLOORHAND		KEVIN DRINKWATER	4.00			KD
FLOORHAND		BRECK PICHE	4.00			BP

INJURIES

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

LICENCE NO.	WELL NAME & NO.
2048	PARA ET AL CAMERON E-72
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
E-72-60 DEG-10-117 DEG-15	300E726010117150
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 2007 MONTH 2 DAY 26

RIG NO. 220

FUEL @ 08:00 HRS: RIG 132 BOILER

WEATHER: TEMPERATURE -16; CURRENT CONDITIONS OVERCAST; WIND DIRECTION S.W.; 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	35.7	IPSCO	J-55	32	435.53	.53	435

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	2007/02/24
TIME	04:30
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	79
TOUR SHEET SERIAL NUM	PREC220_20070226_1C
VENDOR SOFTWARE VERSION	EDR 3-2-4 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					2.25	3.0	0.25			0.25		2.0									0.25						8.00
DAY												1.5	4.0	1.25							0.25	1.0					8.00
EVE							0.25							5.25	0.75						0.25	1.5					8.00
TOTAL					2.25	3.00	0.50			0.25		3.50	4.00	6.50	0.75						0.75	2.50					24.00

RENTALS / SERVICES			MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE	CREW VEHICLE		
SCREENS CHANGED		NEW/ USED			
TOP 38		TOP			
MIDDLE		MIDDLE			
BOTTOM 38		BOTTOM			

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
PARA ET AL CAMERON E-72	2007	2	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	1613

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.34
1	BIT SUB	218	1.1
2	9 IN. DC	218	18.54
1	BELL SUB	201	.95
1	X/O	154	.67
16	D.C.	161	150.98
1	X/O	153	.69
8	H.W.D.P.	132	74.97
9	D.P. STANDS		169.53
1	D.P. SINGLES		9.4
KELLY DOWN			7.83
TOTAL			435.00
WT. OF D.C.	22		
WT. OF STRING	33		

BIT RECORD

BIT NO.	3A
SIZE	311
IADC CODE	
MANUFACTURER	VAREL
TYPE	CHIGJMS
SERIAL NO.	214325
JETS	3X 12.7
DEPTH OUT (m)	
DEPTH IN (m)	185
TOTAL DRILLED (m)	250
TOTAL HRS RUN	9.0

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR
5	5	WT	A	3		WT	TD	33

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
DESCO	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
445	152	90	152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
430	1.1	

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
	435			

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0030	0.50	5	CONDITION MUD & CIRCULATE
0030	0045	0.25	10	DEVIATION SURVEY
0045	100	0.25	7	RIG SERVICE
100	400	3.00	6	POOH LAY DWN 9 INCH DC
400	415	0.25	21	SAFETY MEETING
415	615	2.00	12	RUN CASING
615	800	1.75	5	CONDITION MUD & CIRCULATE

NOTES : FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKAGE AND ANCHOR
ELEVATORS CIRT #H-12908

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			CASING	43	

MORNING TOUR — CREW

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	8.00			DC
DERRICKHAND		DANNY S CROWLEY	8.00			DC
MOTORHAND		COREY ANDERSON	8.00			CA
FLOORHAND		KEVIN DRINKWATER	8.00			KD
FLOORHAND		BRECK PICHE	8.00			BP

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

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			

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)

DAY TOUR — 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
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

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	21	SAFETY MEETING WITH CEMENTERS
815	945	1.50	12	CEMENT CASING
945	1345	4.00	13	WAIT ON CEMENT
1345	1500	1.25	14	CUT CONDUCTOR-LAY DOWN DIVERTER
1500	1600	1.00	22	WELD ON BOWL
				CEMENT THE CASING WITH 32 TONNE OF 0-10 G WITH 1.5% CACL2
				PLUG DOWN AT 09:20 HRS. WE GOT BACK 5M3 OF CEMENT CONTAMINATED WITH MUD.

NOTES :

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					

DAY TOUR — CREW

DAY TOUR FROM 800 TO 1600

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		WILL WINTER	12.00			WW
FLOORHAND		BENGIE SWEET	12.00			BS
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
	D.P. STANDS		
	D.P. SINGLES		
KELLY DOWN			
TOTAL			
WT. OF D.C.			
WT. OF STRING			

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)

EVENING TOUR — 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
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
	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
1600	1730	1.50	22	WELD ON BOWL
1730	2245	5.25	14	NIPPLE UP B.O.P.
2245	2300	0.25	21	SAFETY MEETING WITH PRESSURE TESTER
2300	2315	0.25	7	RIG SERVICE
2315	0000	0.75	15	PRESSURE TEST BLIND RAMS AND HCR 1500/10500 FOR 15 MIN'S.

NOTES :

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					

EVENING TOUR — CREW

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	4.00			DC
DERRICKHAND		DANNY S CROWLEY	4.00			DC
MOTORHAND		COREY ANDERSON	4.00			CA
FLOORHAND		KEVIN DRINKWATER	4.00			KD
FLOORHAND		BRECK PICHE	4.00			BP

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

LICENCE NO.	WELL NAME & NO.
2048	PARA ET AL CAMERON E-72
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
E-72-60 DEG-10-117 DEG-15	300E726010117150
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 2 DAY 27
RIG NO. 220
FUEL @ 08:00 HRS
RIG 96 BOILER

WEATHER: TEMPERATURE -19; CURRENT CONDITIONS OVERCAST; WIND DIRECTION S.W.; 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	35.7	IPSCO	J-55	32	435.53	.53	435

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	2007/02/24
TIME	04:30
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	79
TOUR SHEET SERIAL NUM	PREC220_20070227_1C
VENDOR SOFTWARE VERSION	EDR 3-2-4 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	DRILL OUT	BOP DRILL				
MORN						2.75			1.0						3.25							0.75	0.25				8.00
DAY		3.25			0.25	3.0	0.25			0.25					0.5							0.25	0.25				8.00
EVE		7.0					0.25			0.5													0.25				8.00
TOTAL		10.25			0.25	5.75	0.50		1.00	0.75					3.75							1.00	0.75				24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE	CREW VEHICLE			
SCREENS CHANGED		NEW/ USED				
TOP	38	TOP				
MIDDLE		MIDDLE				
BOTTOM	38	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
PARA ET AL CAMERON E-72	2007	2	27

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	1614

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.28
1	TORQUE SUB	160	1.97
1	D.C.	161	9.38
1	STAB	191	1.61
1	SHOCK SUB	161	2.12
11	D.C.	163	103.72
1	JAR	159	4.95
4	D.C.	163	37.53
1	X/O	159	.69
8	H.W.D.P.	101	74.97
	D.P.	STANDS	
	D.P.	SINGLES	
KELLY DOWN			
TOTAL			237.22
WT. OF D.C.			
WT. OF STRING			

MORNING TOUR

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS55
SERIAL NO.	2426
JETS	7X 9.5
DEPTH OUT (m)	
DEPTH IN (m)	435
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

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	

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: DAVE D CROWLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	315	3.25	15	PRESSURE TEST ANNULAR,PIPES,MANUALL HCR VALVE,STAB VALVE,INSIDE BOP
				UPPER AND LOWER KELLY COCK,KILL LINE VALVES,CHOKE LIN AND ALL MANIFOLD VALVES
				1500 KPA LOW 10500 KPA HIGH TESTS HELD FOR 15 MINUITES
				FUNCTION TEST MOTOR KILLS
315	515	2.00	6	MAKE UP BHA RIH
515	615	1.00	9	CUT OFF DRILLING LINE AND AJUST BRAKE HANDLE
615	0700	0.75	6	FINISH RIH
0700	0715	0.25	23	BOP DRILL
0715	0800	0.75	22	DRILL OUT

NOTES: FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKIGE AND ANCHOR
N2 BACK UP #1-1400KPA #2-14500KPA #3-15400KPA

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				PRESSURE TESTING		

MORNING TOUR	FROM 0	TO 800		INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES / NO
DRILLER		DAVE D CROWLEY	8.00	DC
DERRICKHAND		DANNY S CROWLEY	8.00	DC
MOTORHAND		COREY ANDERSON	8.00	CA
FLOORHAND		KEVIN DRINKWATER	8.00	KD
FLOORHAND		BRECK PICHE	8.00	BP

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
1			.28
1	TORQUE SUB	160	1.97
1	D.C.	161	9.38
1	STAB	191	1.61
1	SHOCK SUB	161	2.12
11	D.C.	163	103.72
1	JAR	159	4.95
4	D.C.	163	37.53
1	X/O	159	.69
8	H.W.D.P.	101	74.97
16	D.P.	STANDS	301.44
	D.P.	SINGLES	
KELLY DOWN			6.34
TOTAL			545.00
WT. OF D.C.	20		
WT. OF STRING	30		

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS55
SERIAL NO.	2426
JETS	7X 9.5
DEPTH OUT (m)	
DEPTH IN (m)	435
TOTAL DRILLED (m)	110
TOTAL HRS RUN	3.25

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: PRODUCT | AMOUNT | UNIT

SOLIDS CONTROL

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

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	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
435	545	D	80	7

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
4400	152	100	152	

REDUCED PUMP SPEED: 1960 @ 66 @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION
519 | .71

DRILLER SIGNATURE: JACK HUSTON

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	23	BOP DRILL -WELL SECURE IN 95 SECS.
815	830	0.25	22	DRILL OUT
830	845	0.25	2	DRILL 435 TO 447
845	900	0.25	5	CIRCULATE
900	930	0.50	15	FORMATION LEAK OFF TEST
930	1230	3.00	6	POOH-FLOW CHECK AT 435,AT 174 AND OUT OF HOLE
1230	1500	2.50	2	DRILL 447 TO 532
1500	1515	0.25	10	DEVIATION SURVEY AT 519
1515	1530	0.25	7	RIG SERVICE-FUNCTION PIPE RAMS - 3SECS. TO CLOSE
1530	1600	0.50	2	DRILL 532 TO 545

NOTES: FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE
HOLE FILL- ACT. 3.89 / CAL. 3.78

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				BOP DRILL	35	3563

DAY TOUR	FROM 800	TO 1600		INJURIES
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		WILL WINTER	12.00	WW
FLOORHAND		BENGIE SWEET	12.00	BS
RIG MANAGER		DAVE CROWLEY		DC

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.28
1	TORQUE SUB	160	1.97
1	D.C.	161	9.38
1	STAB	191	1.61
1	SHOCK SUB	161	2.12
11	D.C.	163	103.72
1	JAR	159	4.95
4	D.C.	163	37.53
1	X/O	159	.69
8	H.W.D.P.	101	74.97
25	D.P.	STANDS	470.88
	D.P.	SINGLES	9.39
KELLY DOWN			12.51
TOTAL			730.00
WT. OF D.C.	20		
WT. OF STRING	33		

BIT RECORD

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS55
SERIAL NO.	2426
JETS	7X 9.5
DEPTH OUT (m)	
DEPTH IN (m)	435
TOTAL DRILLED (m)	295
TOTAL HRS RUN	10.25

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: PRODUCT | AMOUNT | UNIT

SOLIDS CONTROL

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

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	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
545	730	D	80	8

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
5671	152	105	152	

REDUCED PUMP SPEED: 2073 @ 66 @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION
617 | .93
644 | .38

DRILLER SIGNATURE: DAVE D CROWLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2000	4.00	2	DRILL 545 TO 627
2000	2015	0.25	10	DEVIATION SURVEY
2015	2130	1.25	2	DRILL F/627 TO654
2130	2145	0.25	10	DEVIATION SURVEY
2145	2200	0.25	7	RIG SERVICE FUNCTION TEST ANNULAR 12 SECS TO CLOSE
2200	2215	0.25	2	DRILL F/654 TO 673
2215	2230	0.25	23	BOP DRILL WELL SECURE IN 90 SECS
2230	0000	1.50	2	DRILL F/673 TO 730

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

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				BOP DRILL	37	3563

EVENING TOUR	FROM 1600	TO 2400		INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES / NO
DRILLER		DAVE D CROWLEY	4.00	DC
DERRICKHAND		DANNY S CROWLEY	4.00	DC
MOTORHAND		COREY ANDERSON	4.00	CA
FLOORHAND		KEVIN DRINKWATER	4.00	KD
FLOORHAND		BRECK PICHE	4.00	BP

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

LICENCE NO.	WELL NAME & NO.
2048	PARA ET AL CAMERON E-72

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
E-72-60 DEG-10-117 DEG-15	300E726010117150
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 2 DAY 28

RIG NO. 220

FUEL @ 08:00 HRS: RIG 109 BOILER

WEATHER: TEMPERATURE -22; CURRENT CONDITIONS LIGHT SNOW; WIND DIRECTION S.W.; 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	35.7	IPSCO	J-55	32	435.53	.53	435

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	2007/02/24
TIME	04:30
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	79
TOUR SHEET SERIAL NUM	PREC220_20070228_1C
VENDOR SOFTWARE VERSION	EDR 3-2-4 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		7.25					0.25			0.5																	8.00
DAY		7.5								0.5																	8.00
EVE		5.25			0.5	2.0				0.25																	8.00
TOTAL		20.00			0.50	2.00	0.25			1.25																	24.00

SHALE SHAKER(S)		RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	CREW VEHICLE			
SCREENS CHANGED	NEW/ USED				
TOP 38	TOP				
MIDDLE	MIDDLE				
BOTTOM 38	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
PARA ET AL CAMERON E-72	2007	2	28

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	1615

MORNING TOUR — BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.28
1	TORQUE SUB	160	1.97
1	D.C.	161	9.38
1	STAB	191	1.61
1	SHOCK SUB	161	2.12
11	D.C.	163	103.72
1	JAR	159	4.95
4	D.C.	163	37.53
1	X/O	159	.69
8	H.W.D.P.	101	74.97
33	D.P. STANDS		621.67
	D.P. SINGLES		
KELLY DOWN			3.11
TOTAL			862.00
WT. OF D.C.	20		
WT. OF STRING	35		

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS55
SERIAL NO.	2426
JETS	7X 9.5
DEPTH OUT (m)	
DEPTH IN (m)	435
TOTAL DRILLED (m)	427
TOTAL HRS RUN	17.5

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)

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
GEL	35	SX
SODA ASH	1	SX
SAWDUST	6	SX
ENVIROFLOC	8	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
5940	152	100	152	

REDUCED PUMP SPEED: 2404 @ 65 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
738	.84	
834	.23	

DRILLER SIGNATURE: DAVE D CROWLEY

MORNING TOUR — METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
730	862	D	100	7.5

MORNING TOUR — TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0045	0.75	2	DRILL F/730 TO 749
0045	100	0.25	10	DEVIATION SURVEY
100	600	5.00	2	DRILL F/749 TO 844
600	615	0.25	7	RIG SERVICE FUNCTION TEST ANNULAR 12 SECS TO CLOSE
615	630	0.25	10	DEVIATION SURVEY
630	800	1.50	2	DRILL 844 TO 862

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

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				CONNECTIONS	40	3563

MORNING TOUR — CREW

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	8.00			DC
DERRICKHAND		DANNY S CROWLEY	8.00			DC
MOTORHAND		COREY ANDERSON	8.00			CA
FLOORHAND		KEVIN DRINKWATER	8.00			KD
FLOORHAND		BRECK PICHE	8.00			BP

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

DAY TOUR — BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.28
1	TORQUE SUB	160	1.97
1	D.C.	161	9.38
1	STAB	191	1.61
1	SHOCK SUB	161	2.12
11	D.C.	163	103.72
1	JAR	159	4.95
4	D.C.	163	37.53
1	X/O	159	.69
8	H.W.D.P.	101	74.97
45	D.P. STANDS		847.57
1	D.P. SINGLES		9.39
KELLY DOWN			12.84
TOTAL			1107.02
WT. OF D.C.	20		
WT. OF STRING	40		

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS55
SERIAL NO.	2426
JETS	7X 9.5
DEPTH OUT (m)	
DEPTH IN (m)	435
TOTAL DRILLED (m)	672
TOTAL HRS RUN	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)

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
GEL	67	SX
ENVIROFLOC	2	SX
SODA ASH	6	SX
CAUSTIC	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	8	HRS RUN	
BOILER pH	11.0	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
7900	152	100	152	

REDUCED PUMP SPEED: 2300 @ 65 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
887	.83	
990	.69	

DRILLER SIGNATURE: JACK HUSTON

DAY TOUR — METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
862	1107	D	100	8

DAY TOUR — TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	845	0.75	2	DRILL 862 TO 909
845	900	0.25	10	DEVIATION SURVEY AT 887-LOSSES .62m3 OVER 18mins.
900	1245	3.75	2	DRILL ACTUAL 909 TO 1003
1245	1300	0.25	10	DEVIATION SURVEY AT 990 - LOSSES - .22M3 OVER 18mins.
1300	1600	3.00	2	DRILL 1003 TO 1107

NOTES: FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE
START TO MUD UP AT 1515hrs./1080m

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				CONNECTIONS	45	3563

DAY TOUR — CREW

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		WILL WINTER	12.00			WW
FLOORHAND		BENGIE SWEET	12.00			BS
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

EVENING TOUR — BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.28
1	TORQUE SUB	160	1.97
1	D.C.	161	9.38
1	STAB	191	1.61
1	SHOCK SUB	161	2.12
11	D.C.	163	103.72
1	JAR	159	4.95
4	D.C.	163	37.53
1	X/O	159	.69
8	H.W.D.P.	101	74.97
50	D.P. STANDS		941.8
1	D.P. SINGLES		9.58
KELLY DOWN			4.4
TOTAL			1193.00
WT. OF D.C.	20		
WT. OF STRING	40		

BIT NO.	1
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS55
SERIAL NO.	2426
JETS	7X 9.5
DEPTH OUT (m)	
DEPTH IN (m)	435
TOTAL DRILLED (m)	758
TOTAL HRS RUN	30.25

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)

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	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
9000	152	102	152	

REDUCED PUMP SPEED: 3236 @ 62 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1094	.59	

DRILLER SIGNATURE: DAVE D CROWLEY

EVENING TOUR — METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1107	1193	D	100	6

EVENING TOUR — TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	10	DEVIATION SURVEY at 1094-LOSSES - .21m3 OVER 23mins
1615	2130	5.25	2	DRILL 1107 TO 1193
2130	2200	0.50	5	CIRCULATE
2200	0000	2.00	6	BIT TRIP FLOW CHECK @1188,1110, TIGHT @1000-850

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

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				TRIPPIN	53	3563

EVENING TOUR — CREW

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	4.00			DC
DERRICKHAND		DANNY S CROWLEY	4.00			DC
MOTORHAND		COREY ANDERSON	4.00			CA
FLOORHAND		KEVIN DRINKWATER	4.00			KD
FLOORHAND		BRECK PICHE	4.00			BP

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

LICENCE NO.	WELL NAME & NO.
2048	PARA ET AL CAMERON E-72
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
E-72-60 DEG-10-117 DEG-15	300E726010117150
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
DC	

YEAR 2007 MONTH 3 DAY 1
RIG NO. 220
FUEL @ 08:00 HRS
RIG 199 BOILER

WEATHER
TEMPERATURE -22
CURRENT CONDITIONS LIGHT SNOW
WIND DIRECTION S.W.
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	35.7	IPSCO	J-55	32	435.53	.53	435

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	2007/02/24
TIME	04:30
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	79
TOUR SHEET SERIAL NUM	PREC220_20070301_1C
VENDOR SOFTWARE VERSION	EDR 3-2-4 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		1.75			0.25	5.5	0.25			0.25																	8.00
DAY		7.5					0.25			0.25																	8.00
EVE		7.0			0.5		0.25			0.25																	8.00
TOTAL		16.25			0.75	5.50	0.75			0.75																	24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE	CREW VEHICLE			
SCREENS CHANGED		NEW/ USED				
TOP 105		TOP				
MIDDLE		MIDDLE				
BOTTOM 105		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
PARA ET AL CAMERON E-72	2007	3	1

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	1616

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.28
1	TORQUE SUB	160	1.97
1	D.C.	161	9.38
1	STAB	191	1.61
1	SHOCK SUB	161	2.12
11	D.C.	163	103.72
1	JAR	159	4.95
4	D.C.	163	37.53
1	X/O	159	.69
8	H.W.D.P.	101	74.97
51	D.P. STANDS		951.38
	D.P. SINGLES		9.35
KELLY DOWN			12.05
TOTAL			1210.00

WT. OF D.C. 20
WT. OF STRING 42

MORNING TOUR

BIT RECORD

BIT NO.	2
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS65
SERIAL NO.	2734
JETS	5X 11.1
DEPTH OUT (m)	
DEPTH IN (m)	1193
TOTAL DRILLED (m)	17
TOTAL HRS RUN	1.75

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR
0	4	BT	G		1		PR	

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE | WATER BASED [ ] | OIL BASED [ ]

TIME			600
DENSITY (kg/m3)			1110
FUNNEL VISCOSITY			35
FLUID LOSS (cm3)			
pH			9.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
GEL	10	SX
DRISPAC REG	1	SX
HUMALITE	2	SX
SAWDUST	10	SX
BARITE	12	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
2	1140	1130	1820
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8	1010	1000	

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
8417	152	102	152	

REDUCED PUMP SPEED: 3236 @ 62 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1190	.79	

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1193	1210	D	100	6

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	230	2.50	6	bit trip continued FLOW CHECK@649,237,0
230	245	0.25	7	RIG SERVICE FUNCTION TEST BLINDS 3 SECS TO CLOSE
245	545	3.00	6	RIH
545	600	0.25	5	FILL PIPE WASH SINGLE DWN
600	745	1.75	2	DRILL F/1193 TO 1210
745	800	0.25	10	DEVIATION SURVEY

NOTES : TRIP SHEET CAL 6.25/ACT 6.44
FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKAGE AND ANCHOR
STRAP 1193.03/BOARD 1193

SPECIAL EVENT					SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					trippin	50	3435

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	8.00			DC
DERRICKHAND		DANNY S CROWLEY	8.00			DC
MOTORHAND		COREY ANDERSON	8.00			CA
FLOORHAND		KEVIN DRINKWATER	8.00			KD
FLOORHAND		BRECK PICHE	8.00			BP

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
1			.28
1	TORQUE SUB	160	1.97
1	D.C.	161	9.38
1	STAB	191	1.61
1	SHOCK SUB	161	2.12
11	D.C.	163	103.72
1	JAR	159	4.95
4	D.C.	163	37.53
1	X/O	159	.69
8	H.W.D.P.	101	74.97
58	D.P. STANDS		1092.44
	D.P. SINGLES		
KELLY DOWN			9.34
TOTAL			1339.00

WT. OF D.C. 20
WT. OF STRING 45

BIT RECORD

BIT NO.	2
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS65
SERIAL NO.	2734
JETS	5X 11.1
DEPTH OUT (m)	
DEPTH IN (m)	1193
TOTAL DRILLED (m)	146
TOTAL HRS RUN	9.25

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	1000	1500	1900
DENSITY (kg/m3)	1135	1130	1120
FUNNEL VISCOSITY	45	46	65
FLUID LOSS (cm3)	12	9	12
pH	10.5	10.5	10.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
CAUSTIC	4	SX
DRISPAC REG	2	SX
ALKAPAM 1103D	3	SX
HUMALITE	3	SX
GEL	10	SX
DESCO	1	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8	1130	1120	1780
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8	1010	1000	

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
7500	152	100	152	

REDUCED PUMP SPEED: 3300 @ 64 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1301	.45	

DRILLER SIGNATURE: JACK HUSTON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1210	1339	D	80	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1330	5.50	2	DRILL 1210 TO 1314
1330	1345	0.25	10	DEVIATION SURVEY AT 1301
1345	1400	0.25	7	RIG SERVICE-FUNCTION ANNULAR 12secs. TO CLOSE
1400	1600	2.00	2	DRILL 1314 TO 1339

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

SPECIAL EVENT					SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					LOADER	50	2965

DAY TOUR FROM 800 TO 1600

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		WILL WINTER	12.00			WW
FLOORHAND		BENGIE SWEET	12.00			BS
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.28
1	TORQUE SUB	160	1.97
1	D.C.	161	9.38
1	STAB	191	1.61
1	SHOCK SUB	161	2.12
11	D.C.	163	103.72
1	JAR	159	4.95
4	D.C.	163	37.53
1	X/O	159	.69
8	H.W.D.P.	101	74.97
61	D.P. STANDS		1148.89
1	D.P. SINGLES		9.57
KELLY DOWN			12.32
TOTAL			1408.00

WT. OF D.C. 20
WT. OF STRING 46

BIT RECORD

BIT NO.	2
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS65
SERIAL NO.	2734
JETS	5X 11.1
DEPTH OUT (m)	1408
DEPTH IN (m)	1193
TOTAL DRILLED (m)	215.00
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 GEL-CHEM | WATER BASED [X] | OIL BASED [ ]

TIME	2100	2300	
DENSITY (kg/m3)	1130	1130	
FUNNEL VISCOSITY	95	90	
FLUID LOSS (cm3)	12	12	
pH	10.5	10.5	
CALCIUM		580	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DESCO	2	SX
GEL	7	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8	1130	1120	1795
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8	1010	1000	

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
8564	152	102	152	

REDUCED PUMP SPEED: 5659 @ 55 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1398	.13	

DRILLER SIGNATURE: DAVE D CROWLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1339	1408	D	80	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2300	7.00	2	DRILL 1339 TO 1408
2300	2330	0.50	5	CONDITION MUD & CIRCULATE UP SAMPLE
2330	2345	0.25	7	RIG SERVICE FUNCTION TEST PIPES 3 SECS TO CLOSE
2345	0000	0.25	10	DEVIATION SURVEY

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

SPECIAL EVENT					SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					PIPE SPINNER	47	2965

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	4.00			DC
DERRICKHAND		DANNY S CROWLEY	4.00			DC
MOTORHAND		COREY ANDERSON	4.00			CA
FLOORHAND		KEVIN DRINKWATER	4.00			KD
FLOORHAND		BRECK PICHE	4.00			BP

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

LICENCE NO.	WELL NAME & NO.
2048	PARA ET AL CAMERON E-72
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
E-72-60 DEG-10-117 DEG-15	300E726010117150
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
DC	

YEAR	MONTH	DAY
2007	3	2

RIG NO. 220

FUEL @ 08:00 HRS

RIG	BOILER
142	

WEATHER: TEMPERATURE -41; CURRENT CONDITIONS OVERCAST; WIND DIRECTION S.W.; 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	35.7	IPSCO	J-55	32	435.53	.53	435

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	2007/02/24
TIME	04:30
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	79
TOUR SHEET SERIAL NUM	PREC220_20070302_1C
VENDOR SOFTWARE VERSION	EDR 3-2-4 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					2.5	5.25	0.25																				8.00
DAY					1.75	5.0					1.0										0.25						8.00
EVE						1.5	0.25				6.25																8.00
TOTAL					4.25	11.75	0.50				7.25										0.25						24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE	CREW VEHICLE			
SCREENS CHANGED		NEW/ USED				
TOP 105		TOP				
MIDDLE		MIDDLE				
BOTTOM 105		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
PARA ET AL CAMERON E-72	2007	3	2

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	1617

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.28
1	TORQUE SUB	160	1.97
1	D.C.	161	9.38
1	STAB	191	1.61
1	SHOCK SUB	161	2.12
11	D.C.	163	103.72
1	JAR	159	4.95
4	D.C.	163	37.53
1	X/O	159	.69
8	H.W.D.P.	101	74.97
61	D.P. STANDS		1148.89
1	D.P. SINGLES		9.57
KELLY DOWN			12.32
TOTAL			1408.00

WT. OF D.C. 20
WT. OF STRING 46

MORNING TOUR

BIT RECORD

BIT NO.	2
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS65
SERIAL NO.	2734
JETS	5X 11.1
DEPTH OUT (m)	1408
DEPTH IN (m)	1193
TOTAL DRILLED (m)	215.00
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

PRODUCT	AMOUNT	UNIT
ALKAPAM 1103D	3	SX
ENVIROFLOC	48	SX
BARITE	22	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	360	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
	1408			

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
8486	152	102	152	

REDUCED PUMP SPEED: 5200 @ 57 @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: DAVE D CROWLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	215	2.25	6	WIPER TRIP FLOW CHECK @1395,1318,1000
215	315	1.00	5	CONDITION MUD & CIRCULATE
315	615	3.00	6	WIPER TRIP#2 @ 1395,1308,926
615	630	0.25	7	RIG SERVICE FUNCTION ANNULAR 12 SEC TO CLOSE
630	800	1.50	5	CONDITION MUD & CIRCULATE

NOTES: FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKAGE AND ANCOR
TRIP SHEET CAL 1.36 ACT 1.42
TRIP SHEET #2 CAL 1.24/ACT 1.4

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			TRIPPIN	50	3008

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	8.00			DC
DERRICKHAND		DANNY S CROWLEY	8.00			DC
MOTORHAND		COREY ANDERSON	8.00			CA
FLOORHAND		KEVIN DRINKWATER	8.00			KD
FLOORHAND		BRECK PICHE	8.00			BP

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

DAY TOUR

BIT RECORD

BIT NO.	2
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS65
SERIAL NO.	2734
JETS	5X 11.1
DEPTH OUT (m)	1408
DEPTH IN (m)	1193
TOTAL DRILLED (m)	215.00
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

PRODUCT	AMOUNT	UNIT

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	

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
8600	152	105	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
800	945	1.75	5	CONDITION MUD & CIRCULATE
945	1445	5.00	6	POOH-FLOW CHECK AT 1394, AT 1298, AT 684
1445	1500	0.25	21	SAFETY MEETING WITH LOGGERS
1500	1600	1.00	11	WIRELINE LOGS-MCG,MFE,MTC,MGS,MML,MDN,MPD,MSS,MAI
				HELD MAN DOWN DRILL

NOTES: VISUALY INSPECT BRAKE BANDS LINGAGE AND PINS DC.
FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE
HOLE FILL-ACT.7.93 / CAL. 6.93
STRAP 1408.22 / BOARD- 1408 /DIFF. .22

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			LOGGING	60	3008

DAY TOUR FROM 800 TO 1600

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		WILL WINTER	12.00			WW
FLOORHAND		BENGIE SWEET	12.00			BS
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS — DRIVERS:

EVENING TOUR

BIT RECORD

BIT NO.	2
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS65
SERIAL NO.	2734
JETS	5X 11.1
DEPTH OUT (m)	1408
DEPTH IN (m)	1193
TOTAL DRILLED (m)	215.00
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

PRODUCT	AMOUNT	UNIT

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	

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: DAVE D CROWLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2215	6.25	11	WIRELINE LOGS
2215	2230	0.25	7	RIG SERVICE FUNCTION BLIND RAMS 4 SEC TO CLOSE
2230	2400	1.50	6	TRIPS M/U BHA RIH

NOTES: HELD MAN DWN DRILL
FUNCTION TEST CROWN SAVER
VISUALLY INSPECT TONGS LINES BRAKES PINS LINKAGE AND ANCHOR

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			LOGGIN		3008

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		DAVE D CROWLEY	4.00			DC
DERRICKHAND		DANNY S CROWLEY	4.00			DC
MOTORHAND		COREY ANDERSON	4.00			CA
FLOORHAND		KEVIN DRINKWATER	4.00			KD
FLOORHAND		BRECK PICHE	4.00			BP

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

LICENCE NO.	WELL NAME & NO.
2048	PARA ET AL CAMERON E-72
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
E-72-60 DEG-10-117 DEG-15	300E726010117150
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	3	3

RIG NO.	FUEL @ 08:00 HRS	
97		BOILER

WEATHER: TEMPERATURE -34; CURRENT CONDITIONS OVERCAST; WIND DIRECTION S.W.; 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	35.7	IPSCO	J-55	32	435.53	.53	435
	139.7	125.7	23.07	IPSCO	J-55	116	1409.23	.6	1408.63

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	2007/02/24	TIME	04:30
RIG RELEASE	2007/03/04	TIME	23:59
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	79		
TOUR SHEET SERIAL NUM	PREC220_20070303_1C		
VENDOR SOFTWARE VERSION	EDR 3-2-4 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					1.0	6.0	0.25		0.75																		8.00
DAY						4.0	0.25					3.5									0.25						8.00
EVE					2.75							4.5		0.5							0.25						8.00
TOTAL					3.75	10.00	0.50		0.75			8.00		0.50							0.50						24.00

SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE SWACO	TYPE	CREW VEHICLE			
SCREENS CHANGED		NEW/ USED				
TOP 105		TOP				
MIDDLE		MIDDLE				
BOTTOM 105		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.		YEAR	MONTH	DAY
PARA ET AL CAMERON E-72		2007	3	3
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	1618		

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1			.28
1	TORQUE SUB	160	1.97
1	D.C.	161	9.38
1	STAB	191	1.61
1	SHOCK SUB	161	2.12
11	D.C.	163	103.72
1	JAR	159	4.95
4	D.C.	163	37.53
1	X/O	159	.69
8	H.W.D.P.	101	74.97
61	D.P.	STANDS	1148.89
1	D.P.	SINGLES	9.57
KELLY DOWN			12.32
TOTAL			1408.00
WT. OF D.C.	20		
WT. OF STRING	46		

MORNING TOUR

BIT RECORD

BIT NO.	2
SIZE	200
IADC CODE	
MANUFACTURER	VAREL
TYPE	MKS65
SERIAL NO.	2734
JETS	5X 11.1
DEPTH OUT (m)	1408
DEPTH IN (m)	1193
TOTAL DRILLED (m)	215.00
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: PRODUCT | AMOUNT | UNIT

SOLIDS CONTROL

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

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
9900	152	100	152	

REDUCED PUMP SPEED: 4901 @ 56 @

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
00	0045	0.75	9	CUT OFF DRILLING LINE
0045	100	0.25	7	RIG SERVICE FUNCTION TEST ANNULAR 12 SECS TO CLOSE
100	315	2.25	6	FINISH RIH
315	415	1.00	5	CONDITION MUD & CIRCULATE
415	800	3.75	6	LAY OUT STRING FLOW CHECK @1402,1277,703,

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

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				LAYIN OUT PIPE	49	3008

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT
CREW SAFETY DAYS	DRIVERS: DAVE D CROWLEY					

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		DAVE D CROWLEY	8.00			DC
DERRICKHAND		DANNY S CROWLEY	8.00			DC
MOTORHAND		COREY ANDERSON	8.00			CA
FLOORHAND		KEVIN DRINKWATER	8.00			KD
FLOORHAND		BRECK PICHE	8.00			BP

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	900	
DENSITY (kg/m3)	1110	
FUNNEL VISCOSITY	65	
FLUID LOSS (cm3)		
pH	10	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BARITE	10	SX
HUMALITE	3	SX
DESCO	1	SX
ALKAPAM 1103D	3	SX
ENVIROFLOC	2	SX

SOLIDS CONTROL

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

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	360	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

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1200	4.00	6	POOH- LAY DOWN PIPE BREAK KELY AND SUBS BLOW LINES
1200	1215	0.25	7	RIG SERVICE FUNCTION BLIND RAMS 3 SEC TO CLOSE
1215	1230	0.25	21	SAFETY MEETING W/ TONG HAND- ELEVATORS-# 55576
1230	1600	3.50	12	RIG UPTO RUN CASING AND RUN CASING

NOTES: HOLE FILL- ACT. 7.23 / CAL- 7.27
FUNCTION CROWN SAVER
VISUAL INSPECT TONGS,LINES,ANCHORS,BRAKES,PINS,LINKAGE

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				CASING	30	3008

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT
CREW SAFETY DAYS	DRIVERS: JACK HUSTON					

DAY TOUR FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		JACK HUSTON	12.00	L3		JH
DERRICKHAND		KARL GEREIN	12.00			KG
MOTORHAND		IAN ROSS	12.00			IR
FLOORHAND		WILL WINTER	12.00			WW
FLOORHAND		BENGIE SWEET	12.00			BS
RIG MANAGER		DAVE CROWLEY				DC

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 GEL-CHEM	WATER BASED ☐	OIL BASED ☐
TIME	2200	
DENSITY (kg/m3)	1120	
FUNNEL VISCOSITY	43	
FLUID LOSS (cm3)	14	
pH	10	

MUD MATERIALS ADDED: PRODUCT | AMOUNT | UNIT

SOLIDS CONTROL

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

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
	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
1600	1815	2.25	12	RUN CASING
1815	2100	2.75	5	CONDITION MUD & CIRCULATE
2100	2115	0.25	21	SAFETY MEETING WITH CEMENTERS
2115	2330	2.25	12	CEMENT CASING
2330	0000	0.50	14	NIPPLE DWN
				CEMENT THE PRODUCTION CASING WITH 22 TONNE OF THIXLITE + 1% SMS
				& 11 TONNE OF EXPANDOMIX LWL; +.1% CFL-3 +.2% LTR + .2% SPC-II, WE GOT BACK
				2.2M3 OF GOOD CEMENT RETUTRN'S, PLUG DOWN AT 23:12 HRS MAR 3/07 BJN

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

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				CEMENTING		3008

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT
CREW SAFETY DAYS	DRIVERS: DAVE D CROWLEY					

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		DAVE D CROWLEY	4.00			DC
DERRICKHAND		DANNY S CROWLEY	4.00			DC
MOTORHAND		COREY ANDERSON	4.00			CA
FLOORHAND		KEVIN DRINKWATER	4.00			KD
FLOORHAND		BRECK PICHE	4.00			BP

LICENCE NO.	WELL NAME & NO.
2048	PARA ET AL CAMERON E-72

OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
E-72-60 DEG-10-117 DEG-15	300E726010117150
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		
(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 2007 MONTH 3 DAY 4 — RIG NO. 220

FUEL @ 08:00 HRS — RIG 80 — BOILER

WEATHER — TEMPERATURE -44; CURRENT CONDITIONS OVERCAST; WIND DIRECTION S.W.; 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	35.7	IPSCO	J-55	32	435.53	.53	435
139.7	125.7	23.07	IPSCO	J-55	116	1409.23		

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	2007/02/24	TIME	04:30
RIG RELEASE	2007/03/04	TIME	23:59
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	79		
TOUR SHEET SERIAL NUM	PREC220_20070304_1C		
VENDOR SOFTWARE VERSION	EDR_3-2-4_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	1.0											3.25		3.0								0.75					8.00
DAY	8.0																										8.00
EVE	8.0																										8.00
TOTAL	17.00											3.25		3.00								0.75					24.00

SHALE SHAKER(S): NO. 1 TYPE SWACO; TYPE; SCREENS CHANGED; NEW/USED; TOP 105; TOP; MIDDLE; MIDDLE; BOTTOM 105; BOTTOM

RENTALS / SERVICES	MORN	DAY	EVE
CREW VEHICLE			

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	PARA ET AL CAMERON E-72
YEAR / MONTH / DAY	2007 / 3 / 4
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	1619

MORNING TOUR

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)

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	11	
STACK TEMP	370	

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

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

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	300	3.00	14	NIPPLE DWN
300	345	0.75	22	SET CASING SLIPS AT 33,000 DaN
345	700	3.25	12	CEMENT ANULAS BETWEEN SURFACE AND CONDUCTOR
700	800	1.00	1	TEAR DOWN

NOTES :

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

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		DAVE D CROWLEY	8.00			DC
DERRICKHAND		DANNY S CROWLEY	8.00			DC
MOTORHAND		COREY ANDERSON	8.00			CA
FLOORHAND		KEVIN DRINKWATER	8.00			KD
FLOORHAND		BRECK PICHE	8.00			BP

RATE SCHEDULE X REGULAR; REPAIR; INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

DAY TOUR

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)

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	11	
STACK TEMP	360	

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

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

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1600	8.00	1	TEAR DOWN
				VISUALY INSPECT DERICK AND LAY OVER DC.
				TOP CEMENT THE SURFACE CASING WE PUMPED 3 TONNE OF 0-1-0 G WITH
				1% CACL2. WE GOT BACK 1M3 OF GOOD CEMENT. WE WHERE DONE AT 07:11 HRS MAR 4/07
				THANK YOU GUYS FOR A JOB WELL DONE THIS WINTER, IT WAS A PLEASURE WORKING WITH
				YOU GUY'S BJN.

NOTES :

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

DAY TOUR FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		JACK HUSTON	12.00			JH
DERRICKHAND		KARL GEREIN	12.00			KG
MOTORHAND		IAN ROSS	12.00			IR
FLOORHAND		WILL WINTER	12.00			WW
FLOORHAND		BENGIE SWEET	12.00			BS
RIG MANAGER		DAVE CROWLEY				DC

RATE SCHEDULE X REGULAR; REPAIR; INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

EVENING TOUR

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)

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	11	
STACK TEMP	360	

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

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

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2400	8.00	1	TEAR DOWN
				RIG RELEASED AT 24:00 HRS MAR 4/07

NOTES :

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

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		DAVE D CROWLEY	4.00			DC
DERRICKHAND		DANNY S CROWLEY	4.00			DC
MOTORHAND		COREY ANDERSON	4.00			CA
FLOORHAND		KEVIN DRINKWATER	4.00			KD
FLOORHAND		BRECK PICHE	4.00			BP

RATE SCHEDULE X REGULAR; REPAIR; INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

LICENCE NO.	WELL NAME & NO.
2048	PARA ET AL CAMERON E-72
OPERATOR	CONTRACTOR NAME
PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC
SURFACE LOCATION	UNIQUE ID
E-72-60 DEG-10-117 DEG-15	300E726010117150
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	DAVE CROWLEY

DAILY CHECKS

	OPR BN	R.M. DC
(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	MONTH	DAY
2007	3	5

RIG NO. 220

FUEL @ 08:00 HRS

RIG	BOILER
80	

WEATHER: TEMPERATURE -44; CURRENT CONDITIONS OVERCAST; WIND DIRECTION S.W.; 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	35.7	IPSCO	J-55	32	435.53	.53	435
	139.7	125.7	23.07	IPSCO	J-55	116	1409.23		

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	2007/02/24
TIME	04:30
RIG RELEASE	2007/03/04
TIME	23:59
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	79
TOUR SHEET SERIAL NUM	PREC220_20070305_1B
VENDOR SOFTWARE VERSION	EDR 3-2-4 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	8.0																										8.00
DAY	12.0																										12.00
EVE																											
TOTAL	20.00																										20.00

SHALE SHAKER(S) NO.	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
1	SWACO	CREW VEHICLE			
SCREENS CHANGED	NEW/ USED				
TOP 105	TOP				
MIDDLE	MIDDLE				
BOTTOM 105	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
PARA ET AL CAMERON E-72	2007	3	5

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	1620

MORNING TOUR

BIT RECORD

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 0; BOILER pH; STACK TEMP. 2 — HRS RUN; BOILER pH; 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
0	800	8.00	1	TEAR DOWN

NOTES :

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

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS: DAVE D CROWLEY

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		KEVIN DRINKWATER	12.00			KD
FLOORHAND		BRECK PICHE	12.00			BP

DAY TOUR

BIT RECORD

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 0; BOILER pH; STACK TEMP. 2 — HRS RUN; BOILER pH; 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

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	2000	12.00	1	TEAR OUT LOAD UP RIG FOR RACKING
				TRAVEL TO STEEN RIVER AND FLY THE MEN HOME

NOTES :

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

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS: JACK HUSTON

INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JACK HUSTON	12.00			JH
DERRICKHAND		KARL GEREIN	12.00			KG
MOTORHAND		IAN ROSS	12.00			IR
FLOORHAND		WILL WINTER	12.00			WW
FLOORHAND		BENGIE SWEET	12.00			BS
RIG MANAGER		DAVE CROWLEY				DC

EVENING TOUR

BIT RECORD

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 0; BOILER pH; STACK TEMP. 2 — HRS RUN; BOILER pH; 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 | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP

RATE SCHEDULE		REGULAR		REPAIR		INVERT

CREW SAFETY DAYS — DRIVERS

INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO