MAIL ROOM
SALLE DE COURIER
2011 SEP -6 A 11:20
NEB/ONE

1	TOUR SHEETS
2	WELLHEAD SCHEMATIC & DETAILS
3	DOWNHOLE SCHEMATICS & DETAILS
4	FRACTURE TREATMENT SUMMARY
5	SIGNED LAND SURVEY

NATIONAL ENERGY BOARD
Exploration and Production
SEP 06 2011

NEB COPY

AVERY® READY INDEX® 600076

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110116_1B	Pason	2011	01	16

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CAODC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1																										
Tour 2	8.00																									8.00
Tour 3																									4.00	4.00
Total	8.00																								4.00	12.00

FUEL @ 08:00 HOURS

Kelly Bushing	Up Fuel
Rig	Boiler

WEATHER

Time	Temp
Current Conditions	
Wind Direction	Wind Strength
Road Condition	

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON — START TIME: 00:00 — END TIME: 08:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

T1		Gage	
T0		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up ☐	Down ☐
Torque at Bottom		
Fill on Bottom		

MUD RECORD

Mud Type	Water ☐ Oil ☐
Other	
Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
		@	@	
		@	@	
		@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X6424_20110117_1A	Pason	2011	01	17

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CAODC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1																					0.25		7.75			8.00
Tour 2	8.00																									8.00
Tour 3	2.00																						6.00			8.00
Total	10.00																				0.25		13.75			24.00

FUEL @ 08:00 HOURS

Kelly Bushing	Up Fuel
Rig	Boiler

WEATHER

Time	Temp
Current Conditions	
Wind Direction	Wind Strength
Road Condition	

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 END TIME: 08:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up	Down
Torque at Bottom		
Fill on Bottom		

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

Remarks:

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

REDUCED PUMP SPEED

Pump No	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	07:45	7.75	23B	W/O DAYLIGHT
07:45	08:00	0.25	21	SAFETY MEETING WITH MULLEN TRUCKING

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110118_1A	Pason	2011	01	18

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1																					0.50		7.50			8.00
Tour 2	7.50																				0.50					8.00
Tour 3	8.00																									8.00
Total	15.50																				1.00		7.50			24.00

Kelly Bushing | Up Fuel

FUEL @ 08:00 HOURS

Rig | Boiler

WEATHER

Time 08:00 | Temp -29.00

Current Conditions: OVERCAST

Wind Direction | Wind Strength: CALM

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 | END TIME: 08:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110118_1A	Pason	2011	01	19

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

Pason

HOURS

CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1	11.75																				0.25					12.00
Tour 2	11.75																				0.25					12.00
Tour 3																										
Total	23.50																				0.50					24.00

Kelly Bushing 4.88 | Up Fuel

FUEL @ 08:00 HOURS

Rig | Boiler

WEATHER Time 06:00 | Temp -25.00 | Current Conditions OVERCAST | Wind Direction | Wind Strength CALM | Road Condition AIR

TOUR 1

SIGNATURE OF DRILLER: DUSTIN GIBSON | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110120_1A	Pason	2011	01	20

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

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

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drilg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1	11.75																				0.25					12.00
Tour 2	11.00	0.25																			0.75					12.00
Tour 3																										
Total	22.75	0.25																			1.00					24.00

FUEL @ 08:00 HOURS

Kelly Bushing	Up Fuel
4.98	

Rig	Boiler

WEATHER

Time	Temp
06:00	-24.00

Current Conditions	
OVERCAST	
Wind Direction	Wind Strength
CALM	
Road Condition	
FAIR	

TOUR 1

SIGNATURE OF DRILLER: DUSTIN GIBSON

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110121_1A	Pason	2011	01	21

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60.02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	
Operator's AFE	Contractor's Job No		Spud Date Time	
10N110009	C6473		2011/01/20 23:45	
Signature of Operator Representative	Signature of Contractor's Rig Manager		Rig Release Date Time	
BLINSTON	MICHAEL NUGENT			

DAILY CHECKS

	OP	RM
	WB	MN
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CAODC

Pason

Kelly Bushing 4.98 | Up Fuel

FUEL @ 08:00 HOURS

Rig | Boiler

Time 00:00 | Temp 4.00

Current Conditions: PARTLY CLOUDY

Wind Direction: SW | Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

HOURS

	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1		7.75	0.25				0.50	0.75		1.00											0.25				1.50	12.00
Tour 2		9.00					0.25	1.50		1.00											0.25					12.00
Tour 3																										
Total		16.75	0.25				0.75	2.25		2.00											0.50				1.50	24.00

WEATHER

TOUR 1

SIGNATURE OF DRILLER: DUSTIN GIBSON | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	1A
Size	311
IADC Code	4 1 7
Manufacturer	KINGDREAM
Type	HTOBG-1C
Serial No	L29145
Jets	
Depth Out (m)	
Depth In (m)	22
Total Drilled (m)	77
Hrs Run Today	9.00
Cumulative Hrs Run	9.25
Entry Date	2011/01/20

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
27m	99m	DRILL	160	5.5kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	311	0	0.34m
1	BIT SUB	202	74	0.82m
1	DC (8.00 IN)	195	76	9.39m
1	DC (8.00 IN)	198	76	9.17m
1	X/O	295	76	0.67m
1	X/O	158	62	0.81m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.61m
2	DC (5.00 IN)	126	60	19.18m
1	DC (5.00 IN)	124	62	9.59m
1	DC (5.00 IN)	126	59	9.61m
1	DC (5.00 IN)	126	60	9.58m
1	JARS-HYD/MECH	126	59	5.08m
0	Drill Pipe	Stands		0.00m
0	Drill Pipe	Singles		0.00m

Kelly Down	13.02m
Total	99.45m
Weight of DC	20kdaN
Weight of String	23kdaN

HOLE CONDITION

Hole Drag	Up / Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	02:00	06:00
Density	1020	1030
Funnel Viscosity	36s/l	37s/l
Fluid Loss		
pH	9	9
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	125	900	9

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
03:15	34m	0	0	TELEDRIFT

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	8	1020	1470	1010

MUD MATERIALS ADDED

Product	Amount	Type
DEFOAMER	2	PAIL
DETERGENT	3	PAIL
HYPERDRILL 247RD	2	SACK
INHIBIDRILL	8	PAIL

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9	270

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	02:45	2.75	2	DRILL 311MM HOLE FR/27M TO 45M
02:45	03:15	0.50	7	RIG SERVICE GREASE WASH PIPE CHECK OIL LEVEL IN FLOOR MOTOR TIGHTEN DRIVE LINE BOLTS
03:15	04:15	1.00	2	DRILL 311MM HOLE FR/ 45M TO 55M
04:15	05:00	0.75	25	CHANGED OUT WASH PIPE
05:00	07:00	2.00	2	DRILL 311MM HOLE FR/ 55M TO 81M
07:00	07:15	0.25	21	HANDOVER SAFETY MEETING
07:15	07:45	0.50	2	DRILL 311MM HOLE FROM 81M-94M
07:45	08:30	0.75	25	CHANGE LINER GASKET
08:30	08:45	0.25	3A	REAM & CLEAN TO BOTTOM
08:45	10:15	1.50	2	DRILL 311MM HOLE FROM 94M-99M
10:15	11:15	1.00	10	CUMMULATIVE SURVEYS, CONNECTIONS, WORK PIPE
11:15	12:00	0.75	9	RIG REPAIR PULL 2 STANDS CHANGE OUT KELLY SPINNER DIES

Remarks: VIC INSPECT DRAWWORK BRAKES PINES & LINKAGE F/T CROWN SAVER (D.G) INSPECT PUMPING EQUIPMENT & DRAWWORKS MOTOR OIL LEVEL & GEAR BOX OIL LEVEL

DRILLER TRAINER @ NDL COST

SAFETY

Safety Topic	MEHL	MACP
CHEAGING WASH PIPE	13.00kdaN	0kPa

TOUR 2

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	1A
Size	311
IADC Code	4 1 7
Manufacturer	KINGDREAM
Type	HTOBG-1C
Serial No	L29145
Jets	
Depth Out (m)	
Depth In (m)	22
Total Drilled (m)	201
Hrs Run Today	9.00
Cumulative Hrs Run	18.25
Entry Date	2011/01/20

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
99m	223m	DRILL	165	10kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	311	0	0.34m
1	BIT SUB	202	74	0.82m
1	DC (8.00 IN)	195	76	9.39m
1	DC (8.00 IN)	198	76	9.17m
1	X/O	295	76	0.67m
1	X/O	158	62	0.81m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.61m
5	DC (5.00 IN)	126	60	47.96m
1	JARS-HYD/MECH	125	59	5.08m
5	DC (5.00 IN)	126	60	86.41m
4	HWDP(4.0 IN)	102	64	37.52m
0	Drill Pipe	Stands		0.00m
0	Drill Pipe	Singles		0.00m

Kelly Down	13.02m
Total	223.38m
Weight of DC	23kdaN
Weight of String	27kdaN

HOLE CONDITION

Hole Drag	Up 2 / Down 2
Torque at Bottom	1500.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	14:00	18:00
Density	1120	1130
Funnel Viscosity	46s/l	43s/l
Fluid Loss		
pH	8	8
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	125	3400	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
	91m	1.10	0	WIRELINE
	122m	1.10	0	WIRELINE
	151m	1.10	0	WIRELINE
	179m	1.10	0	WIRELINE

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1130	1110	1950

MUD MATERIALS ADDED

Product	Amount	Type
KELZAN XCD	2	PAILS
HYPERDRILL 247RD	2	BAGS
INHIBIDRILL	13	PAILS
DETERGENT	2	PAILS

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	13:30	1.50	8	RIG REPAIR CONTINUE TO REPAIR KELLY SPINNER DIES AND RUN IN TO BTM
13:30	19:00	5.50	2	DRILL 311MM HOLE 99M- 156M
19:00	19:15	0.25	21	PRE TOUR SAFETY MEETING WITH CREWS
19:15	22:45	3.50	2	DRILL 311MM HOLE FR/156M TO 223M
22:45	23:45	1.00	10A	ACCUM CONNECTIONS & WIRELINE SURVEYS
23:45	24:00	0.25	7	RIG SERVICE GREASE WASH PIPE BLOCKS & DRIVER LINE

Remarks: VIS INSP DRAWWORKS PINES KEEPRES F/T CROWN SAVER (D.G) INSPECT PUMP MUD TANK FLOOR EQUIPMENT SLIPS TONGS DIES & SAFETY PINES

SAFETY

Safety Topic	MEHL	MACP
HWDP CONNECTION	30.00kdaN	0kPa

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up / Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other [ ]

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110121_1A	Pason	2011	01	21

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	311.20	0.00	0.34
1	BIT SUB	202.00	74.00	0.82
1	DC (8.00 IN)	195.00	76.00	9.39
1	DC (8.00 IN)	198.00	76.00	9.17
1	X/O	295.00	76.00	0.67
1	X/O	158.00	62.00	0.81
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.61
2	DC (5.00 IN)	126.00	60.00	19.18
1	DC (5.00 IN)	124.00	62.00	9.59
1	DC (5.00 IN)	126.00	59.00	9.61
1	DC (5.00 IN)	126.00	60.00	9.58
1	JARS-HYD/MECH	126.00	59.00	5.08
0	Drill Pipe		Stands	0.00
0	Drill Pipe		Singles	0.00
	Kelly Down			13.02
	Total			99.45
	Weight of DC			20.00
	Weight of String			23.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	311.20	0.00	0.34
1	BIT SUB	202.00	74.00	0.82
1	DC (8.00 IN)	195.00	76.00	9.39
1	DC (8.00 IN)	198.00	76.00	9.17
1	X/O	295.00	76.00	0.67
1	X/O	158.00	62.00	0.81
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.61
5	DC (5.00 IN)	126.00	60.00	47.96
1	JARS-HYD/MECH	125.00	59.00	5.08
9	DC (5.00 IN)	126.00	60.00	86.41
4	HWDP(4.0 IN)	102.00	64.00	37.52
0	Drill Pipe		Stands	0.00
0	Drill Pipe		Singles	0.00
	Kelly Down			13.02
	Total			223.38
	Weight of DC			23.00
	Weight of String			27.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	Rig site H/S	Cold weather Green hands to rig Steam use (Green hands shown to work floor & hazards on floor)	00:00	
1	JSA REVIEW	A-20 RIG SERVICE	01:00	45
1	JSA REVIEW	A-25 STEAM USE	01:00	64
1	Hazard ID	Rig floor was cluttered causing tripping hazards (Hazard ID # 304518)	03:00	
1	Hazard ID	Pipe racks were not chained to pipe tuble (Hazard ID # 304519)	04:00	

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110121_1A	Pason	2011	01	21

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** **WATER** x **OIL** ☐ **OTHER**

Time	02:00	06:00	10:00														
Density	1020kg/m3	1030kg/m3															
Funnel Viscosity	36s/l	37s/l															
Fluid Loss																	
Fluid pH	9	9															
Location of Sample																	
Depth																	
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110121_1A	Pason	2011	01	21

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	14:00	18:00	22:00														
Density	1120kg/m3	1130kg/m3	1130kg/m3														
Funnel Viscosity	46s/l	43s/l	42s/l														
Fluid Loss																	
Fluid pH	8	8	8														
Location of Sample																	
Depth																	
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110122_1A	Pason	2011	01	22

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required	JWB	MN
4) Well Licence & Stick Diagram Posted	JWB	MN
5) Flare Lines Staked	JWB	MN
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		MN

CADDC

pason

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	21 Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
HOURS Tour 1		9.50			0.25					2.00											0.25					12.00
Tour 2		0.25	0.25		1.75	9.25															0.50					12.00
Tour 3																										
Total		9.75	0.25		2.00	9.25				2.00											0.75					24.00

FUEL @ 08:00 HOURS			
Kelly Bushing 4.98	Up Fuel		
Rig	Boiler		
WEATHER Time 06:00	Temp -18.00		
Current Conditions PARTLY CLOUDY			
Wind Direction E	Wind Strength UP TO 19 KM/H		
Road Condition FAIR			

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	1A
Size	311
IADC Code	4 1 7
Manufacturer	KINGDREAM
Type	HTOBG-1C
Serial No	L29145
Jets	
Depth Out (m)	
Depth In (m)	22
Total Drilled (m)	330
Hrs Run Today	9.50
Cumulative Hrs Run	27.75
Entry Date	2011/01/20

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
223m	352m	DRILL	155	11kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	311	0	0.34m
1	BIT SUB	202	74	0.82m
1	DC (8.00 IN)	195	76	9.39m
1	DC (8.00 IN)	198	76	9.17m
1	X/O	295	76	0.67m
1	X/O	158	62	0.81m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	129	59	2.61m
5	DC (5.00 IN)	126	60	47.96m
1	JARS-HYD/MECH	125	59	5.32m
9	DC (5.00 IN)	126	60	86.41m
9	HWDP(4.0 IN)	102	64	84.41m
4	Drill Pipe	Stands		76.37m
1	Drill Pipe	Singles		9.39m

Kelly Down	9.20m
Total	352.45m
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up 0	Down 0	
Torque at Bottom			
Fill on Bottom			0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:00	04:00
Density	1120	1120
Funnel Viscosity	46s/l	43s/l
Fluid Loss		
pH	8	8.0
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	125	4400	10

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
	245m	1.10	0	WIRELINE
	283m	.91	0	WIRELINE

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1130	1120	1950

MUD MATERIALS ADDED

Product	Amount	Type
DETERGENT	3	PAIL
INHIBIDRILL	4	PAIL
TKPP	3	SACK
SAWDUST	35	SACK
KELZAN XCD	2	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	07:00	7.00	2	DRILL 311MM HOLE FR/ 223M TO 326M
07:00	07:15	0.25	21	PRE TOUR CREW MEETING WITH BOTH CREWS
07:15	09:45	2.50	2	DRILL 311MM HOLE FR/ 326M TO 352 M.
09:45	11:45	2.00	10	ACCUMULATING DEVIATION SURVEYS , CONNECTIIONS, WORK PIPE
11:45	12:00	0.25	5	CONDITION MUD & CIRCULATE

Remarks: VISUALLY INSPECT FLOOR EQUIPMENT TONGS SLIPS DIES PINES & LINES INSP DRAWWORKS PINE & KEEPERS F/T CROWN SAVER (D.G.)

DRILLER TRAINER @ NDL COST

SAFETY

Safety Topic	MEHL	MACP
WORKING WITH CASING	33.00kdaN	0kPa

TOUR 2

SIGNATURE OF DRILLER: DUSTIN GIBSON

START TIME: 12:00 END TIME: 24:00

BITS

Bit Number	1A
Size	311
IADC Code	4 1 7
Manufacturer	KINGDREAM
Type	HTOBG-1C
Serial No	L29145
Jets	
Depth Out (m)	361
Depth In (m)	22
Total Drilled (m)	339
Hrs Run Today	0.25
Cumulative Hrs Run	28.00
Entry Date	2011/01/20

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	12.11
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
352m	361m	DRILL	170	10kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	311	0	0.34m
1	BIT SUB	202	74	0.82m
1	DC (8.00 IN)	195	76	9.39m
1	DC (8.00 IN)	198	76	9.17m
1	X/O	295	76	0.67m
1	X/O	158	62	0.81m
1	DC (5.00 IN)	128	60	9.58m
5	DC (5.00 IN)	126	60	47.96m
1	JARS-HYD/MECH	125	59	5.32m
9	DC (5.00 IN)	126	60	86.41m
9	HWDP(4.0 IN)	102	64	84.41m
5	Drill Pipe	Stands		94.74m
0	Drill Pipe	Singles		0.00m

Kelly Down	11.38m
Total	361.00m
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up 2	Down 2	
Torque at Bottom			1500.00Nm
Fill on Bottom			1.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	20:00	23:00
Density	1130	1140
Funnel Viscosity	46s/l	45s/l
Fluid Loss		
pH	8	8
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	125	4000	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1130	1120	1950

MUD MATERIALS ADDED

Product	Amount	Type
TKPP	2	SACK
BICARB	2	SACK
KELZAN XCD	1	SACK
INHIBIDRILL	1	PAIL
DETERGENT	1	PAIL

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	12:15	0.25	21	SAFETY MEETING PRIOR TO TRIP
12:15	12:45	0.50	5	CONDITION MUD & CIRCULATE
12:45	16:30	3.75	6	TRIPS POOH (STRAP OUT)
16:30	18:45	2.25	6	CLEAN OFF BIT, RIH TIGHT SPOT @214M
18:45	19:00	0.25	3A	REAM & CLEAN TIGHT SPOT @214M 202m
19:00	19:15	0.25	21	HANDOVER SAFETY MEETING WITH CREWS
19:15	21:00	1.75	5A	RUN IN HOLE FR/ 202M TO 300M WASH TO BOTOM FR/ 300M TO 350M
21:00	21:15	0.25	2	DRILL 311MM HOLE FR/ 352M TO 361M TD
21:15	22:30	1.25	5D	CIRCULATE AND CONDITION HOLE & MUD FOR TRIP OUT /CASING
22:30	24:00	1.50	5B	P.O.O.H. FOR CASING

Remarks: SLM OUT HOLE STRAP TOTAL=353.32 , TALLY= 352.00 , DIFF = .32 M.

NEW TONG SLINGS IN SERVICE # N0120759 # N01271058 # N012710757 # N012710754

SAFETY

Safety Topic	MEHL	MACP
TRIPPING	50.00kdaN	

TOUR 3

SIGNATURE OF DRILLER:

START TIME: END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up	Down	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110122_1A	Pason	2011	01	22

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	311.20	0.00	0.34
1	BIT SUB	202.00	74.00	0.82
1	DC (8.00 IN)	195.00	76.00	9.39
1	DC (8.00 IN)	198.00	76.00	9.17
1	X/O	295.00	76.00	0.67
1	X/O	158.00	62.00	0.81
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	129	59	2.61
5	DC (5.00 IN)	126.00	60.00	47.96
1	JARS-HYD/MECH	125.00	59.00	5.32
9	DC (5.00 IN)	126.00	60.00	86.41
9	HWDP(4.0 IN)	102.00	64.00	84.41
4	Drill Pipe		Stands	76.37
1	Drill Pipe		Singles	9.39
	Kelly Down			9.20
	Total			352.45
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	311.20	0.00	0.34
1	BIT SUB	202.00	74.00	0.82
1	DC (8.00 IN)	195.00	76.00	9.39
1	DC (8.00 IN)	198.00	76.00	9.17
1	X/O	295.00	76.00	0.67
1	X/O	158.00	62.00	0.81
1	DC (5.00 IN)	128.00	60.00	9.58
5	DC (5.00 IN)	126.00	60.00	47.96
1	JARS-HYD/MECH	125.00	59.00	5.32
9	DC (5.00 IN)	126.00	60.00	86.41
9	HWDP(4.0 IN)	102.00	64.00	84.41
5	Drill Pipe		Stands	94.74
0	Drill Pipe		Singles	0.00
	Kelly Down			11.38
	Total			361.00
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-03 CLEANING & PREPARE & DRIFT CASING	01:00	
1	JSA REVIEW	A-15 CREW CAB OPERATIONS	01:00	
1	Hazard ID	DRAWWORKS DRUM GARD OFF (HAZARD ID # 304520)	02:00	
1	Near Miss	KELLY SPINNER HOSES (HOSES HOOD ON THE DERRICK) (NEAR MISS # 304521)	03:00	
1	JSA REVIEW	B-04 CONNECTIONS WITH D.P.	07:15	
1	JSA REVIEW	B-35 RIG TONG USE	07:15	

V. 1.1

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110122_1A	Pason	2011	01	22

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	

Kelly Down	
Total	
Weight of DC	
Weight of String	

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-06 DOG COLLAR USE	11:45	
2	JSA REVIEW	B-06 DOG COLLAR USE	12:00	352
2	JSA REVIEW	B-87 PIPE SPINNER USE	12:15	352
2	JSA REVIEW	B-44 TRIP OUT PIPE	12:30	352
2	JSA REVIEW	B-31 RUN IN HOLE	19:30	

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110122_1A	Pason	2011	01	22

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** POLYMER **WATER** x **OIL** **OTHER**

Time	02:00	04:00	06:00														
Density	1120kg/m3	1120kg/m3	1130kg/m3														
Funnel Viscosity	46s/l	43s/l	42s/l														
Fluid Loss																	
Fluid pH	8	8.0	8														
Location of Sample																	
Depth																	
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110122_1A	Pason	2011	01	22

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	20:00	23:00															
Density	1130kg/m3	1140kg/m3															
Funnel Viscosity	46s/l	45s/l															
Fluid Loss																	
Fluid pH	8	8															
Location of Sample																	
Depth																	
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number: DX8424_20110123_1A | Vendor Software Version: Pason | Year: 2011 | Month: 01 | Day: 23

License No: 2073 | Well Name: PARA ET AL CAMERON 2H-03 HZ | Surface Location: 60:02:20.40N/117:30:06.30E | Prov: NT | Loc Type: LAT-LONG | Unique Well Id: 302/H-03/6010-11730/0

Operator: PARAMOUNT RESOURCES LTD.

Contractor: NABORS DRILLING | Rig No: 24 | Well Type: HORIZ | Re-Entry ☐

Operator's AFE: 10N110009

Contractor's Job No: C6473 | Spud Date Time: 2011/01/20 23:45

Signature of Operator Representative: BLINSTON

Signature of Contractor's Rig Manager: MICHAEL NUGENT | Rig Release Date Time

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required		
4) Well Licence & Stick Diagram Posted	JWB	MN
5) Flare Lines Staked		
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked	MN	

CADDC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1					0.50	1.25						9.75									0.50					12.00
Tour 2					1.50							2.25	5.50								0.50				2.25	12.00
Tour 3																										
Total					2.00	1.25						12.00	5.50								1.00				2.25	24.00

Kelly Bushing: 4.98 | Gr Fuel

FUEL @ 08:00 HOURS

Rig | Boiler

WEATHER: Time 06:00 | Temp -23.00 | Current Conditions: PARTLY CLOUDY | Wind Direction: S | Wind Strength: UP TO 19 KM/H | Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	1A
Size	311
IADC Code	4 1 7
Manufacturer	KINGDREAM
Type	HTOBG-1C
Serial No	L 29145
Jets	
Depth Out (m)	361
Depth In (m)	22
Total Drilled (m)	339
Hrs Run Today	2.00
Cumulative Hrs Run	28.00
Entry Date	2011/01/20

CUTTING STRUCTURE

TI	2	Gage	2
TO	2	ODC	BC
MDC	CT	Reason Pulled	TD
LOC	A	Total Run (m/hr)	12.11
BRG	2		

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	311	0	0.34m
1	BIT SUB	202	74	0.82m
1	DC (8.00 IN)	195	76	9.39m
1	DC (8.00 IN)	198	76	9.17m
1	X/O	295	76	0.67m
1	X/O	158	62	0.81m
1	DC (5.00 IN)	128	60	9.58m
5	DC (5.00 IN)	126	60	47.96m
1	JARS-HYD/MECH	125	59	5.32m
9	DC (5.00 IN)	126	60	86.41m
9	HWDP(4.0 IN)	102	64	84.41m
5	Drill Pipe	Stands		94.74m
0	Drill Pipe	Singles		0.00m

Kelly Down: 11.38m | Total: 361.00m | Weight of DC | Weight of String

HOLE CONDITION

Hole Drag Up ☐ Down ☐ | Torque at Bottom | Fill on Bottom

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	120	1100	1.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	01:15	1.25	5D	LAY OUT 8"DC ALL X/O BIT (BLOW OUT KELLY 3X)
01:15	02:45	1.50	12A	CLEAN FLOOR & CAWALK RIG IN TONG HAND & TOOLS TO RUN CASING
02:45	03:00	0.25	21D	PRE-JOB SAFETY WITH RIG CREW & TONG HAND
03:00	07:00	4.00	12	RUN IN CASING CIRC HIGHT HOLE @ JOPINT #7 & 8
07:00	07:15	0.25	21	PRE TOUR SAFETY MEETING WITH RIG CREWS
07:15	08:15	1.00	12	CASING HANGING UP IN HOLE, HEAD UP AND WASH JOINTS # 11 AND 12
08:15	11:30	3.25	12	RUN CASING
11:30	12:00	0.50	5	CONDITION MUD & CIRCULATE CASING

Remarks: VIS INSP DRAWWORKS PINS LINKGE & KEEPERS F/T CROWN SAVER INSP FLOOR EQUIPMENT TONGS SLIPS DIES & HAND TOOLS

SAFETY

Safety Topic	MEHL	MACP
RUNING CASING		

TOUR 2

SIGNATURE OF DRILLER: DUSTIN GIBSON | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe Stands | Drill Pipe Singles | Kelly Down | Total | Weight of DC | Weight of String

HOLE CONDITION

Hole Drag Up ☐ Down ☐ | Torque at Bottom | Fill on Bottom

MUD RECORD

Mud Type: Water [x] Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	1100	1.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
DESCO	2	SACK
KELZAN XCD	1	SACK
TKPP	1	SACK
SAWDUST	25	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	13:30	1.50	5	CONDITION MUD & CIRCULATE CASING
13:30	13:45	0.25	21	SAFETY MEETING WITH CEMENTERS AND CREW
13:45	14:00	0.25	12A	RIG UP/ CEMENTERS
14:00	15:30	1.50	12C	CEMENTING SURFACE CASING PLUG DOWN @15:30 HRS,CEMENTED WITH 19t (16.20M3)OF
				BJ'S MAXXCEM G CEMENT BLEND@1800KG/M3,1.00%CaCL2,.90%FL-5, DROPPED THE TOP
				PLUG AND DISLACED WITH 10.22M3 FRESH WATER, BUMPED THE PLUG @ 4.5MPA, 1.5M3
				GOOD CEMENT RETURNS
15:30	16:00	0.50	12E	PRESSURE TEST SURFACE CASING AT 7.7MPA LOW AND 12.5MPA HIGH, HELD ALL TESTS
				FOR 10MIN, BLED BACK FLOATS HELD OK, ANNULUS LEVEL STAYED STATIC
16:00	19:00	3.00	13	WAIT ON CEMENT, FLUSH CONDUCTOR, STRIP MUD BACK, PREPARE CELLER FOR NIPPLE
				UP
19:00	19:15	0.25	21	PRE TOUR SAFETY MEETING WITH RIG CREWS
19:15	21:45	2.50	13	CONT TO WAIT ON CEMENT (PREPARE TOOLS STRIP MUD PREPARE B.O.P. & VALVES FOR
				NIPPLE UP)
21:45	24:00	2.25	25	WELDING CSING BOWL (SAFE WORK PERMIT # ND-037) CUT CONDUCTOR & CASING PRE
				HEAT BOWL TO 270 DEG WELD 3 PASSEIS ON BOTTOM & 2 PASSEIS ON TOP PRESSURE
				TEST TO 7000kpa FOR 10MIN

Remarks: INSPECT DRAWWORKS PINES KEEPERS LINKAGES & BRAKES F/T CROWN SAVER INSPECT FLOOR EQUIPMENT SLIPS TONGS DOG COLLAR DIES

SAFETY

Safety Topic	MEHL	MACP
NIPPLE UP B.O.P.		

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe Stands | Drill Pipe Singles | Kelly Down | Total | Weight of DC | Weight of String

HOLE CONDITION

Hole Drag Up ☐ Down ☐ | Torque at Bottom | Fill on Bottom

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110123_1A	Pason	2011	01	23

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	311.20	0.00	0.34
1	BIT SUB	202.00	74.00	0.82
1	DC (8.00 IN)	195.00	76.00	9.39
1	DC (8.00 IN)	198.00	76.00	9.17
1	X/O	295.00	76.00	0.67
1	X/O	158.00	62.00	0.81
1	DC (5.00 IN)	128.00	60.00	9.58
5	DC (5.00 IN)	126.00	60.00	47.96
1	JARS-HYD/MECH	125.00	59.00	5.32
9	DC (5.00 IN)	126.00	60.00	86.41
9	HWDP(4.0 IN)	102.00	64.00	84.41
5	Drill Pipe	Stands		94.74
0	Drill Pipe	Singles		0.00
	Kelly Down			11.38
	Total			361.00
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-28 RIG TO AND RUN CASING	02:45	
1	JSA REVIEW	B-27 RIG TO CEMENT CAING	02:45	
2	Rig site H/S	RIGGIN TO, AND CEMENTING	13:30	

V.1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110124_1A	Pason	2011	01	24

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CADC — Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1														7.75	3.50						0.75					12.00
Tour 2	0.50														6.50						0.25		2.75		2.00	12.00
Tour 3																										
Total	0.50													7.75	10.00						1.00		2.75		2.00	24.00

FUEL @ 08:00 HOURS

Rotary Bushing 4.98 — Up Fuel — Rig — Boiler — Tank — Temp 05:00 -19.00

WEATHER

Current Conditions: OVERCAST — Wind Direction — Wind Strength: CALM — Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON — START TIME: 00:00 — END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1		152	0	0	0

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	05:30	5.50	14	NIPPLE UP BOP (INSTALL DSAF B.O.P. INSTALL HCR LINES KILL VALVES & FLOW T &
				LINE F/T TEST ACCUMALTOR)
05:30	05:45	0.25	21D	PRE-JOB SAFETY WITH PRESSURE TESTER & RIG CREW
05:45	07:00	1.25	15	PRESSURE TEST MANIFOLD VALVES & LINES 1500KPA LOW & 14000KPA HIGH TEST HELD
				FOR 10 MINS
07:00	07:15	0.25	21	HANDOVER SAFETY MEETING WITH RIG CREWS
07:15	09:00	1.75	14	CONTINUE TO NIPPLE UP BOP.
09:00	09:30	0.50	14D	CHANGE PIPE RAMS
09:30	09:45	0.25	21	SAFETY MEETING WITH PRESURE TESTER AND RIG CREW
09:45	11:15	1.50	15	PRESURE TEST CASING BOWL DASF PIPE RAMS HCR VALVES & LINES TO MANIFOLD KILL
				LINES & VALVES TO 1500KPA LOW & 14000KPA HIGH EACH TSET HALD FOR 10 MINS
				TEST ANNULAR 1500KPA LOW & 10500KPA HIGH
11:15	12:00	0.75	15	TEST BLIND RAMS 1500KPA LOW & 14000KPA HIGH EACH TEST HALD FOR 10 MINS TEST
				INSID B.O.P. & STABBING VALVE & LOWER KELLY VALVE TO 1500KPA LOW & 14000KPA
				HIGH

Remarks: CHANGED OUT PIPE RAMS TO 4"

SAFETY

Safety Topic	MEHL	MACP
NIPPLE UP B.O.P. & RAM CHANGING		

TOUR 2

SIGNATURE OF DRILLER: DUSTIN GIBSON — START TIME: 12:00 — END TIME: 24:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water ☒ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	0	0	0

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
ALKAPAM 1103D	1	SACK
ENVIROFLOC	8	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	14:15	2.25	15	PRESURE TEST ANNULAR, BLIND RAMS, HCR, STACK VALVES, KILL LINE VALVES,
				CASING.
14:15	14:45	0.50	1D	RAISE DOG HOUSE.
14:45	19:00	4.25	15	CONTINUE TO PRESURE TEST UPPER KELLY COCK AND LOWER KELLY COCK. (LOWER KELLY
				COCK FAILED) PRESURE TEST NEW LOWER KELLY COCK
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	21:15	2.00	25	HOOK UP KELLY HOSE, AND KELLY SPINNER HOSES (PRE DRILL OUT SAFETY RIG
				INSPECTION CHECK LIST)
21:15	24:00	2.75	23	WAITING ON BIT SUB (SLIP & CUT 15.08M OF DRILL LINE CLEAN & ORGANIZE RIG)

Remarks:

SAFETY

Safety Topic	MEHL	MACP

TOUR 3

SIGNATURE OF DRILLER: — START TIME: — END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110124_1A	Pason	2011	01	24

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	

Kelly Down	
Total	
Weight of DC	
Weight of String	

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	J-04 NIPPLE UP BOP, J-08 SECURING BOP STACK	07:00	
2	JSA REVIEW	M-09 LOADER LOPERATIONS,	12:00	

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FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110125_1A	Pason	2011	01	25

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1		4.25				3.25															1.50		2.50		0.50	12.00
Tour 2		10.00					0.25			1.00											0.75					12.00
Tour 3																										
Total		14.25				3.25	0.25			1.00											2.25		2.50		0.50	24.00

Kelly Bushing 4.98 | Up Fuel

FUEL @ 08:00 HOURS

Rig | Boiler

WEATHER

Time 06:00 | Temp -14.00

Current Conditions: PARTLY CLOUDY

Wind Direction: N | Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	2
Size	222
IADC Code	M 3 3 2
Manufacturer	REED
Type	MSF 513 M - A 3 D
Serial No	128437
Jets	10.3 10.3 10.3 10.3
	10.3 10.3 10.3
Depth Out (m)	
Depth In (m)	361
Total Drilled (m)	527
Hrs Run Today	0.00
Cumulative Hrs Run	0.00
Entry Date	2011/01/25

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
361m	361.1m	DRILL	60	4.5kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.27m
1	BIT SUB	128	60	.77m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.60m
14	DC (5.00 IN)	126	60	134.37m
1	JARS-HYD/MECH	125	59	5.32m
9	HWDP(4.0 IN)	102	64	84.41m
6	Drill Pipe	Stands		113.97m
0	Drill Pipe	Singles		0.00m
	Kelly Down			9.71m
	Total			361.00m
	Weight of DC			24kdaN
	Weight of String			26kdaN

HOLE CONDITION

Hole Drag: Up 2 | Down 2

Torque at Bottom	0.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:00	06:00
Density	1040	1040
Funnel Viscosity	38s/l	38s/l
Fluid Loss		
pH	9	9
Location of Sample	SHAKER	SHAKER
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	1800	5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1050	1040	1780

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	02:30	2.50	23	WAITING ON BIT SUB PREPAIR BHA CLEAN & ORGANIZE RIG
02:30	05:45	3.25	6A	RUN IN HOLE (MAKE UP BIT & BIT SUB PICK UP TELEDRIFT & JARS) TAG CEMENT @ 343.6M.
05:45	06:15	0.50	25	CHANGED OUT LOWER KELLY VALVE
06:15	06:30	0.25	21	H2S SAFETY MEETING WITH RIG CREW & H2S HAND
06:30	06:45	0.25	21D	HAZARD HUNT WITH RIG CREW (RIG MATTING BESIDE PUMP HOUSE - SAFETY LINE ON HCR LINE)
06:45	07:00	0.25	21	HANDOVER SAFETY MEETING WITH CREWS
07:00	07:45	0.75	21A	H2S BOP DRILL, DISCUSED PROCEDURES AND RESPONSIBILITIES WITH BOTH CREWS
07:45	12:00	4.25	2C	DRILL OUT FLOAT, CEMENT AND SHOE. TO 360 M.FLOAT @ 346 M.

Remarks: VIS INSP DRAWWORKS BRAKES LINKAGES & SAFETY KEEPERS F/T CROW SAVER INSP FLOOR EQUIPMENT TONGS SLIPS DOG COLLAR FOR SAFET KEEPERS & OVERALL CONDITION F/T STABBING VALVE C/O F/T BLIND RAMS OUT OF HOLE 5 SEC TO CLOSE

SAFETY

Safety Topic	MEHL	MACP
H2S BOP DRILL	28.00kdaN	4353kPa

TOUR 2

SIGNATURE OF DRILLER: DUSTIN GIBSON

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	2
Size	222
IADC Code	M 3 3 2
Manufacturer	REED
Type	MSF 513 M - A 3 D
Serial No	128437
Jets	10.3 10.3 10.3 10.3
	10.3 10.3 10.3
Depth Out (m)	
Depth In (m)	361
Total Drilled (m)	170
Hrs Run Today	10.00
Cumulative Hrs Run	14.25
Entry Date	2011/01/25

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
361m	531m	DRILL	100	4kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.27m
1	BIT SUB	128	60	.77m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.60m
14	DC (5.00 IN)	126	60	134.37m
1	JARS-HYD/MECH	125	59	5.32m
9	HWDP(4.0 IN)	102	64	84.41m
15	Drill Pipe	Stands		285.22m
0	Drill Pipe	Singles		0.00m
	Kelly Down			8.46m
	Total			531.00m
	Weight of DC			24kdaN
	Weight of String			30kdaN

HOLE CONDITION

Hole Drag: Up 2 | Down 1

Torque at Bottom	150.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	18:00
Density	1050	1060
Funnel Viscosity	38s/l	38s/l
Fluid Loss		
pH	9	9.5
Location of Sample	SHAKER	SHAKER
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	3100	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	522	@	50	@	402
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
15:30	398m	.5	0	TELEDRIFT
	411m	.5	0	TELEDRIFT
	458m	1	0	TELEDRIFT
	495m	1.5	0	TELEDRIFT

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1060	1050	1850

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9	270

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	15:00	3.00	2	DRILL 222MM HOLE FROM 361M- 411M
15:00	15:15	0.25	7	RIG SERVICE
15:15	16:30	1.25	2	DRILL 222MM HOLE FROM 411M- 430M
16:30	17:00	0.50	21	HG INSPECTION WAS COMPLETED BY THE NEB, INSPECTORS RICK TURNER AND LORI CROAL, SITE HAZARD REVIEW CONDUCTED AND GENERAL DISCUSSION AND Q&A SESSION HELD
17:00	19:00	2.00	2	DRILL 222MM HOLE 440M- 462M
19:00	19:15	0.25	21	HANDOVER SAFETY MEETING WITH RIG CREWS
19:15	23:00	3.75	2	DRILL 222MM HOLE FR/ 462M TO 531M
23:00	24:00	1.00	10	ACCUM TELDRIFT SURVEYS & CONNECTIONS

Remarks: VIS INSP DRAWWORKS DRIVE LINE BRAKES PINS KEEPERS & LINKAGES F/T CROWN SAVER INSP FLOOR EQUIPMENT TONGS SLIPS DOG COLLAR DIES PINS & OVERALL CONDITION F/T ANNULAR 29 SEC TO CLOSE F/T STABBING VALVE C/O

SAFETY

Safety Topic	MEHL	MACP
H2S BOP DRILL WITH CREW	30.00kdaN	4353kPa

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag: Up | Down

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110125_1A	Pason	2011	01	25

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.27
1	BIT SUB	128.00	60.00	.77
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.60
14	DC (5.00 IN)	126.00	60.00	134.37
1	JARS-HYD/MECH	125.00	59.00	5.32
9	HWDP(4.0 IN)	102.00	64.00	84.41
6	Drill Pipe		Stands	113.97
0	Drill Pipe		Singles	0.00
	Kelly Down			9.71
	Total			361.00
	Weight of DC			24.00
	Weight of String			26.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.27
1	BIT SUB	128.00	60.00	.77
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.60
14	DC (5.00 IN)	126.00	60.00	134.37
1	JARS-HYD/MECH	125.00	59.00	5.32
9	HWDP(4.0 IN)	102.00	64.00	84.41
15	Drill Pipe		Stands	285.22
0	Drill Pipe		Singles	0.00
	Kelly Down			8.46
	Total			531.00
	Weight of DC			24.00
	Weight of String			30.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	Rig site H/S	H2S BOP DRILL, DISCUSED CREW PROCEDURES AND RESPONCIBILITYS	07:00	
1	JSA REVIEW	B-35 RIG TONG USE, B-37 TUGGER(PROPER HANDLING)	07:00	
2	JSA REVIEW	B-49 TONG DIE CHANGE OUT	12:00	

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MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110125_1A	Pason	2011	01	25

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** FLOC WATER **WATER** x **OIL** ☐ **OTHER**

Time		02:00	06:00	10:00														
Density		1040kg/m3	1040kg/m3	1050kg/m3														
Funnel Viscosity		38s/l	38s/l	38s/l														
Fluid Loss																		
Fluid pH		9	9	10														
Location of Sample		SHAKER	SHAKER	SHAKER														
Depth																		
PVT																		
Test 1	Type (Ex: Chlorides)																	
	Value																	
Test 2	Type (ex: Sand%)																	
	Value																	
Test 3	Type (ex: Hard Ca)																	
	Value																	
Test 4	Type (ex: Sulfides)																	
	Value																	

MUD SAMPLE REMARKS

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MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110125_1A	Pason	2011	01	25

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** FLOC WATER **WATER** x **OIL** ☐ **OTHER**

Time	14:00	18:00	22:00														
Density	1050kg/m3	1060kg/m3	1060kg/m3														
Funnel Viscosity	38s/l	38s/l	38s/l														
Fluid Loss																	
Fluid pH	9	9.5	9.5														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth																	
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110126_1A	Pason	2011	01	26

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
[redacted] BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1		10.25					0.25			1.25											0.25					12.00
Tour 2		10.75					0.25			0.75											0.25					12.00
Tour 3																										
Total		21.00					0.50			2.00											0.50					24.00

Kelly Bushing 4.08 | Op Fuel

FUEL @ 08:00 HOURS

Rig | Boiler | Sump

WEATHER

Sites 06:00 -9.00

Current Conditions: CLEAR

Wind Direction: S | Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 END TIME: 12.00

BITS

Bit Number	2
Size	222
IADC Code	M 3 3 2
Manufacturer	REED
Type	MSF 513 M - A 3 D
Serial No	128437
Jets	10.3 10.3 10.3 10.3
	10.3 10.3 10.3
Depth Out (m)	638
Depth In (m)	361
Total Drilled (m)	277
Hrs Run Today	10.25
Cumulative Hrs Run	24.25
Entry Date	2011/01/25

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	11.42
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
531m	638m	DRILL	120	4.5kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.27m
1	BIT SUB	128	60	.77m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.60m
14	DC (5.00 IN)	126	60	134.37m
1	JARS-HYD/MECH	125	59	5.32m
9	HWDP(4.0 IN)	102	64	84.41m
20	Drill Pipe	Stands		381.13m
1	Drill Pipe	Singles		9.17m
	Kelly Down			10.38m
	Total			638.00m
	Weight of DC			24kdaN
	Weight of String			30kdaN

HOLE CONDITION

Hole Drag Up [ ] Down [ ]

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	02:00	06:00
Density	1060	1030
Funnel Viscosity	39s/l	37s/l
Fluid Loss		
pH	9	9.5
Location of Sample	SHAKER	SHAKER
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	3500	12

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	250	@	55	@	543
1	660	@	50	@	610
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
	544m	1	0	TELEDRIFT
	591m	2	0	TELEDRIFT
08:30	597m	2.0	0	TELEDRIFT
11:00	616m	2.0	0	TELEDRIFT

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1060	1050	1700

MUD MATERIALS ADDED

Product	Amount	Type
SAWDUST	40	SACK
ENVIROFLOC	10	SACK
DEFOAMER	2	PAIL
DETERGENT	2	PAIL
HYPERDRILL 247RD	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	00:45	0.75	2	DRILL 222MM HOLE FR/ 531M TO 543m
00:45	01:00	0.25	7	RIG SERVICE GREASE WASH PIPE BLOCKS DRAWWORKS DRIVE LINE CHECK OIL LEVEL IN
				GEAR BOX & FLOOR MOTOR F/T ANNULAR 20 SEC TO CLOSE F/T STABBING VALVE C/O
01:00	07:00	6.00	2	DRILL 222MM HOLE FR/ 543M TO 602M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	10:45	3.50	2	DRILL 222MM HOLE FROM 602M- 638M
10:45	12:00	1.25	10	ACCUMULATIVE DEVIATION SURVEY, CONNECTIONS WORK PIPE

Remarks: VIS INSP PUMP MUD TANK DRAWWORKS DRIVE LINE & GEAR BOX OIL LEVEL INSP ACCUMULATOR VALVES & LINES F/T STABBING VALVE C/O

SAFETY

Safety Topic	MEHL	MACP
CONNECTIONS	34.00kdaN	4282kPa

TOUR 2

SIGNATURE OF DRILLER: DUSTIN GIBSON

START TIME: 12:00 END TIME: 24:00

BITS

Bit Number	2
Size	222
IADC Code	M 3 3 2
Manufacturer	REED
Type	MSF 513 M - A 3 D
Serial No	128437
Jets	10.3 10.3 10.3 10.3
	10.3 10.3 10.3
Depth Out (m)	
Depth In (m)	361
Total Drilled (m)	423
Hrs Run Today	10.75
Cumulative Hrs Run	35.00
Entry Date	2011/01/25

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
638m	784m	DRILL	140	8kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.27m
1	BIT SUB	128	60	0.77m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.60m
14	DC (5.00 IN)	126	60	134.37m
1	JARS-HYD/MECH	125	59	5.32m
9	HWDP(4.0 IN)	102	64	84.41m
28	Drill Pipe	Stands		533.99m
0	Drill Pipe	Singles		0.00m
	Kelly Down			13.02m
	Total			784.33m
	Weight of DC			24kdaN
	Weight of String			35kdaN

HOLE CONDITION

Hole Drag Up [2] Down [2]

Torque at Bottom: 250.00Nm

Fill on Bottom: 0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	14:00	18:00
Density	1030	1010
Funnel Viscosity	34s/l	34s/l
Fluid Loss		
pH	8.5	8.0
Location of Sample	SHAKER	SUCTION TANK
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	4600	12

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	350	@	55	@	784
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
13:30	635m	1.5	0	TELEDRIFT
	702m	2	0	TELEDRIFT
	754m	5	0	TELEDRIFT

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1020	1010	1750

MUD MATERIALS ADDED

Product	Amount	Type
HYPERDRILL 247RD	2	SACK
DETERGENT	2	PAIL
TKPP	2	SACK
ENVIROFLOC	8	SACK
KWIKSEAL	2	SACK
HYPERDRILL 247RD	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9.5	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	15:45	3.75	2	DRILL 222MM HOLE 638M-669M
15:45	16:00	0.25	7	RIG SERVICE
16:00	19:00	3.00	2	DRILL 222MM HOLE 669M- 705M
19:00	19:15	0.25	21	HANDOVER SAFETY MEETING WITH RIG CREWS
19:15	23:15	4.00	2	DRILL 222MM HOLE FR/ 705M TO 784M
23:15	24:00	0.75	10	ACCUM TELEDRIFT SURVEYS & CONNECTIONS

Remarks: CHECK CROWN SAVER AND BREAK LINCAGES. F.T. FLARE TANK, AND PIPE RAMS 4 SECS, CL.

SAFETY

Safety Topic	MEHL	MACP
SCBA PACK TRAINING WITH CREW	38.00kdaN	4282kPa

TOUR 3

SIGNATURE OF DRILLER:

START TIME: END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag Up [ ] Down [ ]

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other [ ]

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

V. 1.2

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110126_1A	Pason	2011	01	26

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.27
1	BIT SUB	128.00	60.00	.77
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.60
14	DC (5.00 IN)	126.00	60.00	134.37
1	JARS-HYD/MECH	125.00	59.00	5.32
9	HWDP(4.0 IN)	102.00	64.00	84.41
20	Drill Pipe		Stands	381.13
1	Drill Pipe		Singles	9.17
	Kelly Down			10.38
	Total			638.00
	Weight of DC			24.00
	Weight of String			30.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.27
1	BIT SUB	128.00	60.00	0.77
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.60
14	DC (5.00 IN)	126.00	60.00	134.37
1	JARS-HYD/MECH	125.00	59.00	5.32
9	HWDP(4.0 IN)	102.00	64.00	84.41
28	Drill Pipe		Stands	533.99
0	Drill Pipe		Singles	0.00
	Kelly Down			13.02
	Total			784.33
	Weight of DC			24.00
	Weight of String			35.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	A-20 RIG SERVICE	01:00	
1	JSA REVIEW	A-35 CHECKING FLUIDS	03:00	
1	Hazard ID	BRAKE OUYT TONGS NOT HUNG UP BY CHAIN	04:00	
1	Hazard ID	TRUCKS NOT PARKED FACING EXIT	04:00	
1	N.S.M.	REVIEW LOCKOUT PROCEDURS IN NABORS DRILLING SAFETY MANIUAL 9-1.2	04:00	
2	N.S.M.	DON SCBA'S WITH CREW (PACK TRAINING) DISCUSED LOCKOUT TAG OUT PROCEDURES	12:00	

V.1.1

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110126_1A	Pason	2011	01	26

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	B-04 CONNECTIONS WITH D/P B-33 STABBING VALVE STORAGE AND INSTALATION	12:15	

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110126_1A	Pason	2011	01	26

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐
Operator's AFE	**Contractor's Job No**		**Spud Date Time**	
10N110009	C6473		2011/01/20 23:45	
Signature of Operator Representative	**Signature of Contractor's Rig Manager**		**Rig Release Date Time**	
JOSH BLINSTON	MICHAEL NUGENT			

Pason

TOUR 1 **MUD TYPE** **WATER** x **OIL** **OTHER**

Time	02:00	06:00	10:00														
Density	1060kg/m3	1030kg/m3	1030kg/m3														
Funnel Viscosity	39s/l	37s/l	34s/l														
Fluid Loss																	
Fluid pH	9	9.5	8.0														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth																	
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110126_1A	Pason	2011	01	26

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** **OTHER**

Time	14:00	18:00	22:00														
Density	1030kg/m3	1010kg/m3	1010kg/m3														
Funnel Viscosity	34s/l	34s/l	34s/l														
Fluid Loss																	
Fluid pH	8.5	8.0	8														
Location of Sample	SHAKER	SUCTION TANK	SHAKER														
Depth																	
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V.1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110127_1A	Pason	2011	01	27

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
[redacted] BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	WB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required	WB	MN
4) Well Licence & Stick Diagram Posted	WB	MN
5) Flare Lines Staked	WB	MN
6) BOP Drills Performed		
7) Visualy Inspected BOPs - Flare Lines & Degasser Lines	WB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		MN
5) Motor Kills Checked		

CAODC

pason

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	Repair Rig	Cut Off Drilg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	Other	TOTAL
HOURS Tour 1		6.75	0.25		0.50	4.00	0.25														0.25					12.00
Tour 2		10.50					0.50			0.75											0.25					12.00
Tour 3																										
Total		17.25	0.25		0.50	4.00	0.75			0.75											0.50					24.00

Kelly Bushing 4.98 | Up Fuel

FUEL @ 08:00 HOURS

Rig | Boiler

WEATHER

Time 06:00 | Temp -7.00

Current Conditions: CLEAR

Wind Direction | Wind Strength: CALM

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	2
Size	222
IADC Code	M 3 3 2
Manufacturer	REED
Type	MSF 513 M - A 3 D
Serial No	128437
Jets	10.3 10.3 10.3 10.3
	10.3 10.3 10.3
Depth Out (m)	
Depth In (m)	361
Total Drilled (m)	509
Hrs Run Today	6.75
Cumulative Hrs Run	41.75
Entry Date	2011/01/25

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
784m	870m	DRILL	120	8kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.27m
1	BIT SUB	128	60	0.77m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.60m
14	DC (5.00 IN)	126	60	134.37m
1	JARS-HYD/MECH	125	59	5.32m
9	HWDP(4.0 IN)	102	64	84.41m

33	Drill Pipe	Stands	628.66m
0	Drill Pipe	Singles	0.00m
	Kelly Down		4.02m
	Total		870.00m
	Weight of DC		24kdaN
	Weight of String		38kdaN

HOLE CONDITION

Hole Drag: Up 3 | Down 2

Torque at Bottom	280.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:00	06:00
Density	1030	1040
Funnel Viscosity	35s/l	36s/l
Fluid Loss		
pH	8	8
Location of Sample	SHAKER	SHAKER
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	5300	8

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	1459	@	60	@	798
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
	801m	.5	0	TELEDRIFT
	849m	1	0	TELEDRIFT

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1030	1950	1020

MUD MATERIALS ADDED

Product	Amount	Type
ENVIROFLOC	10	SACK
HYPERDRILL 247RD	4	SACK
SAWDUST	8	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	02:00	2.00	2	DRILL 222MM HOLE FR/ 784M TO 811M
02:00	02:15	0.25	7	RIG SERVICE GREASE WASH PIPE BLOCKS CHECK OIL LEVEL IN FLOOR MOTOR & GEAR
				BOX F/T ANNULAR 30 SEC TO CLOSE F/T STABBING VALVE C/O
02:15	06:00	3.75	2	DRILL 222MM HOLE FR/ 811M TO 860M
06:00	06:30	0.50	5D	CIRC HOLE CLEAN WORK STRING
06:30	07:00	0.50	5B	TRIP OUT OF HOLE FR/ 860M TO 751M FLOW CHECK @ 859M FLOW CHECK @ 5% 751M
07:00	07:15	0.25	21	HANDOVER SAFETY MEETING WITH RIG CREWS
07:15	08:45	1.50	5B	WIPER TRIP TO THE SHOE, HOLE WAS IN GOOD SHAPE
08:45	10:45	2.00	5A	TRIP IN HOLE FROM 350M-846M
10:45	11:00	0.25	3A	REAM & CLEAN 846M-860M
11:00	12:00	1.00	2	DRILL 860M- 870M

Remarks: VIS INSP DRAWWORKS BRAKES LINKAGES & KEEPERS F/T CROWN SAVER INSP FLOOR EQUIPMENT TONGS SLIPS DOG COLLAR & BLOCKS INSP ACCUMULATOR VALVES LINES & OIL LEVEL F/T ANNULAR 30 SEC TO CLOSE F/T STABBING VALVE C/O F/T FLARE TANK IGNITER

HOLE FILL CALCULATIONS: CALCULATED 1.61M3 MEASURED 2.90M3 DIFFERANCE + 1.29M3

driller trainer at ndl cost

SAFETY

Safety Topic	MEHL	MACP
SERVICEING EQUIPMENT	40.00kdaN	4282kPa

TOUR 2

SIGNATURE OF DRILLER: DUSTIN GIBSON

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	2
Size	222
IADC Code	M 3 3 2
Manufacturer	REED
Type	MSF 513 M - A 3 D
Serial No	128437
Jets	10.3 10.3 10.3 10.3
	10.3 10.3 10.3
Depth Out (m)	
Depth In (m)	361
Total Drilled (m)	622
Hrs Run Today	10.50
Cumulative Hrs Run	52.25
Entry Date	2011/01/25

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
870m	983m	DRILL	110	9kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.27m
1	BIT SUB	128	60	0.77m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.60m
14	DC (5.00 IN)	126	60	134.37m
1	JARS-HYD/MECH	125	59	5.32m
9	HWDP(4.0 IN)	102	64	84.41m

38	Drill Pipe	Stands	723.86m
1	Drill Pipe	Singles	9.60m
	Kelly Down		13.02m
	Total		983.80m
	Weight of DC		24kdaN
	Weight of String		40kdaN

HOLE CONDITION

Hole Drag: Up 3 | Down 3

Torque at Bottom	4500.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	18:00
Density	1050	1040
Funnel Viscosity	37s/l	35s/l
Fluid Loss		
pH	8.0	7.5
Location of Sample	SUCTION TANK	SUCTION TANK
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1		152	100	5800	12

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	1350	@	60	@	983
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
14:30	856m	.5	0	TELEDRIFT
	945m	.5	0	TELEDRIFT

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
HYPERDRILL 247RD	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	16:45	4.75	2	DRILL 222MM HOLE 870M-926M
16:45	17:00	0.25	7	RIG SERVICE GREASED CROWN, DRIVE LINE, BREAK LINKAGES AND WASH PIPE
17:00	19:00	2.00	2	DRILL 2122MM HOLE 926M- 936M
19:00	19:15	0.25	21	RIG CREWS HANDOVER SAFETY MEETING
19:15	23:00	3.75	2	DRILL 222MM HOLE FR/ 936M TO 983M
23:00	23:15	0.25	7	RIG SERVICE WORK ON PASON FLOW & TORQUE
23:15	24:00	0.75	10	ACCUM TELEDRIFT SURVEYS AND CONNECTIONS

Remarks: VISUALLY INSPEPECTED CROWN SAVER, F.T. PIPE RAMS 4SECS AND FLARE TANK EGNIGHTER BOP LINES, ACCUMULATOR LINES, SLIPS, TONG BACK UP LINES.

SAFETY

Safety Topic	MEHL	MACP
ROTARY DANGER ZONE	45.00kdaN	4282kPa

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

	Drill Pipe	Stands
	Drill Pipe	Singles
	Kelly Down	
	Total	
	Weight of DC	
	Weight of String	

HOLE CONDITION

Hole Drag: Up | Down

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110127_1A	Pason	2011	01	27

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.27
1	BIT SUB	128.00	60.00	0.77
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.60
14	DC (5.00 IN)	126.00	60.00	134.37
1	JARS-HYD/MECH	125.00	59.00	5.32
9	HWDP(4.0 IN)	102.00	64.00	84.41
33	Drill Pipe		Stands	628.66
0	Drill Pipe		Singles	0.00
	Kelly Down			4.02
	Total			870.00
	Weight of DC			24.00
	Weight of String			38.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.27
1	BIT SUB	128.00	60.00	0.77
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.60
14	DC (5.00 IN)	126.00	60.00	134.37
1	JARS-HYD/MECH	125.00	59.00	5.32
9	HWDP(4.0 IN)	102.00	64.00	84.41
38	Drill Pipe		Stands	723.86
1	Drill Pipe		Singles	9.60
	Kelly Down			13.02
	Total			983.80
	Weight of DC			24.00
	Weight of String			40.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	A-04 CHANGING OIL	02:00	
1	JSA REVIEW	A-21 SERVICE EQUIPMENT	02:00	
1	Hazard ID	HAND NOT FILLING OUT CONFINED SPACE	03:00	
1	Hazard ID	TRUCKS ON LOCATION ARE PARKED FACING SHACKS NOT FACING EXIT	03:00	
1	Revised JSA	K-06 WORKING IN CELLAR (SOURE WELLS)	03:30	
2	JSA REVIEW	B-44 TRIPPING PIPE OUT B-87 PIPE SPINNER USE	12:00	

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110127_1A	Pason	2011	01	27

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** **WATER** x **OIL** **OTHER**

Time	02:00	06:00	10:00														
Density	1030kg/m3	1040kg/m3	1050kg/m3														
Funnel Viscosity	35s/l	36s/l	35s/l														
Fluid Loss																	
Fluid pH	8	8	8.0														
Location of Sample	SHAKER	SHAKER	SUCTION TANK														
Depth																	
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110127_1A	Pason	2011	01	27

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	14:00	18:00	22:00														
Density	1050kg/m3	1040kg/m3	1060kg/m3														
Funnel Viscosity	37s/l	35s/l	37s/l														
Fluid Loss																	
Fluid pH	8.0	7.5	7.5														
Location of Sample	SUCTION TANK	SUCTION TANK	SUCTION TANK														
Depth																	
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110128_1B	Pason	2011	01	28

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
H BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CADDC

pason

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	Cond Mud & Circ	Trips	7 Rig Service	Repair Rig	Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	Other	TOTAL
HOURS Tour 1	1.75	9.75																			0.50					12.00
Tour 2		11.00					0.25			0.50											0.25					12.00
Tour 3																										
Total	1.75	20.75					0.25			0.50											0.75					24.00

Kelly Bushing 4.98 | Up Fuel

FUEL @ 08:00 HOURS

Rig | Boiler

WEATHER

Time 06:00 | Temp -22.00

Current Conditions: PARTLY CLOUDY

Wind Direction | Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	2
Size	222
IADC Code	M 3 3 2
Manufacturer	REED
Type	MSF 513 M - A 3 D
Serial No	128437
Jets	10.3 10.3 10.3 10.3
	10.3 10.3 10.3
Depth Out (m)	
Depth In (m)	361
Total Drilled (m)	679
Hrs Run Today	11.00
Cumulative Hrs Run	63.25
Entry Date	2011/01/25

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
983m	1040m	DRILL	135	10.5kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.27m
1	BIT SUB	128	60	0.77m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.60m
14	DC (5.00 IN)	126	60	134.37m
1	JARS-HYD/MECH	125	59	5.32m
9	HWDP(4.0 IN)	102	64	84.41m
41	Drill Pipe	Stands		781.61m
1	Drill Pipe	Singles		9.60m
	Kelly Down			11.47m
	Total			1040.00m
	Weight of DC			24kdaN
	Weight of String			40kdaN

HOLE CONDITION

Hole Drag	Up	Down	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type	Water [x]	Oil [ ]
Other		
Time	02:00	06:00
Density	1050	1040
Funnel Viscosity	39s/l	38s/l
Fluid Loss		
pH	9	9.5
Location of Sample	SHAKER	SHAKER
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	6100	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
1	1630 @	55	@	1030
	@		@	
	@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
01:45	980m	1.0	0	TELEDRIFT

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1080	1070	1800

MUD MATERIALS ADDED

Product	Amount	Type
ENVIROFLOC	3	SACK
HYPERDRILL 247RD	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	02:00	2.00	2	DRILL 222MM HOLE FR/ 983M TO 1000M
02:00	02:15	0.25	21D	PRE-JOB SAFETY MEETING WITH ARDY RIGGING LTD. & RIG CREW ON JACKING RIG
02:15	03:15	1.00	1D	JACK SUB WITH RIG JACKERS
03:15	06:15	3.00	2	DRILL 222MM HOLE FR/ 1000M TO 1022M
06:15	07:00	0.75	1D	JACK SUB WITH RIG JACKERS
07:00	07:15	0.25	21	HANDOVER SAFETY MEETING WITH RIG CREWS
07:15	12:00	4.75	2	DRILL 222MM HOLE FR. 1022M- 1040M

Remarks: VIS INSP DRAWWORKS DRIVE LINE BRAKES & KEEPERS F/T CROWN SAVER F/T ANNULAR 30SEC TO CLOSE F/T STABBING VALVE

SAFETY

Safety Topic	MEHL	MACP
JACKING RIG	45.00kdaN	4282kPa

TOUR 2

SIGNATURE OF DRILLER: DUSTIN GIBSON

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	2
Size	222
IADC Code	M 3 3 2
Manufacturer	REED
Type	MSF 513 M - A 3 D
Serial No	128437
Jets	10.3 10.3 10.3 10.3
	10.3 10.3 10.3
Depth Out (m)	
Depth In (m)	361
Total Drilled (m)	746
Hrs Run Today	11.00
Cumulative Hrs Run	74.25
Entry Date	2011/01/25

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1040m	1107m	DRILL	100	10kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.27m
1	BIT SUB	128	60	0.77m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.60m
14	DC (5.00 IN)	126	60	134.37m
1	JARS-HYD/MECH	125	59	5.32m
9	HWDP(4.0 IN)	102	64	84.41m
45	Drill Pipe	Stands		857.24m
0	Drill Pipe	Singles		0.00m
	Kelly Down			13.02m
	Total			1107.58m
	Weight of DC			24kdaN
	Weight of String			43kdaN

HOLE CONDITION

Hole Drag	Up 2	Down 2	
Torque at Bottom			3500.00Nm
Fill on Bottom			0.00m

MUD RECORD

Mud Type	Water [x]	Oil [ ]
Other		
Time	14:00	18:00
Density	1110	1120
Funnel Viscosity	34s/l	37s/l
Fluid Loss		
pH	8.0	8
Location of Sample	SHAKER	SHAKER
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	6200	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
1	1700 @	60	@	1079
	@		@	
	@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
14:30	1036m	5	0	TELEDRIFT
	1078m	5	0	TELEDRIFT

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1140	1130	1860

MUD MATERIALS ADDED

Product	Amount	Type
GEL	20	SACK
CAUSTIC	1	SACK
KELZAN XCD	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9.5	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	16:45	4.75	2	DRILL 222MM HHOLE FROM 1040M- 1060m
16:45	17:00	0.25	7	RIG SERVICE CHECK OILS, GREASE BLOCKS, WASH PIPE, SWIVEL, DRAW WORKS, BREAK
				LINKAGES, TABLE
17:00	19:00	2.00	2	DRILL 222MM HOLE FR 1060M- 1069M
19:00	19:15	0.25	21	PRE TOUR HANDOVER SAFETY MEETING WITH RIG CREWS
19:15	23:30	4.25	2	DRILL 222MM HOLE FR/ 1069M TO 1107M
23:30	24:00	0.50	10	ACCUM TELEDRIFT SURVEYS & CONNECTIONS

Remarks: VISUALY INSPECT ALL RIG FLOOR EQUIPMENT (TONGS, SLIPS, BACK UP LINES, MAKE UP AND BREAK OUT CHAINS) F.T. CROWN SAVER AND PIPE RAMS 45ECS TO CLOSE. F.T. FLARE TANK IGNIGHTER.

DRILLER TRAINER AT NDL COST

SAFETY

Safety Topic	MEHL	MACP
STEAM USE	47.00kdaN	3894kPa

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag	Up	Down	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type	Water [ ]	Oil [ ]
Other		
Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
	@		@	
	@		@	
	@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110128_1B	Pason	2011	01	28

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.27
1	BIT SUB	128.00	60.00	0.77
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.60
14	DC (5.00 IN)	126.00	60.00	134.37
1	JARS-HYD/MECH	125.00	59.00	5.32
9	HWDP(4.0 IN)	102.00	64.00	84.41
41	Drill Pipe		Stands	781.61
1	Drill Pipe		Singles	9.60
	Kelly Down			11.47
	Total			1040.00
	Weight of DC			24.00
	Weight of String			40.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.27
1	BIT SUB	128.00	60.00	0.77
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.60
14	DC (5.00 IN)	126.00	60.00	134.37
1	JARS-HYD/MECH	125.00	59.00	5.32
9	HWDP(4.0 IN)	102.00	64.00	84.41
45	Drill Pipe		Stands	857.24
0	Drill Pipe		Singles	0.00
	Kelly Down			13.02
	Total			1107.58
	Weight of DC			24.00
	Weight of String			43.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	A-37 working in cold / warm weather	03:00	
1	JSA REVIEW	A-51 CREW CAB OPERATIONS	03:00	
2	JSA REVIEW	A-25 STEAM USE, B-38 SNOW REMOVAL	12:00	

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110128_1B	Pason	2011	01	28

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** **WATER** x **OIL** **OTHER**

Time	02:00	06:00	10:00														
Density	1050kg/m3	1040kg/m3	1110kg/m3														
Funnel Viscosity	39s/l	38s/l	34s/l														
Fluid Loss																	
Fluid pH	9	9.5	8.0														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth																	
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110128_1B	Pason	2011	01	28

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐
Operator's AFE	**Contractor's Job No**		**Spud Date Time**	
10N110009	C6473		2011/01/20 23:45	
Signature of Operator Representative	**Signature of Contractor's Rig Manager**		**Rig Release Date Time**	
JOSH BLINSTON	MICHAEL NUGENT			

Pason

TOUR 2 **MUD TYPE** GEL **WATER** x **OIL** ☐ **OTHER**

Time	14:00	18:00	22:00														
Density	1110kg/m3	1120kg/m3	1140kg/m3														
Funnel Viscosity	34s/l	37s/l	42s/l														
Fluid Loss			22cm3														
Fluid pH	8.0	8	8														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth			1088m														
PVT			53m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110129_1A	Pason	2011	01	29

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CADDC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1		3.00			0.75	7.75	0.25														0.25					12.00
Tour 2		1.50			1.75	1.25									0.50						0.50				6.50	12.00
Tour 3																										
Total		4.50			2.50	9.00	0.25								0.50						0.75				6.50	24.00

Daily Bushing 4.98 | Op Fuel

FUEL @ 08:00 HOURS

Rig | Boiler

WEATHER

Time 06:00 | Temp -24.00

Current Conditions: PARTLY CLOUDY

Wind Direction | Wind Strength: CALM

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	3
Size	222
IADC Code	4 4 7
Manufacturer	REED
Type	R15MP
Serial No	EM2856
Jets	14.3 14.3 14.3
Depth Out (m)	
Depth In (m)	1114
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	0.00
Entry Date	2011/01/29

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1107m	1114m	DRILL	120	12kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.27m
1	BIT SUB	128	60	0.77m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.60m
9	DC (5.00 IN)	126	60	86.35m
1	JARS-HYD/MECH	125	59	5.32m
5	DC (5.00 IN)	126	60	48.02m
9	HWDP(4.0 IN)	102	64	84.41m
45	Drill Pipe	Stands		857.24m
1	Drill Pipe	Singles		9.36m

Kelly Down	10.08m
Total	1114.00m
Weight of DC	24kdaN
Weight of String	43kdaN

HOLE CONDITION

Hole Drag	Up 3 Down 3
Torque at Bottom	4500.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	02:00	06:00
Density	1120	1120
Funnel Viscosity	43s/l	45s/l
Fluid Loss		
pH	8.5	9
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	7200	5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
1	1390 @	60 @	1113
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1120	1110	1700

MUD MATERIALS ADDED

Product	Amount	Type
CAL CARB 325	27	SACK
KELZAN	1	SACK
GEL	10	SACK
LIGNITE	2	SACK
SAWDUST	75	SACK
CAUSTIC	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	03:00	3.00	2	DRILL 222MM HOLE FR/ 1107M TO 1114m
03:00	03:45	0.75	5D	CIRCULATE BOTTOMS UP & WORK STRING
03:45	07:00	3.25	5B	TRIP OUT OF HOLE FR/ 1114M TO 136M FLOW CHECK @ 1114M FLOW CHECK @ 5% 1009M
				PUMP PILL @ 1009M 50% FLOW CHECK @ 550M
07:00	07:15	0.25	21	PRE TOUR SAFETY MEETING WITH RIG CREWS
07:15	08:30	1.25	5B	CONTINUE TRIP OUT OF HOLE FLOW CHECK @ 240 M. O.O.H
08:30	08:45	0.25	7	RIG SERVICE F/T BLIND RAMS , HCR VALVE
08:45	12:00	3.25	5A	MADE UP A REED 447 TRI-CONE AND TRIPPED IN HOLE . FILL PIPE @ 350M. FLOW CHECK @ 551 M.

Remarks: VIS INSP DRAWWORKS DRIVE LINE GEAR BOX OIL LEVEL MOTOR OIL & BRAKES F/T CROWN SAVER INSP FLOOR EQUIPMENT TONGS & TONG LINES SLIPS & DOG COLLAR F/T STABBING VALVE F/T ANNULAR 29 SEC TO CLOSE

HOLE FILL CALCULATIONS : CALCULATED= 4.73 M3 MEASURED= 5.76. DIFF= +1.03 M3 MORE

SAFETY

Safety Topic	MEHL	MACP
FLOW CHECKING WELL	45.00kdaN	3894kPa

TOUR 2

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	3
Size	222
IADC Code	4 4 7
Manufacturer	REED
Type	R15MP
Serial No	EM2856
Jets	14.3 14.3 14.3
Depth Out (m)	
Depth In (m)	1114
Total Drilled (m)	7
Hrs Run Today	1.50
Cumulative Hrs Run	1.50
Entry Date	2011/01/29

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1114m	1121m	DRILL	100	14kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.27m
1	BIT SUB	128	60	0.77m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.60m
9	DC (5.00 IN)	126	60	86.35m
1	JARS-HYD/MECH	125	59	5.32m
5	DC (5.00 IN)	126	60	48.02m
9	HWDP(4.0 IN)	102	64	84.41m
46	Drill Pipe	Stands		876.48m
0	Drill Pipe	Singles		0.00m

Kelly Down	7.20m
Total	1121.00m
Weight of DC	24kdaN
Weight of String	44kdaN

HOLE CONDITION

Hole Drag	Up 2 Down 2
Torque at Bottom	2400.00Nm
Fill on Bottom	1.50m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	14:00	22:00
Density	1120	1120
Funnel Viscosity	45s/l	43s/l
Fluid Loss		12cm3
pH	8.5	8.5
Location of Sample	SHAKER	SHAKER
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	5000	12

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
1	1250 @	60 @	1117
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1130	1120	1760

MUD MATERIALS ADDED

Product	Amount	Type
SODA ASH	2	SACK
KELZAN	1	SACK
CAUSTIC	1	SACK
GEL	10	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	13:15	1.25	5A	CONTINUE TO TRIP IN HOLE
13:15	15:00	1.75	5	CIRCULATE CLEAN HOLE
15:00	15:15	0.25	25	FLOW CHECK / PRE JOB SAFETY MEETING
15:15	19:00	3.75	25	PREPARE TO SKID RIG. SKID SAME, RELEVEL RIG AND RIG UP FRONT END OF RIG.
19:00	19:15	0.25	21	SAFETY MEETING WITH RIG CREWS
19:15	21:45	2.50	25	CONT TO RIG IN HCR LINE FLARE TANK LINE & ALL SAFETY LINES
21:45	22:00	0.25	21D	PRE-JOB SAFETY MEETING WITH RIG CREW & PRESSURE TESTER
22:00	22:30	0.50	15	PRESSURE TEST HCR LINE TO 1500KPA LOW & 14000KPA HIGH FOR 10MINs EACH (RIG IN & OUT PRESSURE TESTER)
22:30	24:00	1.50	2	DRILL 222MM HOLE FROM 1114M TO 1121M

Remarks: DRILLER TRAINER AT NDL COST

SAFETY

Safety Topic	MEHL	MACP
GOOD COMMUNICATION	46.00kdaN	3894kPa

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe Stands

Drill Pipe Singles

Kelly Down

Total

Weight of DC

Weight of String

HOLE CONDITION

Hole Drag	Up Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other [ ]

Time | Density | Funnel Viscosity | Fluid Loss | pH | Location of Sample | Depth | PVT

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

V. 1.2

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110129_1A	Pason	2011	01	29

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.27
1	BIT SUB	128.00	60.00	0.77
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.60
9	DC (5.00 IN)	126.00	60.00	86.35
1	JARS-HYD/MECH	125.00	59.00	5.32
5	DC (5.00 IN)	126	60	48.02
9	HWDP(4.0 IN)	102.00	64.00	84.41
45	Drill Pipe		Stands	857.24
1	Drill Pipe		Singles	9.36
	Kelly Down			10.08
	Total			1114.00
	Weight of DC			24.00
	Weight of String			43.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.27
1	BIT SUB	128.00	60.00	0.77
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.60
9	DC (5.00 IN)	126.00	60.00	86.35
1	JARS-HYD/MECH	125.00	59.00	5.32
5	DC (5.00 IN)	126	60	48.02
9	HWDP(4.0 IN)	102.00	64.00	84.41
46	Drill Pipe		Stands	876.48
0	Drill Pipe		Singles	0.00
	Kelly Down			7.20
	Total			1121.00
	Weight of DC			24.00
	Weight of String			44.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	Revised JSA	JACKING RIG WITH RIG JACKERS	02:00	
1	Revised JSA	BLOWING BOILER DOWN WITH BLOW DOWN TANK	02:00	
2	JSA REVIEW	PREPARE RIG SUB FOR SKIDDING (DERRICK STANDING). RIG OUT FROUNT OF RIG (MANIFOLD/CATWALK, PIPE TABLE AND RACKS). SKID SUB AND DERRICK WITH TRUCKS. JACKING RIG WITH RIG JACKERS.	15:00	

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110129_1A	Pason	2011	01	29

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** **WATER** x **OIL** **OTHER**

Time		02:00	06:00	10:00													
Density		1120kg/m3	1120kg/m3	1120kg/m3													
Funnel Viscosity		43s/l	45s/l	45s/l													
Fluid Loss																	
Fluid pH		8.5	9	8.5													
Location of Sample																	
Depth																	
PVT																	
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110129_1A	Pason	2011	01	29

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** **OTHER**

Time	14:00	22:00															
Density	1120kg/m3	1120kg/m3															
Funnel Viscosity	45s/l	43s/l															
Fluid Loss		12cm3															
Fluid pH	8.5	8.5															
Location of Sample	SHAKER	SHAKER															
Depth																	
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

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EQUIPMENT & SERVICES

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110129_1A	Pason	2011	01	29

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

GENERAL EQUIPMENT & SERVICE

Description	Make	Model	Provided by	Expense of	Rental Company	Serial No	Usage	Quantity	Quantity Used
NDL LOADER UNIT # 214	JOHN DEERE	54H	CONTRACTOR	OPERATOR	NDL	UNIT # 214	24		
Remarks:									
NDL CREW TRUCK UNIT # 122	FORD	F-250	CONTRACTOR	OPERATOR	NDL	UNIT # 122	24		
Remarks:									
Remarks:									

BOILERS

Boiler No	Make	Model	Provided by	Expense of	Rental Company	Serial No	Hours Today
1	REGENT	CSAH-100	CONTRACTOR	OPERATOR	NDL	100-1272	24
Remarks:							
Remarks:							
Remarks:							

SHALE SHAKERS

Shaker No	Make	Model	Screen 1				Screen 2				Screen 3				Screen 4			
			Position	Size	ScreenChanged?	New?	Position	Size	Screen Changed?	New?	Position	Size	Screen Changed?	New?	Position	Size	Screen Changed?	New?
1	SWACO	ALS II	1	175	☐	☐	2	210	☐	☐			☐	☐			☐	☐
Remarks:																		
					☐	☐			☐	☐			☐	☐			☐	☐
Remarks:																		
					☐	☐			☐	☐			☐	☐			☐	☐
Remarks:																		

MUD PUMPS

Pump No	Make	Model	Provided by	Expense of	Rental Company	Serial No	Hours Today	Stroke Length	Rod Size	Pump Style
1	CPMP	NB-800	CONTRACTOR	CONTRACTOR	NDL		17	228.6mm		TRIPLEX
Remarks:										
Remarks:										
Remarks:										

BITS

Bit No	Size	IADC Code				Manufacturer	Type	Serial No	Jets								Depth In	Depth Out	Total Drilled	Total Hours Run Today	Cumulative Hours Run	Entry Date	Cutting Structure									Tour
		1	2	3	4				1	2	3	4	5	6	7	8							TI	T0	MDC	LOC	BRG	Gage	ODC	Reason Pulled	Total Run m/Hr	
2	222.00-mm	M	3	3	2	REED	MSF 513 M - A 3 D	128437	10.30-mm	10.30-mm	10.30-mm	10.3-0mm	10.3-0mm	10.30-mm	10.30-mm		361.00m	1114.0-0m	753.00m	3.00	72.00	11/01/25	3	6	BT	S	X	1.00mm	CT	PR	10.46m/hr	1
3	222.00-mm	4	4	7		REED	R15MP	EM2856	14.30-mm	14.30-mm	14.30-mm						1114.0-0m				0.00	11/01/29										1
3	222.00-mm	4	4	7		REED	R15MP	EM2856	14.30-mm	14.30-mm	14.30-mm						1114.0-0m		7.00m	1.50	1.50	11/01/29										2

V. 1.2

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110130_1A	Pason	2011	01	30

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	Cond Mud & Circ	Trips	7 Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1		7.75	0.75				0.50														0.25				2.75	12.00
Tour 2		11.00					0.25														0.25				0.50	12.00
Tour 3																										
Total		18.75	0.75				0.75														0.50				3.25	24.00

Kelly Bushing 4.64 | Op Fuel

FUEL @ 08:00 HOURS

Rig | Boiler

WEATHER

Time 06:00 | Temp -24.00

Current Conditions: OVERCAST

Wind Direction: N | Wind Strength: CALM

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	3
Size	222
IADC Code	4 4 7
Manufacturer	REED
Type	R15MP
Serial No	EM2856
Jets	14.3 14.3 14.3
Depth Out (m)	
Depth In (m)	1114
Total Drilled (m)	40
Hrs Run Today	7.50
Cumulative Hrs Run	9.00
Entry Date	2011/01/29

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1121m	1154m	DRILL	110	14kdaN
1112m	1134m	REAM	100	2kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.27m
1	BIT SUB	128	60	0.77m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.60m
9	DC (5.00 IN)	126	60	86.35m
1	JARS-HYD/MECH	125	59	5.32m
5	DC (5.00 IN)	126	60	48.02m
9	HWDP(4.0 IN)	102	64	84.41m
46	Drill Pipe	Stands		876.48m
0	Drill Pipe	Singles		0.00m

Kelly Down	7.20m
Total	1121.00m
Weight of DC	24kdaN
Weight of String	44kdaN

HOLE CONDITION

Hole Drag Up 3 Down 3

Torque at Bottom	2400.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:00	06:00
Density	1120	1120
Funnel Viscosity	46s/l	44s/l
Fluid Loss	10cm3	8cm3
pH	9	9
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	5800	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	1250	@	65	@	1117
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
	1136m	.5	0	TELEDRIFT

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1120	1110	1700

MUD MATERIALS ADDED

Product	Amount	Type
DRISPAC	2	SACK
LIGNITE	4	SACK
SODA ASH	2	SACK
ULTRAFLOC	2	PAIL
CAUSTIC	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	01:15	1.25	2	DRILL 222MM HOLE FR/ 1121M TO 1126M
01:15	01:45	0.50	7	RIG SERVICE GREASE WASH PIPE ROTARY TABLE DRIVE LINE CHECK OIL LEVEL IN
				FLOOR MOTOR GEAR BOX DRAWWORKS F/T ANNULAR 29 SEC TO CLOSE
01:45	04:00	2.25	2	DRILL 222MM HOLE FR/ 1126M TO 1136M
04:00	04:45	0.75	3A	WORK TIGHT HOLE LAY OUT 1 SINGLE WORK THROUEH TIGHT SPOT FR/ 1134M TO 1112M
				REAM & CLEAN
04:45	07:00	2.25	2	DRILL 222MM HOLE FR/ 1136M TO 1145M
07:00	07:15	0.25	21	SAFETY MEETING WITH CREWS
07:15	09:15	2.00	25	WORK TIGHT SPOTS 1145M-1125M
09:15	11:15	2.00	2	DRILL 222MM HOLE FR/ 1145M-1154M
11:15	12:00	0.75	25	WORK TIGHT SPOTS 1130M-1154M LAY OUT TWO SINGLES

Remarks: VIS INSP DRAWWORKS DRIVE LINE & MOTOR OIL LEVEL & GEAR BOX OIL LEVEL F/T CROWN SAVER INSP ACCUMULAROR LINES VALVES & OIL LEVEL INSP B.O.P & MANIFOLD LINES VALVES & SAFETY LINES F/T ANNULAR 31SEC TO CLOSE F/T STABBING VALVE C/O

SAFETY

Safety Topic	MEHL	MACP
DRILL PIPE CONNECTION	60.00kdaN	

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	3
Size	222
IADC Code	4 4 7
Manufacturer	REED
Type	R15MP
Serial No	EM2856
Jets	14.3 14.3 14.3
Depth Out (m)	
Depth In (m)	1114
Total Drilled (m)	108
Hrs Run Today	11.00
Cumulative Hrs Run	20.00
Entry Date	2011/01/29

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1154m	1222m	DRILL	105	14kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.27m
1	BIT SUB	128	60	0.77m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.60m
9	DC (5.00 IN)	126	60	86.35m
1	JARS-HYD/MECH	125	59	5.32m
5	DC (5.00 IN)	126	60	48.02m
9	HWDP(4.0 IN)	102	64	84.41m
51	Drill Pipe	Stands		0.00m
1	Drill Pipe	Singles		981.40m

Kelly Down	3.28m
Total	1222.00m
Weight of DC	24kdaN
Weight of String	44kdaN

HOLE CONDITION

Hole Drag Up 1 Down 1

Torque at Bottom	2000.00Nm
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	18:00
Density	1140	1140
Funnel Viscosity	52s/l	50s/l
Fluid Loss	12cm3	8.5cm3
pH	8.0	8.5
Location of Sample	SHAKER	SHAKER
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	102	6300	11.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	1720	@	52	@	1163
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
16:15	1160m	.5	0	TELEDRIFT
	1209.88m	.5	0	TELEDRIFT

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
LIGNITE	4	SACK
DRISPAC	2	SACK
DESCO	2	SACK
GEL	3	SACK
DETERGENT	1	PAIL
ULTRAFLOC	4	PAIL

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9.5	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	12:30	0.50	25	CONTINUE TO WORK THROUGH TIGHT SPOTS. 1130M-1154M
12:30	19:00	6.50	2	DRILL 222MM HOLE FR/1154M- 1190M
19:00	19:15	0.25	21	SAFETY MEETING W/ BOTH CREWS
19:15	23:45	4.50	2	DRILL 222MM HOLE FROM 1190M TO 1222M
23:45	24:00	0.25	7	RIG SERVICE GREASE WASHPIPE, ROTARY TABLE, DRIVELINE CHECK OIL IN FLOOR
				MOTOR AND GEAR BOX FUNCTION PIPE RAMS 3 SEC TO CLOSE

Remarks: VISUALY INSPECT BREAKS LINKAGES, FLOOR EQUIPMENT, F.T. PIPE RAMS 4SECS. TO CLOSE AND FLAIRE TANK EGNITER

SAFETY

Safety Topic	MEHL	MACP
TIGHT HOLE		

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag Up Down

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110130_1A	Pason	2011	01	30

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.27
1	BIT SUB	128.00	60.00	0.77
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.60
9	DC (5.00 IN)	126.00	60.00	86.35
1	JARS-HYD/MECH	125.00	59.00	5.32
5	DC (5.00 IN)	126	60	48.02
9	HWDP(4.0 IN)	102.00	64.00	84.41
46	Drill Pipe		Stands	876.48
0	Drill Pipe		Singles	0.00
	Kelly Down			7.20
	Total			1121.00
	Weight of DC			24.00
	Weight of String			44.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.27
1	BIT SUB	128.00	60.00	0.77
1	DC (5.00 IN)	128.00	60.00	9.58
1	TELEDRIFT	125.00	59.00	2.60
9	DC (5.00 IN)	126.00	60.00	86.35
1	JARS-HYD/MECH	125.00	59.00	5.32
5	DC (5.00 IN)	126	60	48.02
9	HWDP(4.0 IN)	102.00	64.00	84.41
51	Drill Pipe		Stands	0.00
1	Drill Pipe		Singles	981.40
	Kelly Down			3.28
	Total			1222.00
	Weight of DC			24.00
	Weight of String			44.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	A-23 STARTING ENGINES	01:00	
1	JSA REVIEW	B-64 WET CONNECTIONS	01:00	
2	JSA REVIEW	A-37 WORKING IN COLD AND WARM WEATHER, A-26 STORAGE OF SLINGS AND CHAINS	12:00	

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110130_1A	Pason	2011	01	30

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** GEL **WATER** x **OIL** ☐ **OTHER**

Time		02:00	06:00	10:00													
Density		1120kg/m3	1120kg/m3	1140kg/m3													
Funnel Viscosity		46s/l	44s/l	54s/l													
Fluid Loss		10cm3	8cm3	11cm3													
Fluid pH		9	9	9.0													
Location of Sample				SHAKER													
Depth																	
PVT																	
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110130_1A	Pason	2011	01	30

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	14:00	18:00															
Density	1140kg/m3	1140kg/m3															
Funnel Viscosity	52s/l	50s/l															
Fluid Loss	12cm3	8.5cm3															
Fluid pH	8.0	8.5															
Location of Sample	SHAKER	SHAKER															
Depth																	
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V.1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110131_1A	Pason	2011	01	31

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1		3.25			0.75	7.75															0.25					12.00
Tour 2						5.75	0.25													5.50	0.50					12.00
Tour 3																										
Total		3.25			0.75	13.50	0.25													5.50	0.75					24.00

WEATHER

Kelly Bushing 5.25 | Up Fuel

FUEL @ 08:00 HOURS

Rig 108.00 | Boiler 0.00

Time 06:00 | Temp -22.00

Current Conditions: PARTLY CLOUDY

Wind Direction | Wind Strength: LIFT TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	3
Size	222
IADC Code	4 4 7
Manufacturer	REED
Type	R15MP
Serial No	EM2856
Jets	14.3 14.3 14.3
Depth Out (m)	1240
Depth In (m)	1114
Total Drilled (m)	126
Hrs Run Today	3.25
Cumulative Hrs Run	23.25
Entry Date	2011/01/29

CUTTING STRUCTURE

TI	1	Gage	0
TO	1	ODC	NO
MDC	WT	Reason Pulled	BHA
LOC	A	Total Run (m/hr)	5.42
BRG	E		

METRES DRILLED

From	To	D-R-C	RPM	WOB
1222m	1240m	DRILL	110	24kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.27m
1	BIT SUB	128	60	0.77m
1	DC (5.00 IN)	128	60	9.58m
1	TELEDRIFT	125	59	2.60m
9	DC (5.00 IN)	126	60	86.35m
1	JARS-HYD/MECH	125	59	5.32m
5	DC (5.00 IN)	126	60	48.02m
9	HWDP(4.0 IN)	102	64	84.41m

52	Drill Pipe	Stands	981.40m
1	Drill Pipe	Singles	9.60m
	Kelly Down		11.68m
	Total		1240.00m
	Weight of DC		24kdaN
	Weight of String		44kdaN

HOLE CONDITION

Hole Drag: Up | Down

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:00	06:00
Density	1130	
Funnel Viscosity	50s/l	
Fluid Loss	7cm3	
pH	8.5	
Location of Sample	SHAKER	
Depth	1200m	
PVT	60m3	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	5800	12

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1130	1120	1880

MUD MATERIALS ADDED

Product	Amount	Type
ULTRAFLOC	3	PAIL
STARDRIL	2	SACK
DETERGENT	1	PAIL
KELZAN	1	SACK
LIGNITE	4	SACK
CAL CARB 325	40	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9.5	270

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	03:15	3.25	2	DRILL 222MM HOLE FROM 1222M TO 1240M
03:15	04:00	0.75	5	CIRCULATE HOLE CLEAN
04:00	07:00	3.00	3	POOH TO PICK UP DIR TOOLS , LAY DWN 42 JOINTS DP AND DC'S
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	09:45	2.50	5	CONTINUE TO POOH. D.P.
09:45	12:00	2.25	6	LAYDOWN 5" D.C.

Remarks:

SAFETY

Safety Topic	MEHL	MACP

TOUR 2

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	4
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	
Depth Out (m)	
Depth In (m)	1240
Total Drilled (m)	0
Hrs Run Today	0.00
Cumulative Hrs Run	0.00
Entry Date	2011/01/31

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
2	MONEL FLEX	161	76	18.12m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	121	59	5.60m
56	HWDP(4.0 IN)	102	64	523.91m

17	Drill Pipe	Stands	323.68m
0	Drill Pipe	Singles	0.00m
	Kelly Down		0.00m
	Total		947.88m
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag: Up | Down

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	96	10000	1

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9.5	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	12:15	0.25	7	RIG SERVICE F/T BLIND RAMS 4 SECS CL.
12:15	12:30	0.25	21D	PRE-JOB SAFETY MEETING WITH DIRECTIONAL HANDS
12:30	17:00	4.50	20	PICK UP DIRECTIONAL TOOLS
17:00	19:00	2.00	6C	P/U 38 JOINTS HWDP
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	23:00	3.75	3	CONTINUE TO PICK UP HWDP AND RIH FROM 360M TO 950M
23:00	24:00	1.00	20A	ACC SURVEY TIME AND TEST TOOL

Remarks: F.T. PIPE RAMS AND BLIND RAMS 4 SECS TO CLOSE. VISUALY INSPECT FLOOR EQUIPMENT.

VISUAL INSPECTION BRAKES, LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TEST CROWN SAVER, REMOTE CHOKE, FLARE STACK IGNITER

REVIEW JSA# B-87 PIPE SPINNER USE, B-89 SET SLIPS

SAFETY

Safety Topic	MEHL	MACP
LAYDOWN D.C.	60.00kdaN	

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

	Drill Pipe	Stands	
	Drill Pipe	Singles	
	Kelly Down		
	Total		
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag: Up | Down

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

V. 1.2

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110201_1B	Pason	2011	02	01

License No: 2073 | Well Name: PARA ET AL CAMERON 2H-03 HZ | Surface Location: 60:02:20.40N/117:30:06.30E | Prov: NT | Loc Type: LAT-LONG | Unique Well Id: 302/H-03/6010-11730/0

Operator: PARAMOUNT RESOURCES LTD.
Operator's AFE: 10N110009
Signature of Operator Representative: BLINSTON

Contractor: NABORS DRILLING | Rig No: 24
Contractor's Job No: C6473
Signature of Contractor's Rig Manager: MICHAEL NUGENT

Well Type: HORIZ | Re-Entry ☐
Spud Date Time: 2011/01/20 23:45
Rig Release Date Time: 2011/02/04 23:59

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required	JWB	MN
4) Well Licence & Stick Diagram Posted	JWB	MN
5) Flare Lines Staked	JWB	MN
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	JWB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked	MN	

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1		6.25	1.00			2.75	0.25	1.00												0.25	0.25				0.25	12.00
Tour 2							0.25														0.25				11.50	12.00
Tour 3																										
Total		6.25	1.00			2.75	0.50	1.00												0.25	0.50				11.75	24.00

Kelly Bushing: 8.25 | Dip Fuel
FUEL @ 08:00 HOURS
Rig: 155.00 | Boiler: 0.00
Time: 06:00 | Temp: -12.00
WEATHER: Current Conditions: OVERCAST | Wind Direction: SE | Wind Strength: UP TO 19 KM/H | Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	4
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	
Depth Out (m)	1280
Depth In (m)	1240
Total Drilled (m)	40
Hrs Run Today	4.00
Cumulative Hrs Run	4.00
Entry Date	2011/01/31

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	10.00
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1240m	1280m	DRILL	35	12kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
2	MONEL FLEX	161	76	18.12m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	121	59	5.60m
56	HWDP(4.0 IN)	102	64	523.91m

34	Drill Pipe	Stands	648.66m
0	Drill Pipe	Singles	0.00m
	Kelly Down		13.02m
	Total		1285.88m
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag: Up 7 | Down 7
Torque at Bottom: 2300.00Nm
Fill on Bottom: 0.50m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	04:00	06:00
Density	1120	1110
Funnel Viscosity	49s/l	55s/l
Fluid Loss	7cm3	6.5cm3
pH	8	8
Location of Sample	SHAKER	SHAKER
Depth	1245m	1310m
PVT	63m3	68m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	102	10400	12

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	@	Strokes/min	@	Depth
1	3250	@	50	@	1247
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
	1232.45m	1.2	21.5	DIRECTIONAL
	1289.66m	12.8	174.1	

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1130	1120	1840

MUD MATERIALS ADDED

Product	Amount	Type
DRISPAC	1	SACK
ULTRAFLOC	2	PAIL
LIGNITE	2	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	01:15	1.25	6	RIH FROM 950M TO 1100M
01:15	02:00	0.75	5	REAMING FROM 1100 M TO 1140M
02:00	03:30	1.50	5A	TRIP IN HOLE FROM 1140M TO 1228M
03:30	03:45	0.25	3A	WASH TOP BTTM
03:45	04:45	1.00	2	DRILL 222MM HOLE FROM 1240M TO 1247m
04:45	05:00	0.25	7	RIG SERVICE FUNCTION ANNULAR 10 SEC TO CLOSE
05:00	07:00	2.00	2	DRILL 222MM HOLE FROM 1247M TO 1257M
07:00	07:15	0.25	21	SAFETY MEETING W/ BOTH CREWS
07:15	10:30	3.25	2	DRILL 222 MM HOLE FROM 1257M TO 1280m
10:30	10:45	0.25	20A	DIRECTIONAL SURVEYS
10:45	11:45	1.00	8E	CHANGE OUT BREAKER IN LIGHT PLANT
11:45	12:00	0.25	25	PASON CRASHED, WAIT ON HOT SHOT

Remarks: VISUAL INSPECTION BRAKES , LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TEST FLARE STACK IGNITER, REMOTE CHOKE, CROWN SAVER
PIPE STRAP = 1215.82, TALLY = 1215.43M, DIFF= 0.39M

SAFETY

Safety Topic	MEHL	MACP
FALL PROTECTION		3929kPa

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	4
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	
Depth Out (m)	
Depth In (m)	1240
Total Drilled (m)	40
Hrs Run Today	0.00
Cumulative Hrs Run	4.00
Entry Date	2011/01/31

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
2	MONEL FLEX	161	76	18.12m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	121	59	5.60m
56	HWDP(4.0 IN)	102	64	523.91m

34	Drill Pipe	Stands	648.66m
0	Drill Pipe	Singles	0.00m
	Kelly Down		8.00m
	Total		1280.66m
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag: Up | Down
Torque at Bottom:
Fill on Bottom:

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	22:00	
Density	1120	
Funnel Viscosity	47s/l	
Fluid Loss	8cm3	
pH	8	
Location of Sample	SHAKERS	
Depth	1280m	
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	60	4500	9

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	@	Strokes/min	@	Depth
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1120	1110	1760

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9.5	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	19:00	7.00	25	PASON SYSTEM CRASH, WAIT ON HOT SHOT, REMOVE CASING PROTECTORS, JACK RIG,
				REBUILD POP VALVE ASSEMBLEY
19:00	19:15	0.25	21	SAFETY MEETING W/ BOTH CREWS
19:15	23:45	4.50	25	CONTINUE WAIT ON HOT SHOT, REMOVE FLOW T AND REFAB TO FIT, CHANGE OUT FLOW
				LINE TO 8", SHIM V-DOOR,
23:45	24:00	0.25	7	RIG SERVICE FUNCTION HCR O/C 3 SEC

Remarks: F.T. PIPE RAMS 4 SECS TO CLOSE, F.T. CROWN SAVER, FLAIRE TANK IGNITER, CHECK MANIFOLD AND BOP VALVE ALIGNMENT, VISUALY CHECK FLOOR EQUIPMENT

SAFETY

Safety Topic	MEHL	MACP
TRAPPED TABLE TOURQUE		

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

	Drill Pipe	Stands	
	Drill Pipe	Singles	
	Kelly Down		
	Total		
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag: Up | Down
Torque at Bottom:
Fill on Bottom:

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other [ ]

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	@	Strokes/min	@	Depth
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110201_1B	Pason	2011	02	01

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	2011/02/04 23:59

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.25
1	MOTOR LS	102.00	64.00	8.19
1	FLOAT SUB	165.00	64.00	1.11
1	ORIENT SUB	164.00	64.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
2	MONEL FLEX	161.00	76.00	18.12
1	X/O	160.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	121.00	59.00	5.60
56	HWDP(4.0 IN)	102.00	64.00	523.91
34	Drill Pipe		Stands	648.66
0	Drill Pipe		Singles	0.00
	Kelly Down			13.02
	Total			1285.88
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.25
1	MOTOR LS	102.00	64.00	8.19
1	FLOAT SUB	165.00	64.00	1.11
1	ORIENT SUB	164.00	64.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
2	MONEL FLEX	161.00	76.00	18.12
1	X/O	160.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	121.00	59.00	5.60
56	HWDP(4.0 IN)	102.00	64.00	523.91
34	Drill Pipe		Stands	648.66
0	Drill Pipe		Singles	0.00
	Kelly Down			8.00
	Total			1280.86
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	C-18 DRIFTING CASING B-49 TONG DIE CHANGE OUT	12:00	

V.1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110202_1A	Pason	2011	02	02

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐
Operator's AFE	Contractor's Job No		Spud Date Time	
10N110009	C6473		2011/01/20 23:45	
Signature of Operator Representative	Signature of Contractor's Rig Manager		Rig Release Date Time	
H BLINSTON	MICHAEL NUGENT			

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required	JWB	MN
4) Well Licence & Stick Diagram Posted	JWB	MN
5) Flare Lines Staked	JWB	MN
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	JWB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		MN
5) Motor Kills Checked		

CADDC

pason

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
HOURS Tour 1		7.75			2.00																0.25		2.00			12.00
Tour 2	4.75				7.00																0.25					12.00
Tour 3																										
Total	4.75	7.75			9.00																0.50		2.00			24.00

Kelly Bushing 5.25 | Op Fuel

FUEL @ 08:00 HOURS

Rig 155.00 | Boiler 0.00

WEATHER: Time 06:00 | Temp -2.00 | Current Conditions: PARTLY CLOUDY | Wind Direction: SE | Wind Strength: UP TO 19 KM/H | Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	4
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	14.3 14.3 14.3
Depth Out (m)	
Depth In (m)	1240
Total Drilled (m)	93
Hrs Run Today	6.50
Cumulative Hrs Run	10.50
Entry Date	2011/01/31

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1280m	1333m	DRILL	35	12kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
2	MONEL FLEX	161	76	18.12m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	121	59	5.60m
56	HWDP(4.0 IN)	102	64	523.91m
36	Drill Pipe	Stands		686.28m
1	Drill Pipe	Singles		9.61m
	Kelly Down			13.02m
	Total			1333.11m
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [x] Oil ☐ Other

Time	04:00	10:00
Density	1120	1120
Funnel Viscosity	49s/l	49s/l
Fluid Loss	8cm3	6.5cm3
pH	8	8.0
Location of Sample	SHAKERS	SHAKER
Depth	1294m	1330m
PVT	68m3	70m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	102	10350	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
1	3250	@ 50	@	1247
		@	@	
		@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
	1270.88m	3.1	184.8	DIRECTIONAL
	1280.49m	8.1	174.86	DIRECTIONAL
	1289m	12.8	174.1	DIRECTIONAL
07:30	1299m	18.0	169.8	DIRECTIONAL
08:45	1307m	22.5	169.1	DIRECTIONAL
10:00	1318m	26.4	169.2	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	02:00	2.00	23	G W/O PASON COMPUTER
02:00	07:00	5.00	2	DRILL 222 MM HOLE FROM 1280M TO 1315M
07:00	07:15	0.25	21	SAFETY MEETING W/ BOTH CREWS
07:15	10:00	2.75	2	DRILL 222 MM HOLE FROM 1315M-1333M
10:00	12:00	2.00	5	CONDITION MUD & CIRCULATE, PREPARE RIG FOR JACKING/SKIDDING WORK PIPE

Remarks: VISUAL INSPECTION BRAKES, LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TEST FLARE STACK IGNITER, REMOTE CHOKE, CROWN SAVER

SAFETY

Safety Topic	MEHL	MACP
DRIFT CASING	3965.00kdaN	

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	4
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	14.3 14.3 14.3
Depth Out (m)	
Depth In (m)	1240
Total Drilled (m)	93
Hrs Run Today	0.00
Cumulative Hrs Run	10.50
Entry Date	2011/01/31

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
2	MONEL FLEX	161	76	18.12m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	121	59	5.60m
56	HWDP(4.0 IN)	102	64	523.91m
36	Drill Pipe	Stands		686.28m
1	Drill Pipe	Singles		9.61m
	Kelly Down			13.02m
	Total			1333.11m
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [x] Oil ☐ Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	9300	8

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
1	3250	@ 50	@	1247
		@	@	
		@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
KELZAN	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9.5	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	19:00	7.00	5	CONDITION MUD & CIRCULATE, PREPARE RIG FOR JACKING/SKIDDING WORK PIPE
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	24:00	4.75	1D	TRANSFER FROM MUD TANKS TO 400 BBL PREP TANKS TO SKID , RIG OUT PASON AND ALL REMAINING GROUND WORKS , SKID DOG HOUSE, CENTER AND LEVEL BOPS JACK RIG

Remarks: F.T. PIPE RAMS AND FLAIRE TANK EGNITER. CHECKED MANIFOLD AND BOP VALVE ALIGNMENT. VISUALLY INSPECT BREAKS AND LINKAGES

SAFETY

Safety Topic	MEHL	MACP
V- DOOR		

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
		@	@	
		@	@	
		@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110202_1A	Pason	2011	02	02

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.25
1	MOTOR LS	102.00	64.00	8.19
1	FLOAT SUB	165.00	64.00	1.11
1	ORIENT SUB	164.00	64.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
2	MONEL FLEX	161.00	76.00	18.12
1	X/O	160.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	121.00	59.00	5.60
56	HWDP(4.0 IN)	102.00	64.00	523.91
36	Drill Pipe	Stands		686.28
1	Drill Pipe	Singles		9.61
	Kelly Down			13.02
	Total			1333.11
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.25
1	MOTOR LS	102.00	64.00	8.19
1	FLOAT SUB	165.00	64.00	1.11
1	ORIENT SUB	164.00	64.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
2	MONEL FLEX	161.00	76.00	18.12
1	X/O	160.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	121.00	59.00	5.60
56	HWDP(4.0 IN)	102.00	64.00	523.91
36	Drill Pipe	Stands		686.28
1	Drill Pipe	Singles		9.61
	Kelly Down			13.02
	Total			1333.11
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	K-01 FLOW T HANDLING	00:00	1280
1	JSA REVIEW	G-18 DRIFT CASING	00:00	1280
2	JSA REVIEW	B-35 RIG TONG USE A-43 TAKING SAMPLES B-68 PICKING UP PIPE FROM THE V-DOOR	12:00	

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FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
IX8424_20110203_1A	Pason	2011	02	03

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	2011/02/04 23:59

DAILY CHECKS

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

CAODC

pason

Pason

HOURS	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1					2.75																0.50				8.75	12.00
Tour 2	7.00				2.00	2.50															0.50					12.00
Tour 3																										
Total	7.00				4.75	2.50															1.00				8.75	24.00

Kelly Bushing	Op Fuel
525	

FUEL @ 08:00 HOURS

Rig	Boiler
155.00	0.00

WEATHER

Time	Temp
06:00	0.00

Current Conditions: PARTLY CLOUDY

Wind Direction	Wind Strength
	CALM

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	4
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	14.3 14.3 14.3
Depth Out (m)	
Depth In (m)	1240
Total Drilled (m)	93
Hrs Run Today	0.00
Cumulative Hrs Run	10.50
Entry Date	2011/01/31

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
2	MONEL FLEX	161	76	18.12m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	121	59	5.60m
2	HWDP(4.0 IN)	102	64	18.76m
54	HWDP(4.0 IN)	102	64	505.15m

36	Drill Pipe	Stands	686.28m
1	Drill Pipe	Singles	9.61m
	Kelly Down		13.02m
	Total		1333.11m
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag	Up ☐	Down ☐	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type	Water [x]	Oil ☐	
Other			
Time			
Density			
Funnel Viscosity			
Fluid Loss			
pH			
Location of Sample			
Depth			
PVT			

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1		152	50	0	9

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
	@		@	
	@		@	
	@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9.5	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	07:00	7.00	25	JACK RIG AND SKID
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	10:00	2.75	5	CONDITION MUD & CIRCULATE
10:00	10:15	0.25	21	SAFETY MEETING WITH RIG CREW, TRUCKERS, RIG JACKERS
10:15	12:00	1.75	25	START SECOND STEP IN JACKING AND SKIDDING RIG

Remarks:

SAFETY

Safety Topic	MEHL	MACP

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 12:00 END TIME: 24:00

BITS

Bit Number	4
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	14.3 14.3 14.3
Depth Out (m)	1333
Depth In (m)	1240
Total Drilled (m)	93
Hrs Run Today	0.00
Cumulative Hrs Run	10.50
Entry Date	2011/01/31

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	8.86
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
2	MONEL FLEX	161	76	18.12m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	121	59	5.60m
2	HWDP(4.0 IN)	102	64	18.76m
54	HWDP(4.0 IN)	102	64	505.15m

36	Drill Pipe	Stands	686.28m
1	Drill Pipe	Singles	9.61m
	Kelly Down		13.02m
	Total		1333.11m
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag	Up ☐	Down ☐	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type	Water [x]	Oil ☐	
Other			
Time	22:00		
Density	1100		
Funnel Viscosity	49s/l		
Fluid Loss	7cm3		
pH	8		
Location of Sample	SHAKERS		
Depth			
PVT	10m3		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	65	3500	6

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
	@		@	
	@		@	
	@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
BARITE	30	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	15:30	3.50	1A	SPOT WATER TANK, MUD TANKS, CATWALK BACK IN PLACE LIFT PUMP HOUSE AND BOARD
				UP.
15:30	19:00	3.50	1	RIG UP MUD TANKS, PUMP HOUSE, DOG HOUSE, INSTALL FLOW LINE
19:00	19:15	0.25	21	SAFETY MEETING WITH CREWS
19:15	21:15	2.00	5	CONDITION MUD & CIRCULATE, RIG UP PIPE TABLES, TRANSFER VOLUME TO ACTIVE
21:15	23:30	2.25	5B	TRIP OUT OF HOLE FROM 1319M TO 946M
23:30	23:45	0.25	21	SAFETY MEETING W/ CREW PRIOR TO LAY DWN DP
23:45	24:00	0.25	5F	LAY DOWN DRILL PIPE

Remarks: FUNCTION CROWN SAVER, VISUAL INSPECTION BRAKES, LINKAGE AND ALL LIFTING EQUIPMENT

SAFETY

Safety Topic	MEHL	MACP
SPOTTING BUILDINGS		

TOUR 3

SIGNATURE OF DRILLER:

START TIME: END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

	Drill Pipe	Stands	
	Drill Pipe	Singles	
	Kelly Down		
	Total		
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag	Up ☐	Down ☐	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type	Water ☐	Oil ☐	
Other			
Time			
Density			
Funnel Viscosity			
Fluid Loss			
pH			
Location of Sample			
Depth			
PVT			

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
	@		@	
	@		@	
	@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110203_1A	Pason	2011	02	03

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	2011/02/04 23:59

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.25
1	MOTOR LS	102.00	64.00	8.19
1	FLOAT SUB	165.00	64.00	1.11
1	ORIENT SUB	164.00	64.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
2	MONEL FLEX	161.00	76.00	18.12
1	X/O	160.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	121.00	59.00	5.60
2	HWDP(4.0 IN)	102.00	64.00	18.76
54	HWDP(4.0 IN)	102.00	64.00	505.15
36	Drill Pipe		Stands	686.28
1	Drill Pipe		Singles	9.61
	Kelly Down			13.02
	Total			1333.11
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.25
1	MOTOR LS	102.00	64.00	8.19
1	FLOAT SUB	165.00	64.00	1.11
1	ORIENT SUB	164.00	64.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
2	MONEL FLEX	161.00	76.00	18.12
1	X/O	160.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	121.00	59.00	5.60
2	HWDP(4.0 IN)	102.00	64.00	18.76
54	HWDP(4.0 IN)	102.00	64.00	505.15
36	Drill Pipe		Stands	686.28
1	Drill Pipe		Singles	9.61
	Kelly Down			13.02
	Total			1333.11
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	B-13 LAY DWN DP AND HWDP	21:15	

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FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110204_1B	Pason	2011	02	04

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	2011/02/04 23:59

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) HCS Signs Posted If Required	JWB	MN
4) Well Licence & Stick Diagram Posted	JWB	MN
5) Flare Lines Staked		
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	JWB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		MN
5) Motor Kills Checked		

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1						4.25	0.50													1.50	0.50		4.75		0.50	12.00
Tour 2						5.50	0.25							1.25	1.75						0.75		1.00		1.50	12.00
Tour 3																										
Total						9.75	0.75							1.25	1.75					1.50	1.25		5.75		2.00	24.00

Safety Briefing 5.25 | Op Fuel

FUEL @ 08:00 HOURS

Rig 155.00 | Boiler 0.00 | Tanks 06:00 | Temp -2.00

WEATHER

Current Conditions: PARTLY CLOUDY | Wind Direction | Wind Strength: CALM | Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	4
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	14.3 14.3 14.3
Depth Out (m)	1333
Depth In (m)	1240
Total Drilled (m)	93
Hrs Run Today	0.00
Cumulative Hrs Run	10.50
Entry Date	2011/01/31

CUTTING STRUCTURE

TI	0	Gage	0
TO	0	ODC	NO
MDC	NO	Reason Pulled	WC
LOC	A	Total Run (m/hr)	8.86
BRG	E		

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
2	MONEL FLEX	161	76	18.12m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	121	59	5.60m
2	HWDP(4.0 IN)	102	64	18.76m
54	HWDP(4.0 IN)	102	64	505.15m
36	Drill Pipe	Stands		686.28m
1	Drill Pipe	Singles		9.61m
	Kelly Down			13.02m
	Total			1333.11m
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag Up ☐ Down ☐

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type Water [x] Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1		152	0	0	0

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	225

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	04:15	4.25	5F	LAY DOWN DRILL PIPE AND HWDP FROM 908M TO 100M
04:15	04:30	0.25	21	SAFETY MEETING PRIOR TO LAY DWN DIR TOOLS
04:30	06:00	1.50	20D	LAY DOWN DIR TOOLS
06:00	06:30	0.50	7A	CLEAN- FLOOR
06:30	07:00	0.50	25	TRANSFER REMAINING FLUID IN TANKS TO SUNCION #1, MOVE PIPE TO PIPE RACKS
				CLEAN AND ORGANIOZE RIG
07:00	07:15	0.25	21	SAFETY MEETING W/ BOTH CREWS
07:15	12:00	4.75	23F	W/O THIRD PARTY TOOLS TEAR OUT PRE FABS, CLEAN UP RIG AND LEASE

Remarks: VISUAL INSPECTION BRAKES, LIBNKAGE, BOP AND MANIFOLD VALVE ALIGNMENT

SAFETY

Safety Topic	MEHL	MACP
LAY DWN DP	60.00kdaN	

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag Up ☐ Down ☐

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type Water [x] Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1		152	0	0	0

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9.5	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	13:00	1.00	23F	W/O THIRD PARTY TOOLS
13:00	13:15	0.25	21D	PRE-JOB SAFETY MEETING WITH TOOL HAND
13:15	14:30	1.25	5	TRIP PIPE INTO HOLE TO SET BRIDGE PLUG
14:30	15:15	0.75	25	FILL PIPE AND SET WR PLUG @ 355M
15:15	15:30	0.25	21D	PRE-JOB SAFETY WITH PRESURE TESTER AND CREW
15:30	16:15	0.75	15A	PRESSURE TEST BRIDGE PLUG #1 @ 1500 KPA LOW 10500 HIGH TEST HELD FOR 10 MIN
16:15	17:45	1.50	5B	TRIP DP OUT OF HOLE
17:45	18:45	1.00	5A	TRIP IN HOLE WITH DP AND SECOND BRIDGE PLUG
18:45	19:00	0.25	25	FILL PIPE TO SET BRIDGE PLUG NO 2
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	19:45	0.50	25	SET BRIDGE PLUG # 2 @ 336M
19:45	20:45	1.00	15	PRESS TEST BRIDGE PLUG # 2 1500 KPA LOW 10500KPA HIGH TEST HELD FOR 10 MIN.
				RIG OUT PRESS TESTER
20:45	22:30	1.75	5F	LAY DOWN DRILL PIPE
22:30	22:45	0.25	7A	CLEAN - FLOOR AND SUB
22:45	24:00	1.25	14B	NIPPLE DOWN BOPS

Remarks: VISUAL INSPECTION BRAKES, LINKAGE, LIFTING EQUIPMENT FUNCTION TEST CROWN SAVER

SAFETY

Safety Topic	MEHL	MACP
PRESSURE TEST		

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag Up ☐ Down ☐

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110204_1B	Pason	2011	02	04

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET AL CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30E	NT	LAT-LONG	302/H-03/6010-11730/0

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/01/20 23:45

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	2011/02/04 23:59

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.25
1	MOTOR LS	102.00	64.00	8.19
1	FLOAT SUB	165.00	64.00	1.11
1	ORIENT SUB	164.00	64.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
2	MONEL FLEX	161.00	76.00	18.12
1	X/O	160.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	121.00	59.00	5.60
2	HWDP(4.0 IN)	102.00	64.00	18.76
54	HWDP(4.0 IN)	102.00	64.00	505.15
36	Drill Pipe	Stands		686.28
1	Drill Pipe	Singles		9.61
	Kelly Down			13.02
	Total			1333.11
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
2	Rig site H/S	PRE JOB MEETING WITH TOOL HAND AND RIG CREW	13:00	

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110210_2A	Pason	2011	02	10

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	
Operator's AFE	Contractor's Job No		Spud Date Time	
10N110009	C6473			
Signature of Operator Representative	Signature of Contractor's Rig Manager		Rig Release Date Time	
	MICHAEL NUGENT			

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CADDC

pason

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
HOURS Tour 1																								12.00		12.00
Tour 2																								12.00		12.00
Tour 3																										
Total																								24.00		24.00

Kelly Bushing	Up Fuel
FUEL @ 08:00 HOURS	
Rig 0.00	Boiler 0.00

WEATHER: Time 06:00 | Temp -12.00 | Current Conditions: PARTLY CLOUDY | Wind Direction: SE | Wind Strength: UP TO 19 KM/H | Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110211_2B	Pason	2011	02	11

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CAODC pason

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
HOURS Tour 1																								12.00		12.00
Tour 2																								12.00		12.00
Tour 3																										
Total																								24.00		24.00

Kelly Bushing	Op Fuel
7.02	

FUEL @ 08:00 HOURS

Rig	Boiler
145.00	0.00

Time	Temp
06:00	-11.00

WEATHER

Current Conditions	Wind Direction	Wind Strength
OVERCAST		CALM

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up / Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9	325

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	12:00	12.00	24	RIG WATCH / 2 RIG WATCHERS @ $750 PER DAY PER MAN AS PER CONTRACT / RUNNING
				BOILER TO HEAT 400BBL TANKS

Remarks:

SAFETY

Safety Topic	MEHL	MACP

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 12:00 END TIME: 24:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up / Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	275

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	24:00	12.00	24	RIG WATCH DAY # 2/ REPLACE HOISTING CLUTCH AND REPAIR CROWN SAVER, LAY DOWN
				5" DC'S, WELD ON CASING BOWL RIG OUT AND LAY DOWN DERRICK

Remarks:

SAFETY

Safety Topic	MEHL	MACP

TOUR 3

SIGNATURE OF DRILLER:

START TIME: END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up / Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110212_1B	Pason	2011	02	12

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE: 10N110009
Signature of Operator Representative: BLINSTON
Contractor's Job No: C6473
Signature of Contractor's Rig Manager: MICHAEL NUGENT
Spud Date Time: 2011/02/18 03:00
Rig Release Date Time:

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CAODC pason Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1																								12.00		12.00
Tour 2																								12.00		12.00
Tour 3																										
Total																								24.00		24.00

FUEL @ 08:00 HOURS

Kelly Bushing 7.02 | Up Fuel
Rig 145.00 | Boiler 0.00
Time 06:00 | Temp -14.00

WEATHER

Current Conditions: SNOW
Wind Direction | Wind Strength: CALM
Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag: Up ☐ Down ☐
Torque at Bottom:
Fill on Bottom:

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	280

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	12:00	12.00	24	RIG WATCH DAY # 3/ 2 WATCHERS @ $750 DAY PER MAN, RUNNING BOILER TO HEAT
				400BBL

Remarks:

SAFETY

Safety Topic	MEHL	MACP

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag: Up ☐ Down ☐
Torque at Bottom:
Fill on Bottom:

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	280

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	24:00	12.00	24	RE-WIRE DERRICK, CHANGE OUT U-JOINT ON DRIVE LINE, SET UP BRAKE ROLLERS.
				SNOW REMOVAL.

Remarks:

SAFETY

Safety Topic	MEHL	MACP

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag: Up ☐ Down ☐
Torque at Bottom:
Fill on Bottom:

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110213_1B	Pason	2011	02	13

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	
Operator's AFE	Contractor's Job No		Spud Date Time	
10N110009	C6473		2011/02/18 03:00	
Signature of Operator Representative	Signature of Contractor's Rig Manager		Rig Release Date Time	
BLINSTON	MICHAEL NUGENT			

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CAODC

pason

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
HOURS Tour 1																								12.00		12.00
Tour 2																								12.00		12.00
Tour 3																										
Total																								24.00		24.00

Kelly Bushing 7.02 | Op Fuel

FUEL @ 08:00 HOURS

Rig 145.00 | Boiler 0.00

WEATHER: Time 08:00 | Temp -17.00 | Current Conditions LIGHT SNOW | Wind Direction | Wind Strength CALM | Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110214_1B	Pason	2011	02	14

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CAODC

pason

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
HOURS Tour 1																								12.00		12.00
Tour 2																								12.00		12.00
Tour 3																										
Total																								24.00		24.00

Kelly Bushing 7.02 | Up Fuel

FUEL @ 08:00 HOURS

Rig 145.00 | Boiler 0.00

WEATHER Time 08:00 | Temp -17.00 | Current Conditions LIGHT SNOW | Wind Direction | Wind Strength CALM | Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110215_1B	Pason	2011	02	15

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CADDC

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
HOURS Tour 1																								12.00		12.00
Tour 2																								12.00		12.00
Tour 3																										
Total																								24.00		24.00

Rotary Bushing: 7.02 | Op Fuel:

FUEL @ 08:00 HOURS

Rig: 145.00 | Boiler: 0.00 | Time: 06:00 | Temp: -35.00

WEATHER

Current Conditions: LIGHT SNOW | Wind Direction: W | Wind Strength: UP TO 19 KM/H | Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
IX8424_20110216_1B	Pason	2011	02	16

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CADDC

pason

Pason

CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1																								12.00		12.00
Tour 2	7.75																				0.25		4.00			12.00
Tour 3																										
Total	7.75																				0.25		4.00	12.00		24.00

Kelly Bushing | Op Fuel

FUEL @ 08:00 HOURS

Rig 145.00 | Boiler 0.00

Time 06:00 | Temp -35.00

WEATHER

Current Conditions: LIGHT SNOW

Wind Direction: W | Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110217_1A	Pason	2011	02	17

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	
Operator's AFE	Contractor's Job No		Spud Date Time	
10N110009	C6473			
Signature of Operator Representative	Signature of Contractor's Rig Manager		Rig Release Date Time	
BLINSTON	MICHAEL NUGENT			

DAILY CHECKS (OP / RM)

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 Inspected BOPs - Flare Lines & Degasser Lines

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

CAODC / Pason

CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1	3.75																				0.25		8.00			12.00
Tour 2	12.00																									12.00
Tour 3																										
Total	15.75																				0.25		8.00			24.00

Kelly Bushing | Up Fuel

FUEL @ 08:00 HOURS

Rig 101.00 | Boiler 0.00

WEATHER

Time 08:00 | Temp -30.00

Current Conditions: PARTLY CLOUDY

Wind Direction | Wind Strength: CALM

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
		@	@	
		@	@	
		@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	10	10	225

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	08:00	8.00	23B	W/O DAYLIGHT TO CONTINUE TO MOVE THE RIG
08:00	08:15	0.25	21	SAFETY MEETING WITH MULLEN TRUCKING
08:15	12:00	3.75	1A	SPOT MATS, & THE RIG, LOAD UP & MOVE SHACKS & RENTALS TO THE NEW LOCATION

Remarks:

SAFETY

Safety Topic	MEHL	MACP
SPOTTING MATTING		

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
		@	@	
		@	@	
		@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9.5	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	16:30	4.50	1C	SPOT RIG/LOADS/BUILDINGS
16:30	24:00	7.50	1	RIG UP STEAM, AIR AND, POWER RIG IN MUD TANKS AND MUD PUMPS, RAISE LOWER SECTION OF DERRICK

Remarks:

SAFETY

Safety Topic	MEHL	MACP

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
		@	@	
		@	@	
		@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110218_1A	Pason	2011	02	18

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	
Operator's AFE	Contractor's Job No		Spud Date Time	
10N110009	C6473		2011/02/18 03:00	
Signature of Operator Representative	Signature of Contractor's Rig Manager		Rig Release Date Time	
BLINSTON	MICHAEL NUGENT			

DAILY CHECKS

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

CAODC

pason

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CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1	1.00							3.00						7.75							0.25					12.00
Tour 2	0.75													2.00	4.00						0.25				5.00	12.00
Tour 3																										
Total	1.75							3.00						9.75	4.00						0.50				5.00	24.00

Kelly Bushing | Up Fuel

FUEL @ 08:00 HOURS

Rig 101.00 | Boiler 0.00

Time 06:00 | Temp -35.00

WEATHER

Current Conditions: PARTLY CLOUDY

Wind Direction | Wind Strength: CALM

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag Up | Down

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	03:00	3.00	BF	DOWNTIME - DRAWWORKs , WORK ON HOISTING CLUTCH AIR SYSTEM
03:00	07:00	4.00	14A	WARM UP BOP INSTALL DSA, , STACK & CHOKE LINE
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	11:00	3.75	14A	CONTINUE TO NIPPLE UP BOPS, HOOK UP BOP LINES & FUNCTION TEST BOP
11:00	12:00	1.00	1	RIG UP RAISE TOP SECTION OF DERRICK/ SAFETY MEETING PRIOR TO RAISE

Remarks:

SAFETY

Safety Topic	MEHL	MACP

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 12:00 END TIME: 24:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag Up | Down

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	14:00	2.00	14A	DISPLACE DIESEL FUEL FROM WELL & INSTALL KILL LINES
14:00	19:00	5.00	25	PICK UP MOUSE HOLE AND KELLY SOCK. RIG UP FLARE AND DEGASSER LINES, INSTALL PRE FABS ON DRILL FLOOR
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS AND PRESSURE TESTER
19:15	21:00	1.75	15A	PRESSURE TEST MANIFOLD, CONTINUE TO RIG UP PRE FABS
21:00	21:45	0.75	1B	PICK UP / MAKE UP KELLY
21:45	24:00	2.25	15A	PRESSURE TEST BOP

Remarks: F.T PIPE, BLIND RAMS, HCR AND ANNULAR. VISUALY INSPECT BREAKS AND LINKAGES

SAFETY

Safety Topic	MEHL	MACP
EQUIPMENT CARE AND INSPECTION		

TOUR 3

SIGNATURE OF DRILLER:

START TIME: END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag Up | Down

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

FRONT PAGE SUMMARY

Tour Sheet Serial Number: 0X8424_20110219_1A | Vendor Software Version: Pason | Year: 2011 | Month: 02 | Day: 19

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	
Operator's AFE	Contractor's Job No		Spud Date Time	
10N110009	C6473		2011/02/18 03:00	
Signature of Operator Representative	Signature of Contractor's Rig Manager		Rig Release Date Time	
B BLINSTON	MICHAEL NUGENT			

DAILY CHECKS

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

CAODC

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HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1						5.75									2.50						0.75				3.00	12.00
Tour 2			3.50			2.25			1.00											2.50	1.00				1.75	12.00
Tour 3																										
Total			3.50			8.00			1.00						2.50					2.50	1.75				4.75	24.00

Kelly Bushing | Up Fuel

FUEL @ 08:00 HOURS

Rig 116.00 | Boiler 0.00

Time 08:00 | Temp -24.00

WEATHER

Current Conditions: PARTLY CLOUDY

Wind Direction: NW | Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	4RR
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	14.3 14.3 14.3
Depth Out (m)	
Depth In (m)	1333
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	10.50
Entry Date	2011/02/19

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe		Stands	
Drill Pipe		Singles	
Kelly Down			
Total			
Weight of DC			
Weight of String			

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [x] Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	240

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	02:00	2.00	15A	PRESSURE TESTED BOP,MANIFOLD VALVES,UPPER AND LOWER KELLY COCKS,CHOKE
				LINE,INSIDE BOP,STABBING VALVE AND PIPE RAMS, ANNULAR 1,400KPA LOW AND
				14,000KPA HIGH HELD FOR 5MIN, NO PRESSURE DROP
02:00	02:30	0.50	15	TESTED THE CASING AND BLIND RAMS 1,400 LOW AND 12,500 HIGH, 5 MIN NO
				PRESSURE DROP, ACCUMULATOR TEST, STARTING PRESSURE 22,500 KPA AND REMAINING
				PRRESSURE AFTER ALL FUNCTIONS 11,500KPA, PUMP UP TIME 91SEC
02:30	02:45	0.25	21	SAFETY MEETING WITH BAKER TOOL HAND
02:45	06:00	3.25	5G	PICK UP RETRIEVING ASSEMBLEY AND HWDP , RUN IN HOLE TO RETRIEVE THE TOP PLUG
				@ 336M
06:00	07:00	1.00	25	PICK UP KELLY TO MAKE IT UP, NEEDED THE WEIGHT OF THE STRING TO TORQUE
				PROPERLY INSTALL KELLY HOSE
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	08:30	1.25	25	INSTALL KELLY BUSHING, ROLLERS, & STRIPPER
08:30	10:00	1.50	5B	TRIP OUT OF HOLE WITH THE TOP PLUG
10:00	10:30	0.50	25	BREAK TOP PLUG AND LAY OUT
10:30	11:30	1.00	5A	TRIP IN HOLE
11:30	11:45	0.25	25	LATCH ONTO SECOND PLUG @ 355M, SET DOWN 3 daN AND CHAIN DOWN THE BRAKE
11:45	12:00	0.25	21F	CONDUCTED HAZARD HUNT AND DRILL OUT INSPECTION

Remarks: PRESSURE TEST MANIFOLD 1400 LOW 14000 HIGH ALL TESTS HELD FOR 5 MIN , PRESS TEST ANNULAR, PIPE RAMS AND HCRM 1400 LOW 14000 HIGH, TEST BLINDS1400 LOW 12500 HIG ALL TEST HELD FOR 5 MIN

VISUAL INSPECTION BRAKES LIBNKAGE, FUNCTION TEST FLARE STACK IGNITER, REMOTE CHOKE, CROWN SAVER, INSPECT ALL LIFTING EQUIPMENT

SAFETY

Safety Topic	MEHL	MACP
PICK UP HWDP		

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	4RR
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	14.3 14.3 14.3
Depth Out (m)	
Depth In (m)	1333
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	10.50
Entry Date	2011/02/19

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
360m	446m	REAM	25	5kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	UARS-HYD/MECH	121	59	5.60m
54	HWDP(4.0 IN)	102	64	505.23m
0	Drill Pipe	Stands		0.00m
0	Drill Pipe	Singles		0.00m
	Kelly Down			0.00m
	Total			605.52m
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [x] Oil ☐ Other

Time	23:00
Density	1075
Funnel Viscosity	34s/l
Fluid Loss	
pH	7.5
Location of Sample	SHAKERS
Depth	
PVT	53m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	80	5200	4

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
CAUSTIC	1	SACK
SAWDUST	5	SACKS

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	12:15	0.25	21A	DRILLS/BOP, DISCUSSED CREW POSITION, CHECK MANIFOLD ALIGNMENT
12:15	12:30	0.25	5B	RELEASE BOTTOM PLUG, FLOW CHECK
12:30	13:15	0.75	5	TRIP OUT OF THE HOLE WITH BOTTOM BRIDGE PLUG
13:15	14:00	0.75	25	LAY DOWN BRIDGE PLUG AND LATCH ASSEMBLY
14:00	15:00	1.00	9A	PRE JOB SAFETY MEETING AND SLIP/CUT DRILLING LINE
15:00	15:15	0.25	21	SAFETY MEETING WITH DIRECTIONAL HANDS
15:15	17:45	2.50	20	PICK UP AND MAKE UP DIRECTIONAL TOOLS
17:45	19:00	1.25	5	TRIP IN THE HOLE
19:00	19:30	0.50	21	SAFETY MEETING WITH BOTH CREWS
19:30	20:30	1.00	25	MAKE UP LOWER KELLY COCK AND SAVER SUB, TORQUE KELLY TO UPPER KELLY COCK
20:30	24:00	3.50	3A	REAM & CLEAN FROM 363 M TO 446M

Remarks: VISUALY INSPECT BREAKS AND LINKAGES

SAFETY

Safety Topic	MEHL	MACP
SLIP AND CUT	40.00kdaN	

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe		Stands	
Drill Pipe		Singles	
Kelly Down			
Total			
Weight of DC			
Weight of String			

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

V. 1.2

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110219_1A	Pason	2011	02	19

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.25
1	MOTOR LS	102.00	64.00	8.19
1	FLOAT SUB	165.00	64.00	1.11
1	ORIENT SUB	164.00	64.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	160.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	121.00	59.00	5.60
54	HWDP(4.0 IN)	102.00	64.00	505.23
0	Drill Pipe		Stands	0.00
0	Drill Pipe		Singles	0.00
	Kelly Down			0.00
	Total			605.52
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	B-40 SLIP AND CUT B-06 DOG COLLAR USE	19:00	

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number: 0X8424_20110220_1A | Vendor Software Version: Pason | Year: 2011 | Month: 02 | Day: 20

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE: 10N110009
Signature of Operator Representative: BLINSTON
Contractor's Job No: C6473
Signature of Contractor's Rig Manager: MICHAEL NUGENT
Spud Date Time: 2011/02/18 03:00
Rig Release Date Time:

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required	JWB	MN
4) Well Licence & Stick Diagram Posted	JWB	MN
5) Flare Lines Staked	JWB	MN
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	JWB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		MN
5) Motor Kills Checked		

CADDC

pason

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
HOURS Tour 1			7.75		0.75	3.25															0.25					12.00
Tour 2			10.50		1.00		0.25														0.25					12.00
Tour 3																										
Total			18.25		1.75	3.25	0.25														0.50					24.00

Kelly Bushing: 7.02 | Gr Fuel

FUEL @ 08:00 HOURS

Rig: 116.00 | Boiler: 0.00

WEATHER

Time: 06:00 | Temp: -12.00
Current Conditions: OVERCAST
Wind Direction | Wind Strength: CALM
Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	4RR
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	14.3 14.3 14.3
Depth Out (m)	
Depth In (m)	1333
Total Drilled (m)	
Hrs Run Today	0.00
Cumulative Hrs Run	10.50
Entry Date	2011/02/19

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
446m	740m	REAM	25	5kdaN
1083m	1177m	REAM	25	5kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	121	59	5.60m
54	HWDP(4.0 IN)	102	64	505.23m
0	Drill Pipe	Stands		0.00m
0	Drill Pipe	Singles		0.00m
	Kelly Down			0.00m
	Total			605.52m
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag: Up | Down
Torque at Bottom:
Fill on Bottom:

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:00	06:00
Density	1080	1080
Funnel Viscosity	39s/l	45s/l
Fluid Loss		
pH	8.5	8.5
Location of Sample	SHAKER	SHAKER
Depth	501m	755m
PVT	52m3	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	50	2800	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
CAUSTIC	1	SACK
KELZAN	1	SACK
ULTRAFLOC	1	PAIL
SAWDUST	8	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	245

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	05:15	5.25	3A	REAM & CLEAN FROM 446M TO 740M
05:15	06:00	0.75	5	CIRCULATE & MONITOR LOSSES
06:00	07:00	1.00	5E	PICK UP DRILL PIPE FROM 740M TO 854M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	09:30	2.25	5E	PICK UP DRILL PIPE FROM 854M-1090M
09:30	12:00	2.50	3A	REAM & CLEAN FROM1090M-1177M

Remarks:

SAFETY

Safety Topic	MEHL	MACP
H2S		

TOUR 2

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	4RR
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	14.3 14.3 14.3
Depth Out (m)	
Depth In (m)	1333
Total Drilled (m)	93
Hrs Run Today	0.00
Cumulative Hrs Run	10.50
Entry Date	2011/02/19

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1177m	1327m	REAM	35	5kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	121	59	5.60m
2	HWDP(4.0 IN)	102	64	18.76m
1	HWDP(4.0 IN)	102	64	9.37m
1	HWDP(4.0 IN)	102	64	9.35m
37	Drill Pipe	Stands		705.30m
1	Drill Pipe	Singles		9.17m
	Kelly Down			7.01m
	Total			1327.00m
	Weight of DC			
	Weight of String			50kdaN

HOLE CONDITION

Hole Drag: Up 2 | Down 2
Torque at Bottom: 500.00Nm
Fill on Bottom:

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	18:00
Density	1090	1110
Funnel Viscosity	40s/l	42s/l
Fluid Loss		
pH	9.0	9.0
Location of Sample	SHAKER	SHAKER
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	80	6800	10.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
KELZAN	3	SACK
ULTRAFLOC	3	PAIL
LIGNITE	1	SACK
DRISPAC	1	SACK
CAUSTIC	2	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9.5	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	16:00	4.00	3A	REAM & CLEAN FROM 1177M- 1265M
16:00	16:15	0.25	7	RIG SERVICE
16:15	18:00	1.75	3A	REAM & CLEAN FROM 1265M- 1284M
18:00	19:00	1.00	5D	CIRCULATE TO CLEAN HOLE
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	24:00	4.75	3A	REAM & CLEAN FROM 1284 M TO 1327M

Remarks: VISUALY INSPECT BREAKS AND LINBKAGES, F.T. PIPE RAMS

SAFETY

Safety Topic	MEHL	MACP
HOUSEKEEPING	70.00kdaN	3965kPa

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag: Up | Down
Torque at Bottom:
Fill on Bottom:

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110220_1A	Pason	2011	02	20

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.25
1	MOTOR LS	102.00	64.00	8.19
1	FLOAT SUB	165.00	64.00	1.11
1	ORIENT SUB	164.00	64.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	160.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	121.00	59.00	5.60
54	HWDP(4.0 IN)	102.00	64.00	505.23
0	Drill Pipe	Stands		0.00
0	Drill Pipe	Singles		0.00
	Kelly Down			0.00
	Total			605.52
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.25
1	MOTOR LS	102.00	64.00	8.19
1	FLOAT SUB	165.00	64.00	1.11
1	ORIENT SUB	164.00	64.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	160.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	121.00	59.00	5.60
2	HWDP(4.0 IN)	102.00	64.00	18.76
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
2	HWDP(4.0 IN)	102.00	64.00	18.66
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
3	HWDP(4.0 IN)	102.00	64.00	28.02
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.31
2	HWDP(4.0 IN)	102.00	64.00	18.68
1	HWDP(4.0 IN)	102.00	64.00	9.32
1	HWDP(4.0 IN)	102.00	64.00	9.34
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	C-08 PICK UP DP & HWDP, E-06 CHECK CROWN SAVER	00:00	
2	JSA REVIEW	B-68 PICK UP PIPE FROM V-DOOR, B-35 RIG TONG USE	12:00	

V.1.1

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110220_1A	Pason	2011	02	20

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.17
1	HWDP(4.0 IN)	102.00	64.00	9.33
2	HWDP(4.0 IN)	102.00	64.00	18.72
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
2	HWDP(4.0 IN)	102.00	64.00	18.72
4	HWDP(4.0 IN)	102.00	64.00	37.56
1	HWDP(4.0 IN)	102.00	64.00	9.40
2	HWDP(4.0 IN)	102.00	64.00	18.78
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.40
1	HWDP(4.0 IN)	102.00	64.00	9.39
37	Drill Pipe		Stands	705.30
1	Drill Pipe		Singles	9.17
	Kelly Down			7.01
	Total			1327.00
	Weight of DC			
	Weight of String			50.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110220_1A	Pason	2011	02	20

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** **WATER** x **OIL** ☐ **OTHER**

Time	02:00	06:00	10:00														
Density	1080kg/m3	1080kg/m3	1100kg/m3														
Funnel Viscosity	39s/l	45s/l	34s/l														
Fluid Loss																	
Fluid pH	8.5	8.5	9.0														
Location of Sample	SHAKER	SHAKER	TANK 2														
Depth	501m	755m	1114m														
PVT	52m3																
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110220_1A	Pason	2011	02	20

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐
Operator's AFE	**Contractor's Job No**		**Spud Date Time**	
10N110009	C6473		2011/02/18 03:00	
Signature of Operator Representative	**Signature of Contractor's Rig Manager**		**Rig Release Date Time**	
JOSH BLINSTON	MICHAEL NUGENT			

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	14:00	18:00	22:00														
Density	1090kg/m3	1110kg/m3	1115kg/m3														
Funnel Viscosity	40s/l	42s/l	45s/l														
Fluid Loss			8.5cm3														
Fluid pH	9.0	9.0	8														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth			1285m														
PVT			35m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110221_1A	Pason	2011	02	21

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

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HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	Cond Mud & Circ	Trips	7 Rig Service	Repair Rig	Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1		10.25	0.75				0.25														0.50				0.25	12.00
Tour 2		10.75					0.25			0.75											0.25					12.00
Tour 3																										
Total		21.00	0.75				0.50			0.75											0.75				0.25	24.00

Kelly Bushing 7.02 | Op Fuel

FUEL @ 08:00 HOURS

Rig 116.00 | Boiler 0.00

Time 06:00 | Temp -16.00

WEATHER

Current Conditions: LIGHT SNOW

Wind Direction: SE | Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	4RR
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	14.3 14.3 14.3
Depth Out (m)	
Depth In (m)	1333
Total Drilled (m)	46
Hrs Run Today	10.00
Cumulative Hrs Run	18.00
Entry Date	2011/02/19

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1333m	1379m	DRILL	35	12kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	121	59	5.60m
2	HWDP(4.0 IN)	102	64	18.76m
1	HWDP(4.0 IN)	102	64	9.37m
1	HWDP(4.0 IN)	102	64	9.35m
40	Drill Pipe	Stands		761.72m
0	Drill Pipe	Singles		0.00m

Kelly Down	11.97m
Total	1379.21m
Weight of DC	
Weight of String	49kdaN

HOLE CONDITION

Hole Drag	Up 3	Down 3	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:00	06:00
Density	1120	1120
Funnel Viscosity	43s/l	42s/l
Fluid Loss	9cm3	8.5cm3
pH	9.5	10
Location of Sample	SHAKER	SHAKER
Depth	1339m	1354m
PVT	32m3	31m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	103	11200	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	2900	@	50	@	1350
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
	1326.35m	27.9	169.9	DIRECTIONAL
	1335.99m	27.9	171	DIRECTIONAL
08:00	1345.61m	28.9	174	DIRECTIONAL
	1355.01m	31.3	177.3	DIRECTIONAL
	1364.21m	34.3	177.6	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1120	1110	1790

MUD MATERIALS ADDED

Product	Amount	Type
CAUSTIC	4	SACK
KELZAN	3	SACK
ULTRAFLOC	3	PAIL
SAWDUST	7	SACKS

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	00:45	0.75	3A	REAM & CLEAN FROM 1327M TO 1333M
00:45	01:00	0.25	21A	BOP DRILL WITH RIG CREW, WELL SECURE IN 90 SECONDS, DISCUSSED KICK WARNING SIGNS, CREW POSITIONS, DAILY CHECKS OF SURFACE EQUIPMENT
01:00	05:00	4.00	2	DRILL 222 MM HOLE FROM 1333M TO 1351M
05:00	05:15	0.25	7	RIG SERVICE FUNCTION PIPE RAMS 3 SEC TO CLOSE
05:15	07:00	1.75	2	DRILL 222 MM HOLE FROM 1351M TO 1358M
07:00	07:15	0.25	21	SAFETY MEETING WITH CREWS
07:15	10:00	2.75	2	DRILL 222MM HOLE 1358M- 1370M
10:00	10:15	0.25	25	LEVEL RIG
10:15	12:00	1.75	2	DRILL 222MM HOLE FROM 1370M- 1379M

Remarks: VISUAL INSPECTION BRAKES, LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TERST REMOTE CHOKE, CROWN SAVER, FLARE STACK IGNITER

SAFETY

Safety Topic	MEHL	MACP
MIXING CAUSTIC		

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	4RR
Size	222
IADC Code	5 1 7
Manufacturer	REED
Type	R20AMP
Serial No	W30040
Jets	14.3 14.3 14.3
Depth Out (m)	
Depth In (m)	1333
Total Drilled (m)	83
Hrs Run Today	10.75
Cumulative Hrs Run	28.75
Entry Date	2011/02/19

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1379m	1416m	DRILL	35	18kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	121	59	5.60m
54	HWDP(4.0 IN)	102	64	505.23m
42	Drill Pipe	Stands		799.34m
0	Drill Pipe	Singles		0.00m

Kelly Down	11.97m
Total	1416.83m
Weight of DC	
Weight of String	51kdaN

HOLE CONDITION

Hole Drag	Up 3	Down 3	
Torque at Bottom	5000.00Nm		
Fill on Bottom			

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	16:00
Density	1110	1110
Funnel Viscosity	42s/l	45s/l
Fluid Loss	7.5cm3	6.0cm3
pH	10	10.0
Location of Sample	SHAKER	SHAKER
Depth	1389m	1400m
PVT	39.2m3	41.7m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	110	10900	10.75

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	2900	@	50	@	1350
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
	1373.4m	37.6	177.8	DIRECTIONAL
	1382.59m	41.5	177.3	DIRECTIONAL
	1392.22m	45.4	175.9	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1100	1090	1780

MUD MATERIALS ADDED

Product	Amount	Type
KELZAN	1	SACK
LIGNITE	2	SACK
CAUSTIC	4	SACK
ULTRAFLOC	4	PAIL

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	14:15	2.25	2	DRILL 222MM HOLE FROM 1379M- 1388M
14:15	14:30	0.25	7	RIG SERVICE, FUNCTION THE ANNULAR
14:30	19:00	4.50	2	DRILL 222MM HOLE FROM 1388M- 1402M
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	23:15	4.00	2	DRILL 222MM HOLE FROM 1402M TO 1416M
23:15	24:00	0.75	10	ACCUMILATED SURVEY TIME

Remarks: VISUALY INSPECT BREAKS AND LINKAGES, ALL FLOOR EQUIPMENT, DRIVE LINE, FUEL, WATER AND STEAM LINES

SAFETY

Safety Topic	MEHL	MACP
TRAPPED TABLE TORQUE		

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up	Down	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110221_1A	Pason	2011	02	21

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.25
1	MOTOR LS	102.00	64.00	8.19
1	FLOAT SUB	165.00	64.00	1.11
1	ORIENT SUB	164.00	64.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	160.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	121.00	59.00	5.60
2	HWDP(4.0 IN)	102.00	64.00	18.76
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
2	HWDP(4.0 IN)	102.00	64.00	18.66
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
3	HWDP(4.0 IN)	102.00	64.00	28.02
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.31
2	HWDP(4.0 IN)	102.00	64.00	18.68
1	HWDP(4.0 IN)	102.00	64.00	9.32
1	HWDP(4.0 IN)	102.00	64.00	9.34
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.17
1	HWDP(4.0 IN)	102.00	64.00	9.33
2	HWDP(4.0 IN)	102.00	64.00	18.72
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
2	HWDP(4.0 IN)	102.00	64.00	18.72
4	HWDP(4.0 IN)	102.00	64.00	37.56
1	HWDP(4.0 IN)	102.00	64.00	9.40
2	HWDP(4.0 IN)	102.00	64.00	18.78
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-31 RIH, B-68 PICK UP DP FROM V-DOOR, N-09 MIX MUD CHEMICALS	00:00	
2	JSA REVIEW	B-74 PICK UP DRILL PIPE B-89 SETTING SLIPS	12:00	

V.1.1

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110221_1A	Pason	2011	02	21

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.40
1	HWDP(4.0 IN)	102.00	64.00	9.39
40	Drill Pipe	Stands		761.72
0	Drill Pipe	Singles		0.00
	Kelly Down			11.97
	Total			1379.21
	Weight of DC			
	Weight of String			49.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.25
1	MOTOR LS	102.00	64.00	8.19
1	FLOAT SUB	165.00	64.00	1.11
1	ORIENT SUB	164.00	64.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	160.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	121.00	59.00	5.60
54	HWDP(4.0 IN)	102.00	64.00	505.23
42	Drill Pipe	Stands		799.34
0	Drill Pipe	Singles		0.00
	Kelly Down			11.97
	Total			1416.83
	Weight of DC			
	Weight of String			51.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110221_1A	Pason	2011	02	21

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	02:00	06:00	10:00														
Density	1120kg/m3	1120kg/m3	1120kg/m3														
Funnel Viscosity	43s/l	42s/l	40s/l														
Fluid Loss	9cm3	8.5cm3	7.5cm3														
Fluid pH	9.5	10	9.5														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	1339m	1354m	1369m														
PVT	32m3	31m3															
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110221_1A	Pason	2011	02	21

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	14:00	16:00	22:00														
Density	1110kg/m3	1110kg/m3	1100kg/m3														
Funnel Viscosity	42s/l	45s/l	62s/l														
Fluid Loss	7.5cm3	6.0cm3	9cm3														
Fluid pH	10	10.0	10														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	1389m	1400m	1412m														
PVT	39.2m3	41.7m3	44m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110222_1A	Pason	2011	02	22

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required	JWB	MN
4) Well Licence & Stick Diagram Posted	JWB	MN
5) Flare Lines Staked	JWB	MN
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	JWB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		MN
5) Motor Kills Checked		

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
HOURS Tour 1		3.75			0.50	5.75														1.00	0.50		0.50			12.00
Tour 2					0.75														9.50		0.25		1.50			12.00
Tour 3																										
Total		3.75			1.25	5.75													9.50	1.00	0.75		2.00			24.00

Kelly Bushing 7.02 | Op Fuel

FUEL @ 08:00 HOURS

Rig 116.00 | Boiler 0.00

WEATHER Time 06:00 | Temp -23.00 | Current Conditions OVERCAST | Wind Direction SE | Wind Strength UP TO 19 KM/H | Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	4RR
Size	222
IADC Code	5 1
Manufacturer	REED
Type	R20 AMP
Serial No	W30040
Jets	14.3 14.3 14.3
Depth Out (m)	1424
Depth In (m)	1333
Total Drilled (m)	91
Hrs Run Today	3.75
Cumulative Hrs Run	32.50
Entry Date	2011/02/19

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	2.80
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1416m	1424m	DRILL	40	30kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	0	0.25m
1	MOTOR LS	102	64	8.19m
1	FLOAT SUB	165	64	1.11m
1	ORIENT SUB	164	64	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	160	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	121	59	5.60m
54	HWDP(4.0 IN)	102	64	505.23m

42	Drill Pipe	Stands	799.34m
1	Drill Pipe	Singles	9.61m
	Kelly Down		9.88m
	Total		1424.35m
	Weight of DC		30kdaN
	Weight of String		49kdaN

HOLE CONDITION

Hole Drag Up ☐ Down ☐

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [x] Oil ☐ Other

Time	02:00	04:00
Density	1100	1100
Funnel Viscosity	74s/l	90s/l
Fluid Loss	9.5cm3	10cm3
pH	8.5	8.5
Location of Sample	SHAKER	SHAKER
Depth	1422m	1423m
PVT	43m3	41m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	114	11000	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
CAUSTIC	2	SACK
LIGNITE	1	SACK
DESCO	1	SACK
BARITE	45	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	245

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	03:45	3.75	2	DRILL FROM 1416M TO 1424M
03:45	04:15	0.50	5	CIRCULATE BOTTOMS UP
04:15	07:00	2.75	6B	TRIP OUT OF HOLE FROM 1424M TO 997M, FLOW CHECKS @ 1414M, 1281M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	10:15	3.00	6B	TRIP OUT OF HOLE FROM 997M-19M, LAID DOWN THE JARS
10:15	10:30	0.25	21	PRE JOB SAFETY MEETING WITH DIRECTIONAL HANDS
10:30	11:30	1.00	20	THE MUD MOTOR CAME THROUGH THE TABLE MISSING EVERYTHING BELOW THE DUMP SUB
11:30	12:00	0.50	23E	W/O ORDERS F.T. PIPE, AND BLIND RAMS 3 SECS EACH TO CLOSE

Remarks: VISUAL INSPECTION BRAKES, LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTIOPN FLARE STACK IGNITER, REMOTE CHOKE AND CROWN SAVER

CAMP FIRE DRILL WITH RIG CREW AND STAFF

SAFETY

Safety Topic	MEHL	MACP
HAND TOOLS	60.00kdaN	4035kPa

TOUR 2

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	0
Size	222
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	0.00
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

	Drill Pipe	Stands	
	Drill Pipe	Singles	
	Kelly Down		
	Total		
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag Up ☐ Down ☐

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [x] Oil ☐ Other

Time	21:00	
Density	1060	
Funnel Viscosity	73s/l	
Fluid Loss	10.5cm3	
pH	8.5	
Location of Sample	SHAKER	
Depth	1407m	
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	80	7500	.75

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	2900	@	50	@	1350
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
BARITE	30	SACK
DESCO	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9	325

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	13:30	1.50	23E	CLEAN UP THE DRILL FLOOR, GET BIT SUB CROSS OVERS AND BIT UP TO THE FLOOR
13:30	19:00	5.50	19	RUN IN HOLE TO CONFIRM FISH DEPTH FROM 0M-1357M
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	20:45	1.50	19	WASH FROM 1357M TO 1416 AND POLISH TOP OF FISH @ 1416.84
20:45	21:30	0.75	5	CIRCULATE HOLE CLEAN AND MIX A PILL
21:30	24:00	2.50	19	PULL OUT OF HOLE TO PICK UP FISHING TOOLS FLOW CHECKS @ 1407M, 1360M, 711M.

Remarks: HAD CAMP FIRE DRILL WITH ALL CAMP MEMBERS

SAFETY

Safety Topic	MEHL	MACP

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

	Drill Pipe	Stands	
	Drill Pipe	Singles	
	Kelly Down		
	Total		
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag Up ☐ Down ☐

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110222_1A	Pason	2011	02	22

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.25
1	MOTOR LS	102.00	64.00	8.19
1	FLOAT SUB	165.00	64.00	1.11
1	ORIENT SUB	164.00	64.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	160.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	121.00	59.00	5.60
54	HWDP(4.0 IN)	102.00	64.00	505.23
42	Drill Pipe	Stands		799.34
1	Drill Pipe	Singles		9.61
	Kelly Down			9.88
	Total			1424.35
	Weight of DC			30.00
	Weight of String			49.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	A-21 SERVICE EQUIPMENT,M A-37 WORKING IN COLD WEATHER, A-40 STRAPPING PIPE	00:00	
2	JSA REVIEW	B-35 RIG TONG USE B-87 USING PIPE SPINNER	12:00	

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110223_1A	Pason	2011	02	23

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1							0.50												11.00		0.50					12.00
Tour 2							0.25	0.75											9.50		0.25		1.25			12.00
Tour 3																										
Total							0.75	0.75											20.50		0.75		1.25			24.00

Kelly Bushing 7.02 | Op Fuel

FUEL @ 08:00 HOURS

Rig 178.00 | Boiler 0.00

WEATHER Time 06:00 | Temp -26.00 | Current Conditions LIGHT SNOW | Wind Direction NE | Wind Strength UP TO 29 KM/H | Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	0
Size	222
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	0.00
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110223_1A	Pason	2011	02	23

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	B-59 *(FISHING), B-89 SETTING SLIPS	12:00	

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110224_1A	Pason	2011	02	24

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required	JWB	MN
4) Well Licence & Stick Diagram Posted	JWB	MN
5) Flare Lines Staked	JWB	MN
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	JWB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Meet Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked	MN	

CADDC / pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1					1.00														10.75		0.25					12.00
Tour 2					1.50														10.25		0.25					12.00
Tour 3																										
Total					2.50														21.00		0.50					24.00

Kelly Bushing 7.02 | Op Fuel

FUEL @ 08:00 HOURS

Rig 178.00 | Boiler 0.00

Time 06:00 | Temp -32.00

WEATHER

Current Conditions: CLEAR

Wind Direction: SE | Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	0
Size	222
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	0.00
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up ☐ Down ☐
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	50	1200	12

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
BARITE	22	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	245

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	01:15	1.25	19	RUN IN HOLE FROM 1376M TO 1416M WASH FROM 1386M TO 1416M
01:15	02:45	1.50	19	DRESS TOP OF FISH WITH MILL
02:45	03:45	1.00	5	CIRCULATE, MIX PILL AND CLEAN FLOOR
03:45	07:00	3.25	19	TRIP OUT OF HOLE WITH MILL TOOLS TO PICK UP OVER SHOT FLOW CHECKS @ 1406M,
				1325M, 766M 560M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	09:30	2.25	19	(FISHING) CONTINUE TO TRIP PIPE OUT OF HOLE WITH MILLING TOOL FROM 546M-0M
				AND BREAK OFF MILLING TOOL, CLEAN AND PREPARE FLOOR TO RIH WITH OVER SHOT
				AND GRAPPLE.
09:30	12:00	2.50	19	(FISHING) MAKE UP OVER SHOT AND GRAPPLE RUN IN FROM 0M- 567M FILL PIPE @
				355M

Remarks: VISUAL INSPECTION BRAKES, LINKLAGE, BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TEST FLARE STACK IGNITER, REMOTE CHOKE & CROWN SAVER

SAFETY

Safety Topic	MEHL	MACP
MILLING	70.00kdaN	

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up ☐ Down ☐
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil ☐ Other

Time	18:00	22:00
Density	1085	1085
Funnel Viscosity	50s/l	50s/
Fluid Loss		10cm3
pH		9
Location of Sample		SHAKER
Depth	1424m	1424m
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	70	4600	5.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
1	2800 @	50 @	1350
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
BARITE	30	SACK
CAL CARB 'O'	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9.5	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	17:00	5.00	19	(FISHING) CONTINUE TO RUN IN HOLE FROM 567M- FILL PIPE @1214M, KELLY UP
				@1347M AND REAM LAST 5 SINGLES TO BOTTOM AND TRY TO LATCH ONTO FISH
17:00	19:00	2.00	19	TRY TO LATCH ONTO FISH
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	21:00	1.75	19	TRY TO LATCH FISH. UNABLE TO GET ON TO IT
21:00	22:30	1.50	5	CIRCULATE AND CONDITON MUD PRIOR TO TRIP OUT OF HOLE TO CHANGE FISHING
				ASSEMBLEY
22:30	24:00	1.50	19	TRIP OUT OF HOLE TO CHANGE FISHING ASSEMBLY FLOW CHECKS @1408M, 1360M

Remarks: F.T. BLIND AND PIPE RAMS 3 SECS TO CLOSE, F.T. FLARE STACK EGNITER,

SAFETY

Safety Topic	MEHL	MACP

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up ☐ Down ☐
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

V. 1.2

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110224_1A	Pason	2011	02	24

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-31 RUN IN HOLE, B-55 FLOW CHECKS	00:00	
2	JSA REVIEW	B- 55 FLOW CHECK, B-44 TRIPPING PIPE OUT	12:00	

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110225_1A	Pason	2011	02	25

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JWB	MN
2) Detailed Inspection - Weekly (Using Check List)		MN
3) H2S Signs Posted If Required	JWB	MN
4) Well Licence & Stick Diagram Posted	JWB	MN
5) Flare Lines Staked	JWB	MN
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	JWB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		MN
5) Motor Kills Checked		

Pason

HOURS

CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1							0.50												5.00		0.50		2.75		3.25	12.00
Tour 2					0.75														11.00		0.25					12.00
Tour 3																										
Total					0.75		0.50												16.00		0.75		2.75		3.25	24.00

Kelly Bushing 7.02 | Op Fuel

FUEL @ 08:00 HOURS

Rig 146.00 | Boiler 0.00

WEATHER

Time 06:00 | Temp -8.00

Current Conditions: OVERCAST

Wind Direction: SE | Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	0
Size	222
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	0.00
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag Up | Down

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	50	0	12

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	@	Strokes/min	@	Depth
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	03:15	3.25	19	TRIP OUT HOLE HOLE TO LAY DOWN FISHING TOOLS FROM 1128M TO SURFACE FLOW CHECKS @ 675M,249M AND OUT OF HOLE
03:15	03:45	0.50	7	RIG SERVICE
03:45	07:00	3.25	25	CLEAN AND ORGANIZE DRILL FLOOR, DE-ICE MUD TANKS,
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	10:00	2.75	23F	W/O THIRD PARTY TOOLS DEICE RIG FOOR AND PRE FABS, RECALIBRATE TANK VOLUMES
10:00	10:15	0.25	21	SAFETY MEETING WITH CREW AND WEATHERFORD FISHERMAN
10:15	12:00	1.75	19	(FISHING) MAKE UP FISHING TOOLS

Remarks: VISUAL INSPECTION BRAKES, LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TEST FLARE STACK IGNITER, REMOTE CHOKE, CROWN SAVER

TRIP SHEET , MEASURED 5.28M3 CALCULATED 5.82M3 DIFFERENCE 0.54M3

SAFETY

Safety Topic	MEHL	MACP
TRIPPING	70.00kdaN	

TOUR 2

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag Up | Down

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	18:00	22:30
Density	1100	1080
Funnel Viscosity	43s/l	42s/l
Fluid Loss	10cm3	8.5cm3
pH	9.5	9.5
Location of Sample	SHAKER	SHAKER
Depth	1358m	1390m
PVT	50m3	53m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	105	4800	5.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	@	Strokes/min	@	Depth
1	2800	@	50	@	1350
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
KELZAN	3	SACK
DRISPAC	3	SACK
LIGNITE	3	SACK
ULTRAFLOC	3	PAIL
CAUSTIC	4	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	9.5	300

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	18:15	6.25	19	(FISHING) RUN IN HOLE WITH FISHING TOOLS FILL PIPE @364M, FLOW CHECK @743M FILL PIPE @1244M WORK TIGHT SPOT @1351M
18:15	19:00	0.75	5	CONDITION MUD & CIRCULATE, INCREASED VISCOSITY FROM 42 TO 50
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	24:00	4.75	19	REAM & WASH TO BOTTOM FROM 1351M TO 1398M

Remarks: F.T. PIPE AND BLIND RAMS 3 SECS TO CLOSE, F.T. FLARE TANK IGNITER, VISUALY INSPECT BOPSAND MANIFOLD VALE ALIGNMENT, F.T. REMOTE CHOKE

SAFETY

Safety Topic	MEHL	MACP
PINCH POINTS ON THE FLOOR		

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag Up | Down

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	@	Strokes/min	@	Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110225_1A	Pason	2011	02	25

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-49 TONG DIE CHANGE OUT, B-59 FISHING	00:00	
1	Rig site H/S	WITH WEATHERFORD FISHERMAN	10:00	
2	JSA REVIEW	B-49 TONG DIE CHANGE OUT, B-87 USING PIPE SPINNER	12:00	

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110225_1A	Pason	2011	02	25

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	18:00	22:30	23:45														
Density	1100kg/m3	1080kg/m3	1080kg/m3														
Funnel Viscosity	43s/l	42s/l	43s/l														
Fluid Loss	10cm3	8.5cm3	8cm3														
Fluid pH	9.5	9.5	9.5														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	1358m	1390m	1396m														
PVT	50m3	53m3	54.5m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110226_1A	Pason	2011	02	26

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required	JWB	MN
4) Well Licence & Stick Diagram Posted	JWB	MN
5) Flare Lines Staked	JWB	MN
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	JWB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		MN

CADDC

pason

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HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1																			11.75		0.25					12.00
Tour 2								1.50	1.25										8.25		0.50				0.50	12.00
Tour 3																										
Total								1.50	1.25										20.00		0.75				0.50	24.00

WEATHER

Kelly Bushing	Up Fuel
7.02	

FUEL @ 08:00 HOURS

Rig	Boiler
115.00	0.00

Time	Temp
06:00	-32.00

Current Conditions: CLEAR

Wind Direction	Wind Strength
SE	UP TO 10 Km/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	6
Size	222
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	0.00
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110226_1A	Pason	2011	02	26

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	A-42 SPILLS, M-06 VAC TRUCK OPPS, B-87 PIPE SPINNER	00:00	
2	JSA REVIEW	B-62 JARRING, B-44 TRIPPING PIPE OUT.	12:00	

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110226_1A	Pason	2011	02	26

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	03:00	06:00	10:00														
Density	1070kg/m3	1060kg/m3	1065kg/m3														
Funnel Viscosity	42s/l	42s/l	40s/l														
Fluid Loss	8.5cm3	8cm3	8.0cm3														
Fluid pH	8.5	8.5	8.5														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	1416m	1417m	1417m														
PVT	56m3	56m3	56m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number: 0X8424_20110227_1A | Vendor Software Version: Pason | Year: 2011 | Month: 02 | Day: 27

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

HOURS	CODE 1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1					0.75	2.00													8.50		0.25				0.50	12.00
Tour 2					0.25	5.50						0.50									0.75		5.00			12.00
Tour 3																										
Total					1.00	7.50						0.50							8.50		1.00		5.00		0.50	24.00

Kelly Bushing: 7.02 | Op Fluid

FUEL @ 08:00 HOURS

Rig: 95.00 | Boiler: 0.00

WEATHER

Time: 06:00 | Temp: -34.00

Current Conditions: CLEAR

Wind Direction: SE | Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	0
Size	222
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	0.00
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up / Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	04:30
Density	1070
Funnel Viscosity	42s/l
Fluid Loss	8.5cm3
pH	8.5
Location of Sample	SHAKER
Depth	1406m
PVT	46m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	60	2600	3
1	SINGLE	152	50	2600	9

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	@ Strokes/min	@	Depth
		@	@	
		@	@	
		@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
BARITE	30	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	02:00	2.00	19	(FISHING) RUN IN HOLE FROM 188M TO 1380 M FILL PIPE @ 1345M WASH TO BOTTOM
				FROM 13480M TO 1416M
02:00	04:00	2.00	19	(FISHING) TRY TO LATCH FISH
04:00	04:45	0.75	5	CIRCULAT BOTTOMS UP AND MIX PILL
04:45	07:00	2.25	19	(FISHING) PULL OUT OF HOLE TO LAY DOWN FISHING TOOLS, FLOW CHECKS @
				1406M-506M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	09:30	2.25	19	(FISHING) CONTINUE TO PULL OUT OF HOLE FROM 506M TO SURFACE AND BREAK DOWN,
				AND LAY OUT FISHING TOOLS
09:30	10:00	0.50	25	CLEAN AND PREPARE FLOOR TO RUN IN THE HOLE
10:00	12:00	2.00	5A	TRIP IN HOLE OPEN ENDED TO 743M FLOW CHECK @345M, 723M,

Remarks: VIASUAL INSPECTION BRAKES, LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TEST CROWN SAVER, FLARE STACK IGNITER, AND REMOTE CHOKE

SAFETY

Safety Topic	MEHL	MACP
SLIP AND CUT DRILLING LINE	70.00kdaN	

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up / Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	18:00
Density	1085	1070
Funnel Viscosity	45s/l	40s/l
Fluid Loss	9.0cm3	9.0cm3
pH	8.5	8.5
Location of Sample	SHAKER	SHAKER
Depth	1409m	1409m
PVT	46m3	46.2m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	80	2800	5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	@ Strokes/min	@	Depth
		@	@	
		@	@	
		@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
KELZAN	1	SACK
ULTRAFLOC	1	PAIL

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	14:00	2.00	5A	CONTINUE TO TRIP IN HOLE FROM 743M TO 1409M
14:00	19:00	5.00	23A	CIRCULATE AND W/O CEMENTERS, PREPARE FOR CEMENT JOB, DEICE FLOOR AND
				EQUIPMENT
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	19:30	0.25	21D	PRE-JOB SAFETY MEETING WITH B.J. CEMENTERS
19:30	20:00	0.50	12F	CEMENT PLUGS
20:00	20:45	0.75	5B	TRIP OUT 13 STANDS TO DISPLACE STRING 100M ABOVE PLUG TOP
20:45	21:00	0.25	5	CIRCULATE STRING FREE OF EXCESS CEMENT
21:00	23:30	2.50	5B	TRIP OUT OF HOLE FOR DIRECTIONAL TOOLS FROM 1250 M TO 150 M FLOW CHECKS @
				836M, 150M
23:30	23:45	0.25	21	SAFETY MEETING PRIOR TO LAY DOWN DP
23:45	24:00	0.25	5F	LAY DOWN DRILL PIPE FROM 150M TO SURFACE

Remarks: F.T. BLIND, AND PIPE RAMS 3 SECS. TO CLOSE. F.T. FLARE TANK IGNITER, VISUALY INSPECT ALL FLOOR EQUIPMENT.

SAFETY

Safety Topic	MEHL	MACP
EXTREAME COLD TEMPS.		

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up / Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	@ Strokes/min	@	Depth
		@	@	
		@	@	
		@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110227_1A	Pason	2011	02	27

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-40 SLIP AND CUT B-47 RACK BACK KELLY	00:00	
2	JSA REVIEW	B-33 STABBING VALVE STORAGE AND INSTALLATION, B- 44 TRIPPING PIPE OUT	12:00	
2	Revised JSA	B-45 TRIPPING PIPE IN	16:00	

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110228_1B	Pason	2011	02	28

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1						7.25	0.25													4.00	0.50					12.00
Tour 2		0.25	5.50			4.00	0.25														0.25				1.75	12.00
Tour 3																										
Total		0.25	5.50			11.25	0.50													4.00	0.75				1.75	24.00

FUEL @ 08:00 HOURS

Kelly Bushing	Up Fuel
7.02	00.00

Rig	Boiler
115.00	0.00

Time	Temp
08:00	-34.00

WEATHER

Current Conditions	Wind Direction	Wind Strength
CLEAR	SE	UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	5
Size	222
IADC Code	4 3 7
Manufacturer	REED
Type	RO9AMP
Serial No	JW5842
Jets	12.7 12.7 12.7
Depth Out (m)	
Depth In (m)	1336
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	0.00
Entry Date	2011/02/28

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	64	0.27m
1	MOTOR LS	165	0	8.11m
1	FLOAT SUB	165	0	1.11m
1	ORIENT SUB	164	0	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	164	69	0.67m
3	HWDP(4.0 IN)	102	64	28.14m
1	JARS-HYD/MECH	123	58	4.94m
5	HWDP(4.0 IN)	102	64	46.90m
1	HWDP(4.0 IN)	102	64	9.37m
1	HWDP(4.0 IN)	102	64	9.35m
29	Drill Pipe	Stands		565.90m
0	Drill Pipe	Singles		0.00m
	Kelly Down			0.00m
	Total			1170.70m
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag	Up	Down	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type	Water ☐	Oil ☐	Other
Time			
Density			
Funnel Viscosity			
Fluid Loss			
pH			
Location of Sample			
Depth			
PVT			

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	50	1000	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	00:15	0.25	7A	CLEAN - FLOOR
00:15	00:30	0.25	21	SAFETY MEETING WITH DIRECTIONAL HANDS PRIOR TO PICK UP DIRECTIONAL TOOLS
00:30	04:30	4.00	20D	PICK UP MAKE UP DIRECTIONAL TOOLS
04:30	07:00	2.50	5A	TRIP IN HOLE FROM 40M TO 681M FILL PIPE AND TEST TOOL @ 408M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS.
07:15	12:00	4.75	5A	TRIP IN HOLE FROM 681M TO 847M THEN KELLY UP OFF AND ON DOWN TO 1169M

Remarks: VISUAL INSPECTION BRAKES, LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TEST CROWN SAVER, REMOTE CHOKE AND FLARE STACK IGNITER

WT BELOW JARS 14 DAN BHA WT 34 DAN

SAFETY

Safety Topic	MEHL	MACP
PICK UP DIRECTIONAL TOOLS	55.00kdaN	

TOUR 2

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 12:00 END TIME: 24:00

BITS

Bit Number	5
Size	222
IADC Code	4 3 7
Manufacturer	REED
Type	RO9AMP
Serial No	JW5842
Jets	12.7 12.7 12.7
Depth Out (m)	
Depth In (m)	1336
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	0.00
Entry Date	2011/02/28

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	64	0.27m
1	MOTOR LS	165	0	8.11m
1	FLOAT SUB	165	0	1.11m
1	ORIENT SUB	164	0	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	164	69	0.67m
3	HWDP(4.0 IN)	102	64	28.14m
1	JARS-HYD/MECH	123	58	4.94m
5	HWDP(4.0 IN)	102	64	46.90m
1	HWDP(4.0 IN)	102	64	9.37m
1	HWDP(4.0 IN)	102	64	9.35m
36	Drill Pipe	Stands		685.88m
0	Drill Pipe	Singles		0.00m
	Kelly Down			11.97m
	Total			1302.65m
	Weight of DC			
	Weight of String			51kdaN

HOLE CONDITION

Hole Drag	Up	Down	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type	Water [x]	Oil ☐	Other
Time	14:00	18:00	
Density	1010	1060	
Funnel Viscosity	40s/l	44s/l	
Fluid Loss			
pH	12	11.5	
Location of Sample	SHAKER	SHAKER	
Depth	1170m	1205m	
PVT	44.1m3	43.2m3	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	7500	10

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
SODA ASH	3	SACK
SODIUM BICARBONATE	1	SACK
DESCO	5	SACK
TKPP	1	SACK
DEFOAMER	5	PAIL

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	14:45	2.75	5A	TRIP IN HOLE, WASH/ REAM DOWN TO 1151M CIRCULATE HOLE CLEAN
14:45	15:30	0.75	5B	TRIP OUT OF HOLE SIDE WAYS 16 SINGLES FROM 1151M- 1001M
15:30	16:00	0.50	5A	(TRIP IN HOLE) RUN 8 STANDS OUT OF DERRICK
16:00	19:00	3.00	3A	REAM & CLEAN FROM 1139M- 1247M
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	21:45	2.50	3A	REAM & CLEAN FROM 1247M TO 1290M
21:45	22:00	0.25	2C	DRILL CEMENT FROM 1290M TO 1303M
22:00	23:45	1.75	25	WORK ON PASON/ CONTACT PASON, UNABLE TO REBOOT SYSTEM
23:45	24:00	0.25	7	RIG SERVICE

Remarks: VISUAL INSPECTION BRAKES, LINKLAGE, BOP AND MANIFOLD VALVE ALIGNMENT FUNCTION TEST FLARE STACK IGNITER, REMOTE CHOKE, AND CROWN SAVER

WT BELOW JARS 14 DaN, WT OF BHA 34 DaN

SAFETY

Safety Topic	MEHL	MACP
DRILLING CEMENT	75.00kdaN	4177kPa

TOUR 3

SIGNATURE OF DRILLER:

START TIME: END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag	Up	Down	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type	Water ☐	Oil ☐	Other
Time			
Density			
Funnel Viscosity			
Fluid Loss			
pH			
Location of Sample			
Depth			
PVT			

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110228_1B	Pason	2011	02	28

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	64.00	0.27
1	MOTOR LS	165.00	0.00	8.11
1	FLOAT SUB	165.00	0.00	1.11
1	ORIENT SUB	164.00	0.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	164.00	69.00	0.67
3	HWDP(4.0 IN)	102.00	64.00	28.14
1	JARS-HYD/MECH	123.00	58.00	4.94
5	HWDP(4.0 IN)	102.00	64.00	46.90
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
2	HWDP(4.0 IN)	102.00	64.00	18.66
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
3	HWDP(4.0 IN)	102.00	64.00	28.02
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.31
2	HWDP(4.0 IN)	102.00	64.00	18.68
1	HWDP(4.0 IN)	102.00	64.00	9.32
1	HWDP(4.0 IN)	102.00	64.00	9.34
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.17
1	HWDP(4.0 IN)	102.00	64.00	9.33
2	HWDP(4.0 IN)	102.00	64.00	18.72
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
2	HWDP(4.0 IN)	102.00	64.00	18.72
4	HWDP(4.0 IN)	102.00	64.00	37.56
1	HWDP(4.0 IN)	102.00	64.00	9.40
2	HWDP(4.0 IN)	102.00	64.00	18.78
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	B-45 TRIPPING PIPE IN, B-35 RIG TONG USE	12:00	

V.1.1

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110228_1B	Pason	2011	02	28

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.40
1	HWDP(4.0 IN)	102.00	64.00	9.39
29	Drill Pipe	Stands		565.90
0	Drill Pipe	Singles		0.00

Kelly Down	0.00
Total	1170.70
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	64.00	0.27
1	MOTOR LS	165.00	0.00	8.11
1	FLOAT SUB	165.00	0.00	1.11
1	ORIENT SUB	164.00	0.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	164.00	69.00	0.67
3	HWDP(4.0 IN)	102.00	64.00	28.14
1	JARS-HYD/MECH	123.00	58.00	4.94
5	HWDP(4.0 IN)	102.00	64.00	46.90
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
2	HWDP(4.0 IN)	102.00	64.00	18.66
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
3	HWDP(4.0 IN)	102.00	64.00	28.02
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.31
2	HWDP(4.0 IN)	102.00	64.00	18.68
1	HWDP(4.0 IN)	102.00	64.00	9.32
1	HWDP(4.0 IN)	102.00	64.00	9.34
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth

V. 1.1

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110228_1B	Pason	2011	02	28

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.17
1	HWDP(4.0 IN)	102.00	64.00	9.33
2	HWDP(4.0 IN)	102.00	64.00	18.72
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
2	HWDP(4.0 IN)	102.00	64.00	18.72
4	HWDP(4.0 IN)	102.00	64.00	37.56
1	HWDP(4.0 IN)	102.00	64.00	9.40
2	HWDP(4.0 IN)	102.00	64.00	18.78
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.40
1	HWDP(4.0 IN)	102.00	64.00	9.39
36	Drill Pipe		Stands	685.88
0	Drill Pipe		Singles	0.00
	Kelly Down			11.97
	Total			1302.65
	Weight of DC			
	Weight of String			51.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth

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MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110228_1B	Pason	2011	02	28

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	14:00	18:00	22:45														
Density	1010kg/m3	1060kg/m3	1010kg/m3														
Funnel Viscosity	40s/l	44s/l	45s/l														
Fluid Loss			15cm3														
Fluid pH	12	11.5	12														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	1170m	1205m	1297m														
PVT	44.1m3	43.2m3	44.9m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110301_1A	Pason	2011	03	01

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required	JWB	MN
4) Well Licence & Stick Diagram Posted	JWB	MN
5) Flare Lines Staked	JWB	MN
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	JWB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		MN
5) Motor Kills Checked		

CADDC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1		3.25			8.25		0.25														0.25					12.00
Tour 2							0.50													11.25	0.25					12.00
Tour 3																										
Total		3.25			8.25		0.75													11.25	0.50					24.00

WEATHER

Kelly Bushing 7.02 | Up Fuel 19.00

FUEL @ 08:00 HOURS

Rig 74.00 | Boiler 0.00

Time 06:00 | Temp -33.00

Current Conditions: CLEAR

Wind Direction: S | Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	5
Size	222
IADC Code	4 3 7
Manufacturer	REED
Type	ROSAMP
Serial No	JW5842
Jets	12.7 12.7 12.7
Depth Out (m)	
Depth In (m)	1333
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	0.00
Entry Date	2011/02/28

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	64	0.27m
1	MOTOR LS	165	0	8.11m
1	FLOAT SUB	165	0	1.11m
1	ORIENT SUB	164	0	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	164	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	123	58	4.94m
54	HWDP(4.0 IN)	102	64	505.23m
37	Drill Pipe	Stands		704.70m
1	Drill Pipe	Singles		9.66m
	Kelly Down			11.97m
	Total			1331.13m
	Weight of DC			
	Weight of String			51kdaN

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom:

Fill on Bottom:

MUD RECORD

Mud Type: Water [x] Oil ☐ Other ☐

Time	04:00
Density	1010
Funnel Viscosity	40s/l
Fluid Loss	16cm3
pH	12
Location of Sample	SHAKER
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	80	1200	12

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
DEFOAMER	7	PAIL
TKPP	2	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	255

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	03:15	3.25	2C	DRILL CEMENT FROM 1303M TO 1331M
03:15	03:30	0.25	7	RIG SERVICE
03:30	05:45	2.25	5	CONDITION MUD & CIRCULATE
05:45	07:00	1.25	5F	PREPARE 400BBLS AND UNITED TANK TO DISPLACE THE WELL WITH VOLUME FRO STORAGE TANKS
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	12:00	4.75	5F	CHANGE OUT MUD SYSTEM. SUCK AIRATED MUD OUT OF MAIN SYSTEM AND BRING OVER SURFACE MUD FROM 400 BRLS. MIX IN DEFOMER.

Remarks: VISUAL INSPECTION BRAKES, LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TEST FLARE STACK IGNITER, CROWN SAVER, REMOTE CHOKE

WT BELOW JARS 14 DAN WT OF BHA 34 DAN

SAFETY

Safety Topic	MEHL	MACP
MIXING MUD CHEMICALS	70.00kdaN	4247kPa

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	5
Size	222
IADC Code	4 3 7
Manufacturer	REED
Type	ROSAMP
Serial No	JW5842
Jets	12.7 12.7 12.7
Depth Out (m)	
Depth In (m)	1333
Total Drilled (m)	5
Hrs Run Today	10.00
Cumulative Hrs Run	10.00
Entry Date	2011/02/28

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1333m	1338m	DRILL	1	5kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	64	0.27m
1	MOTOR LS	165	0	8.11m
1	FLOAT SUB	165	0	1.11m
1	ORIENT SUB	164	0	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	164	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	123	58	4.94m
54	HWDP(4.0 IN)	102	64	505.23m
38	Drill Pipe	Stands		723.97m
0	Drill Pipe	Singles		0.00m
	Kelly Down			9.23m
	Total			1338.00m
	Weight of DC			
	Weight of String			51kdaN

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom:

Fill on Bottom:

MUD RECORD

Mud Type: Water [x] Oil ☐ Other ☐

Time	14:00	18:00
Density	1010	1040
Funnel Viscosity	30s/l	34s/l
Fluid Loss		16cm3
pH	11	11
Location of Sample	SHAKER	SHAKER
Depth	1333m	1335m
PVT	38.3m3	41.7m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1		152	102	8800	11.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
KELZAN	3	SACK
DRISPAC	3	SACK
LIGNITE	6	SACK
CAUSTIC	1	SACK
ULTRAFLOC	3	PAIL

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	13:15	1.25	20B	CONTROLLED DRILLING FROM 1331M-1333M
13:15	13:45	0.50	7	RIG SERVICE / REPLACE HYD BOP HOSE
13:45	19:00	5.25	20B	CONTROLLED DRILLING FROM 1333M-1334M @ 1 INCH/4MINS. 1334M-1336M @ 1INCH/3MINS
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	24:00	4.75	20B	CONTROLLED DRILLING 1336M - 1337M @ 1INCH/3MINS 1337M-1338M @ 1 INCH/ 2MINS

Remarks: VISUALY INSPECT FLOOR EQUIPMENT, WATER, STEAM, AND FUEL LINES. F.T. CROWN SAVER, F.T. FLARE TANK IGNITER. VISUALY INSPECT MANIFOLD ALIGNMENT

WT BELOW JARS 14 DAN WT OF BHA 34DAN

SAFETY

Safety Topic	MEHL	MACP
SLIPS AND TRIPS	55.00kdaN	4247kPa

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom:

Fill on Bottom:

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other ☐

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110301_1A	Pason	2011	03	01

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	64.00	0.27
1	MOTOR LS	165.00	0.00	8.11
1	FLOAT SUB	165.00	0.00	1.11
1	ORIENT SUB	164.00	0.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	164.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	123.00	58.00	4.94
54	HWDP(4.0 IN)	102.00	64.00	505.23
37	Drill Pipe	Stands		704.70
1	Drill Pipe	Singles		9.66
	Kelly Down			11.97
	Total			1331.13
	Weight of DC			
	Weight of String			51.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	64.00	0.27
1	MOTOR LS	165.00	0.00	8.11
1	FLOAT SUB	165.00	0.00	1.11
1	ORIENT SUB	164.00	0.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	164.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	123.00	58.00	4.94
54	HWDP(4.0 IN)	102.00	64.00	505.23
38	Drill Pipe	Stands		723.97
0	Drill Pipe	Singles		0.00
	Kelly Down			9.23
	Total			1338.00
	Weight of DC			
	Weight of String			51.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-04 CONNECTIONS WITH DP, B-89 SETTING SLIPS	00:00	
2	JSA REVIEW	B-49 TONG DIE CHANGE OUT, B-89 SETTING SLIPS	12:00	

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MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110301_1A	Pason	2011	03	01

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	04:00															
Density	1010kg/m3															
Funnel Viscosity	40s/l															
Fluid Loss	16cm3															
Fluid pH	12															
Location of Sample	SHAKER															
Depth																
PVT																
Test 1 Type (Ex: Chlorides)																
Test 1 Value																
Test 2 Type (ex: Sand%)																
Test 2 Value																
Test 3 Type (ex: Hard Ca)																
Test 3 Value																
Test 4 Type (ex: Sulfides)																
Test 4 Value																

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110301_1A	Pason	2011	03	01

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	
Operator's AFE	Contractor's Job No		Spud Date Time	
10N110009	C6473		2011/02/18 03:00	
Signature of Operator Representative	Signature of Contractor's Rig Manager		Rig Release Date Time	
JOSH BLINSTON	MICHAEL NUGENT			

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** **OTHER**

Time	14:00	18:00	22:15														
Density	1010kg/m3	1040kg/m3	1040kg/m3														
Funnel Viscosity	30s/l	34s/l	37s/l														
Fluid Loss		16cm3	18cm3														
Fluid pH	11	11	12														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	1333m	1335m	1336m														
PVT	38.3m3	41.7m3	52.6m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110302_1A	Pason	2011	03	02

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required	JWB	MN
4) Well Licence & Stick Diagram Posted	JWB	MN
5) Flare Lines Staked	JWB	MN
6) BOP Drills Performed	JWB	MN
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	JWB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		MN

CADDC

pason

Pason

HOURS	CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
	Tour 1		11.50								0.25											0.25					12.00
	Tour 2		10.75								0.75											0.50					12.00
	Tour 3																										
	Total		22.25								1.00											0.75					24.00

Kelly Bushing 7.02 | Op Fuel 03.00

FUEL @ 08:00 HOURS

Rig 148.00 | Boiler 0.00 | Time 06:00 | Temp -26.00

WEATHER

Current Conditions CLEAR | Wind Direction | Wind Strength CALM | Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	5
Size	222
IADC Code	4 3 7
Manufacturer	REED
Type	RO9AMP
Serial No	JW5842
Jets	12.7 12.7 12.7
Depth Out (m)	
Depth In (m)	1333
Total Drilled (m)	34
Hrs Run Today	10.00
Cumulative Hrs Run	20.25
Entry Date	2011/02/28

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1338m	1373.09m	DRILL	40	23kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	64	0.27m
1	MOTOR LS	165	0	8.11m
1	FLOAT SUB	165	0	1.11m
1	ORIENT SUB	164	0	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	164	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	123	58	4.94m
54	HWDP(4.0 IN)	102	64	505.23m
40	Drill Pipe	Stands		762.00m
0	Drill Pipe	Singles		0.00m

Kelly Down	6.29m
Total	1373.09m
Weight of DC	
Weight of String	51kdaN

HOLE CONDITION

Hole Drag	Up / Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:00	06:00
Density	1050	1060
Funnel Viscosity	40s/l	42s/l
Fluid Loss	16cm3	13cm3
pH	12	12
Location of Sample	SHAKER	SHAKER
Depth	1339m	1343m
PVT	53.7m3	55.1m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	102	9800	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
1	2700 @	52 @	1331
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
08:45	1344.56m	31.8	165.9	DIRECTIONAL
11:15	1354.16m	35.5	165.2	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
DEFOAMER	5	PAIL
KELZAN	1	SACK
LIGNITE	2	SACK
DRISPAC	1	SACK
ULTRAFLOC	2	PAIL

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	255

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	07:00	7.00	2	DIRECTIONAL DRILL 222 MM HOLE FROM 1338M TO 1353M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	11:45	4.50	2	DIRECTIONAL DRILL 222MM HOLE FROM 1353M-1373M
11:45	12:00	0.25	10	ACC SURVEY TIME

Remarks:

SAFETY

Safety Topic	MEHL	MACP
HOUSEKEEPING		

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	5
Size	222
IADC Code	4 3 7
Manufacturer	REED
Type	RO9AMP
Serial No	JW5842
Jets	12.7 12.7 12.7
Depth Out (m)	
Depth In (m)	1333
Total Drilled (m)	80
Hrs Run Today	10.75
Cumulative Hrs Run	31.00
Entry Date	2011/02/28

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1373m	1413m	DRILL	40	16kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	64	0.27m
1	MOTOR LS	165	0	8.11m
1	FLOAT SUB	165	0	1.11m
1	ORIENT SUB	164	0	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	164	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	123	58	4.94m
54	HWDP(4.0 IN)	102	64	505.23m
42	Drill Pipe	Stands		799.94m
0	Drill Pipe	Singles		0.00m

Kelly Down	9.08m
Total	1413.82m
Weight of DC	
Weight of String	51kdaN

HOLE CONDITION

Hole Drag	Up 2 / Down 22
Torque at Bottom	6000.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	18:00
Density	1080	1080
Funnel Viscosity	43s/l	40s/l
Fluid Loss	10cm3	9.0cm3
pH	12	12
Location of Sample	SHAKER	SHAKER
Depth	1390m	1398m
PVT	57.1m3	57.0m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	110	11100	10.75

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
1	2700 @	52 @	1330
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
13:30	1364.77m	39.3	165.3	DIRECTIONAL
16:00	1373.38m	42.2	165.3	DIRECTIONAL
18:30	1382.48m	46.5	166.7	DIRECTIONAL
	1392.09m	50	167.9	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
KELZAN	3	SACK
DRISPAC	4	SACK
LIGNITE	8	SACK
ULTRAFLOC	5	PAIL
DEFOAMER	6	PAIL

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	19:00	7.00	2	DRILL 222MM HOLE FROM 1373M-1399M
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	19:30	0.25	21A	DRILLS/BOP, ETC. , REVIEW NABORS LEARNING BULLETINS, AND PROCEDURES FOR SOUR
				WELL CONTROL
19:30	23:15	3.75	2	DRILL 222MM HOLE FROM 1399M TO 1413M
23:15	24:00	0.75	10	ACC SURVEY TIME

Remarks: VISUAL INSPECTION BRAKES, LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TEST FLARE STACK IGNITER, REMOTE CHOKE, CROWN SAVER

WT BELOW JARS 14DAN WT OF BHA 34 DAN

SAFETY

Safety Topic	MEHL	MACP
HEARING PROTECTION	70.00kdaN	4106kPa

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up / Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110302_1A	Pason	2011	03	02

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	64.00	0.27
1	MOTOR LS	165.00	0.00	8.11
1	FLOAT SUB	165.00	0.00	1.11
1	ORIENT SUB	164.00	0.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	164.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	123.00	58.00	4.94
54	HWDP(4.0 IN)	102.00	64.00	505.23
40	Drill Pipe		Stands	762.00
0	Drill Pipe		Singles	0.00
	Kelly Down			6.29
	Total			1373.09
	Weight of DC			
	Weight of String			51.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	64.00	0.27
1	MOTOR LS	165.00	0.00	8.11
1	FLOAT SUB	165.00	0.00	1.11
1	ORIENT SUB	164.00	0.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	164.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	123.00	58.00	4.94
54	HWDP(4.0 IN)	102.00	64.00	505.23
42	Drill Pipe		Stands	799.94
0	Drill Pipe		Singles	0.00
	Kelly Down			9.08
	Total			1413.82
	Weight of DC			
	Weight of String			51.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	A-03 VENTILATION IN MIXING AREA G-09 MIX MUD CHEMICALS	00:00	
2	JSA REVIEW	N-09 MIXING MUD + CHEMICALS, N-19 ADDING METHONAL	12:00	
2	Rig site H/S	MAN DOWN ROUTE AND MUSTER POINTS, PACK TRAINING	12:30	

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110302_1A	Pason	2011	03	02

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** POLYHMER **WATER** x **OIL** ☐ **OTHER**

Time	02:00	06:00	10:00														
Density	1050kg/m3	1060kg/m3	1060kg/m3														
Funnel Viscosity	40s/l	42s/l	40s/l														
Fluid Loss	16cm3	13cm3	11.5cm3														
Fluid pH	12	12	12														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	1339m	1343m	1366m														
PVT	53.7m3	55.1m3	56.2m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110302_1A	Pason	2011	03	02

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** **OTHER**

Time	14:00	18:00	20:30														
Density	1080kg/m3	1080kg/m3	1060kg/m3														
Funnel Viscosity	43s/l	40s/l	45s/l														
Fluid Loss	10cm3	9.0cm3	9.5cm3														
Fluid pH	12	12	11														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	1390m	1398m	1402m														
PVT	57.1m3	57.0m3	56.7m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110303_1A	Pason	2011	03	03

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BALINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	7 Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1		10.75					0.25													0.75	0.25					12.00
Tour 2		10.00					0.25			1.50											0.25					12.00
Tour 3																										
Total		20.75					0.50			1.50										0.75	0.50					24.00

FUEL @ 08:00 HOURS

Kelly Bushing	Up Fuel
7.02	19.00

Rig	Boiler
181.00	0.00

WEATHER

Time	Temp
06:00	-31.00

Current Conditions: CLEAR

Wind Direction: SE

Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	5
Size	222
IADC Code	4 3 7
Manufacturer	REED
Type	RO9AMP
Serial No	JW5842
Jets	12.7 12.7 12.7
Depth Out (m)	
Depth In (m)	1333
Total Drilled (m)	119
Hrs Run Today	11.50
Cumulative Hrs Run	40.50
Entry Date	2011/02/28

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1413m	1452.94m	DRILL	40	16kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	64	0.27m
1	MOTOR LS	165	0	8.11m
1	FLOAT SUB	165	0	1.11m
1	ORIENT SUB	164	0	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	164	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	123	58	4.94m
54	HWDP(4.0 IN)	102	64	505.23m
44	Drill Pipe	Stands		837.95m
0	Drill Pipe	Singles		0.00m
	Kelly Down			10.19m
	Total			1452.94m
	Weight of DC			
	Weight of String			51kdaN

HOLE CONDITION

Hole Drag Up 6 Down 4

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:00	06:00
Density	1100	1110
Funnel Viscosity	47s/l	48s/l
Fluid Loss	9cm3	9cm3
pH	11	10.5
Location of Sample	SHAKER	SHAKER
Depth	1420m	1428m
PVT	57.3m3	57.6m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	110	11100	10.75

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
1	3160 @	50 @	1425
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
	1401.71m	52.9	168.9	DIRECTIONAL
	1411.33m	55.3	171.6	DIRECTIONAL
08:00	1420.94m	58.3	172.8	DIRECTIONAL
10:15	1430.55m	60.9	173.8	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
DRISPAC	1	SACK
ULTRAFLOC	3	PAIL
DEFOAMER	2	PAIL

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	255

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	05:00	5.00	2	DRILL 222MM HOLE FROM 1413M TO 1426M
05:00	05:15	0.25	7	RIG SERVICE FUNCTION ANNULAR 8 SEC TO CLOSE
05:15	07:00	1.75	2	DRILL 222MM HOLE FROM 1426M TO 1432M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	11:15	4.00	2	DRILL 222 MM HOLE FROM 1432M-1452M
11:15	12:00	0.75	20A	DIRECTIONAL SURVEYS

Remarks: •VISUAL INSPECTION BRAKES,LINKAGE BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TEST FLARE STACK IGNITER, REMOTE CHOKE, AND CROWNSAVER

WT BELOW JARS 14DAN WT OF BHA 34 DAN

SAFETY

Safety Topic	MEHL	MACP
ROLLING CASING	65.00kdaN	4000kPa

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 12:00 END TIME: 24:00

BITS

Bit Number	5
Size	222
IADC Code	4 3 7
Manufacturer	REED
Type	RO9AMP
Serial No	JW5842
Jets	12.7 12.7 12.7
Depth Out (m)	
Depth In (m)	1333
Total Drilled (m)	170
Hrs Run Today	9.50
Cumulative Hrs Run	50.00
Entry Date	2011/02/28

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1452m	1503m	DRILL	40	17kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	64	0.27m
1	MOTOR LS	165	0	8.11m
1	FLOAT SUB	165	0	1.11m
1	ORIENT SUB	164	0	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	164	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	123	58	4.94m
54	HWDP(4.0 IN)	102	64	505.23m
47	Drill Pipe	Stands		894.75m
0	Drill Pipe	Singles		0.00m
	Kelly Down			4.00m
	Total			1503.55m
	Weight of DC			
	Weight of String			51kdaN

HOLE CONDITION

Hole Drag Up 6 Down 8

Torque at Bottom 8000.00Nm

Fill on Bottom

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	18:00
Density	1100	1100
Funnel Viscosity	48s/l	47s/l
Fluid Loss	11cm3	8.0cm3
pH	9.5	10.5
Location of Sample	SHAKER	SHAKER
Depth	1460m	1479m
PVT	59m3	53.8m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	110	12500	9.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
1	3160 @	50 @	1425
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
12:30	1439.72m	69.3	175.7	DIRECTIONAL
15:00	1449.11m	67.1	175.7	DIRECTIONAL
17:00	1458.27m	70.2	175.6	DIRECTIONAL
	1467.89m	73.1	175.5	DIRECTIONAL
	1477.50m	75.3	176.6	DIRECTIONAL
	1486.9m	77.5	178.8	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density
CENTRIFUGE	12	1110	1100	1780

MUD MATERIALS ADDED

Product	Amount	Type
KELZAN	2	SACK
DRISPAC	3	SACK
LIGNITE	5	SACK
ULTRAFLOC	5	PAIL
CAUSTIC	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	270

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	14:45	2.75	2	DRILL 222MM HOLE FROM 1452M-1464
14:45	15:00	0.25	7	RIG SERVICE GREASED CROWN, DRIVE LINE, DRAW WORKS, TABLE. CHECKED ALL OILS
15:00	19:00	4.00	2	DRILL 222MM HOLE FROM 1464M-1480M
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	22:30	3.25	2	DRILL 222MM HOLE FROM 1480M- 1503M
22:30	24:00	1.50	10	ACC SURVEY TIME

Remarks: VISUALY INSPECT BREAKS, LINKAGES AND SPRINGS. F.T. FLARE STACK IGNITER, CHECK VALVE ALINGEMENT ON BOP'S AND MANIFOLD SHACK

WT BELOW JARS 14 DAN WT OF BHA 34 DAN

DIRECTIONAL SLIDING 32 M

SAFETY

Safety Topic	MEHL	MACP
DRIFT CASING	65.00kdaN	4000kPa

TOUR 3

SIGNATURE OF DRILLER:

START TIME: END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag Up Down

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

V. 1.2

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110303_1A	Pason	2011	03	03

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	64.00	0.27
1	MOTOR LS	165.00	0.00	8.11
1	FLOAT SUB	165.00	0.00	1.11
1	ORIENT SUB	164.00	0.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	164.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	123.00	58.00	4.94
54	HWDP(4.0 IN)	102.00	64.00	505.23
44	Drill Pipe	Stands		837.95
0	Drill Pipe	Singles		0.00
	Kelly Down			10.19
	Total			1452.94
	Weight of DC			
	Weight of String			51.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	64.00	0.27
1	MOTOR LS	165.00	0.00	8.11
1	FLOAT SUB	165.00	0.00	1.11
1	ORIENT SUB	164.00	0.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	164.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	123.00	58.00	4.94
54	HWDP(4.0 IN)	102.00	64.00	505.23
47	Drill Pipe	Stands		894.75
0	Drill Pipe	Singles		0.00
	Kelly Down			4.00
	Total			1503.55
	Weight of DC			
	Weight of String			51.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	B-51 CREW CAB OPPERATIONS, B-74 BRING PIPE UP FROM CATWALK TO MOUSE HOLE	12:00	

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110303_1A	Pason	2011	03	03

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	02:00	06:00	10:00														
Density	1100kg/m3	1110kg/m3	1110kg/m3														
Funnel Viscosity	47s/l	48s/l	45s/l														
Fluid Loss	9cm3	9cm3	10cm3														
Fluid pH	11	10.5	11														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	1420m	1428m	1453m														
PVT	57.3m3	57.6m3	56.74m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110303_1A	Pason	2011	03	03

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** **OTHER**

Time	14:00	18:00	20:00	23:00													
Density	1100kg/m3	1100kg/m3	1100kg/m3	1105kg/m3													
Funnel Viscosity	48s/l	47s/l	46s/l	48s/l													
Fluid Loss	11cm3	8.0cm3	8cm3	8cm3													
Fluid pH	9.5	10.5	10	10													
Location of Sample	SHAKER	SHAKER	SHAKER	SHAKER													
Depth	1460m	1479m	1480m	1496m													
PVT	59m3	53.8m3	53.5m3	52.3m3													
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110304_1A	Pason	2011	03	04

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS (OP / RM)

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 Inspected BOPs - Flare Lines & Degasser Lines

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

CAODC / pason — Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	11 Wireline Logs	12 Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	Waiting On	24 Rig Watch	25 Other	TOTAL
HOURS Tour 1		10.00			0.50		0.25												1.00		0.25					12.00
Tour 2					1.00	8.25	0.25													1.50	0.50				0.50	12.00
Tour 3																										
Total		10.00			1.50	8.25	0.50												1.00	1.50	0.75				0.50	24.00

Kelly Bushing 7.02 — Op Fuel 19.00

FUEL @ 08:00 HOURS

Rig 113.00 — Boiler 0.00

WEATHER — Time 06:00 — Temp -31.00 — Current Conditions CLEAR — Wind Direction SE — Wind Strength UP TO 19 KM/H — Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON — START TIME: 00:00 — END TIME: 12:00

BITS

Bit Number	5
Size	222
IADC Code	4 3 7
Manufacturer	REED
Type	RO9AMP
Serial No	JW5842
Jets	12.7 12.7 12.7
Depth Out (m)	1534
Depth In (m)	1333
Total Drilled (m)	201
Hrs Run Today	7.50
Cumulative Hrs Run	57.50
Entry Date	2011/02/28

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	3.50
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1503m	1534.m	DRILL	40	18kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	64	0.27m
1	MOTOR LS	165	0	8.11m
1	FLOAT SUB	165	0	1.11m
1	ORIENT SUB	164	0	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	164	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	123	58	4.94m
54	HWDP(4.0 IN)	102	64	505.23m
48	Drill Pipe	Stands		913.92m
1	Drill Pipe	Singles		9.60m

Kelly Down	5.68m
Total	1534.00m
Weight of DC	100kdaN
Weight of String	52kdaN

HOLE CONDITION

Hole Drag Up [ ] Down [ ]

Torque at Bottom	8000.00Nm
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	02:30	10:00
Density	1110	1110
Funnel Viscosity	52s/l	52s/l
Fluid Loss	8cm3	9.0cm3
pH	10	10.0
Location of Sample	SHAKER	SHAKER
Depth	1514m	1530m
PVT	50.5m3	49.8m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	110	12000	11.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	3200	@	50	@	1510
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
	1496.52m	78	179.9	DIRECTIONAL
	1506.12m	80.2	180.7	DIRECTIONAL
11:30	1519m	84.8	181.2	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
KELZAN	1	SACK
CAUSTIC	1	SACK
GEL	20	SACK
ULTRAFLOC	2	PAIL

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	02:00	2.00	2	DRILL 222 MMM HOLE FROM 1503M 1511M
02:00	02:15	0.25	7	RIG SERVICE FUNCTION PIPE RAMS 3 SECONDS TO CLOSE
02:15	07:00	4.75	2	DRILL 222 MM HOLE FROM 1511M TO 1525M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	08:30	1.25	2	DRILL 222MM HOLE FROM 1525M-1527M
08:30	09:30	1.00	19A	PULL 15 daN INTO STRING, PUT 2.5 TURNS INTO STRING AND LET SIT. THEN COME DOWN TO STRING WT. THEN BACK UP TO 70DAN AND REPEAT. THEN BACK DOWN TO 15DAN
				TOO SET JARS. THEN UP TO 75 DAN. AND REPEAT 4X. THEN TOOL PUSH REPEATED
				TAKING WT UP TO 90dAN
09:30	11:30	2.00	2	DRILL 222MM HOLE FROM ' 1527M- 1534M T.D.
11:30	12:00	0.50	5D	CIRCULATE, BTMS UP AND PREPARE TO PULL OUT,OF HOLE, MIX PILL

Remarks: VISUAL INSPECTION BRAKES, LINKAGE BOP AND MANIFOLD VALVE ALIGNMENT
WT BELOW JARS 14 DAN BHA WT 34 DAN
DIRECTIONAL SLIDING 21.6 M

SAFETY

Safety Topic	MEHL	MACP
FLOW CHECKS	90.00kdaN	

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET — START TIME: 12:00 — END TIME: 24:00

BITS

Bit Number	5
Size	222
IADC Code	4 3 7
Manufacturer	REED
Type	RO9AMP
Serial No	JW5842
Jets	12.7 12.7 12.7
Depth Out (m)	1534
Depth In (m)	1333
Total Drilled (m)	201
Hrs Run Today	0.00
Cumulative Hrs Run	57.50
Entry Date	2011/02/28

CUTTING STRUCTURE

TI	4	Gage	2
TO	4	ODC	CT
MDC	BT	Reason Pulled	TD
LOC	A	Total Run (m/hr)	3.50
BRG	2		

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	64	0.27m
1	MOTOR LS	165	0	8.11m
1	FLOAT SUB	165	0	1.11m
1	ORIENT SUB	164	0	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	164	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	123	58	4.94m
54	HWDP(4.0 IN)	102	64	505.23m
48	Drill Pipe	Stands		913.92m
1	Drill Pipe	Singles		9.60m

Kelly Down	5.68m
Total	1534.00m
Weight of DC	100kdaN
Weight of String	52kdaN

HOLE CONDITION

Hole Drag Up [ ] Down [ ]

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	12:00
Density	1110
Funnel Viscosity	56s/l
Fluid Loss	9.0cm3
pH	10.0
Location of Sample	SHAKER
Depth	1534m
PVT	49.7m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	1	12

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	3200	@	50	@	1510
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
KELZAN	1	SACK
GEL	20	SACK
ULTRAFLOC	1	PAIL
BARITE	30	SACK
DESCO	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	13:00	1.00	5D	CIRCULATE BOTTOMS UP
13:00	19:00	6.00	5B	WIPER TRIP OUT FROM1534-758M. (PULL 3 STANDS TO 1480M. THEN KELLY UP AND PUMP OUT 9 SINGLES AND WORK TIGHT HOLE) FLOW CHECK @758M
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	21:30	2.25	5B	TRIP OUT OF HOLE FROM 758M- 40M
21:30	21:45	0.25	21	SAFETY MEETING PRIOR TO LAY DOWN DIRECTIONAL TOOLS
21:45	23:15	1.50	20D	LAY DOWN DIRECTIONAL TOOLS
23:15	23:30	0.25	7A	CLEAN - FLOOR
23:30	24:00	0.50	25	INSTALL RUBBER SPACER IN FLOW-T FOR JACKING RIG

Remarks: VISUAL INSPECTION BRAKES, LINKAGE BOP AND MANIFOLD, FUNCTION TEST ,. CROWN SAVER, REMOTE CHOKE , FLARESTACK IGNITER
TRIP SHEET CALCULATED, 5.52, MEASURED 7.08, DIFF 1.56

SAFETY

Safety Topic	MEHL	MACP
ROTARY DANGER ZONE		

TOUR 3

SIGNATURE OF DRILLER: — START TIME: — END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
C		Total Run (m/hr)	
BG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag Up [ ] Down [ ]

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other [ ]

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

V. 1.2

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110304_1A	Pason	2011	03	04

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	64.00	0.27
1	MOTOR LS	165.00	0.00	8.11
1	FLOAT SUB	165.00	0.00	1.11
1	ORIENT SUB	164.00	0.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	164.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	123.00	58.00	4.94
54	HWDP(4.0 IN)	102.00	64.00	505.23
48	Drill Pipe		Stands	913.92
1	Drill Pipe		Singles	9.60
	Kelly Down			5.68
	Total			1534.00
	Weight of DC			100.00
	Weight of String			52.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	64.00	0.27
1	MOTOR LS	165.00	0.00	8.11
1	FLOAT SUB	165.00	0.00	1.11
1	ORIENT SUB	164.00	0.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	164.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	123.00	58.00	4.94
54	HWDP(4.0 IN)	102.00	64.00	505.23
48	Drill Pipe		Stands	913.92
1	Drill Pipe		Singles	9.60
	Kelly Down			5.68
	Total			1534.00
	Weight of DC			100.00
	Weight of String			52.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	A-50 LOAD GREASE GUN, C-09 DRIFTING CASING	00:00	
2	JSA REVIEW	B-39 CLEANING TOOL JOINTS, B-44 TRIPPING PIPE OUT	12:00	

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number: DX8424_20110305_1A | Vendor Software Version: Pason | Year: 2011 | Month: 03 | Day: 05

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required	JWB	MN
4) Well Licence & Stick Diagram Posted	JWB	MN
5) Flare Lines Staked	JWB	MN
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	JWB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked	MN	

CADDC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1			4.75			5.00															0.25				2.00	12.00
Tour 2			7.00		1.00	3.00													0.75		0.25					12.00
Tour 3																										
Total			11.75		1.00	8.00													0.75		0.50				2.00	24.00

WEATHER

Kelly Bushing: 7.02 | Op Fuel: 28.00

FUEL @ 08:00 HOURS

Rig: 85.00 | Boiler: 0.00 | Time: 06:00 | Temp: -30.00 | Current Conditions: CLEAR | Wind Direction | Wind Strength: CALM | Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	6RR
Size	222
IADC Code	5 3 7
Manufacturer	REED
Type	R15MP
Serial No	EM2856
Jets	
Depth Out (m)	
Depth In (m)	1534
Total Drilled (m)	0
Hrs Run Today	0.00
Cumulative Hrs Run	0.00
Entry Date	2011/03/05

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	64	0.28m
1	BIT SUB	102	64	0.86m
1	BIT SUB X/O	158	64	0.69m
8	HWDP(4.0 IN)	102	64	75.04m
1	HWDP(4.0 IN)	102	64	9.37m
1	HWDP(4.0 IN)	102	64	9.35m
1	HWDP(4.0 IN)	102	64	9.34m
1	HWDP(4.0 IN)	102	64	9.35m
1	HWDP(4.0 IN)	102	64	9.34m
1	HWDP(4.0 IN)	102	64	9.33m
1	HWDP(4.0 IN)	102	64	9.36m
1	HWDP(4.0 IN)	102	64	9.38m
1	HWDP(4.0 IN)	102	64	9.39m
50	Drill Pipe	Stands		952.24m
1	Drill Pipe	Singles		9.61m
	Kelly Down			3.87m
	Total			1534.00m
	Weight of DC			
	Weight of String			51kdaN

HOLE CONDITION

Hole Drag	Up 3	Down 3	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	10:00	
Density	1110	
Funnel Viscosity	63s/l	
Fluid Loss	10.0cm3	
pH	10.0	
Location of Sample	SHAKER	
Depth	1387m	
PVT	45.1m3	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1		152	110	7000	12

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	3200	@	50	@	1510
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	260

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	01:00	1.00	25	INSTALL RUBBER SPACER ON FLOW-T, READY FLOOR EQUIPMENT TO RUN IN HOLE
01:00	02:00	1.00	25	REMOVE RUBBER SPACER FROM FLOW-T
02:00	07:00	5.00	5A	TRIP IN HOLE FROM SURFACE TO 1324 FILLED PIPE @ 605M, 1255M LAYED DOWN 8
				SINGLES FROM 1255 TO 1324
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	12:00	4.75	3A	REAM & CLEAN FROM 1330M-1475M

Remarks:

SAFETY

Safety Topic	MEHL	MACP
	49.00kdaN	

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	6RR
Size	222
IADC Code	5 3 7
Manufacturer	REED
Type	R15MP
Serial No	EM2856
Jets	
Depth Out (m)	1534
Depth In (m)	1534
Total Drilled (m)	0
Hrs Run Today	0.00
Cumulative Hrs Run	0.00
Entry Date	2011/03/05

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	64	0.28m
1	BIT SUB	102	64	0.86m
1	BIT SUB X/O	158	64	0.69m
8	HWDP(4.0 IN)	102	64	75.04m
1	HWDP(4.0 IN)	102	64	9.37m
1	HWDP(4.0 IN)	102	64	9.35m
1	HWDP(4.0 IN)	102	64	9.34m
1	HWDP(4.0 IN)	102	64	9.35m
1	HWDP(4.0 IN)	102	64	9.34m
1	HWDP(4.0 IN)	102	64	9.33m
1	HWDP(4.0 IN)	102	64	9.36m
1	HWDP(4.0 IN)	102	64	9.38m
1	HWDP(4.0 IN)	102	64	9.39m
50	Drill Pipe	Stands		952.24m
1	Drill Pipe	Singles		9.61m
	Kelly Down			3.87m
	Total			1534.00m
	Weight of DC			
	Weight of String			51kdaN

HOLE CONDITION

Hole Drag	Up 3	Down 4	
Torque at Bottom			4000.00Nm
Fill on Bottom			2.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	23:45
Density	1110	1130
Funnel Viscosity	67s/l	120s/
Fluid Loss	10.0cm3	8.5cm3
pH	10.0	9.5
Location of Sample	SHAKER	SHAKER
Depth	1534m	1400m
PVT	45.2m3	9.1m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	5500	8

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	3250	@	55	@	1530
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
KELZAN	1	SACK
GEL	58	SACK
SODA ASH	4	SACK
DEFOAMER	9	PAIL
ULTRAFLOC	1	PAIL
BARITE	53	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	14:00	2.00	3A	REAM & CLEAN FROM 1475M-1534M
14:00	15:00	1.00	5	CONDITION MUD & CIRCULATE, AND JACK RIG
15:00	16:30	1.50	5B	TRIP OUT OF HOLE TO RUN CASING. FROM 1534M- 1410M PULL 6 STANDS
16:30	17:15	0.75	19A	JARRED AND WORKED THE STRING FREE, PULLING 40 TO 45 daN OVER STRING WEIGHT
17:15	18:45	1.50	5B	TRIP OUT OF HOLE START PUMPING 12 SINGLES OUT OF HOLE FROM 1403M, RAN IN THE
				8 STANDS FROM THE DERRICK AND BEGAN WASHIND AND REAMING TO BOTTOM
18:45	19:00	0.25	21	CREW CHANGE SAFETY MEETING, CIRCULATED DURING THIS TIME
19:00	24:00	5.00	3	REAM AND WASH TO BOTTOM FROM 1328MTO 1403M, MIXING GEL AT 2MIN/SAC

Remarks: VISUAL INSPECTION BRAKES, LINKAGE BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TEST FLARE STACK IGNITER, REMOTE CHOKE, AND CROWN SAVER

WT BELOW JARS 14 DAN BHA WT 30 DAN

SAFETY

Safety Topic	MEHL	MACP
STEAM USE ON THE FLOOR	49.00kdaN	

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag	Up	Down	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110305_1A	Pason	2011	03	05

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	64.00	0.28
1	BIT SUB	102.00	64.00	0.86
1	BIT SUB X/O	158.00	64.00	0.69
8	HWDP(4.0 IN)	102.00	64.00	75.04
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	JARS-HYD/MECH	123.00	58.00	4.94
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
3	HWDP(4.0 IN)	102.00	64.00	28.02
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.31
2	HWDP(4.0 IN)	102.00	64.00	18.68
1	HWDP(4.0 IN)	102.00	64.00	9.32
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.35
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.17
1	HWDP(4.0 IN)	102.00	64.00	9.33
2	HWDP(4.0 IN)	102.00	64.00	18.72
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
2	HWDP(4.0 IN)	102.00	64.00	18.72
4	HWDP(4.0 IN)	102.00	64.00	37.56
1	HWDP(4.0 IN)	102.00	64.00	9.40
2	HWDP(4.0 IN)	102.00	64.00	18.78
1	HWDP(4.0 IN)	102.00	64.00	9.40
1	HWDP(4.0 IN)	102.00	64.00	9.39
50	Drill Pipe		Stands	952.24
1	Drill Pipe		Singles	9.61
	Kelly Down			3.87
	Total			1534.00
	Weight of DC			
	Weight of String			51.00

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-81 PICK UP SUBS B-7 PIPE SPINNER USE	00:00	
2	JSA REVIEW	B-35 RIG TONG USE, B-64 TRIPPING PIPE OUT	12:00	
2	Rig site H/S	JACKING RIG	12:00	

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DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110305_1A	Pason	2011	03	05

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	222.00	64.00	0.28
1	BIT SUB	102.00	64.00	0.86
1	BIT SUB X/O	158.00	64.00	0.69
8	HWDP(4.0 IN)	102.00	64.00	75.04
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	JARS-HYD/MECH	123.00	58.00	4.94
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
3	HWDP(4.0 IN)	102.00	64.00	28.02
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.31
2	HWDP(4.0 IN)	102.00	64.00	18.68
1	HWDP(4.0 IN)	102.00	64.00	9.32
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.35
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.17
1	HWDP(4.0 IN)	102.00	64.00	9.33
2	HWDP(4.0 IN)	102.00	64.00	18.72
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
2	HWDP(4.0 IN)	102.00	64.00	18.72
4	HWDP(4.0 IN)	102.00	64.00	37.56
1	HWDP(4.0 IN)	102.00	64.00	9.40
2	HWDP(4.0 IN)	102.00	64.00	18.78
1	HWDP(4.0 IN)	102.00	64.00	9.40
1	HWDP(4.0 IN)	102.00	64.00	9.39
50	Drill Pipe		Stands	952.24
1	Drill Pipe		Singles	9.61
	Kelly Down			3.87
	Total			1534.00
	Weight of DC			
	Weight of String			51.00

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110306_1A	Pason	2011	03	06

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1			3.00		0.50	5.00						2.75									0.25				0.50	12.00
Tour 2												11.75									0.25					12.00
Tour 3																										
Total			3.00		0.50	5.00						14.50									0.50				0.50	24.00

Kelly Bushing 7.02 | Dp Fuel 20.00

FUEL @ 08:00 HOURS

Rig 168.00 | Boiler 0.00

Time 06:00 | Temp -24.00

WEATHER

Current Conditions: PARTLY CLOUDY

Wind Direction: SE | Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	222	64	0.27m
1	MOTOR LS	165	0	8.11m
1	FLOAT SUB	165	0	1.11m
1	ORIENT SUB	164	0	1.00m
1	MONEL FLEX	159	81	9.07m
1	MONEL FLEX	161	76	8.67m
1	MONEL FLEX	161	76	9.45m
1	X/O	164	69	0.67m
6	HWDP(4.0 IN)	102	64	56.28m
1	JARS-HYD/MECH	123	58	4.94m
54	HWDP(4.0 IN)	102	64	505.23m

48	Drill Pipe	Stands	913.92m
1	Drill Pipe	Singles	9.60m
	Kelly Down		5.68m
	Total		1534.00m
	Weight of DC		100kdaN
	Weight of String		52kdaN

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom:

Fill on Bottom:

MUD RECORD

Mud Type: Water [x] Oil ☐ Other ☐

Time	02:00
Density	1130
Funnel Viscosity	120s/l
Fluid Loss	8.5cm3
pH	9.5
Location of Sample	SHAKER
Depth	1481m
PVT	8.3m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	100	7000	7

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	3250	@	55	@	1530
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
DEFOAMER	4	PAIL
BARITE	30	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	255

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	03:00	3.00	3A	REAM AND WASH TO BOTTOM FROM 1403M, 1534M MIXING GEL AT 2MIN/SAC
03:00	03:30	0.50	5D	CIRCULATE BOTTOMS UP
03:30	07:00	3.50	5B	TRIP OUT OF HOLE FROM 1534M TO 477M FLOW CHECKS @ 1530M,1054M, 477M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	08:45	1.50	5B	TRIP OUT OF HOLE FROM 477M- TO SURFACE
08:45	09:15	0.50	25	CLEAN AND PREPARE FLOOR TO RUN CASING, BLOW OUT KELLY AND KNOCK KELLY HOSE OFF
09:15	10:00	0.75	12A	RIG UP TO RUN CASING AND HAVE PREJOB SAFETY MEETING WITH CREW AND TONG HAND
10:00	12:00	2.00	12	RUN CASING FROM 0M-470M

Remarks:

SAFETY

Safety Topic	MEHL	MACP
CHANGE SHAKER SCREENS	70.00kdaN	3929kPa

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands	
Drill Pipe	Singles	
Kelly Down		
Total		
Weight of DC		
Weight of String		

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom:

Fill on Bottom:

MUD RECORD

Mud Type: Water [x] Oil ☐ Other ☐

Time	20:00
Density	1110
Funnel Viscosity	125s/l
Fluid Loss	8.5cm3
pH	9.5
Location of Sample	SHAKER
Depth	1385m
PVT	13.8m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	80	2550	5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	1200	@	50	@	1420
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
SAWDUST	5	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	19:00	7.00	12	RUN CASING FROM 470M-1251M. HEAD UP AND CIRCULATE FOR 15MINS. CONTINUE RUNING CASING TO 1320M. THEN WASH TO 1378M .
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS AND POWER TONG HAND
19:15	24:00	4.75	12	WASH CASING FROM1378M TO 1420M

Remarks: F.T. PIPE AND BLIND RAMS 3 SEC. CHECK VALVE ALINGNEMENT ON BOP. AND MANIFOLD

SAFETY

Safety Topic	MEHL	MACP
CLUTTERED WORK AREAS	70.00kdaN	

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands	
Drill Pipe	Singles	
Kelly Down		
Total		
Weight of DC		
Weight of String		

HOLE CONDITION

Hole Drag: Up ☐ Down ☐

Torque at Bottom:

Fill on Bottom:

MUD RECORD

Mud Type: Water ☐ Oil ☐ Other ☐

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

V. 1.2

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110306_1A	Pason	2011	03	06

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	222.00	64.00	0.27
1	MOTOR LS	165.00	0.00	8.11
1	FLOAT SUB	165.00	0.00	1.11
1	ORIENT SUB	164.00	0.00	1.00
1	MONEL FLEX	159.00	81.00	9.07
1	MONEL FLEX	161.00	76.00	8.67
1	MONEL FLEX	161.00	76.00	9.45
1	X/O	164.00	69.00	0.67
6	HWDP(4.0 IN)	102.00	64.00	56.28
1	JARS-HYD/MECH	123.00	58.00	4.94
54	HWDP(4.0 IN)	102.00	64.00	505.23
48	Drill Pipe		Stands	913.92
1	Drill Pipe		Singles	9.60
	Kelly Down			5.68
	Total			1534.00
	Weight of DC			100.00
	Weight of String			52.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	N-09 ADDING METHANOL TO AIR LINES, E-06 CHECK CROWN SAVER	00:00	
2	JSA REVIEW	N-19 ADDING METHONAL, B-28 RIG TO RUN CASING	12:00	
2	Rig site H/S	RUNING CASING	12:00	

V.1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110307_1A	Pason	2011	03	07

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	IWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted if Required	IWB	MN
4) Well Licence & Stick Diagram Posted	IWB	MN
5) Flare Lines Staked	IWB	MN
6) BOP Drills Performed		
7) Visualy Inspected BOPs - Flare Lines & Degasser Lines	IWB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		MN
5) Motor Kills Checked		MN

CADDC

pason

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
HOURS Tour 1					3.00							6.00		2.50							0.50					12.00
Tour 2									1.00				4.50	0.50	1.75						0.25		3.50		0.50	12.00
Tour 3																										
Total					3.00				1.00			6.00	4.50	3.00	1.75						0.75		3.50		0.50	24.00

Kelly Bushing 7.02 | Op Fuel 20.00

FUEL @ 08:00 HOURS

Rig 188.00 | Boiler 0.00

WEATHER Time 06:00 | Temp -26.00

Current Conditions: PARTLY CLOUDY

Wind Direction: SE | Wind Strength: UP TO 19 KM/H

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	64	0.18m
1	MOTOR HS	120	64	7.54m
1	ORIENT SUB	120	64	1.04m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
8	HWDP(4.0 IN)	102	64	75.04m
1	HWDP(4.0 IN)	102	64	9.37m
1	HWDP(4.0 IN)	102	64	9.35m
1	HWDP(4.0 IN)	102	64	9.34m
1	HWDP(4.0 IN)	102	64	9.35m
1	HWDP(4.0 IN)	102	64	9.34m
1	HWDP(4.0 IN)	102	64	9.33m
0	Drill Pipe	Stands		0.00m
0	Drill Pipe	Singles		0.00m

Kelly Down	0.00m
Total	603.06m
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up / Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:00	05:45
Density	1110	1110
Funnel Viscosity	125s/l	57s/l
Fluid Loss	9cm3	
pH	9.5	9
Location of Sample	SHAKER	DHAKER
Depth	1507m	1531m
PVT	13m3	11.7m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	80	3000	4

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
DESCO	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	02:45	2.75	12B	WASH CASING FROM 1420M TO 1532M
02:45	05:45	3.00	5	CONDITION MUD & CIRCULATE
05:45	06:00	0.25	21	SAFETY MEETING WITH BJ CEMENTERS
06:00	07:00	1.00	12C	CEMENTED WITH 1.17I 3M3 MAXXCEM G SCAVENGER .90 FL-5%, 1% CACL2 FOLLOWED BY
				35.5t MAXXCEM G BLEND AT 1700KG/M3 .90 FL-5%, 1% CACL2. DISPLACED WITH
				30.10M3 WATER, FULL RETURNS THROUGHOUT THE JOB, BUMPED THE PLUG. BLED OFF
				AND CHECKED THE FLOATS, OK.
07:00	07:15	0.25	21	SAFETY MEETING PRE TOUR. WITH BOTH CREWS
07:15	09:30	2.25	12C	CEMENTING. DROP PLUG @08:30 AND DISPLACE CASING
09:30	12:00	2.50	14B	REMOVE FLOW LINE, LIFT BOP STACK OFF CASING BOWL, TO SET CASING SLIPS

Remarks:

SAFETY

Safety Topic	MEHL	MACP
CEMENT CASING		

TOUR 2

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	6
Size	155
IADC Code	
Manufacturer	ULTERRA
Type	513
Serial No	5954
Jets	14.0 14.0 14.0 14.0 14.0
Depth Out (m)	
Depth In (m)	1531
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	0.00
Entry Date	2011/03/07

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up / Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	152	0	0	0

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	12:30	0.50	25	CUT OFF CASING, SET CASING SLIPS 44dan
12:30	17:00	4.50	13	WAIT ON CEMENT, CLEAN MUD TANKS. TRANSFER VOLUME TO E-52 STORAGE TANKS
17:00	18:00	1.00	15A	PRESSURE TEST MANIFOLD 1400 KPA LOW 14000 KPA HIGH ALL TEST HELD FOR 5 MIN
18:00	19:00	1.00	9A	SLIP/CUT DRILLING LINE
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	20:00	0.75	15A	PRESSURE TEST UPPER AND LOWER KELLY COCK FUNCTION TEST MOTOR KILLS
20:00	23:30	3.50	23	WAITING ON CASING SLIPS SEAL ASSEMBELEY, CONTINUE CLEANING MUD TANKS, CHECK
				VALVES, SEATS, AND LINERS IN MUD PUMP, BUILD AND INSTALL 2" VALVE ON BOP
				SPOOL.
23:30	24:00	0.50	14	NIPPLE UP BOP, INSTALL CASING SLIP SEAL ASSEMBELY

Remarks: VISUAL INSPECTION BRAKES, LINKAGE, FUNCTION TEST CROWN SAVER

SAFETY

Safety Topic	MEHL	MACP

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up / Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110307_1A	Pason	2011	03	07

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	156.00	64.00	0.18
1	MOTOR HS	120.00	64.00	7.54
1	ORIENT SUB	120.00	64.00	1.04
1	MONEL FLEX	120.00	68.00	9.35
1	MONEL FLEX	121.00	68.00	9.31
1	MONEL FLEX	120.00	68.00	9.19
8	HWDP(4.0 IN)	102.00	64.00	75.04
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	JARS-HYD/MECH	123.00	58.00	4.94
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.37
1	HWDP(4.0 IN)	102.00	64.00	9.35
3	HWDP(4.0 IN)	102.00	64.00	28.02
1	HWDP(4.0 IN)	102.00	64.00	9.36
1	HWDP(4.0 IN)	102.00	64.00	9.31
2	HWDP(4.0 IN)	102.00	64.00	18.68
1	HWDP(4.0 IN)	102.00	64.00	9.32
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.37
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.38
1	HWDP(4.0 IN)	102.00	64.00	9.35
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.17
1	HWDP(4.0 IN)	102.00	64.00	9.33
2	HWDP(4.0 IN)	102.00	64.00	18.72
1	HWDP(4.0 IN)	102.00	64.00	9.34
1	HWDP(4.0 IN)	102.00	64.00	9.33
1	HWDP(4.0 IN)	102.00	64.00	9.39
1	HWDP(4.0 IN)	102.00	64.00	9.35
2	HWDP(4.0 IN)	102.00	64.00	18.72
4	HWDP(4.0 IN)	102.00	64.00	37.56
1	HWDP(4.0 IN)	102.00	64.00	9.40
2	HWDP(4.0 IN)	102.00	64.00	18.78
1	HWDP(4.0 IN)	102.00	64.00	9.40
1	HWDP(4.0 IN)	102.00	64.00	9.39
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-27 RIG TO CEMENT CASING AND CEMENT B-29 RIG UP AND OUT POWER TONGS	00:00	
1	Rig site H/S	RIG TO CEMENT	00:00	
2	JSA REVIEW	B-27 RIG TO CEMENT CASING AND CEMENTING, B-07 FLUSH STACK	12:00	

V. 1.1

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110307_1A	Pason	2011	03	07

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
0	Drill Pipe	Stands		0.00
0	Drill Pipe	Singles		0.00

Kelly Down	0.00
Total	603.06
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110308_1A	Pason	2011	03	08

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1														6.00	4.25						0.25				1.50	12.00
Tour 2		3.50				5.75														2.00	0.75					12.00
Tour 3																										
Total		3.50				5.75								6.00	4.25					2.00	1.00				1.50	24.00

Kelly Bushing 7.02 | Op Fuel 23.00

FUEL @ 08:00 HOURS

Rig 115.00 | Boiler 0.00

WEATHER

Time 06:00 | Temp -24.00

Current Conditions: CLEAR

Wind Direction | Wind Strength: CALM

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	6
Size	156
IADC Code	
Manufacturer	ULTERRA
Type	513
Serial No	5954
Jets	14.0 14.0 14.0 14.0 14.0
Depth Out (m)	
Depth In (m)	1534
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	0.00
Entry Date	2011/03/07

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands	
Drill Pipe	Singles	
Kelly Down		
Total		
Weight of DC		
Weight of String		

HOLE CONDITION

Hole Drag	Up	Down	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	11:00
Density	1010
Funnel Viscosity	74s/l
Fluid Loss	
pH	11
Location of Sample	SETTLING TANK
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1		127	0	0	0

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	06:00	6.00	14A	NIPPLE UP BOPS, INSTALL FLOW T, AND FLOW LINE, CHANGE OUT DAMAGED BOLTS ON
				KILL LINE VALVE ASSEMBLY
06:00	07:00	1.00	15A	PRESSUREE TESTED THE BOP COMPONENTS AS FOLLOWS: TESTED THE UPPER AND LOWER
				KELLY COCK, INSIDE BOP, STABBING VALVE,MANIFOLD VALVES AND CHOKE LINES
				1500KPA LOW AND 14000KPA HIGH TEST HELD FOR 5MIN WITH NO PRESSURE DROP
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	09:30	2.25	15A	PRESSURE TESTED THE BLIND RAMS, 177.8MM CASING SEAL ASSEMBLY, ANNULAR AND
				CHECK VALVE OUTSIDE CHOKE AND KILL VALVES,1500KPA LOW AND 14000KPA HIGH TEST
				HELD FOR 5MIN WITH NO PRESSURE DROP
09:30	11:00	1.50	25	CHANGE HCR VALVE
11:00	12:00	1.00	15	PRESURE TESTED THE HCR VALVE 1500KPA LOW AND 14000KPA HIGH TEST HELD FOR
				5MIN WITH NO PRESSURE DROP. ACCUMULATOR TEST: STARTING PRESS 23200 KPA, 3
				FUNCTION TEST REMAINING PRESSURE 12000KPA, PUMP UP TIME 96 SEC, PRECHARGE
				PRESSURE 6500KPA

Remarks:

SAFETY

Safety Topic	MEHL	MACP
NIPPLE UP BOP'S		

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	6
Size	156
IADC Code	
Manufacturer	ULTERRA
Type	513
Serial No	5954
Jets	14.0 14.0 14.0 14.0 14.0
Depth Out (m)	
Depth In (m)	1534
Total Drilled (m)	11
Hrs Run Today	0.50
Cumulative Hrs Run	0.50
Entry Date	2011/03/08

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1534m	1545m	DRILL	30	6kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	64	0.18m
1	MOTOR HS	120	64	7.54m
1	ORIENT SUB	120	64	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
2	DP(4.0")	102	84	19.20m
1	JARS-HYD/MECH	102	64	5.35m
60	HWDP(4.0 IN)	102	64	561.51m

48	Drill Pipe	Stands	913.76m
0	Drill Pipe	Singles	0.00m
	Kelly Down		8.76m
	Total		1545.00m
	Weight of DC		
	Weight of String		47kdaN

HOLE CONDITION

Hole Drag	Up 2	Down 1	
Torque at Bottom			4000.00Nm
Fill on Bottom			

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	23:45
Density	1005
Funnel Viscosity	37s/l
Fluid Loss	15cm3
pH	12.5
Location of Sample	SHAKER
Depth	1541m
PVT	44.3m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	110	8800	3.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
KELZAN	2	SACK
DRISPAC	4	SACK
STARDRIL	7	SACK
SODA ASH	2	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	12:15	0.25	20	PREP THE DRILL FLOOR FOR MAKING UP TOOLS
12:15	12:30	0.25	21	SAFETY MEETING WITH DIRECTIONAL HAND AND CREW
12:30	14:15	1.75	20	PICK UP AND MAKE UP DIRECTIONAL/ MWD TOOLS
14:15	19:00	4.75	5A	TRIP IN HOLE FROM 0M- 1175M FULL PIPE AND TEST TOOL @
19:00	19:15	0.25	21A	H2S BOP DRILL WITH BOTH CREWS, WELL SECURE IN 90 SECONDS ALL HANDS TO MUSTER
				POINT IN 60 SECONDS
19:15	19:30	0.25	21	PRETOUR SAFETY MEETING WITH BOTH CREWS
19:30	20:30	1.00	5A	TRIP IN HOLE FROM 1175M TO 1510M TAG TOP OF PLUG @ 1511M
20:30	23:30	3.00	2C	DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE FROM 1511M TO 1531M
23:30	24:00	0.50	2	DRILL 156MM HOLE FROM 1534M TO1545

Remarks: F.T. CROWN SAVER, BLIND AND PIPE RAMS 3 SECS TO CLOSE, F.T. ANULAR 7 SECS TO CLOSE.

SAFETY

Safety Topic	MEHL	MACP
OVER HEAD LOADS		

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands	
Drill Pipe	Singles	
Kelly Down		
Total		
Weight of DC		
Weight of String		

HOLE CONDITION

Hole Drag	Up	Down	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110308_1A	Pason	2011	03	08

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	156.00	64.00	0.18
1	MOTOR HS	120.00	64.00	7.54
1	ORIENT SUB	120.00	64.00	0.85
1	MONEL FLEX	120.00	68.00	9.35
1	MONEL FLEX	121.00	68.00	9.31
1	MONEL FLEX	120.00	68.00	9.19
2	DP(4.0")	102.00	84.00	19.20
1	JARS-HYD/MECH	102.00	64.00	5.35
60	HWDP(4.0 IN)	102.00	64.00	561.51
48	Drill Pipe	Stands		913.76
0	Drill Pipe	Singles		0.00
	Kelly Down			8.76
	Total			1545.00
	Weight of DC			
	Weight of String			47.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	G-02 CLEAN MUD TANKS, J-04 NIPPLE UP BOP'S	00:00	
2	JSA REVIEW	B-80 MAKE UP DIRECTIONAL TOOLS, B-81 PICK UP SUBS	12:00	
2	H2S BOP DRILL	H2S BOP DRILL WITH BOTH CREWS , WELL SECURE IN 90 SECONDS, ALL RIG STAFF TO MUSTER POINT IN 60 SECONDS	19:00	1175

V.1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110309_1A	Pason	2011	03	09

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CADDC

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CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
HOURS Tour 1		11.50					0.25														0.25					12.00
Tour 2		11.50					0.25														0.25					12.00
Tour 3																										
Total		23.00					0.50														0.50					24.00

Kelly Bushing 7.02 | Up Feet 23.00

FUEL @ 08:00 HOURS

Rig 109.00 | Boiler 0.00

WEATHER: Time 06:00 | Temp -22.00 | Current Conditions CLEAR | Wind Direction SW | Wind Strength UP TO 19 KM/H | Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	6
Size	156
IADC Code	
Manufacturer	ULTERRA
Type	513
Serial No	5954
Jets	14.0 14.0 14.0 14.0 14.0
Depth Out (m)	
Depth In (m)	1534
Total Drilled (m)	138
Hrs Run Today	8.00
Cumulative Hrs Run	8.50
Entry Date	2011/03/08

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1545m	1671m	DRILL	35	8kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	64	0.18m
1	MOTOR HS	120	64	7.54m
1	ORIENT SUB	120	64	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
2	DP(4.0")	102	84	19.20m
1	JARS-HYD/MECH	102	64	5.35m
60	HWDP(4.0 IN)	102	64	561.51m
55	Drill Pipe	Stands		1046.89m
0	Drill Pipe	Singles		0.00m
	Kelly Down			2.26m
	Total			1671.63m
	Weight of DC			
	Weight of String			49kdaN

HOLE CONDITION

Hole Drag Up 2 Down 3

Torque at Bottom	4000.00Nm
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:30	06:00
Density	1015	1020
Funnel Viscosity	37s/l	38s/l
Fluid Loss	11.5cm3	9.5cm3
pH	11	11
Location of Sample	SHAKER	SHAKER
Depth	1567m	1597m
PVT	44.8m3	45.6m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	9000	9

Remarks: ORANGE PIN IN POP VALVE (17,500 KPA)

REDUCED PUMP SPEED

Pump No	Pressure		Strokes/min		Depth
1	2250	@	50	@	1567
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
	1543.85m	87.9	182	DIRECTIONAL
	1553.49m	87.7	182.2	DIRECTIONAL
	1563.05m	89.7	181.4	DIRECTIONAL
	1572.22m	91.6	181.2	DIRECTIONAL
	1581.85m	92.3	180.5	DIRECTIONAL
06:45	1591.02m	92.3	180.4	DIRECTIONAL
07:45	1600.66m	90.5	180.6	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
DRISPAC	1	SACK
STARDRIL	5	SACK
SAWDUST	5	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	270

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	03:15	3.25	2	DRILL 1556MM HOLE FROM 1545M TO 1576M
03:15	03:30	0.25	7	RIG SERVICE, FUNCTION ANNULAR 8 SECONDS TO CLOSE
03:30	07:00	3.50	2	DRILL 156MM HOLE FROM 1576M TO 1608M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	12:00	4.75	2	DRILL 156MM HOLE FROM 1608M-1671M

Remarks: VISUAL INSPECTION BRAKES, LINKAGE BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TEST FLARE STACK IGNITER, REMOTE CHOKE, CROWN SAVER

12.5M SLIDE ON GRAVE YARD SHIFT, W.T. BELOW JARS 1dan

SAFETY

Safety Topic	MEHL	MACP
CATCHING SAMPLES	49.00kdaN	11509kPa

TOUR 2

SIGNATURE OF DRILLER: KRIS HAY | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	6
Size	156
IADC Code	
Manufacturer	ULTERRA
Type	513
Serial No	5954
Jets	14.0 14.0 14.0 14.0 14.0
Depth Out (m)	
Depth In (m)	1534
Total Drilled (m)	234
Hrs Run Today	9.00
Cumulative Hrs Run	17.50
Entry Date	2011/03/08

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1671m	1767.64m	DRILL	40	6kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	64	0.18m
1	MOTOR HS	120	64	7.54m
1	ORIENT SUB	120	64	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
2	DP(4.0")	102	84	19.20m
1	JARS-HYD/MECH	102	64	5.35m
60	HWDP(4.0 IN)	102	64	561.51m
59	Drill Pipe	Stands		1123.58m
1	Drill Pipe	Singles		9.62m
	Kelly Down			11.96m
	Total			1767.64m
	Weight of DC			
	Weight of String			50kdaN

HOLE CONDITION

Hole Drag Up 3 Down 3

Torque at Bottom	4300.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	17:00
Density	1010	1010
Funnel Viscosity	37s/l	41s/l
Fluid Loss	8.0cm3	8cm3
pH	10	9.5
Location of Sample	shaker	shaker
Depth	1695m	1715m
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	9550	12

Remarks:

REDUCED PUMP SPEED

Pump No	Pressure		Strokes/min		Depth
1	2290	@	52	@	1691
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
12:00	1657.74m	88.4	181.4	DIRECTIONAL
12:30	1687.34m	88.6	180.0	DIRECTIONAL
13:45	1676.69m	88.4	180.6	DIRECTIONAL
17:00	1695.95m	88.6	179.9	DIRECTIONAL
17:45	1705.54m	89.8	179.9	DIRECTIONAL
18:45	1715.15m	89.0	179.5	DIRECTIONAL
19:45	1724.79m	91.1	179.2	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
CAUSTIC	1	SACK
DRISPAC	4	SACK
STARDRIL	11	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	15:00	3.00	2	DRILL 156MM HOLE FROM 1671M-1701M
15:00	15:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
15:15	23:45	8.50	2	DRILL 156MM HOLE FROM 1701M-1767M
23:45	24:00	0.25	7	RIG SERVICE, FUNCTION PIPE RAMS (4secs O/C)

Remarks: VISUALLY INSPECT BRAKES, PINS, LINKAGES, DRIVELINE, GEN, BOILER, ALL FLOOR EQUIPMENT, BOP, MANIFOLD ALIGNMENT

FUNCTION HORN, CROWNSAVER, PVT ALARMS, W.T. BELOW JARS 1dan, TOTAL SLIDE 12.5M

SAFETY

Safety Topic	MEHL	MACP
STEAM USE ON THE FLOOR	50.00kdaN	11649kPa

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag Up Down

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110309_1A	Pason	2011	03	09

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CAODC

pason

Pason

CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
HOURS Tour 1		11.50					0.25														0.25					12.00
Tour 2		11.50					0.25														0.25					12.00
Tour 3																										
Total		23.00					0.50														0.50					24.00

Kelly Bushing | Op Fuel

FUEL @ 08:00 HOURS

Rig | Boiler

WEATHER Time | Temp | Current Conditions | Wind Direction | Wind Strength | Road Condition

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number | Size | IADC Code | Manufacturer | Type | Serial No | Jets | Depth Out (m) | Depth In (m) | Total Drilled (m) | Hrs Run Today | Cumulative Hrs Run | Entry Date

CUTTING STRUCTURE

TI | Gage | TO | ODC | MDC | Reason Pulled | LOC | Total Run (m/hr) | BRG

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe Stands | Drill Pipe Singles | Kelly Down | Total | Weight of DC | Weight of String

HOLE CONDITION

Hole Drag Up ☐ Down ☐ | Torque at Bottom | Fill on Bottom

MUD RECORD

Mud Type Water ☐ Oil ☐ Other ☐

Time | Density | Funnel Viscosity | Fluid Loss | pH | Location of Sample | Depth | PVT

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
08:15	1609.8m	90.5	180.7	DIRECTIONAL
09:15	1619.43m	90.5	180.7	DIRECTIONAL
09:45	1629.13m	89.8	181.5	DIRECTIONAL
10:30	1638.51m	89.1	181.0	DIRECTIONAL
11:15	1648.13m	89.0	181.4	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP
CATCHING SAMPLES	49.00kdaN	11509kPa

TOUR 2

SIGNATURE OF DRILLER: KRIS HAY

START TIME: 12:00 END TIME: 24:00

BITS

Bit Number | Size | IADC Code | Manufacturer | Type | Serial No | Jets | Depth Out (m) | Depth In (m) | Total Drilled (m) | Hrs Run Today | Cumulative Hrs Run | Entry Date

CUTTING STRUCTURE

TI | Gage | TO | ODC | MDC | Reason Pulled | LOC | Total Run (m/hr) | BRG

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe Stands | Drill Pipe Singles | Kelly Down | Total | Weight of DC | Weight of String

HOLE CONDITION

Hole Drag Up ☐ Down ☐ | Torque at Bottom | Fill on Bottom

MUD RECORD

Mud Type Water ☐ Oil ☐ Other ☐

Time | Density | Funnel Viscosity | Fluid Loss | pH | Location of Sample | Depth | PVT

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
21:00	1734.41m	93.0	179.3	DIRECTIONAL
22:45	1744.02m	93.8	178.7	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP
STEAM USE ON THE FLOOR	50.00kdaN	11649kPa

TOUR 3

SIGNATURE OF DRILLER:

START TIME: END TIME:

BITS

Bit Number | Size | IADC Code | Manufacturer | Type | Serial No | Jets | Depth Out (m) | Depth In (m) | Total Drilled (m) | Hrs Run Today | Cumulative Hrs Run | Entry Date

CUTTING STRUCTURE

TI | Gage | TO | ODC | MDC | Reason Pulled | LOC | Total Run (m/hr) | BRG

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe Stands | Drill Pipe Singles | Kelly Down | Total | Weight of DC | Weight of String

HOLE CONDITION

Hole Drag Up ☐ Down ☐ | Torque at Bottom | Fill on Bottom

MUD RECORD

Mud Type Water ☐ Oil ☐ Other ☐

Time | Density | Funnel Viscosity | Fluid Loss | pH | Location of Sample | Depth | PVT

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110309_1A	Pason	2011	03	09

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	156.00	64.00	0.18
1	MOTOR HS	120.00	64.00	7.54
1	ORIENT SUB	120.00	64.00	0.85
1	MONEL FLEX	120.00	68.00	9.35
1	MONEL FLEX	121.00	68.00	9.31
1	MONEL FLEX	120.00	68.00	9.19
2	DP(4.0")	102.00	84.00	19.20
1	JARS-HYD/MECH	102.00	64.00	5.35
60	HWDP(4.0 IN)	102.00	64.00	561.51
55	Drill Pipe		Stands	1046.89
0	Drill Pipe		Singles	0.00
	Kelly Down			2.26
	Total			1671.63
	Weight of DC			
	Weight of String			49.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	156.00	64.00	0.18
1	MOTOR HS	120.00	64.00	7.54
1	ORIENT SUB	120.00	64.00	0.85
1	MONEL FLEX	120.00	68.00	9.35
1	MONEL FLEX	121.00	68.00	9.31
1	MONEL FLEX	120.00	68.00	9.19
2	DP(4.0")	102.00	84.00	19.20
1	JARS-HYD/MECH	102.00	64.00	5.35
60	HWDP(4.0 IN)	102.00	64.00	561.51
59	Drill Pipe		Stands	1123.58
1	Drill Pipe		Singles	9.62
	Kelly Down			11.96
	Total			1767.64
	Weight of DC			
	Weight of String			50.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	A-21 SERVICE EQUIPMENT, A-44 USING PIPE SCREEN,	00:00	
2	JSA REVIEW	A-40 STRIPPING PIPE, E-02 DRIVELINE CHECK	12:00	

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110309_1A	Pason	2011	03	09

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** POLYMER **WATER** x **OIL** **OTHER**

Time	02:30	06:00	10:00														
Density	1015kg/m3	1020kg/m3	1020kg/m3														
Funnel Viscosity	37s/l	38s/l	35s/l														
Fluid Loss	11.5cm3	9.5cm3	10cm3														
Fluid pH	11	11	11														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	1567m	1597m	1643m														
PVT	44.8m3	45.6m3	46.6m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110309_1A	Pason	2011	03	09

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** polymer **WATER** x **OIL** ☐ **OTHER**

Time	14:00	17:00	22:00														
Density	1010kg/m3	1010kg/m3	1010kg/m3														
Funnel Viscosity	37s/l	41s/l	39s/l														
Fluid Loss	8.0cm3	8cm3	7cm3														
Fluid pH	10	9.5	10.5														
Location of Sample	shaker	shaker	shaker														
Depth	1695m	1715m	1755m														
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110310_1A	Pason	2011	03	10

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	Cond Mud & Circ	Trips	7 Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	21 Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1		11.50					0.25														0.25					12.00
Tour 2		11.50					0.25														0.25					12.00
Tour 3																										
Total		23.00					0.50														0.50					24.00

Kelly Bushing 7.02 | Up Fuel 33.00

FUEL @ 08:00 HOURS

Rig 76.00 | Boiler 0.00

WEATHER

Time 06:00 | Temp -30.00 | Current Conditions CLEAR | Wind Direction | Wind Strength CALM | Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: KRIS HAY | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	6
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	613
Serial No	5954
Jets	14.0 14.0 14.0 14.0
	14.0
Depth Out (m)	
Depth In (m)	1534
Total Drilled (m)	314
Hrs Run Today	11.50
Cumulative Hrs Run	29.00
Entry Date	2011/03/08

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1767m	1848m	DRILL	40	6kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	64	0.18m
1	MOTOR HS	120	64	7.54m
1	ORIENT SUB	120	64	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
2	DP(4.0")	102	84	19.20m
1	JARS-HYD/MECH	102	64	5.35m
60	HWDP(4.0 IN)	102	64	561.51m

64	Drill Pipe	Stands 1219.49m
0	Drill Pipe	Singles 0.00m
	Kelly Down	6.43m
	Total	1848.40m
	Weight of DC	
	Weight of String	50kdaN

HOLE CONDITION

Hole Drag	Up 3	Down 3	
Torque at Bottom			4000.00Nm
Fill on Bottom			0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:00	06:00
Density	1010	1010
Funnel Viscosity	39s/l	40s/l
Fluid Loss	7.0cm3	7.5cm3
pH	10.5	10.5
Location of Sample	SHAKER	SHAKER
Depth	1780m	1797m
PVT	40.2m3	39.5m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	9600	11.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	2270	@	49	@	1832
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
00:15	1753.64m	92.9	179.3	DIRECTIONAL
01:30	1763.29m	92	179.9	DIRECTIONAL
03:00	1772.91m	91.6	179.8	DIRECTIONAL
05:30	1782.52m	91.9	179.4	DIRECTIONAL
07:45	1792.12m	91.9	180.0	DIRECTIONAL
09:00	1801.74m	90.9	179.6	DIRECTIONAL
09:45	1811.39m	90.2	179.9	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	12

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	07:00	7.00	2	DRILL 156MM HOLE FROM 1767M-1805M
07:00	07:15	0.25	21	SAFETY MEETING W/ BOTH CREWS
07:15	11:45	4.50	2	DRILL 156MM HOLE FROM 1805M-1848M
11:45	12:00	0.25	7	RIG SERVICE, FUNCTION ANNULAR (8sec 0/C), HCR (2sec)

Remarks: FUNCTION HORN, CROWNSAVER, PVT ALARMS, FLARESTACK IGNITER

VISUALLY INSPECT BRAKES, PINS, LINKAGES, TRANNY, HYDRAULIC PUMP, GEN, BOILER, MUD PUMP, ALL FLOOR EQUIPMENT, TUGGERS, BOP, MANIFOLD ALIGNMENT

REVIEW JSA'S: A-02 BLOW DOWN BOILER (NWT), A-43 TAKING SAMPLES

SAFETY

Safety Topic	MEHL	MACP
NEW WORKERS TO RIG	56.00kdaN	11649kPa

TOUR 2

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	6
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	613
Serial No	5954
Jets	14.0 14.0 14.0 14.0
	14.0
Depth Out (m)	
Depth In (m)	1534
Total Drilled (m)	388
Hrs Run Today	11.00
Cumulative Hrs Run	35.00
Entry Date	2011/03/08

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1848m	1922.32m	DRILL	40	6kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	64	0.18m
1	MOTOR HS	120	64	7.54m
1	ORIENT SUB	120	64	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
2	DP(4.0")	102	84	19.20m
1	JARS-HYD/MECH	102	64	5.35m
60	HWDP(4.0 IN)	102	64	561.51m

68	Drill Pipe	Stands 1295.42m
0	Drill Pipe	Singles 0.00m
	Kelly Down	4.42m
	Total	1922.32m
	Weight of DC	
	Weight of String	50kdaN

HOLE CONDITION

Hole Drag	Up 3	Down 4	
Torque at Bottom			5000.00Nm
Fill on Bottom			0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	18:00
Density	1020	1030
Funnel Viscosity	40s/l	40s/l
Fluid Loss	7.5cm3	5cm3
pH	10	9.5
Location of Sample	shaker	shaker
Depth	1857m	1880m
PVT	35m3	34.2m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	11750	12

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	2290	@	50	@	1880
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
13:00	1839.94m	91.6	181.3	DIRECTIONAL
15:15	1849.11m	91.3	180.7	DIRECTIONAL
17:30	1858.74m	89.9	181.1	DIRECTIONAL
18:30	1868.15m	89.2	180.2	DIRECTIONAL
19:45	1877.78m	89.1	180	DIRECTIONAL
20:30	1887.42m	88.4	180.6	DIRECTIONAL
21:30	1897.02m	88.3	180.9	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
DRISPAC	1	SACK
STARDRIL	2	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	19:00	7.00	2	DRILL 156MM HOLE FROM 1848M-1887M
19:00	19:15	0.25	21	SAFETY MEETING / BOP DRILL WITH CM, RM, RIG CREW AND ALL PERSONEL ON SITE
19:15	23:45	4.50	2	DRILL 156MM HOLE FROM 1887M-1922M
23:45	24:00	0.25	7	RIG SERVICE

Remarks: VISUALLY INSPECT BRAKES, PINS

SOUR BOP, DRILL WITH BOTH CREWS, CM, RM, AND ALL SERVICE PERSONAL ON SITE.

TOTAL SLIDE 7.5M

SAFETY

Safety Topic	MEHL	MACP
LOCK OUT PROCEDURES	56.00kdaN	11370kPa

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

	Drill Pipe	Stands
	Drill Pipe	Singles
	Kelly Down	
	Total	
	Weight of DC	
	Weight of String	

HOLE CONDITION

Hole Drag	Up	Down	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110310_1A	Pason	2011	03	10

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CAODC

pason

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
HOURS Tour 1		11.50					0.25														0.25					12.00
Tour 2		11.50					0.25														0.25					12.00
Tour 3																										
Total		23.00					0.50														0.50					24.00

Kelly Bushing | Op Fuel

FUEL @ 08:00 HOURS

Rig | Boiler

WEATHER Time | Temp | Current Conditions | Wind Direction | Wind Strength | Road Condition

TOUR 1

SIGNATURE OF DRILLER: KRIS HAY

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110310_1A	Pason	2011	03	10

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	156.00	64.00	0.18
1	MOTOR HS	120.00	64.00	7.54
1	ORIENT SUB	120.00	64.00	0.85
1	MONEL FLEX	120.00	68.00	9.35
1	MONEL FLEX	121.00	68.00	9.31
1	MONEL FLEX	120.00	68.00	9.19
2	DP(4.0")	102.00	84.00	19.20
1	JARS-HYD/MECH	102.00	64.00	5.35
60	HWDP(4.0 IN)	102.00	64.00	561.51
64	Drill Pipe		Stands	1219.49
0	Drill Pipe		Singles	0.00
	Kelly Down			6.43
	Total			1848.40
	Weight of DC			
	Weight of String			50.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	156.00	64.00	0.18
1	MOTOR HS	120.00	64.00	7.54
1	ORIENT SUB	120.00	64.00	0.85
1	MONEL FLEX	120.00	68.00	9.35
1	MONEL FLEX	121.00	68.00	9.31
1	MONEL FLEX	120.00	68.00	9.19
2	DP(4.0")	102.00	84.00	19.20
1	JARS-HYD/MECH	102.00	64.00	5.35
60	HWDP(4.0 IN)	102.00	64.00	561.51
68	Drill Pipe		Stands	1295.42
0	Drill Pipe		Singles	0.00
	Kelly Down			4.42
	Total			1922.32
	Weight of DC			
	Weight of String			50.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-35 RIG TONG USE, B-49 TONG DIE CHANGE OUT	00:00	
2	JSA REVIEW	A-02 BLOW DOWN BOILER (NWT) A-43 TAKING SAMPLES	12:00	

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110310_1A	Pason	2011	03	10

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	02:00	06:00	08:45														
Density	1010kg/m3	1010kg/m3	1010kg/m3														
Funnel Viscosity	39s/l	40s/l	40s/l														
Fluid Loss	7.0cm3	7.5cm3	7cm3														
Fluid pH	10.5	10.5	10.5														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	1780m	1797m	1815m														
PVT	40.2m3	39.5m3	39.2m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110310_1A	Pason	2011	03	10

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** polymer **WATER** x **OIL** **OTHER**

Time	14:00	18:00	22:00														
Density	1020kg/m3	1030kg/m3	1030kg/m3														
Funnel Viscosity	40s/l	40s/l	41s/l														
Fluid Loss	7.5cm3	5cm3	5.0cm3														
Fluid pH	10	9.5	10.0														
Location of Sample	shaker	shaker	SHAKER														
Depth	1857m	1880m	1913m														
PVT	35m3	34.2m3	30.1m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110311_1A	Pason	2011	03	11

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

HOURS	CODE 1 Rig Up	2 Drill Actual	3 Reaming	Coring	Cond Mud & Circ	6 Trips	7 Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	21 Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1		11.50					0.25														0.25					12.00
Tour 2		10.50				1.00	0.25														0.25					12.00
Tour 3																										
Total		22.00				1.00	0.50														0.50					24.00

Kelly Bushing 7.02 | Dp Fuel 83.00

FUEL @ 08:00 HOURS

Rig 76.00 | Boiler 0.00

WEATHER Time 06:00 | Temp -28.00 | Current Conditions CLEAR | Wind Direction SE | Wind Strength UP TO 19 KM/H | Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	6
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	513
Serial No	5954
Jets	14.0 14.0 14.0 14.0 14.0
Depth Out (m)	
Depth In (m)	1534
Total Drilled (m)	462
Hrs Run Today	11.50
Cumulative Hrs Run	36.50
Entry Date	2011/03/08

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1922m	1996m	DRILL	40	10kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	64	0.18m
1	MOTOR HS	120	64	7.54m
1	ORIENT SUB	120	64	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
2	DP(4.0")	102	84	19.20m
1	JARS-HYD/MECH	102	64	5.35m
60	HWDP(4.0 IN)	102	64	561.51m
71	Drill Pipe	Stands		1353.05m
1	Drill Pipe	Singles		9.41m
	Kelly Down			11.97m
	Total			1996.91m
	Weight of DC			
	Weight of String			51kdaN

HOLE CONDITION

Hole Drag	Up 3	Down 7	
Torque at Bottom			5500.00Nm
Fill on Bottom			0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:00	06:00
Density	1030	1030
Funnel Viscosity	40s/l	40s/l
Fluid Loss	5.0cm3	5.5cm3
pH	10.5	10.5
Location of Sample	SHAKER	SHAKER
Depth	1928m	1957m
PVT	29.1m3	26.4m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	10400	11.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	2600	@	51	@	1996
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
02:30	1915.87m	88.8	180.3	DIRECTIONAL
04:00	1925.5m	89.4	179.4	DIRECTIONAL
05:00	1935.14m	88.7	179.1	DIRECTIONAL
06:30	1944.77m	88.3	179.1	DIRECTIONAL
08:30	1954.4m	88.9	178.9	DIRECTIONAL
10:00	1963.6m	88.9	178.9	DIRECTIONAL
11:15	1973.5m	89.9	178.5	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	00:15	0.25	7	RIG SERVICE, GREASED DRIVE LINE, BREAK PINS AND LINKAGES, TABLE, KELLY
				BUSHINGS, BLOCKS AND WASH PIPE. CHECKED OILS IN FLOOR MOTOR, RIGHT ANGLE
				DRIVE, CHAINE CASE, KELLY SPINNER AND TABLE / FUNCTION PIPE RAMS (3secs)
00:15	07:00	6.75	2	DRILL 156MM HOLE FROM 1922M-1960M
07:00	07:15	0.25	21	SAFETY MEETING W/BOTH CREWS
07:15	12:00	4.75	2	DRILL 156MM HOLE FROM 1960M-1996M

Remarks: VISUALLY INSPECT BRAKES, PINS, LINKAGES, RETAINING PINS, DRILL LINE, DRIVELINE, RIGHT ANGEL DRIVE, TABLE BRAKE, KELLY BUSHINGS, TONG BACK UP LINES, ALL FLOOR EQUIPMENT, BOP, MANIFOLD VALVE ALIGNMENT

FUNCTION HORN, CROWNSAVER, FLARESTACK IGNITER, PVT ALARMS, STABBING VALVE, INSIDE BOP

REVIEW JSA'S: O-07 MAKE CONNECTION W/ MUD MOTOR DOWNHOLE, N-08 MIXING MUD & CHEMICALS

SAFETY

Safety Topic	MEHL	MACP
SCBA PACK TRAINING	58.00kdaN	11509kPa

TOUR 2

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	6
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	513
Serial No	5954
Jets	14.0 14.0 14.0 14.0 14.0
Depth Out (m)	2083
Depth In (m)	1534
Total Drilled (m)	549
Hrs Run Today	6.00
Cumulative Hrs Run	48.00
Entry Date	2011/03/08

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	11.44
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
1996m	2082.89m	DRILL	40	12kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	64	0.18m
1	MOTOR HS	120	64	7.54m
1	ORIENT SUB	120	64	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
2	DP(4.0")	102	84	19.20m
1	JARS-HYD/MECH	102	64	5.35m
60	HWDP(4.0 IN)	102	64	561.51m
76	Drill Pipe	Stands		1447.10m
1	Drill Pipe	Singles		9.21m
	Kelly Down			4.10m
	Total			2082.89m
	Weight of DC			
	Weight of String			51kdaN

HOLE CONDITION

Hole Drag	Up 4	Down 8	
Torque at Bottom			6000.00Nm
Fill on Bottom			0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	18:00
Density	1030	1040
Funnel Viscosity	40s/l	38s/l
Fluid Loss	5cm3	5.5cm3
pH	10	9.5
Location of Sample	SHAKER	SHAKER
Depth	2018m	2061m
PVT	26.8m3	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	11200	10

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	2600	@	51	@	1996
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
12:45	1992.27m	90.4	178.4	DIRECTIONAL
13:30	2001.45m	89.9	177.7	DIRECTIONAL
15:00	2011.07m	89.7	177.5	DIRECTIONAL
15:45	2020.29m	90.7	177.9	DIRECTIONAL
16:30	2029.52m	90.3	177.1	DIRECTIONAL
17:30	2038.12m	90.2	177.6	DIRECTIONAL
18:15	2048.74m	89.4	176.5	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
DRISPAC	1	SACK
STARDRIL	3	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	18:45	6.75	2	DRILL 156MM HOLE FROM 1996M-2067M
18:45	19:00	0.25	7	RIG SERVICE, FUNCT. ANNULAR (sec), HCR (sec)
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	23:00	3.75	2	DRILL 156MM HOLE FROM 2067M-2082M FLOW CHECK
23:00	24:00	1.00	5B	TRIP OUT OF HOLE FROM 2082M-1794M

Remarks: VISUALLY INSPECT BRAKES, LINKAGES, PINS, BRAKE BAND ROLLERS, BRAKE BANDS, DRIVELINE, GEN, BOILER, BOP, MANIFOLD VALVE ALIGNMENT, FLARE & DEGASSER LINES.

FUNCTION HORN, CROWNSAVER, FLARESTACK IGNITER, STABBING VALVE & INSIDE BOP,

SAFETY

Safety Topic	MEHL	MACP

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag	Up	Down	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110311_1A	Pason	2011	03	11

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60.02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
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 Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		

CAODC

Pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1		11.50					0.25														0.25					12.00
Tour 2		10.50				1.00	0.25														0.25					12.00
Tour 3																										
Total		22.00				1.00	0.50														0.50					24.00

WEATHER

Kelly Bushing	Dp Fuel
FUEL @ 08:00 HOURS	
Rig	Boiler
Snow	Temp
Current Conditions	
Wind Direction	Wind Strength
Road Condition	

TOUR 1

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110311_1A	Pason	2011	03	11

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐
Operator's AFE	**Contractor's Job No**		**Spud Date Time**	
10N110009	C6473		2011/02/18 03:00	
Signature of Operator Representative	**Signature of Contractor's Rig Manager**		**Rig Release Date Time**	
JOSH BLINSTON	MICHAEL NUGENT			

Pason

TOUR 1 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	02:00	06:00	10:00														
Density	1030kg/m3	1030kg/m3	1030kg/m3														
Funnel Viscosity	40s/l	40s/l	39s/l														
Fluid Loss	5.0cm3	5.5cm3	5cm3														
Fluid pH	10.5	10.5	10														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	1928m	1957m	1977m														
PVT	29.1m3	26.4m3															
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

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MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110311_1A	Pason	2011	03	11

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time		14:00	18:00														
Density		1030kg/m3	1040kg/m3														
Funnel Viscosity		40s/l	38s/l														
Fluid Loss		5cm3	5.5cm3														
Fluid pH		10	9.5														
Location of Sample		SHAKER	SHAKER														
Depth		2018m	2061m														
PVT		26.8m3															
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

V.1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110312_1A	Pason	2011	03	12

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	IWB	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required	IWB	MN
4) Well Licence & Stick Diagram Posted	IWB	MN
5) Flare Lines Staked	IWB	MN
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	IWB	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked	MN	

CADDC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1						8.75														3.00	0.25					12.00
Tour 2		2.50	4.00			5.25															0.25					12.00
Tour 3																										
Total		2.50	4.00			14.00														3.00	0.50					24.00

FUEL @ 08:00 HOURS

Kelly Bushing	Up Fuel
7.02	21.00

Rig	Boiler
148.00	0.00

WEATHER

Time	Temp
06:00	-26.00

Current Conditions: CLEAR

Wind Direction: | Wind Strength: CALM

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: KRIS HAV

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	4563
Jets	14.0 14.0 14.0 14.0 12.0
Depth Out (m)	
Depth In (m)	2082
Total Drilled (m)	0
Hrs Run Today	0.00
Cumulative Hrs Run	0.00
Entry Date	2011/03/12

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	64	0.18m
1	MOTOR HS	120	64	7.54m
1	ORIENT SUB	120	64	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
2	DP(4.0")	102	84	19.20m
1	JARS-HYD/MECH	102	64	5.35m
60	HWDP(4.0 IN)	102	64	561.51m
48	Drill Pipe	Stands		913.92m
0	Drill Pipe	Singles		0.00m

Kelly Down	0.00m
Total	1536.40m
Weight of DC	
Weight of String	42kdaN

HOLE CONDITION

Hole Drag	Up Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	10:00		
Density	1035		
Funnel Viscosity	43s/l		
Fluid Loss	5.5cm3		
pH	9.5		
Location of Sample	TANKS		
Depth			
PVT			

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1		127	0	0	0

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10	240

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	04:00	4.00	8B	TRIP OUT OF HOLE FROM 1794M-36.42M
04:00	07:00	3.00	20	DIRECTIONAL BREAK DOWN TOOLS AND LAY OUT THE OLD MUD MOTOR,PICK UP NEW MOTOR
				AND DIAL IT DOWN FROM 1.83 TO 1.50 DEG, SCRIBE MAKE UP BIT # 7
07:00	07:15	0.25	21	CREW CHANGE SAFETY MEETING AND HANDOVER
07:15	12:00	4.75	8	TRIP IN THE HOLE, TESTED THE MWD TOOL AT 400M AND 1000M. FILLED PIPE AND
				BROKE CIRCULATION AT THE SHOE / FLOW CHECK @ 1236M

Remarks: FUNCT. PIPE AND BLIND RAMS 3 SECS O/C, HORN, CROWNSAVER, FLARE IGNITER
VISUALLY INSPECT BRAKES, PINS, LINKAGES, GEN, BOILER, BOP, MANIFOLD VALVE LINE UP,
REVIEW JSA'S: B-87 PIPE SPINNER USE, B-45 TRIPPING PIPE IN HOLE

SAFETY

Safety Topic	MEHL	MACP
REAMING	54.00kdaN	11230kPa

TOUR 2

SIGNATURE OF DRILLER: KRIS HAV

START TIME: 12:00 END TIME: 24:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	4563
Jets	14.0 14.0 14.0 14.0 12.0
Depth Out (m)	2088
Depth In (m)	2082
Total Drilled (m)	6
Hrs Run Today	1.50
Cumulative Hrs Run	1.50
Entry Date	2011/03/12

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	4.13
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
2082m	2088.2m	DRILL	40	8.5kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	64	0.18m
1	MOTOR HS	120	64	7.54m
1	ORIENT SUB	120	64	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
2	DP(4.0")	102	84	19.20m
1	JARS-HYD/MECH	102	64	5.35m
60	HWDP(4.0 IN)	102	64	561.51m
76	Drill Pipe	Stands		1446.69m
1	Drill Pipe	Singles		9.70m

Kelly Down	9.33m
Total	2088.20m
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up 6 Down 10
Torque at Bottom	5500.00Nm
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	22:00		
Density	1040		
Funnel Viscosity	40s/l		
Fluid Loss	6.5cm3		
pH	10.5		
Location of Sample	SHAKER		
Depth			
PVT			

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	12500	10

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
1	2600 @	51 @	1996
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	17:15	5.25	8	CONT. RIH FR/ 1236M TO 1622M, WASH TIGHT SPOT @ 1622M. RIH FR/ 1622M-1725M,
				WASH FR/ 1725M-1740M, RIH FR/ 1740M-1767M, WASH FR/ 1767M-1772M, RIH FR/
				1772M-1977M, WASH FR/ 1977M-1981M, RIH FR/ 1981M-2003M
17:15	19:00	1.75	3	REAMING TIGHT HOLE FROM 2003M-2006M
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	21:30	2.25	3A	REAM & CLEAN FROM 2006M-2083M
21:30	24:00	2.50	2	DRILL 156MM HOLE FROM 2083M-2088M

Remarks:

SAFETY

Safety Topic	MEHL	MACP
TRANSFERING FUEL	90.00kdaN	

TOUR 3

SIGNATURE OF DRILLER:

START TIME: END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time			
Density			
Funnel Viscosity			
Fluid Loss			
pH			
Location of Sample			
Depth			
PVT			

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

V. 1.2

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110312_1A	Pason	2011	03	12

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	156.00	64.00	0.18
1	MOTOR HS	120.00	64.00	7.54
1	ORIENT SUB	120.00	64.00	0.85
1	MONEL FLEX	120.00	68.00	9.35
1	MONEL FLEX	121.00	68.00	9.31
1	MONEL FLEX	120.00	68.00	9.19
2	DP(4.0")	102.00	84.00	19.20
1	JARS-HYD/MECH	102.00	64.00	5.35
60	HWDP(4.0 IN)	102.00	64.00	561.51
48	Drill Pipe		Stands	913.92
0	Drill Pipe		Singles	0.00
	Kelly Down			0.00
	Total			1536.40
	Weight of DC			
	Weight of String			42.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	156.00	64.00	0.18
1	MOTOR HS	120.00	64.00	7.54
1	ORIENT SUB	120.00	64.00	0.85
1	MONEL FLEX	120.00	68.00	9.35
1	MONEL FLEX	121.00	68.00	9.31
1	MONEL FLEX	120.00	68.00	9.19
2	DP(4.0")	102.00	84.00	19.20
1	JARS-HYD/MECH	102.00	64.00	5.35
60	HWDP(4.0 IN)	102.00	64.00	561.51
76	Drill Pipe		Stands	1446.69
1	Drill Pipe		Singles	9.70
	Kelly Down			9.33
	Total			2088.20
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	A-41 PUTING ON SCBA, A-49 HANDLING TOOLS (HAND TOOLS)	00:00	

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EQUIPMENT & SERVICES

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110312_1A	Pason	2011	03	12

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
	2073 PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

GENERAL EQUIPMENT & SERVICE

Description	Make	Model	Provided by	Expense of	Rental Company	Serial No	Usage	Quantity	Quantity Used
NDL LOADER UNIT # 214	JOHN DEERE	54H	CONTRACTOR	OPERATOR	NDL	UNIT # 214	24	1	1
Remarks:									
NDL CREW TRUCK UNIT # 122	FORD	F-250	CONTRACTOR	OPERATOR	NDL	UNIT # 122	24	1	1
Remarks:									
4" HWDP	HWDP	3 1/2 IF THREAD	OPERATOR	OPERATOR	NDL		24	60	60
Remarks:									

BOILERS

Boiler No	Make	Model	Provided by	Expense of	Rental Company	Serial No	Hours Today
1	REGENT	CSAH-100	CONTRACTOR	OPERATOR	NDL	100-1272	24
Remarks:							
Remarks:							
Remarks:							

SHALE SHAKERS

Shaker No	Make	Model	Screen 1				Screen 2				Screen 3				Screen 4			
			Position	Size	ScreenChanged?	New?	Position	Size	Screen Changed?	New?	Position	Size	Screen Changed?	New?	Position	Size	Screen Changed?	New?
1	SWACO	ALS II	1	210	☐	☐	2	210	☐	☐			☐	☐			☐	☐
Remarks:																		
					☐	☐			☐	☐			☐	☐			☐	☐
Remarks:																		
					☐	☐			☐	☐			☐	☐			☐	☐
Remarks:																		

MUD PUMPS

Pump No	Make	Model	Provided by	Expense of	Rental Company	Serial No	Hours Today	Stroke Length	Rod Size	Pump Style
1	CPMP	NB-800	CONTRACTOR	CONTRACTOR	NDL		10	228.6mm		TRIPLEX
Remarks:										
Remarks:										
Remarks:										

BITS

Bit No	Size	IADC Code				Manufacturer	Type	Serial No	Jets								Depth In	Depth Out	Total Drilled	Total Hours Run Today	Cumula-tive Hours Run	Entry Date	Cutting Structure									Tour
		1	2	3	4				1	2	3	4	5	6	7	8							TI	T0	MDC	LOC	BRG	Gage	ODC	Reason Pulled	Total Run m/Hr	
6	156.00-mm	S	1	3	2	ULTERRA	513	5954	14.00-mm	14.00-mm	14.00-mm	14.0-0mm	14.0-0mm				1534.0-0m	2082.0-0m	548.00m	0.00	48.00	11/03/08	2	3	CT	S	X	2.00mm	WT	BHA	11.42m/hr	1
7	156.00-mm	S	1	3	2	ULTERRA	155UD-513	4563	14.00-mm	14.00-mm	14.00-mm	14.0-0mm	12.0-0mm				2082.0-0m		0.00m	0.00	0.00	11/03/12										1
7	156.00-mm	S	1	3	2	ULTERRA	155UD-513	4563	14.00-mm	14.00-mm	14.00-mm	14.0-0mm	12.0-0mm				2082.0-0m	2088.2-0m	6.20m	1.50	1.50	11/03/12									4.13m/hr	2

V. 1.2

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X6424_20110313_1A	Pason	2011	03	13

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1		10.50					0.25														0.25					11.00
Tour 2		11.50					0.25														0.25					12.00
Tour 3																										
Total		22.00					0.50														0.50					23.00

FUEL @ 08:00 HOURS

Kelly Bushing	Up Feet
7.02	40.00

Rig	108.00	Boiler	0.00

WEATHER

Time	06:00	Temp	-23.00
Current Conditions	CLEAR		
Wind Direction	SW	Wind Strength	UP TO 15 KM/H
Road Condition	FAIR		

TOUR 1

SIGNATURE OF DRILLER: KRIS HAY

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	4563
Jets	
Depth Out (m)	
Depth In (m)	2082
Total Drilled (m)	
Hrs Run Today	10.50
Cumulative Hrs Run	12.00
Entry Date	2011/03/02

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
2088m	2147m	DRILL	40	9kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	64	0.18m
1	MOTOR HS	120	64	7.54m
1	ORIENT SUB	120	64	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
2	DP(4.0")	102	84	19.20m
1	JARS-HYD/MECH	102	64	5.35m
60	HWDP(4.0 IN)	102	64	561.51m
79	Drill Pipe	Stands		1504.53m
1	Drill Pipe	Singles		9.36m
	Kelly Down			10.53m
	Total			2146.90m
	Weight of DC			
	Weight of String			50kdaN

HOLE CONDITION

Hole Drag	Up A	Down a
Torque at Bottom		6500.00Nm
Fill on Bottom		0.00m

MUD RECORD

Mud Type	Water x	Oil
Other		

Time	03:00	06:00
Density	1040	1050
Funnel Viscosity	40s/l	40s/l
Fluid Loss	6.5cm3	7.5cm3
pH	10.5	10
Location of Sample	SHAKER	SHAKER
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	11000	10.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	2803	@	50	@	2119
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
03:30	2088.53m	90.0	176.9	DIRECTIONAL
05:00	2096.17m	90.6	177.5	DIRECTIONAL
06:30	2105.79m	90.6	178.2	DIRECTIONAL
08:45	2115.40m	90.7	177.9	DIRECTIONAL
11:30	2125.05m	91.1	178.1	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
DRISPAC	2	SACK
STARDRIL	4	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	11	11	240

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	02:00	2.00	2	DRILL 156MM HOLE FROM 2088M-2110M
03:00	03:15	0.25	7	RIG SERVICE, FCT ANNULAR (8sec O/C)
03:15	07:00	3.75	2	DRILL 156MM HOLE FROM 2110M-2120M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	12:00	4.75	2	DRILL 156MM HOLE FROM 2120M-2147M

Remarks: FCT HORN,CROWN SAVOR,PVT ALARAMS,FLARETANK IGNITER,MSO

VISUALLY INSPECTED BRAKES,PINS,LINKAGES,BOP AND MANIFOLD ALIGNMENT,ALL FLOOR EQUIPMENT,ALL WELL CONTROL EQUIPMENT,

REVIEWED JSA#A-20 RIG SERVICE # A-39 SMOKING IN DESIGNATED AREA

SAFETY

Safety Topic	MEHL	MACP
FACE SHEILD USE	61.00kdaN	11091kPa

TOUR 2

SIGNATURE OF DRILLER: WADE STEVENSON

START TIME: 12:00 END TIME: 24:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	4563
Jets	
Depth Out (m)	
Depth In (m)	2082
Total Drilled (m)	127
Hrs Run Today	7.00
Cumulative Hrs Run	15.00
Entry Date	2011/03/02

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
2147m	2209.09m	DRILL	70	9kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	64	0.18m
1	MOTOR HS	120	64	7.54m
1	ORIENT SUB	120	64	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
2	DP(4.0")	102	84	19.20m
1	JARS-HYD/MECH	102	64	5.35m
60	HWDP(4.0 IN)	102	64	561.51m
83	Drill Pipe	Stands		1580.60m
0	Drill Pipe	Singles		0.00m
	Kelly Down			6.01m
	Total			2209.09m
	Weight of DC			
	Weight of String			51kdaN

HOLE CONDITION

Hole Drag	Up B	Down a
Torque at Bottom		5500.00Nm
Fill on Bottom		

MUD RECORD

Mud Type	Water x	Oil
Other		

Time	14:00	18:00
Density	1030	1030
Funnel Viscosity	40s/l	38s/l
Fluid Loss	6cm3	7.5cm3
pH	9.5	9
Location of Sample	SHAKER	SHAKER
Depth	2170m	2188m
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	13500	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	2800	@	50	@	2119
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
12:15	2134.41m	91.4	178.7	DIRECTIONAL
13:15	2144.02m	91.7	178.6	DIRECTIONAL
14:15	2157.21m	92.0	178.6	DIRECTIONAL
16:30	2162.85m	92.3	178.1	DIRECTIONAL
18:15	2172.48m	92.3	177.7	DIRECTIONAL
20:30	2181.11m	92.7	178.8	DIRECTIONAL
22:30	2191.53m	92.6	178.4	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
CAUSTIC	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	16:00	4.00	2	DRILL 156MM HOLE F/ 2147M-2176M
16:00	16:15	0.25	7	RIG SERVICE, FUNCTION PIPE RAMS (3secs), HCR (2secs)
16:15	19:00	2.75	2	DRILL 156MM HOLE F/ 2176M-2189M
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	24:00	4.75	2	DRILL 156MM HOLE FROM 2189M-2209M

Remarks: TOTAL SLIDES 13M

SAFETY

Safety Topic	MEHL	MACP
AUTOMATIC START EQUIPMENT	51.00kdaN	11370kPa

TOUR 3

SIGNATURE OF DRILLER:

START TIME: END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag	Up	Down
Torque at Bottom		
Fill on Bottom		

MUD RECORD

Mud Type	Water	Oil
Other		

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110313_1A	Pason	2011	03	13

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** POLYMER **WATER** x **OIL** **OTHER**

Time	03:00	06:00	10:00														
Density	1040kg/m3	1050kg/m3	1050kg/m3														
Funnel Viscosity	40s/l	40s/l	43s/l														
Fluid Loss	6.5cm3	7.5cm3	6cm3														
Fluid pH	10.5	10	9.5														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth			2132m														
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110313_1A	Pason	2011	03	13

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	14:00	18:00	22:00														
Density	1030kg/m3	1030kg/m3	1030kg/m3														
Funnel Viscosity	40s/l	38s/l	40s/l														
Fluid Loss	6cm3	7.5cm3	7.0cm3														
Fluid pH	9.5	9	10.0														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	2170m	2188m	2200m														
PVT			23.3m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110314_1A	Pason	2011	03	14

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H0360101117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
C.BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	Cond Mud & Circ	Trips	7 Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	21 Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1		11.50					0.25														0.25					12.00
Tour 2		11.50					0.25														0.25					12.00
Tour 3																										
Total		23.00					0.50														0.50					24.00

FUEL @ 08:00 HOURS

Kelly Bushing 7.02 | Up Fuel 32.00 | Rig 76.00 | Boiler 0.00

WEATHER

Time 06:00 | Temp -26.00 | Current Conditions CLEAR | Wind Direction S | Wind Strength UP TO 19 KM/H | Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: KRIS HAY | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	4563
Jets	
Depth Out (m)	
Depth In (m)	2082
Total Drilled (m)	181
Hrs Run Today	11.50
Cumulative Hrs Run	30.50
Entry Date	2011/03/12

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
2209.09m	2263m	DRILL	40	8.5kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	64	0.18m
1	MOTOR HS	120	64	7.54m
1	ORIENT SUB	120	64	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
2	DP(4.0")	102	84	19.20m
1	JARS-HYD/MECH	102	64	5.35m
60	HWDP(4.0 IN)	102	64	561.51m
85	Drill Pipe	Stands		1619.08m
1	Drill Pipe	Singles		9.66m
	Kelly Down			11.97m
	Total			2263.19m
	Weight of DC			
	Weight of String			50kdaN

HOLE CONDITION

Hole Drag Up [8] Down [9]

Torque at Bottom	6200.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	02:00	10:00
Density	1040	1030
Funnel Viscosity	38s/l	46s/l
Fluid Loss	8.0cm3	7cm3
pH	10.5	9.5
Location of Sample	SHAKER	SHAKER
Depth	2217m	2250m
PVT	21.5m3	21m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	13300	11.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	2800	@	50	@	2119
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
01:30	2201.12m	92.3	179.1	DIRECTIONAL
04:00	2210.74m	91.7	179.7	DIRECTIONAL
06:15	2220.37m	90.3	179.5	DIRECTIONAL
08:00	2229.98m	90.4	180.4	DIRECTIONAL
10:00	2239.60m	90.1	179.9	DIRECTIONAL
11:45	2249.26m	89.5	180.9	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
DRISPAC	2	SACK
STARDRIL	6	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	230

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	03:30	3.50	2	DRILL 156MM HOLE FROM 2209M-2224M
03:30	03:45	0.25	7	RIG SERVICE, GREASED DRAW WORKS, BREAK PINS AND LINKAGES, TABLE, BLOCKS.
				DRIVE LINE, WASH PIPE. CHECKED ALL OILS
03:45	07:00	3.25	2	DRILL 156MM HOLE FROM 2224M-2240M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	12:00	4.75	2	DRILL 156MM HOLE FROM 2240M- 2263M

Remarks: VISUALLY CHECK BREAKS, PINS, AND LINKAGES, ALL FLOOR EQUIPMENT, TUGGERS AND MAKE UP AND BREAK OUT CHAINS, BOP, MANIFOLD VALVE ALIGNMENT.
FUNCTION HORN, CROWNSAVER, FLARE IGNITER, PVT ALARMS

SAFETY

Safety Topic	MEHL	MACP
UNLOADING CASING	63.00kdaN	11370kPa

TOUR 2

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	4563
Jets	
Depth Out (m)	
Depth In (m)	2082
Total Drilled (m)	252
Hrs Run Today	7.50
Cumulative Hrs Run	38.00
Entry Date	2011/03/12

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
2263m	2333.73m	DRILL	40	6.5kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	0	0.13m
1	MOTOR LS	102	64	7.56m
1	ORIENT SUB	120	0	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
1	DP(4.0")	102	84	9.60m
12	SINGLES	102	84	9.65m
1	JARS-HYD/MECH	102	64	5.35m
120	SINGLES	102	84	0.00m
50	HWDP(4.0 IN)	102	64	467.93m
10	HWDP(4.0 IN)	102	64	93.63m
85	Drill Pipe	Stands		1685.91m
1	Drill Pipe	Singles		9.13m
	Kelly Down			6.14m
	Total			2333.73m
	Weight of DC			
	Weight of String			51kdaN

HOLE CONDITION

Hole Drag Up [9] Down [8]

Torque at Bottom	6500.00Nm
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	14:00	18:00
Density	1030	1025
Funnel Viscosity	41s/l	39s/l
Fluid Loss	6cm3	6.5cm3
pH	9	10
Location of Sample	SHAKER	SHAKER
Depth	2280m	2298m
PVT	24m3	18m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	13800	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	3360	@	55	@	2320
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
13:00	2258.88m	89.0	182.1	DIRECTIONAL
15:00	2268.51m	89.5	182.2	DIRECTIONAL
17:00	2278.19m	89.5	182.1	DIRECTIONAL
18:30	2287.56m	88.6	182.1	DIRECTIONAL
20:30	2297.18m	87.6	182.9	DIRECTIONAL
20:45	2306.79m	88.1	182.9	DIRECTIONAL
21:15	2316.43m	88.8	183.5	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
CAUSTIC	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	18:45	6.75	2	DRILL 156MM HOLE FROM 2263M-2311M
18:45	19:00	0.25	7	RIG SERVICE, FUNC. PIPE RAMS (3secs O/C), HCR (2secs O/C), GREASED SWIVEL,
				KELLY SPINNER, ROTARY TABLE, KELLY BUSHINGS, DRIVELINE, BRAKE LINKAGES AND
				DRAWORKS. CHECKED ALL OILS
19:00	19:15	0.25	21	SAFETY MEETING W/ BOTH CREWS
19:15	24:00	4.75	2	DRILL 156MM HOLE FROM 2311M-2333m

Remarks: VISUALLY INSPECT BRAKES, PINS, LINKAGES, BOP, MANIFOLD VALVE ALIGNMENT, BOILER, GEN, FLOOR MOTOR, FLARE AND DEGASSER LINES AND MUD TANK AGITATORS
FUNCTION HORN, CROWNSAVER, PVT ALARMS, FLARE TANK IGNITER, AUTODIGGER RELEASE, PASON CHOKE, MANUAL CHOKE AND STABBING VALVE
20M TOTAL SLIDES

SAFETY

Safety Topic	MEHL	MACP
WORKING WITH VAC TRUCK		11370kPa

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag Up [ ] Down [ ]

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other [ ]

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110314_1A	Pason	2011	03	14

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	156.00	64.00	0.18
1	MOTOR HS	120.00	64.00	7.54
1	ORIENT SUB	120.00	64.00	0.85
1	MONEL FLEX	120.00	68.00	9.35
1	MONEL FLEX	121.00	68.00	9.31
1	MONEL FLEX	120.00	68.00	9.19
2	DP(4.0")	102.00	84.00	19.20
1	JARS-HYD/MECH	102.00	64.00	5.35
60	HWDP(4.0 IN)	102.00	64.00	561.51
85	Drill Pipe		Stands	1619.08
1	Drill Pipe		Singles	9.66
	Kelly Down			11.97
	Total			2263.19
	Weight of DC			
	Weight of String			50.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	156	0.00	0.13
1	MOTOR LS	102.00	64.00	7.56
1	ORIENT SUB	120	0.00	0.85
1	MONEL FLEX	120.00	68.00	9.35
1	MONEL FLEX	121.00	68.00	9.31
1	MONEL FLEX	120.00	68.00	9.19
1	DP(4.0")	102.00	84.00	9.60
1	2 SINGLES	102.00	84.00	9.65
1	JARS-HYD/MECH	102.00	64.00	5.35
1	120 SINGLES	102.00	84.00	0.00
50	HWDP(4.0 IN)	102.00	64.00	467.93
10	HWDP(4.0 IN)	102.00	64.00	93.63
89	Drill Pipe		Stands	1695.91
1	Drill Pipe		Singles	9.13
	Kelly Down			6.14
	Total			2333.73
	Weight of DC			
	Weight of String			51.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	C-18 DRIFTING CASING, F-08 MAITENECE OF POP VALVES	00:00	
1	Rig site H/S	BATTERY MAINTENCE AND CARE	00:00	
2	JSA REVIEW	E-02 CHECKING & SERVICING DRIVELINE, E-06 CHECKING CROWNSAVER	19:00	
2	Rig site H/S	BATTERY TUTORIAL/CARE AND MAINTENANCE	19:00	

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110314_1A	Pason	2011	03	14

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	02:00	10:00															
Density	1040kg/m3	1030kg/m3															
Funnel Viscosity	38s/l	46s/l															
Fluid Loss	8.0cm3	7cm3															
Fluid pH	10.5	9.5															
Location of Sample	SHAKER	SHAKER															
Depth	2217m	2250m															
PVT	21.5m3	21m3															
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110314_1A	Pason	2011	03	14

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	14:00	18:00	22:00														
Density	1030kg/m3	1025kg/m3	1030kg/m3														
Funnel Viscosity	41s/l	39s/l	39s/l														
Fluid Loss	6cm3	6.5cm3	6.0cm3														
Fluid pH	9	10	10.5														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	2280m	2298m	2318m														
PVT	24m3	18m3	25.6m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110315_1A	Pason	2011	03	15

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
HOURS Tour 1		11.50					0.25														0.25					12.00
Tour 2		11.25					0.25														0.50					12.00
Tour 3																										
Total		22.75					0.50														0.75					24.00

Kelly Bushing 7.00 | Op Fuel 35.00

FUEL @ 08:00 HOURS

Rig 41.00 | Boiler 0.00

WEATHER Time 06:00 | Temp -17.00 | Current Conditions CLEAR | Wind Direction SW | Wind Strength UP TO 19 KM/H | Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: KRIS HAY | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	U563
Jets	
Depth Out (m)	
Depth In (m)	2082
Total Drilled (m)	344
Hrs Run Today	11.50
Cumulative Hrs Run	49.50
Entry Date	2011/03/11

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
2333m	2425m	DRILL	40	9kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	0	0.13m
1	MOTOR LS	102	64	7.56m
1	ORIENT SUB	120	0	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
1	DP(4.0")	102	84	9.60m
1	2 SINGLES	102	84	9.65m
1	JARS-HYD/MECH	102	64	5.35m
1	120 SINGLES	102	84	0.00m
50	HWDP(4.0 IN)	102	64	467.93m
10	HWDP(4.0 IN)	102	64	93.63m
94	Drill Pipe	Stands		1791.32m
0	Drill Pipe	Singles		0.00m

Kelly Down	11.97m
Total	2425.84m
Weight of DC	
Weight of String	50kdaN

HOLE CONDITION

Hole Drag	Up 9 Down 9
Torque at Bottom	6700.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	02:00	06:00
Density	1040	1040
Funnel Viscosity	40s/l	36s/l
Fluid Loss	6.0cm3	6.0cm3
pH	10.5	10.0
Location of Sample	SHAKER	SHAKER
Depth	2342m	2374m
PVT	33.1m3	38m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	12200	11.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
1	3360	@ 55	@	2320
		@	@	
		@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
01:30	2325.56m	89.2	183.6	DIRECTIONAL
02:45	2335.04m	88.0	183.9	DIRECTIONAL
03:30	2344.64m	87.3	183.50	DIRECTIONAL
04:30	2349.45m	87.1	183.4	DIRECTIONAL
05:30	2354.26m	87.3	183.3	DIRECTIONAL
07:15	2363.95m	87.8	183.20	DIRECTIONAL
08:30	2373.55m	88.0	182.5	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
CAL CARB 'O'	22	SACK
CAL CARB 325	22	SACK
KELZAN	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	240

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	03:45	3.75	2	DRILL 156MM HOLE FROM 2333M-2358M
03:45	04:00	0.25	7	RIG SERVICE, GREASED DRIVE LINE, DRAW WORKS, TABLE, KELLY BUSHINGS, BREAK
				PINS AND LINKAGES. CHECKED ALL OILS. F.T. CROWN SAVER. F.T. PIPE RAMS 3 SECS
				TO CLOSE
04:00	07:00	3.00	2	DRILL 156MM HOLE FROM 2358M-2377M
07:00	07:15	0.25	21	SAFETY MEETING W/ BOTH CREWS
07:15	12:00	4.75	2	DRILL 156MM HOLE FROM 2377M-2422M

Remarks: FUNCTION HORN, CROWNSAVER, PVT ALARMS, FLARE IGNITER, AUTO CHOKE, MANUAL CHOKE, MSO'S VISUALLY INSPECT BRAKES, PINS, LINKAGES, DRILL LINE, DRIVELINE, BOP, MANIFOLD VALVE ALIGNMENT, GEN, BOILER, FUEL PUMPS, WATER PUMPS, MUD PUMP, MIXING PUMPS, ALL WELL CONTROL EQUIPMENT

SAFETY

Safety Topic	MEHL	MACP
ELECTRICAL	66.00kdaN	11370kPa

TOUR 2

SIGNATURE OF DRILLER: WADE STEVENSON | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	U563
Jets	
Depth Out (m)	
Depth In (m)	2082
Total Drilled (m)	438
Hrs Run Today	7.50
Cumulative Hrs Run	45.00
Entry Date	2011/03/11

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB
2425m	2520.00m	DRILL	40	8.5kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	0	0.13m
1	MOTOR LS	102	64	7.56m
1	ORIENT SUB	120	0	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
1	DP(4.0")	102	84	9.60m
1	2 SINGLES	102	84	9.65m
1	JARS-HYD/MECH	102	64	5.35m
1	120 SINGLES	102	84	0.00m
50	HWDP(4.0 IN)	102	64	467.93m
10	HWDP(4.0 IN)	102	64	93.63m
99	Drill Pipe	Stands		1885.84m
0	Drill Pipe	Singles		0.00m

Kelly Down	11.97m
Total	2520.46m
Weight of DC	
Weight of String	50kdaN

HOLE CONDITION

Hole Drag	Up 8 Down 9
Torque at Bottom	6700.00Nm
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	18:00
Density	1020	1030
Funnel Viscosity	38s/l	39s/l
Fluid Loss	7cm3	7cm3
pH	11	11
Location of Sample	SHAKER	SHAKER
Depth	2445m	2475m
PVT	26m3	23m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	13800	11

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
1	3360	@ 55	@	2325
		@	@	
		@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
12:30	2411.84m	89.2	181.7	DIRECTIONAL
13:15	2421.00m	90.7	181.4	DIRECTIONAL
14:00	2430.38m	90.8	181.4	DIRECTIONAL
14:45	2439.97m	90.5	180.9	DIRECTIONAL
15:45	2449.59m	90.6	180.8	DIRECTIONAL
17:00	2458.89m	91.3	180.4	DIRECTIONAL
19:30	2468.55m	91.9	180.6	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
CAUSTIC	2	SACK
KELZAN	2	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	15:30	3.50	2	DRILL 156MM HOLE FROM 2425M-2463M
15:30	15:45	0.25	7	RIG SERVICE FUNCTION ANNULAR 8 SECS O/C, HCR 2 SECS O/C
15:45	17:00	1.25	2	DRILL 156MM HOLE FROM 2463M-2479M
17:00	17:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
17:15	19:00	1.75	2	DRILL 156MM HOLE FROM 2479M-2480M
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	24:00	4.75	2	DRILL 156MM HOLE FROM 2480M-2520M

Remarks: TOTAL SLIDES 19.5M

SAFETY

Safety Topic	MEHL	MACP
WELL CONTROL		

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

Drill Pipe	Stands
Drill Pipe	Singles
Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up Down
Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min		Depth
		@	@	
		@	@	
		@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110315_1A	Pason	2011	03	15

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
BLINSTON	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

CODE

HOURS	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1		11.50					0.25														0.25					12.00
Tour 2		11.25					0.25														0.50					12.00
Tour 3																										
Total		22.75					0.50														0.75					24.00

Kelly Bushing | Op Fuel

FUEL @ 08:00 HOURS

Rig | Boiler

WEATHER: Area | Temp | Current Conditions | Wind Direction | Wind Strength | Road Condition

TOUR 1

SIGNATURE OF DRILLER: KRIS HAY

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110315_1A	Pason	2011	03	15

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	156	0.00	0.13
1	MOTOR LS	102.00	64.00	7.56
1	ORIENT SUB	120	0.00	0.85
1	MONEL FLEX	120.00	68.00	9.35
1	MONEL FLEX	121.00	68.00	9.31
1	MONEL FLEX	120.00	68.00	9.19
1	DP(4.0")	102.00	84.00	9.60
1	2 SINGLES	102.00	84.00	9.65
1	JARS-HYD/MECH	102.00	64.00	5.35
1	120 SINGLES	102.00	84.00	0.00
50	HWDP(4.0 IN)	102.00	64.00	467.93
10	HWDP(4.0 IN)	102.00	64.00	93.63
94	Drill Pipe	Stands		1791.32
0	Drill Pipe	Singles		0.00
	Kelly Down			11.97
	Total			2425.84
	Weight of DC			
	Weight of String			50.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	156	0.00	0.13
1	MOTOR LS	102.00	64.00	7.56
1	ORIENT SUB	120	0.00	0.85
1	MONEL FLEX	120.00	68.00	9.35
1	MONEL FLEX	121.00	68.00	9.31
1	MONEL FLEX	120.00	68.00	9.19
1	DP(4.0")	102.00	84.00	9.60
1	2 SINGLES	102.00	84.00	9.65
1	JARS-HYD/MECH	102.00	64.00	5.35
1	120 SINGLES	102.00	84.00	0.00
50	HWDP(4.0 IN)	102.00	64.00	467.93
10	HWDP(4.0 IN)	102.00	64.00	93.63
99	Drill Pipe	Stands		1885.94
0	Drill Pipe	Singles		0.00
	Kelly Down			11.97
	Total			2520.46
	Weight of DC			
	Weight of String			50.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	L-01 LOADER OPERATIONS, B-35 SWIVEL MAINTENANCE	00:00	

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110315_1A	Pason	2011	03	15

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time		02:00	06:00	10:00														
Density		1040kg/m3	1040kg/m3	1030kg/m3														
Funnel Viscosity		40s/l	36s/l	37s/l														
Fluid Loss		6.0cm3	6.0cm3	6cm3														
Fluid pH		10.5	10.0	9														
Location of Sample		SHAKER	SHAKER	SHAKER														
Depth		2342m	2374m	2400m														
PVT		33.1m3	38m3	32.9m3														
Test 1	Type (Ex: Chlorides)																	
	Value																	
Test 2	Type (ex: Sand%)																	
	Value																	
Test 3	Type (ex: Hard Ca)																	
	Value																	
Test 4	Type (ex: Sulfides)																	
	Value																	

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110315_1A	Pason	2011	03	15

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOSH BLINSTON	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** **OTHER**

Time	14:00	18:00	22:00														
Density	1020kg/m3	1030kg/m3	1030kg/m3														
Funnel Viscosity	38s/l	39s/l	38s/l														
Fluid Loss	7cm3	7cm3	7.0cm3														
Fluid pH	11	11	10.5														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	2445m	2475m	2501m														
PVT	26m3	23m3	35.4m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110316_1A	Pason	2011	03	16

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
WILLIAMS	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

Pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1		2.25			0.75	8.75															0.25					12.00
Tour 2			0.50			10.75															0.75					12.00
Tour 3																										
Total		2.25	0.50		0.75	19.50															1.00					24.00

FUEL @ 08:00 HOURS

Kelly Bushing	Up Hole
7.02	22.00

Rig	Boiler
155.00	0.00

Time	Temp
06:00	-12.00

WEATHER

Current Conditions: OVERCAST

Wind Direction: | Wind Strength: CALM

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: KRIS HAY

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	U563
Jets	
Depth Out (m)	2534
Depth In (m)	2082
Total Drilled (m)	452
Hrs Run Today	2.25
Cumulative Hrs Run	59.25
Entry Date	2011/03/11

CUTTING STRUCTURE

TI	3	Gage	0
TO	4	ODC	CT
MDC	WT	Reason Pulled	TD
LOC	S	Total Run (m/hr)	7.63
BRG	X		

METRES DRILLED

From	To	D-R-C	RPM	WOB
2526m	2534m	DRILL	40	120kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	0	0.13m
1	MOTOR LS	102	64	7.56m
1	ORIENT SUB	120	0	0.85m
1	MONEL FLEX	120	68	9.35m
1	MONEL FLEX	121	68	9.31m
1	MONEL FLEX	120	68	9.19m
1	DP(4.0")	102	84	9.60m
12	SINGLES	102	84	9.65m
1	JARS-HYD/MECH	102	64	5.35m
1	120 SINGLES	102	84	0.00m
50	HWDP(4.0 IN)	102	64	467.93m
10	HWDP(4.0 IN)	102	64	93.63m

100	Drill Pipe	Stands	1905.21m
0	Drill Pipe	Singles	0.00m
	Kelly Down		6.24m
	Total		2534.00m
	Weight of DC		
	Weight of String		50kdaN

HOLE CONDITION

Hole Drag Up 9 Down 9

Torque at Bottom	6700.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	13400	3

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	3360	@	55	@	2325
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type
00:15	2506.46m	90.8	180.06	DIRECTIONAL
01:45	2518.09m	90.9	180.2	DIRECTIONAL
02:30	2519.m	91.	180.5	DIRECTIONAL

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	245

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	02:15	2.25	2	DRILL 156MM HOLE FROM 2526M-2534M
02:15	03:00	0.75	5D	CIRCULATE BOTTOMS UP, PREPARE SLICK, AND WEIGHTED PILLS, PREPARE RIG TO TRIP
				OUT OF THE HOLE
03:00	07:00	4.00	5B	TRIP OUT OF HOLE FROM 2534M-1241M / FLOW CHECKS @2527M, 2402M, 1530M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	12:00	4.75	5B	TRIP OUT OF HOLE FROM 1241M-88M, LAY OUT SINGLES TO CATWALK / FLOW CHECK@
				1175M, OOH / CALC: 7.20m3, MEAS: 13.29m3, DIFF: 6.29m3

Remarks: TOTAL SLIDE 1.5M

VISUALLY INSPECT BRAKES, PINS, LINKAGES, DRIVELINE, DRILL LINE, CROWNSAVER, TABLE BRAKE, SLIPS, ELEVATORS, PIPE SPINNER, TONGS, CATWALK ROCKERS, BOP & MANIFOLD VALVE ALIGNMENT

FUNCTION HORN, CROWNSAVER, PVT ALARMS, FLARESTACK IGNITER, STABBING VALVE, MSO'S

SAFETY

Safety Topic	MEHL	MACP
SLIPS, TRIPS AND FALLS	75.00kdaN	11370kPa

TOUR 2

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 12:00 END TIME: 24:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	U563
Jets	
Depth Out (m)	
Depth In (m)	1621
Total Drilled (m)	14
Hrs Run Today	0.50
Cumulative Hrs Run	0.50
Entry Date	2011/03/11

CUTTING STRUCTURE

TI	3	Gage	0
TO	4	ODC	CT
MDC	WT	Reason Pulled	TD
LOC	S	Total Run (m/hr)	
BRG	X		

METRES DRILLED

From	To	D-R-C	RPM	WOB
1621m	1635m	REAM	50	2kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	0	0.13m
1	BIT SUB	142	50	0.92m
1	DP(4.0")	102	84	9.37m
1	REAMR-TPR BLD	156	62	1.55m
1	DP(4.0")	102	64	9.63m
1	X/O	102	64	0.50m
1	COMPOSIT COLLAR	127	68	5.38m
1	STEEL DC	127	68	4.73m
1	STEEL DC X/O	102	64	0.48m
1	DP(4.0")	102	64	9.67m
1	JARS-MECH	102	64	5.35m
56	STDS DP (4.0")	102	64	1067.98m
55	HWDP(4.0 IN)	102	64	514.73m

0	Drill Pipe	Stands	0.00m
0	Drill Pipe	Singles	0.00m
	Kelly Down		4.58m
	Total		1635.00m
	Weight of DC		
	Weight of String		49kdaN

HOLE CONDITION

Hole Drag Up 4 Down 4

Torque at Bottom	1950.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	6635	1

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	1020	@	50	@	1698
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
CAUSTIC	1	SACK
STARDRIL	2	SACK
KELZAN	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	230

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	12:45	0.75	5B	TRIP OUT OF HOLE, CONT. LAYING OUT SINGLES TO CATWALK / LAY OUT DIRECTIONAL
				TOOLS / RIG OUT MWD EQUIPMENT
12:45	14:00	1.25	5G	UNLOAD AND STRAP/PREP TOOLS FOR REAMING
14:00	14:15	0.25	21	SAFETY MEETING W/ CM, RM, RIG CREW AND LOGGERS PRIOR TO PICKING UP REAMING
				TOOLS
14:15	15:00	0.75	5A	MAKE UP BIT & BHA, RIH FROM SURFACE TO 35M
15:00	15:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
15:15	23:00	7.75	5A	TRIP IN HOLE FROM 35M TO 1564M, FILL PIPE AND FLOW CHECK @ 300M, 1115M DRIFT
				PIPE AND STRAP IN THE HOLE
23:00	23:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
23:15	23:30	0.25	5A	TRIP IN HOLE FROM 1564M-1621M, FLOW CHECK @ 1621M
23:30	24:00	0.50	3A	REAM & CLEAN 156MM HOLE FROM 1621M-1635M, DRIFT EACH SINGLE AS IT IS PICKED
				UP FROM CATWALK

Remarks: VISUAL INSPECTION BRAKES, LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT, FUNCTION TEST FLARE STACK IGNITER, REMOTE CHOKE, AND CROWN SAVER

SAFETY

Safety Topic	MEHL	MACP
TONG USE	52.00kdaN	11370kPa

TOUR 3

SIGNATURE OF DRILLER:

START TIME: END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

	Drill Pipe	Stands	
	Drill Pipe	Singles	
	Kelly Down		
	Total		
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag Up Down

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

V. 1.2

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110316_1A	Pason	2011	03	16

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOHN WILLIAMS	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	156	0.00	0.13
1	MOTOR LS	102.00	64.00	7.56
1	ORIENT SUB	120	0.00	0.85
1	MONEL FLEX	120.00	68.00	9.35
1	MONEL FLEX	121.00	68.00	9.31
1	MONEL FLEX	120.00	68.00	9.19
1	DP(4.0")	102.00	84.00	9.60
1	2 SINGLES	102.00	84.00	9.65
1	JARS-HYD/MECH	102.00	64.00	5.35
1	120 SINGLES	102.00	84.00	0.00
50	HWDP(4.0 IN)	102.00	64.00	467.93
10	HWDP(4.0 IN)	102.00	64.00	93.63
100	Drill Pipe	Stands		1905.21
0	Drill Pipe	Singles		0.00
	Kelly Down			6.24
	Total			2534.00
	Weight of DC			
	Weight of String			50.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	156.00	0.00	0.13
1	BIT SUB	142.00	50.00	0.92
1	DP(4.0")	102.00	84.00	9.37
1	REAMR-TPR BLD	156.00	62.00	1.55
1	DP(4.0")	102.00	64.00	9.63
1	X/O	102.00	64.00	0.50
1	COMPOSIT COLLAR	127.00	68.00	5.38
1	STEEL DC	127.00	68.00	4.73
1	STEEL DC X/O	102.00	64.00	0.48
1	DP(4.0")	102.00	64.00	9.67
1	JARS-MECH	102.00	64.00	5.35
1	56 STDS DP (4.0")	102.00	64.00	1067.98
55	HWDP(4.0 IN)	102.00	64.00	514.73
0	Drill Pipe	Stands		0.00
0	Drill Pipe	Singles		0.00
	Kelly Down			4.58
	Total			1635.00
	Weight of DC			
	Weight of String			49.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-87 PIPE SPINNER IN USE	00:00	
2	JSA REVIEW	D-14 CLIMBING DERRICK, B-66 PICK UP REAMERS	19:00	

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110317_1A	Pason	2011	03	17

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
WILLIAMS	MICHAEL NUGENT	

DAILY CHECKS

	OP	RM
1) Daily Walk Around Inspection	JW	MN
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted If Required	JW	MN
4) Well Licence & Stick Diagram Posted	JW	MN
5) Flare Lines Staked	JW	MN
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	JW	MN
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CADDC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked	MN	

CADDC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1			11.75																		0.25					12.00
Tour 2			11.50				0.25														0.25					12.00
Tour 3																										
Total			23.25				0.25														0.50					24.00

Kelly Bushing 7.02 | Op Fuel 34.00

FUEL @ 08:00 HOURS

Rig 121.00 | Boiler 0.00

WEATHER Time 06:00 | Temp -17.00 | Current Conditions CLEAR | Wind Direction SW | Wind Strength UP TO 19 KM/H | Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	U563
Jets	
Depth Out (m)	
Depth In (m)	1621
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	12.25
Entry Date	2011/03/11

CUTTING STRUCTURE

TI	3	Gage	0
TO	4	ODC	CT
MDC	WT	Reason Pulled	TD
LOC	S	Total Run (m/hr)	
BRG	X		

METRES DRILLED

From	To	D-R-C	RPM	WOB
1635m	1898m	REAM	80	2kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	0	0.13m
1	BIT SUB	142	50	0.92m
1	DP(4.0")	102	84	9.37m
1	REAMR-TPR BLD	156	62	1.55m
1	DP(4.0")	102	64	9.63m
1	X/O	102	64	0.50m
1	COMPOSIT COLLAR	127	68	5.38m
1	STEEL DC	127	68	4.73m
1	STEEL DC X/O	102	64	0.48m
1	DP(4.0")	102	64	9.67m
1	JARS-MECH	102	64	5.35m
156	STDS DP (4.0")	102	64	1067.98m
49	HWDP(4.0 IN)	102	64	458.55m
11	Drill Pipe	Stands		208.58m
1	Drill Pipe	Singles		9.19m

Kelly Down	3.10m
Total	1898.09m
Weight of DC	
Weight of String	51kdaN

HOLE CONDITION

Hole Drag	Up 4	Down 4	
Torque at Bottom	2500.00Nm		
Fill on Bottom			

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	04:00	06:00
Density	1030	1020
Funnel Viscosity	37s/l	39s/l
Fluid Loss	6.5cm3	7cm3
pH	10	10.5
Location of Sample	SHAKER	SHAKER
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	6600	11.75

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	1020	@	55	@	1630
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
CAUSTIC	1	SACK
KELZAN	1	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	250

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	07:00	7.00	3A	REAM & CLEAN 156MM HOLE FROM 1635M-1800M
07:00	07:15	0.25	21	SAFETY MEETING W/ BOTH CREWS
07:15	12:00	4.75	3A	REAM & CLEAN 156MM HOLE FROM 1800M TO 1898M

Remarks: VISUALLY INSPECT BRAKES, PINS, LINKAGES, DRIVELINE, FLOOR MOTOR, GEN, BOILER, BOP, MANIFOLD VALVE ALIGNMENT, ALL WELL CONTROL EQUIPMENT

FUNCTION HORN, CROWNSAVER, AUTODIGGER RELEASE, MSO'S, PVT ALARM

SAFETY

Safety Topic	MEHL	MACP
LINES UNDER PRESSURE	60.00kdaN	11230kPa

TOUR 2

SIGNATURE OF DRILLER: KRIS HAY

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	U563
Jets	
Depth Out (m)	
Depth In (m)	1621
Total Drilled (m)	607
Hrs Run Today	11.50
Cumulative Hrs Run	23.75
Entry Date	2011/03/11

CUTTING STRUCTURE

TI	3	Gage	0
TO	4	ODC	CT
MDC	WT	Reason Pulled	TD
LOC	S	Total Run (m/hr)	
BRG	X		

METRES DRILLED

From	To	D-R-C	RPM	WOB
1898m	2228m	REAM	80	2kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	0	0.13m
1	BIT SUB	142	50	0.92m
1	DP(4.0")	102	84	9.37m
1	REAMR-TPR BLD	156	62	1.55m
1	DP(4.0")	102	64	9.63m
1	X/O	102	64	0.50m
1	COMPOSIT COLLAR	127	68	5.38m
1	STEEL DC	127	68	4.73m
1	STEEL DC X/O	102	64	0.48m
1	DP(4.0")	102	64	9.67m
1	JARS-MECH	102	64	5.35m
156	STDS DP (4.0")	102	64	1067.98m
49	HWDP(4.0 IN)	102	64	458.55m
26	Drill Pipe	Stands		531.24m
1	Drill Pipe	Singles		9.63m

Kelly Down	10.47m
Total	2228.56m
Weight of DC	
Weight of String	50kdaN

HOLE CONDITION

Hole Drag	Up 8	Down 9	
Torque at Bottom	4000.00Nm		
Fill on Bottom	0.00m		

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	14:00	21:30
Density	1045	1050
Funnel Viscosity	38s/l	42s/l
Fluid Loss	8cm3	7cm3
pH	10.5	10
Location of Sample	SHAKER	SHAKER
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	6900	11.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	1400	@	50	@	1954
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
DRISPAC	1	SACK
KELZAN	2	SACK
STARDRIL	4	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	245

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	14:00	2.00	3A	REAM & CLEAN FROM 1898M TO 1955M
14:00	14:15	0.25	7	RIG SERVICE FUNCTION ANNULAR 8 SECONDS TO CLOSE
14:15	19:00	4.75	3A	REAM & CLEAN FROM 1955M TO 2088M
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	24:00	4.75	3A	REAM & CLEAN FROM 2088M TO 2228M

Remarks: VISUALLY INSPECT BRAKES, PINS, LINKAGES, GEN, BOILER, BOP, MANIFOLD VALVE ALIGNMENT, WELL CONTROL EQUIPMENT

FUNCTION HORN, CROWNSAVER, AUTODIGGER RELEASE, FLARE IGNITER

SAFETY

Safety Topic	MEHL	MACP
HYDRAULIC SYSTEM	55.00kdaN	11230kPa

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
		Total Run (m/hr)	
G			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

HOLE CONDITION

Hole Drag	Up	Down	
Torque at Bottom			
Fill on Bottom			

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110317_1A	Pason	2011	03	17

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOHN WILLIAMS	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	156.00	0.00	0.13
1	BIT SUB	142.00	50.00	0.92
1	DP(4.0")	102.00	84.00	9.37
1	REAMR-TPR BLD	156.00	62.00	1.55
1	DP(4.0")	102.00	64.00	9.63
1	X/O	102.00	64.00	0.50
1	COMPOSIT COLLAR	127.00	68.00	5.38
1	STEEL DC	127.00	68.00	4.73
1	STEEL DC X/O	102.00	64.00	0.48
1	DP(4.0")	102.00	64.00	9.67
1	JARS-MECH	102.00	64.00	5.35
1	56 STDS DP (4.0")	102.00	64.00	1067.98
49	HWDP(4.0 IN)	102.00	64.00	458.55
11	HWDP(4.0 IN)	102.00	64.00	102.98
11	Drill Pipe	Stands		208.58
1	Drill Pipe	Singles		9.19
	Kelly Down			3.10
	Total			1898.09
	Weight of DC			
	Weight of String			51.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	156.00	0.00	0.13
1	BIT SUB	142.00	50.00	0.92
1	DP(4.0")	102.00	84.00	9.37
1	REAMR-TPR BLD	156.00	62.00	1.55
1	DP(4.0")	102.00	64.00	9.63
1	X/O	102.00	64.00	0.50
1	COMPOSIT COLLAR	127.00	68.00	5.38
1	STEEL DC	127.00	68.00	4.73
1	STEEL DC X/O	102.00	64.00	0.48
1	DP(4.0")	102.00	64.00	9.67
1	JARS-MECH	102.00	64.00	5.35
1	56 STDS DP (4.0")	102.00	64.00	1067.98
49	HWDP(4.0 IN)	102.00	64.00	458.55
11	HWDP(4.0 IN)	102.00	64.00	102.98
28	Drill Pipe	Stands		531.24
1	Drill Pipe	Singles		9.63
	Kelly Down			10.47
	Total			2228.56
	Weight of DC			
	Weight of String			50.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	A-17 POP VALVE REPAIR, A-2 BRING LUNCH TO DOG HOUSE	07:00	
2	JSA REVIEW	B-35 RIG TONG OPS, B-37 TUGGER HANDLING	19:00	

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110317_1A	Pason	2011	03	17

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOHN WILLIAMS	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	04:00	06:00	10:00														
Density	1030kg/m3	1020kg/m3	1040kg/m3														
Funnel Viscosity	37s/l	39s/l	39s/l														
Fluid Loss	6.5cm3	7cm3	7.5cm3														
Fluid pH	10	10.5	10.5														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth																	
PVT			34m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110317_1A	Pason	2011	03	17

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOHN WILLIAMS	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	14:00	21:30															
Density	1045kg/m3	1050kg/m3															
Funnel Viscosity	38s/l	42s/l															
Fluid Loss	8cm3	7cm3															
Fluid pH	10.5	10															
Location of Sample	SHAKER	SHAKER															
Depth																	
PVT																	
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110318_1A	Pason	2011	03	18

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
WILLIAMS	MICHAEL NUGENT	

DAILY CHECKS

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

CADDC

Pason

HOURS

CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drlg Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1			11.75																		0.25					12.00
Tour 2			1.50		2.00						8.00										0.50					12.00
Tour 3																										
Total			13.25		2.00						8.00										0.75					24.00

Kelly Bushing 7.02 | Up Fuel 22.00

FUEL @ 08:00 HOURS

Rig 99.00 | Boiler 0.00

WEATHER Time 06:00 | Temp -23.00 | Current Conditions CLEAR | Wind Direction | Wind Strength CALM | Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	U563
Jets	
Depth Out (m)	
Depth In (m)	1621
Total Drilled (m)	903
Hrs Run Today	11.75
Cumulative Hrs Run	23.75
Entry Date	2011/03/11

CUTTING STRUCTURE

TI	3	Gage	0
TO	4	ODC	CT
MDC	WT	Reason Pulled	TD
LOC	S	Total Run (m/hr)	
BRG	X		

METRES DRILLED

From	To	D-R-C	RPM	WOB
2228m	2524m	REAM	75	2.5kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	0	0.13m
1	BIT SUB	142	50	0.92m
1	DP(4.0")	102	84	9.37m
1	REAMR-TPR BLD	156	62	1.55m
1	DP(4.0")	102	64	9.63m
1	X/O	102	64	0.50m
1	COMPOSIT COLLAR	127	68	5.38m
1	STEEL DC	127	68	4.73m
1	STEEL DC X/O	102	64	0.48m
1	DP(4.0")	102	64	9.67m
1	JARS-MECH	102	64	5.35m
156	STDS DP (4.0")	102	64	1067.98m
49	HWDP(4.0 IN)	102	64	458.55m
44	Drill Pipe	Stands		836.26m
0	Drill Pipe	Singles		0.00m
	Kelly Down			10.52m
	Total			2524.00m
	Weight of DC			
	Weight of String			51kdaN

HOLE CONDITION

Hole Drag Up 10 Down 10

Torque at Bottom	7000.00Nm
Fill on Bottom	

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	02:00	06:00
Density	1030	1030
Funnel Viscosity	42s/l	43s/l
Fluid Loss	7cm3	7cm3
pH	10.5	10.5
Location of Sample	SHAKER	SHAKER
Depth		
PVT	34.8m3	33.2m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	8100	11.75

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	1400	@	50	@	1954
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	260

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	07:00	7.00	3A	REAM & CLEAN FROM 2228M TO 2411M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	12:00	4.75	3A	REAM & CLEAN FROM 2411M TO 2524M

Remarks: VISUAL INSPECTION BRAKES, LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT,FUNCTION CROWNSAVER, REMOTE CHOKE, FLARE STACK IGNITER

SAFETY

Safety Topic	MEHL	MACP
RADIATION	60.00kdaN	11230kPa

TOUR 2

SIGNATURE OF DRILLER: KRIS HAY | START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	U563
Jets	
Depth Out (m)	2534
Depth In (m)	1621
Total Drilled (m)	913
Hrs Run Today	1.50
Cumulative Hrs Run	23.75
Entry Date	2011/03/11

CUTTING STRUCTURE

TI	3	Gage	0
TO	4	ODC	CT
MDC	WT	Reason Pulled	TD
LOC	S	Total Run (m/hr)	38.44
BRG	X		

METRES DRILLED

From	To	D-R-C	RPM	WOB
2524m	2534m	REAM	75	2kdaN

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	BIT	156	0	0.13m
1	BIT SUB	142	50	0.92m
1	DP(4.0")	102	84	9.37m
1	REAMR-TPR BLD	156	62	1.55m
1	DP(4.0")	102	64	9.63m
1	X/O	102	64	0.50m
1	COMPOSIT COLLAR	127	68	5.38m
1	STEEL DC	127	68	4.73m
1	STEEL DC X/O	102	64	0.48m
1	DP(4.0")	102	64	9.67m
1	JARS-MECH	102	64	5.35m
156	STDS DP (4.0")	102	64	1067.98m
49	HWDP(4.0 IN)	102	64	458.55m
44	Drill Pipe	Stands		836.26m
0	Drill Pipe	Singles		0.00m
	Kelly Down			10.52m
	Total			2524.00m
	Weight of DC			
	Weight of String			51kdaN

HOLE CONDITION

Hole Drag Up 7 Down 8

Torque at Bottom	4000.00Nm
Fill on Bottom	0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other [ ]

Time	14:00	18:00
Density	1040	1040
Funnel Viscosity	42s/l	44s/l
Fluid Loss	7cm3	7cm3
pH	10.5	10.5
Location of Sample	SHAKER	SHAKER5
Depth		
PVT	29.70m3	37m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	8100	3.5

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
1	1400	@	55	@	1954
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
DRISPAC	1	SACK
KELZAN	1	SACK
STARDRIL	2	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	240

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	13:30	1.50	3A	REAM & CLEAN FROM 2524M TO 2534M
13:30	15:30	2.00	5	CIRCULATE HOLE CLEAN RIG UP DATA LOG EQUIPMENT
15:30	15:45	0.25	21	SAFETY MEETING WITH DATALOG AND CREW
15:45	19:00	3.25	11A	LOGGING WHILE TRIPPING FROM 2537M TO 2320 FLOW CHECKS @ 2532M, 2436M 2320M
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	24:00	4.75	11A	LOGGING WHILE TRIPPING FROM 2320M TO 1150M / FLOW CHECK @ 1150M

Remarks: VISUAL INSPECTION BRAKES, LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT,FUNCTION CROWNSAVER, REMOTE CHOKE, FLARE STACK IGNITER

SAFETY

Safety Topic	MEHL	MACP
LIFTING TECHNIQUES	57.00kdaN	11230kPa

TOUR 3

SIGNATURE OF DRILLER: | START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

HOLE CONDITION

Hole Drag Up Down

Torque at Bottom	
Fill on Bottom	

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other [ ]

Time		
Density		
Funnel Viscosity		
Fluid Loss		
pH		
Location of Sample		
Depth		
PVT		

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure		Strokes/min		Depth
		@		@	
		@		@	
		@		@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110318_1A	Pason	2011	03	18

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOHN WILLIAMS	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	BIT	156.00	0.00	0.13
1	BIT SUB	142.00	50.00	0.92
1	DP(4.0")	102.00	84.00	9.37
1	REAMR-TPR BLD	156.00	62.00	1.55
1	DP(4.0")	102.00	64.00	9.63
1	X/O	102.00	64.00	0.50
1	COMPOSIT COLLAR	127.00	68.00	5.38
1	STEEL DC	127.00	68.00	4.73
1	STEEL DC X/O	102.00	64.00	0.48
1	DP(4.0")	102.00	64.00	9.67
1	JARS-MECH	102.00	64.00	5.35
1	56 STDS DP (4.0")	102.00	64.00	1067.98
49	HWDP(4.0 IN)	102.00	64.00	458.55
11	HWDP(4.0 IN)	102.00	64.00	102.98
44	Drill Pipe		Stands	836.26
0	Drill Pipe		Singles	0.00
	Kelly Down			10.52
	Total			2524.00
	Weight of DC			
	Weight of String			51.00

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	BIT	156.00	0.00	0.13
1	BIT SUB	142.00	50.00	0.92
1	DP(4.0")	102.00	84.00	9.37
1	REAMR-TPR BLD	156.00	62.00	1.55
1	DP(4.0")	102.00	64.00	9.63
1	X/O	102.00	64.00	0.50
1	COMPOSIT COLLAR	127.00	68.00	5.38
1	STEEL DC	127.00	68.00	4.73
1	STEEL DC X/O	102.00	64.00	0.48
1	DP(4.0")	102.00	64.00	9.67
1	JARS-MECH	102.00	64.00	5.35
1	56 STDS DP (4.0")	102.00	64.00	1067.98
49	HWDP(4.0 IN)	102.00	64.00	458.55
11	HWDP(4.0 IN)	102.00	64.00	102.98
44	Drill Pipe		Stands	836.26
0	Drill Pipe		Singles	0.00
	Kelly Down			10.52
	Total			2524.00
	Weight of DC			
	Weight of String			51.00

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe		Stands	
	Drill Pipe		Singles	
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-49 CHANGE OUT TONG DIE , B-82 LOGGING	07:00	
2	JSA REVIEW	B-55 FLOW CHECK, B-44 TRIPPING PIPE OUT	19:00	

V.1.1

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110318_1A	Pason	2011	03	18

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOHN WILLIAMS	MICHAEL NUGENT	

Pason

TOUR 1 **MUD TYPE** **WATER** x **OIL** **OTHER**

Time	02:00	06:00	10:00														
Density	1030kg/m3	1030kg/m3	1040kg/m3														
Funnel Viscosity	42s/l	43s/l	43s/l														
Fluid Loss	7cm3	7cm3	7cm3														
Fluid pH	10.5	10.5	10.5														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth																	
PVT	34.8m3	33.2m3	30.36m3														
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

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MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110318_1A	Pason	2011	03	18

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOHN WILLIAMS	MICHAEL NUGENT	

Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** ☐ **OTHER**

Time	14:00	18:00															
Density	1040kg/m3	1040kg/m3															
Funnel Viscosity	42s/l	44s/l															
Fluid Loss	7cm3	7cm3															
Fluid pH	10.5	10.5															
Location of Sample	SHAKER	SHAKERS															
Depth																	
PVT	29.70m3	37m3															
Test 1 Type (Ex: Chlorides)																	
Test 1 Value																	
Test 2 Type (ex: Sand%)																	
Test 2 Value																	
Test 3 Type (ex: Hard Ca)																	
Test 3 Value																	
Test 4 Type (ex: Sulfides)																	
Test 4 Value																	

MUD SAMPLE REMARKS

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110319_1A	Pason	2011	03	19

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
WILLIAMS	MICHAEL NUGENT	

DAILY CHECKS

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

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

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1					0.50	4.25					5.75										0.50				1.00	12.00
Tour 2											10.25	0.75									1.00					12.00
Tour 3																										
Total					0.50	4.25					16.00	0.75									1.50				1.00	24.00

Kelly Bushing 7.02 | Up Fuel 16.00

FUEL @ 08:00 HOURS

Rig 83.00 | Boiler 0.00

WEATHER

Time 06:00 | Temp -21.00
Current Conditions: OVERCAST
Wind Direction: SW | Wind Strength: UP TO 19 KM/H
Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	U563
Jets	
Depth Out (m)	2354
Depth In (m)	1621
Total Drilled (m)	
Hrs Run Today	0.00
Cumulative Hrs Run	23.50
Entry Date	2011/03/11

CUTTING STRUCTURE

TI	3	Gage	0
TO	4	ODC	CT
MDC	WT	Reason Pulled	TD
LOC	S	Total Run (m/hr)	31.19
BRG	X		

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	8 STANDS DP (4.0")	102	64	114.00m
49	HWDP(4.0 IN)	102	64	458.55m
11	HWDP(4.0 IN)	102	64	102.98m

0	Drill Pipe	Stands	0.00m
0	Drill Pipe	Singles	0.00m
	Kelly Down		0.00m
	Total		675.53m
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag: Up ____ Down ____

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	08:00
Density	1040
Funnel Viscosity	46s/l
Fluid Loss	7.5cm3
pH	10.5
Location of Sample	SHAKERS
Depth	
PVT	40m3

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	120	7000	2

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
1	1400 @	50 @	1954
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	10.5	270

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	01:30	1.50	11A	LOGGING WHILE TRIPPING FROM 1150M TO 943M / FLOW CHECK @ 943M
01:30	02:00	0.50	25	RECOVER LOGGING TOOLS STUCK IN DP
02:00	02:15	0.25	21	SAFETY MEETING W/ RIG CREW & DATALOG LOGGERS
02:15	02:45	0.50	25	REMOVE LOGGING TOOLS & SOURCE FROM DRILL STRING
02:45	07:00	4.25	6A	TRIP IN HOLE FROM 943M TO 2534M FLOW CHECK @ 943M, 1530M, 2000M / FILL PIPE @ 2000M
07:00	07:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
07:15	07:45	0.50	5	CIRCULATE HOLE CLEAN RIG UP DATA LOG EQUIPMENT
07:45	09:15	1.50	11A	RIG UP ,LOGGING EQUIPMENT AND CHECK SHOT
09:15	12:00	2.75	11A	LOGGING WHILE TRIPPING FROM 2535M TO 2098M FLOW CHECKS @ 2535M, 2436M,

Remarks: VISUAL INSPECTION BRAKES, LINKAGE, BOP AND MANIFOLD VALVE ALIGNMENT,FUNCTION CROWNSAVER, REMOTE CHOKE, FLARE STACK IGNITER

SAFETY

Safety Topic	MEHL	MACP
TRIPPING	60.00kdaN	

TOUR 2

SIGNATURE OF DRILLER: KRIS HAY

START TIME: 12:00 | END TIME: 24:00

BITS

Bit Number	7
Size	156
IADC Code	S 1 3 2
Manufacturer	ULTERRA
Type	155UD513
Serial No	U563
Jets	
Depth Out (m)	2354
Depth In (m)	1621
Total Drilled (m)	
Hrs Run Today	0.00
Cumulative Hrs Run	23.50
Entry Date	2011/03/11

CUTTING STRUCTURE

TI	3	Gage	0
TO	4	ODC	CT
MDC	WT	Reason Pulled	TD
LOC	S	Total Run (m/hr)	31.19
BRG	X		

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length
1	8 STANDS DP (4.0")	102	64	114.00m
49	HWDP(4.0 IN)	102	64	458.55m
11	HWDP(4.0 IN)	102	64	102.98m

0	Drill Pipe	Stands	0.00m
0	Drill Pipe	Singles	0.00m
	Kelly Down		0.00m
	Total		675.53m
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag: Up 4 Down 5

Torque at Bottom 0.00Nm

Fill on Bottom 0.00m

MUD RECORD

Mud Type: Water [x] Oil [ ] Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run
1	SINGLE	127	0	0	0

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
1	1400 @	50 @	1954
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type
STARDRIL	2	SACK

Boiler

Boiler #	Hours Run	pH	Stack Temp
1	12	11	240

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
12:00	17:15	5.25	11A	LOGGING WHILE TRIPPING FROM2098M TO 1009M FLOW CHECKS @ 2006M, 1516M
17:15	17:30	0.25	21	SAFETY MEETING PRIOR TO LAY DOWN DRILL PIPE
17:30	19:00	1.50	11B	LOGGING WHILE LAYING DOWN DRILL PIPE FROM 1009M TO 693M
19:00	19:15	0.25	21	SAFETY MEETING WITH BOTH CREWS
19:15	21:45	2.50	11B	LOGGING WHILE LAYING DOWN DRILL PIPE FROM 693M TO 33M
21:45	22:00	0.25	21	SAFETY MEETING W/ RIG CREW & DATALOG LOGGERS PRIOR TO PUYLLING OUT SOURCE & LAY DOWN TOOLS
22:00	23:00	1.00	11	LAY DOWN THE SOURCE & LOGGERS TOOLS / CLEAN FLOOR FROM TRIP / CALC: 8.2m3, MEAS: 14.70m3, DIFF: 6.50m3 / FLOW CHECK OOH
23:00	23:15	0.25	21	SAFETY MEETING W/ CM, RM, RIG CREW,. TOTAL DEPTH POWER TONGS, PACKERS PLUS / ELEVATOR CERTIFICATION #31728
23:15	24:00	0.75	12A	RIG UP TO RUN CASING

Remarks: VISUALLY INSPECT BRAKES, PINS, LINKAGES, DRILL LINE, DRIVE LINE, BOP & MANIFOLD VALVE ALIGNMENT

FUNCTION HORN, CROWNSAVER, FLARESTACK IGNITER, MSO'S,

SAFETY

Safety Topic	MEHL	MACP
HANDLING LOGGERS TOOLS	52.00kdaN	11230kPa

TOUR 3

SIGNATURE OF DRILLER:

START TIME: | END TIME:

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

	Drill Pipe	Stands	
	Drill Pipe	Singles	
	Kelly Down		
	Total		
	Weight of DC		
	Weight of String		

HOLE CONDITION

Hole Drag: Up ____ Down ____

Torque at Bottom

Fill on Bottom

MUD RECORD

Mud Type: Water [ ] Oil [ ] Other

Time	
Density	
Funnel Viscosity	
Fluid Loss	
pH	
Location of Sample	
Depth	
PVT	

CIRCULATION

Pump#	Type	Liner Size	SPM	Pressure	Hours Run

Remarks:

REDUCED PUMP SPEED

Pump No.	Pressure	Strokes/min	Depth
	@	@	
	@	@	
	@	@	

DEVIATION SURVEYS

Time	Depth	Deviation	Direction	Type

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density

MUD MATERIALS ADDED

Product	Amount	Type

Boiler

Boiler #	Hours Run	pH	Stack Temp

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

Remarks:

SAFETY

Safety Topic	MEHL	MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110319_1A	Pason	2011	03	19

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOHN WILLIAMS	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR 1

No	Component	OD	ID	Length
1	6 STANDS DP (4.0")	102.00	64.00	114.00
49	HWDP(4.0 IN)	102.00	64.00	458.55
11	HWDP(4.0 IN)	102.00	64.00	102.98
0	Drill Pipe	Stands		0.00
0	Drill Pipe	Singles		0.00
	Kelly Down			0.00
	Total			675.53
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR 2

No	Component	OD	ID	Length
1	6 STANDS DP (4.0")	102.00	64.00	114.00
49	HWDP(4.0 IN)	102.00	64.00	458.55
11	HWDP(4.0 IN)	102.00	64.00	102.98
0	Drill Pipe	Stands		0.00
0	Drill Pipe	Singles		0.00
	Kelly Down			0.00
	Total			675.53
	Weight of DC			
	Weight of String			

DRILLING ASSEMBLY — TOUR

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		
	Kelly Down			
	Total			
	Weight of DC			
	Weight of String			

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-89 SET SLIPS, B-44 TRIP PIPE OUT OF HOLE	07:00	

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
0X8424_20110320_1A	Pason	2011	03	20

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	24	HORIZ	

Operator's AFE	Contractor	Spud Date Time
10N110009	NABORS DRILLING	2011/02/18 03:00

Signature of Operator Representative	Contractor's Job No	Rig Release Date Time
WILLIAMS	C6473	

	Signature of Contractor's Rig Manager
	MICHAEL NUGENT

DAILY CHECKS

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

CAODC

pason

Pason

HOURS

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
Tour 1												11.50									0.50					12.00
Tour 2						4.50						7.00									0.50					12.00
Tour 3																										
Total						4.50						18.50									1.00					24.00

FUEL @ 08:00 HOURS

Kelly Bushing	Up Fuel
7.02	15.00

Rig	Boiler
68.00	0.00

Time	Temp
00:00	-18.00

WEATHER

Current Conditions: CLEAR

Wind Direction:

Wind Strength: CALM

Road Condition: FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET

START TIME: 00:00 END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No	Vendor Software Version	Year	Month	Day
0X8424_20110320_1A	Pason	2011	03	20

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	☐

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOHN WILLIAMS	MICHAEL NUGENT	

Pason

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

DRILLING ASSEMBLY — TOUR ☐

No	Component	OD	ID	Length
	Drill Pipe	Stands		
	Drill Pipe	Singles		

Kelly Down	
Total	
Weight of DC	
Weight of String	

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
1	JSA REVIEW	B-45 TRIP PIPE IN, B-84 RIG TO CIRCULATE CASING	07:00	

V. 1.1

FRONT PAGE SUMMARY

Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
DX8424_20110321_1B	Pason	2011	03	21

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
2073	PARA ET CAMERON 2H-03 HZ	60:02:20.40N/117:30:06.30W	NT	LAT-LONG	302H036010117300

Operator	Contractor	Rig No	Well Type	Re-Entry
PARAMOUNT RESOURCES LTD.	NABORS DRILLING	24	HORIZ	

Operator's AFE	Contractor's Job No	Spud Date Time
10N110009	C6473	2011/02/18 03:00

Signature of Operator Representative	Signature of Contractor's Rig Manager	Rig Release Date Time
JOHN WILLIAMS	MICHAEL NUGENT	

DAILY CHECKS

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

CAODC

pason

Pason

CODE	1 Rig Up	2 Drill Actual	3 Reaming	4 Coring	5 Cond Mud & Circ	6 Trips	7 Rig Service	8 Repair Rig	9 Cut Off Drlg Line	10 Dev Survey	11 Wireline Logs	12 Run Csg & Cement	13 Wait On Cement	14 Nipple Up BOP	15 Test BOP	16 Drillstem Test	17 Plug Back	18 Squeeze Cement	19 Fishing	20 Dir Work	21 Safety Meeting	22 Tear Down	23 Waiting On	24 Rig Watch	25 Other	TOTAL
HOURS Tour 1						2.00								5.75							0.25	4.00				12.00
Tour 2																										
Tour 3																										
Total						2.00								5.75							0.25	4.00				12.00

Kelly Bushing 7.02 | Op Fuel 54.00

FUEL @ 08:00 HOURS

Rig 121.00 | Boiler 0.00

WEATHER Time 06:00 | Temp -14.00 | Current Conditions SNOW | Wind Direction | Wind Strength CALM | Road Condition FAIR

TOUR 1

SIGNATURE OF DRILLER: TIM BRIDGET | START TIME: 00:00 | END TIME: 12:00

BITS

Bit Number	
Size	
IADC Code	
Manufacturer	
Type	
Serial No	
Jets	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

CUTTING STRUCTURE

TI		Gage	
TO		ODC	
MDC		Reason Pulled	
LOC		Total Run (m/hr)	
BRG			

METRES DRILLED

From	To	D-R-C	RPM	WOB

DRILLING ASSEMBLY

No	Component	OD	ID	Length

2

GE Oil & Gas
710, 530 - 8th Ave S.W. Calgary, Alberta T2P 3S8
Phone: (403) 264-4146 Fax (403) 269-4224
Toll Free: 1-800-925-6024

Quotation **Well Schematic** Rev 0

Date: August 30, 2011
Sold To: **Paramount Res.**
Attention Brad Scott
Reference: Cameron Hills 2H-03
Currency:
Payment Terms:
Delivery:
F.O.B. Point
Quotation Validity:
Account Representative

Well Schematic

Item	Qty	Part No	Description	Unit Price	Total
1	1		CASING HEAD ASSEMBLY, VG-SOW, 11 3000 (279.4mm20.7MPa) X 8-5/8 (219.1mm) SOW, C/W (2) 2-1/16 3000 (52.4mm20.7MPa) SSO W/ 1.900 (48.3mm) VRT, API 6A 19TH ED., TC L-U, MC CDD, PR-1, PSL-1	CP	
2	1		CASING SLIP ASSEMBLY, VGS, 11 (279.4mm) X 5-1/2 (139.7mm), MANUAL SLIP. API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1	CP	
3	1		PRIMARY SEAL ASSEMBLY, VGS, 11 (279.4mm) X 5-1/2 (139.7mm), API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL1	CP	
4	1		GATE VALVE ASSY, VGC, 2-1/16 5000 (52mm 34.5MPa) FLANGED, FULL PORT. API 6A 19TH ED PSL-1, PR-1 TC L-U, MC DD	CP	
5	2		COMPANION FLANGE, 2-1/16 5000 (52mm 34.5MPa) X 2 (50mm) LP API 6A 19TH ED PSL-1, PR-1, TC L-U, MC DD	CP	
6	2		BULL PLUG XXH 2 (50mm) LP X 1/2 (12.7mm) NPT TAPPED	CP	
7	1		NEEDLE VALVE 1/2 (12.7mm) NPT MXF STRAIGHT 316 S.S. 10000 WP	CP	
8	1		PRESSURE GAUGE 5000 (34.5MPa) CW 4 (101.6mm) DIAL 1/2 (12.7mm) NPT BTM NACE	CP	
9	2		FORGED STEEL PIPE PLUG 1/2 (12.7mm) NPT	CP	
10	1		RING GASKET R-53 316 S.S.	CP	
11	3		RING GASKET R-24 316 S.S.	CP	
12	1		STUD/NUT L7|2H 7/8 (22.2mm) X 6 (152.4mm) LONG SET OF 8	CP	
			CASING BOWL SUB TOTAL		**$0.00**

Well Schematic					
Item	Qty	Part No	Description	Unit Price	Total
13	1		TUBING HEAD ASSEMBLY, VGOF-GRF, 11 3000 (279.4mm20.7MPa) X 7-1/16 3000 (179.4mm20.7MPa), C/W (2) 2-1/16 3000 (52.4mm20.7MPa) SSO W/ 1.900 (48.3mm) VRT. API 6A 19TH ED., TC L-U, MC AA, PR-1, PSL-1	CP	
14	1		SECONDARY SEAL ASSEMBLY, GRF, 9 (228.6mm) X 5-1/2 (139.7mm), API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1	CP	
15	1		TUBING HANGER ASSEMBLY, XP-1, 7-1/16 (179.4mm) NOM. X 2-7/8 (73.0mm) EUE BOX X BOX C/ EXTENDED NECK & 2-1/2 (63.5mm) HBPV, API 6A 19TH ED, TC L-U, MC DD, PR-1, PSL-1	CP	
16	2		GATE VALVE ASSY, VGC, 2-1/16 5000 (52mm 34.5MPa) FLANGED, FULL PORT. API 6A 19TH ED PSL-1, PR-1 TC L-U, MC DD	CP	
17	2		COMPANION FLANGE, 2-1/16 5000 (52mm 34.5MPa) X 2 (50mm) LP API 6A 19TH ED PSL-1, PR-1, TC L-U, MC DD	CP	
18	2		BULL PLUG XXH 2 (50mm) LP X 1/2 (12.7mm) NPT TAPPED	CP	
19	2		FORGED STEEL PIPE PLUG 1/2 (12.7mm) NPT	CP	
20	2		NEEDLE VALVE 1/2 (12.7mm) NPT MXF STRAIGHT 316 S.S. 10000 WP	CP	
21	1		PRESSURE GAUGE 5000 (34.5MPa) CW 4 (101.6mm) DIAL 1/2 (12.7mm) NPT BTM NACE	CP	
22	1		RING GASKET R-45 316 S.S.	CP	
23	4		RING GASKET R-24 316 S.S.	CP	
24	1		STUD/NUT L7|2H 1-3/8 (38.1mm) X 9-1/2 (241.3mm) LONG SET OF 16	CP	
25	2		STUD/NUT L7|2H 7/8 (22.2mm) X 6 (152.4mm) LONG SET OF 8	CP	
			TUBING HEAD SUBTOTAL		**$0.00**
26	1		TUBING HEAD ADAPTER BONNET, XP-1, 7-1/16 3000 (179.4mm20.7MPa) X 2-9/16 5000 (65.1mm34.5MPa) SSU, C/W SEAL POCKET & TEST PORT, API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1	CP	
27	2		GATE VALVE ASSY, VGC, 2-9/16 5000 (65.1mm 34.5MPa) FLANGED, FULL PORT. API 6A 19TH ED PSL-1, PR-1 TC L-U, MC DD	CP	
28	1		STUDDED TEE, 2-9/16 5000 (65.1mm34.5MPa) X 2-9/16 5000 (65.1mm34.5MPa) RISE X 2-1/16 5000 (52.4mm34.5MPa) RUN, API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1	CP	
29	1		B.H.T.A., 2-9/16 5000 (65.1mm34.5MPa), C/W TOP CAP ASSEMBLY W/ 1/2" NPT TAP, API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1	CP	
30	1		GATE VALVE ASSY, VGC, 2-1/16 5000 (52mm 34.5MPa) FLANGED, FULL PORT. API 6A 19TH ED PSL-1, PR-1 TC L-U, MC DD	CP	
31	1		COMPANION FLANGE, 2-1/16 5000 (52mm 34.5MPa) X 2 (50mm) LP API 6A 19TH ED PSL-1, PR-1, TC L-U, MC DD	CP	
32	1		BULL PLUG XXH 2 (50mm) LP X 1/2 (12.7mm) NPT TAPPED	CP	
33	2		FORGED STEEL PIPE PLUG 1/2 (12.7mm) NPT	CP	
34	2		NEEDLE VALVE 1/2 (12.7mm) NPT MXF STRAIGHT 316 S.S. 10000 WP	CP	

Well Schematic					
Item	Qty	Part No	Description	Unit Price	Total
35	1		PRESSURE GAUGE 5000 (34.5MPa) CW 4 (101.6mm) DIAL 1/2 (12.7mm) NPT BTM NACE	CP	
36	4		RING GASKET R-27 316 S.S.	CP	
37	2		RING GASKET R-24 316 S.S.	CP	
38	1		STUD/NUT L7|2H 7/8 (22.2mm) X 6 (152.4mm) LONG SET OF 8	CP	
39	1		STUD/NUT L7|2H 1 (25.4mm) X 7 (177.8mm) LONG SET OF 8	CP	
			COMPLETION SUBTOTAL		**$0.00**
40			CASING VENT ASSY SHALOW, 2 (50.8mm) X 3000 (20.7MPa)	CP	
41			COMPANION FLANGE, 2-1/16 5000 (52mm 34.5MPa) BLIND API 6A 19TH ED PSL-1, PR-1, TC L-U, MC DD	CP	
42			RING GASKET R-24 316 S.S.	CP	
43	5		LABOUR CHARGE/HR TO ASSEMBLE TEST AND PAINT	$0.00	$0.00
			EQUIPMENT TOTAL		**$0.00**

Preston Seier 403-264-4182

Authorized By:
For Vetco Gray

_____

_____

_____

_____

Customer Order Acknowledgment

Print Name: _____ Date: _____

Signature: _____

**Remanufactured wellhead equipment carries full warranty and is subject to prior sale

All deliveries are from receipt of order and subject to prior sale

No product may be returned for credit without the written consent of an authorized VGC employee.
Product returned more than 30 days after shipment date is subject to a 15% restocking charge.
Products purchased from other O.E.Ms is subject to their actual restocking charge.
Equipment returned for credit that requires disassembly is subject to a tear down charge
Credit will not be issues on assembly, test and paint.
Product returned requiring clean-up is subject to shop charge.
Expendable items such as nipples, ring gaskets and boltings that are part of assemblies are subject to 100% restocking charge.
Components requiring special coating for injection wells will be subject to a 15% restocking charge.
Products manufactured to a PSL-3 is subject to a 15% restocking charge.
Specialty equipment (considered to be a non-stocking item) is subject to a 100% restocking charge.
Fuel or steel surcharge, if applicable will be added to invoice amount.

VETCO GRAY CANADA INC.
STANDARD TERMS AND CONDITIONS

1. Acceptance
1.1 Acceptance of any offer to sell by VGC is limited to Purchaser completely and exclusively accepting all terms and conditions hereof ("Terms"). The acknowledgment Sales Agreement constitutes the entire agreement between the parties and takes precedence over any and all previous verbal or written arrangements in connection with this Agreement. Any deletions, modifications, alterations of or additions to the Terms, to be binding, shall be in writing and signed by an authorized representative of VGC and the Purchaser. Without limiting the foregoing, it is expressly acknowledged that any Purchaser document received is for order identification convenience only. Any and all provisions on the face or reverse side of any purchase order which Purchaser may send to VGC in connection herewith are expressly objected to by VGC and waived by Purchaser and made inapplicable to any such purchase, unless both parties expressly agree in writing to include any such terms and conditions in this Agreement.
1.2 Purchaser's acceptance is hereby expressly limited to the Terms, and acceptance of any part of the products covered hereunder shall be deemed to constitute such acceptance. (If this order constitutes an acceptance of an offer, such acceptance is expressly made conditional on Purchaser's assent to the Terms and any additional or different terms contained herein, and acceptance of any part of the products covered shall be deemed to constitute such assent.) VGC may provide the products from its affiliated company, in which event these Terms will apply. Purchaser may not assign this Agreement without the prior written consent
1.3 For any item of VGC equipment leased to Purchaser, VGC's standard terms and conditions of equipment lease shall apply.

2. Limited Warranties
VGC hereby warrants that all products manufactured by VGC are free of defects of material and workmanship for a period of twelve (12) months from the date shipped, providing that the products are used in the service specified and are properly installed, used and maintained and not altered after initial delivery, corrosion and erosion and normal wear and tear excepted. Purchaser shall give written notice to VGC of any defects within thirty (30) days of their discovery by Purchaser, within said twelve (12) month period, with a report detailing failure and defects. VGC reserves the right to require prepaid return of the allegedly defective product to establish a warranty claim. VGC will, at its option, repair any product found defective during the warranty period without charge, replace the product F.O.B. manufacturing facility, or refund the purchase price paid for the products upon return to VGC. VGC shall not be responsible for retrieving or removing defective items (whether manufactured by VGC or not), or any part thereof, or for reinstalling the same when repaired or replaced, or for any cost incurred in connection with such retrieval, removal or reinstallation. In the case of items or parts not wholly of VGC's manufacture, but supplied by VGC, VGC's liability shall be limited to assisting Purchaser in enforcing
the warranty of the manufacturer of the items or parts. VGC will not be responsible for repairs made by other than VGC without prior written consent. This warranty is EXCLUSIVE AND, EXCEPT AS STATED HEREIN, VGC MAKES NO EXPRESS OR IMPLIED WARRANTIES AS TO ANY MATTER WHATSOEVER, INCLUDING, WITHOUT LIMITATION, THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE, WHICH EXCEED THE FOREGOING WARRANTY. PURCHASER'S SOLE REMEDY AND VGC'S SOLE OBLIGATION ARISING OUT OF OR IN CONNECTION WITH DEFECTS IN MATERIALS, WORKMANSHIP OR SERVICES, WHICH ARE BASED ON WARRANTY, CONTRACT NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE THOSE STATED IN THIS SECTION. The Purchaser acknowledges that any affirmation of fact or promise made byVGC shall not be deemed to create an express warranty, that Purchaser is not relying on VGC's skill or judgment in selecting or furnishing a system suitable for any particular purpose, and there are no warranties which extend beyond the description on the face hereof.

3. Liability
VGC is not an insurer and insurance, if any, shall be obtained by the Purchaser. The Purchaser acknowledges that it is impracticable and extremely difficult to affix the actual damages, if any, which may proximately result from a failure on the part of VGC to perform any of the obligations contained herein, or the failure of the product to operate properly, with resulting loss to the Purchaser, and that the price is established on use of these Terms. The Purchaser agrees that if VGC should be found liable for loss or damage due to a failure of service or equipment in any respect whatsoever,VGC's liability, whether based on breach of warranty, breach of contract, tort, strict liability or otherwise, shall be limited to its warranty obligation, but in no event shall exceed the purchase price paid. In the event that those products or parts which are defective in either material or workmanship are not wholly of VGC's manufacture, VGC's liability shall be limited exclusively to the extent of VGC's recovery from the manufacturer of such products or parts. The replacement cost or VGC's recovery from the manufacturer, as the case may be, shall be the exclusive obligation and liability of VGC and the sole remedy of Purchaser. Further, the provisions of this section shall apply if loss or damage, or indirectly to persons or property, from performance or nonperformance of the obligations imposed by this Agreement or from negligence, active or otherwise, of VGC, its agents, assigns or employees. In no event shall VGC be liable for damages arising from delays, loss of use or of profits or for other incidental or consequential damages of any kind, including, by way of example and not of limitation, pollution, hydrocarbon spillage or discharge, blowout, seepage, damage to underground reservoirs or any uncontrolled flow of hydrocarbons or other substances.

4. Subrogation
The Purchaser hereby releases, discharges and agrees to hold VGC harmless from any and all claims, liabilities, damages, losses or expenses arising from or caused by any hazard covered by insurance, whether said claim is made by Purchaser, its agents and insurance company, or by any other parties claiming under or through Purchaser. Purchaser agrees to indemnify VGC against, defend and hold VGC harmless from any liability, loss or damage, including costs or attorney's fees which VGC may incur as a result of any action or subrogation which may be brought against VGC by an insurer or insurance company, or its agents or

5. Price and Payment
5.1 All products are priced in U.S. dollars, unless otherwise stated, and will be invoiced upon shipment. Net payment is due within thirty (30) days after invoice date. Interest charges at eighteen percent (18%) per annum (or at maximum lawful rate) will be applicable to delinquent accounts unpaid after due date. Prices quoted are subject to change without notice if not accepted within thirty (30) days, unless specifically stated
5.2 Unless otherwise quoted, Purchaser will pay, in addition to the purchase price of the products, all charges for export packing and processing, insurance and transportation, and the price of products does not include personnel or equipment required to install the products.

6. Transportation
Unless otherwise specified in VGC's sales quotation, transportation charges, including transportation documents and contracts with carriers, shall be based upon the point of manufacture and shall be paid by Purchaser. All taxes, surcharges, customs duties, consular fees, assessments imposed by any governmental authority, insurance charges and other applicable charges, shall be borne by the Purchaser. Title to and risk of loss for goods sold shall pass to the Purchaser ex_works (INCOTERMS), point of manufacture warehouse, unless otherwise specifically agreed to by VGC in writing.

7. Delivery
Purchaser acknowledges that delivery dates, while given as accurately as conditions permit, are tentative only and, while every effort will be made to make deliveries as scheduled, VGC assumes no liability whatsoever or damages arising out of the failure to deliver the goods described herein on the dates stated. Delay in delivery shall not give Purchaser the right to cancel order. Delivery dates may be changed at VGC's

8. Cancellation or Rescheduling of Orders
8.1 Purchaser's orders, once placed and accepted, may be canceled only with VGC's written consent and upon terms which will save VGC from loss. No products may be returned for credit, warranty claim or adjustment without the written consent of authorized VGC employees.
8.2 VGC may, but is not obligated to, accept a written request by Purchaser to delay shipment of the products. If rescheduling is accepted by VGC, Purchaser shall pay any additional costs incurred by the delay and the price for the balance of the order shall be adjusted to reflect prices and costs in effect at time of actual shipment.

9. Taxes, Licenses or Other Charges
9.1 All taxes or other charges imposed by law on the sale or production of goods or the performance of services under this Agreement, including, but not limited to, those from all governmental authorities, as well as all foreign taxes, surcharges, duties, assessments or charges, if any, shall be borne by the Purchaser, unless the law specifically provides that such payment must be borne by VGC. Purchaser shall pay for and hold VGC harmless from all such governmental charges.
9.2 Purchaser shall, at its own expense, obtain all licenses, permissions or authorizations to use, purchase, export or import the products, as may be required by any governmental authority.

10. Services
Upon the request of the Purchaser, VGC will provide appropriate services and/or technical information, as available, regarding the products and their uses, and will use reasonable efforts to provide personnel to assist the Purchaser in effecting field installations. The Purchaser acknowledges that any such information, service or assistance so provided, whether with or without charge, shall be in an advisory capacity only. The Purchaser further agrees that VGC assumes no liability for any damage or loss at any location arising out of, resulting from or caused, in whole or in part, by any information, service, advice or assistance provided by VGC, its agents, assigns, employees or subcontractors.

11. Packaging/Insurance
11.1 When obligated to do so in the specifications, VGC shall attempt to pack and prepare all shipments in such a manner as to prevent breakage, rust or deterioration in transit. VGC does not, however, guarantee against such damage and the risk of any damage to the products in transit shall be borne by the Purchaser at all times.
11.2 Unless requested by the Purchaser and agreed to in writing by VGC, no shipments are insured by VGC against damage or loss in transit and VGC assumes no liability whatsoever in regard to the obtaining of such insurance.

12. Changes and Modifications in Design
VGC hereby reserves the right to change or modify the specification and construction of any of its products without incurring any obligation to furnish or install such changes or modifications on products previously or subsequently sold.

13. Patent Warranties
The Purchaser acknowledges that VGC does not warrant that any of the materials, equipment or apparatus sold by it, if used or sold in combination with any other equipment, or used in Purchaser's methods or processes, will not, by virtue of such combination or use, infringe patents of others, and VGC shall not be liable for any patent infringement arising from or by reason of any such use or sale. On any item sold by VGC,

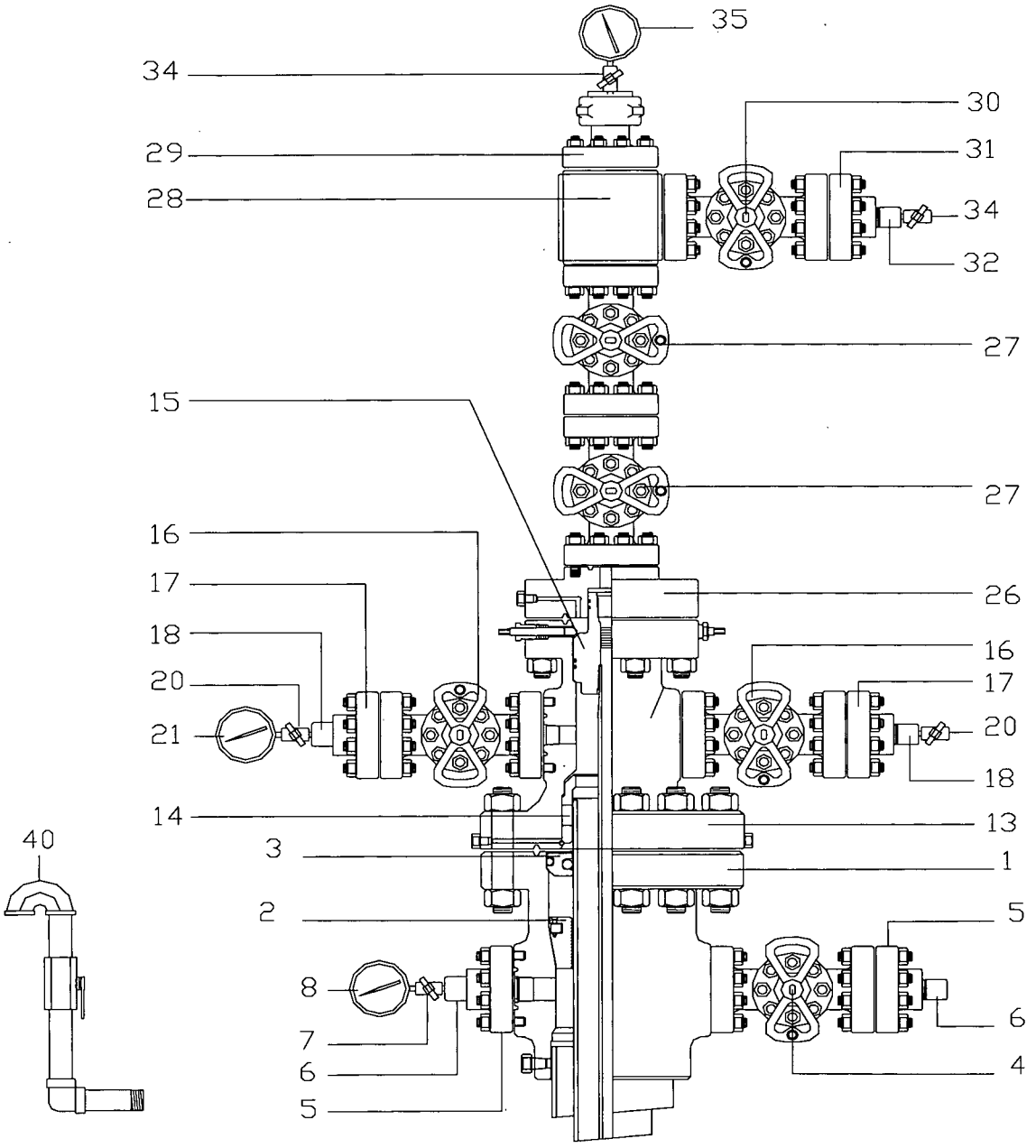
14. Shortages
Subject to Paragraphs 6.1, 11.1 and 11.2, all claims regarding shortages in any shipment must be made within thirty (30) days from the receipt of such shipment, and must be accompanied by the packing list or lists covering the shipment.

15. Consular Documents and Declarations

The procurement of consular fees for legalizing invoices, stamping Bills of Lading or other such documents and declarations required by the law of any country or destination, are not included in quotations or selling prices. Although it is not VGC's policy to make such arrangements, if instructed by the Purchaser and agreed to in writing by VGC, VGC will make arrangements for any consular documents and declarations needed, as agents of the Purchaser. VGC assumes no liability whatsoever as a result of making such arrangements and all costs and liability shall be borne by the Purchaser.

16. Force Majeure
If the Purchaser or VGC is prevented, directly or indirectly, from carrying out the provisions of this Agreement by reason of any act of God, war, revolution, blockade, strike, riot, earthquake, cyclone or flood, or delay by carrier, fuel shortage, embargo, walkout or other labor disturbance, actual or potential, the operation of laws, interference of civil or military authority, or other cause, existing or future, beyond the reasonable control of the party affected, interfering with production or receipt of goods as herein contemplated, the party so prevented or interfered with shall be excused from making or taking deliveries to the extent of such prevention or interference, excluding the obligation to pay monies owed, provided prompt written notice is given to the other party.

17. Governing Law
17.1 The validity, interpretation and performance of this Agreement with respect to goods delivered or to be delivered under this Agreement shall be governed by the laws of the Canada and the Province of Alberta and any dispute arising hereunder shall be referred to the courts of the Province of Alberta or, at VGC's sole discretion, to the courts where the Purchaser's business is situated.
17.2 The invalidity, in whole or in part, of the Terms, or any provision or any part thereof, shall not affect the validity or enforceability of any other terms or provisions.
17.3 The right of VGC to require strict performance of the Terms shall not be affected by any prior waiver or course of dealing.


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Schematic - Current

Paramount resources ltd.

Well Name: PARA ET AL CAMERON 2H-03 HZ

API/UWI	Surface Legal Location	License #	Field Name	State/Province
302/H-03/6010-11730/0	300/2H-03/6010-11730	2073	Cameron Hills	NT
Well Configuration Type	**Original KB Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**KB-Tubing Head Distance (m)**
HORIZ	777.22	7.02	5.02	4.52

Most Recent Job

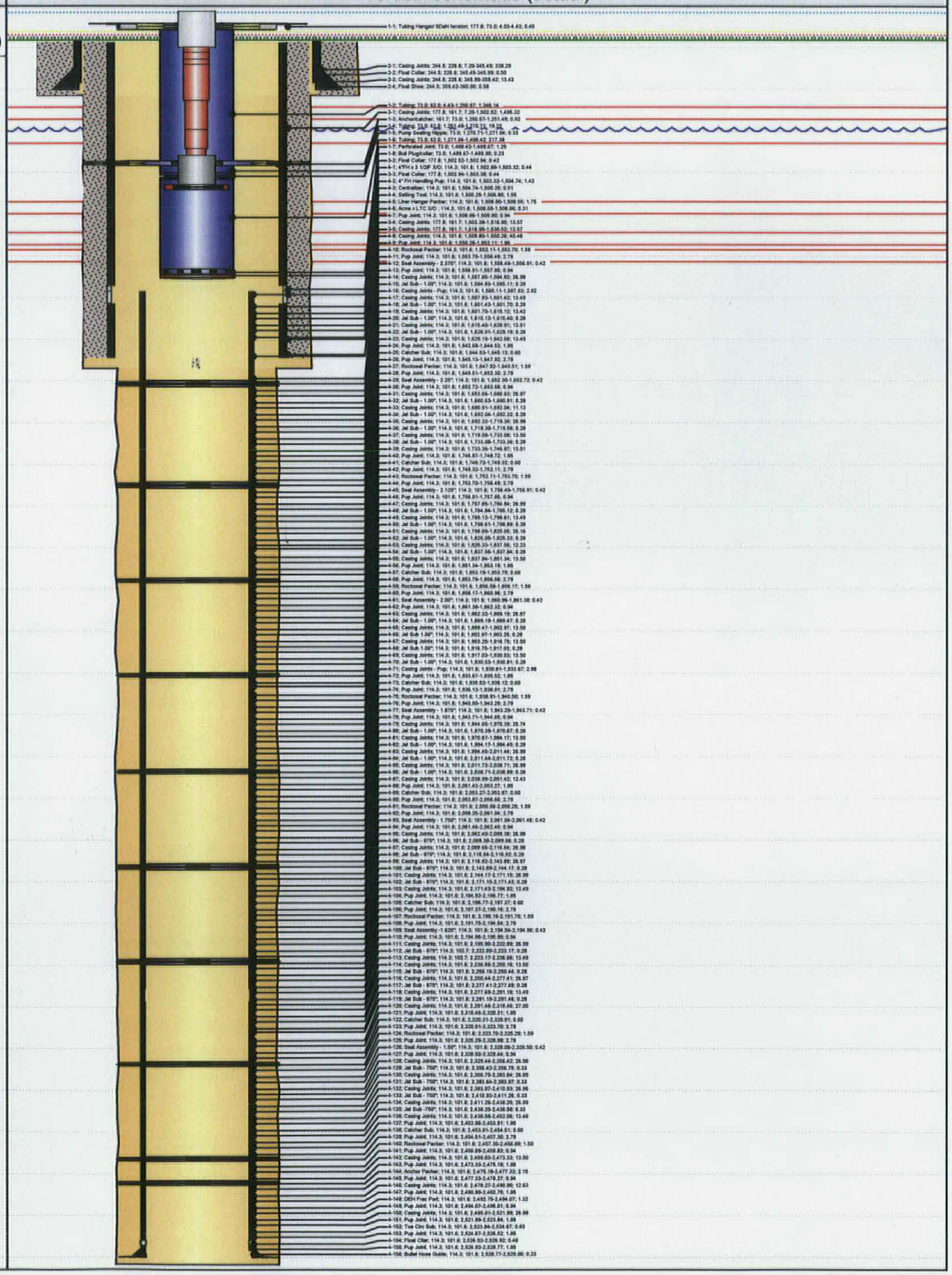
Job Category	Primary Job Type	Secondary Job Type	Start Date	End Date
Completion	Initial Completion		3/22/2011	4/2/2011

TD: 2,534.00

HORIZ - Original Hole, 9/2/2011 1:31:36 PM

MD (mKB)	TVD (mKB)	Incl (°)	DLS
			DLS (°... 0.0 — 20
8.1	8.1	0.0	
360.0	360.0	0.6	
775.1	774.9	0.5	
1,270.7	1,270.5	3.1	
1,353.0	1,346.3	34.6	
1,450.0	1,405.9	67.4	
1,503.3	1,420.1	79.6	
1,509.8	1,421.1	81.5	
1,552.1	1,424.2	87.7	
1,587.9	1,423.8	92.3	
1,642.7	1,423.4	89.1	
1,653.7	1,423.6	88.7	
1,733.1	1,424.6	92.7	
1,756.5	1,423.3	92.6	
1,825.0	1,421.7	90.0	
1,856.6	1,421.3	90.2	
1,903.0	1,422.1	88.2	
1,935.5	1,422.8	88.7	
1,970.4	1,423.5	89.6	
2,039.0	1,423.3	90.2	
2,061.5	1,423.5	89.3	
2,144.2	1,422.7	91.7	
2,191.8	1,420.8	92.6	
2,250.2	1,419.9	89.5	
2,320.3	1,421.2	89.0	
2,356.4	1,422.5	87.4	
2,438.6	1,423.8	90.5	
2,473.3	1,423.1	91.5	
2,495.0	1,422.7	90.7	
2,529.0	1,422.3	90.6	

Vertical schematic (actual)



Schematic - Current

Paramount resources ltd.

Well Name: PARA ET AL CAMERON 2H-03 HZ

API/UWI	Surface Legal Location	License #	Field Name	State/Province
302/H-03/6010-11730/0	300/2H-03/6010-11730	2073	Cameron Hills	NT
Well Configuration Type	**Original KB Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**KB-Tubing Head Distance (m)**
HORIZ	777.22	7.02	5.02	4.52

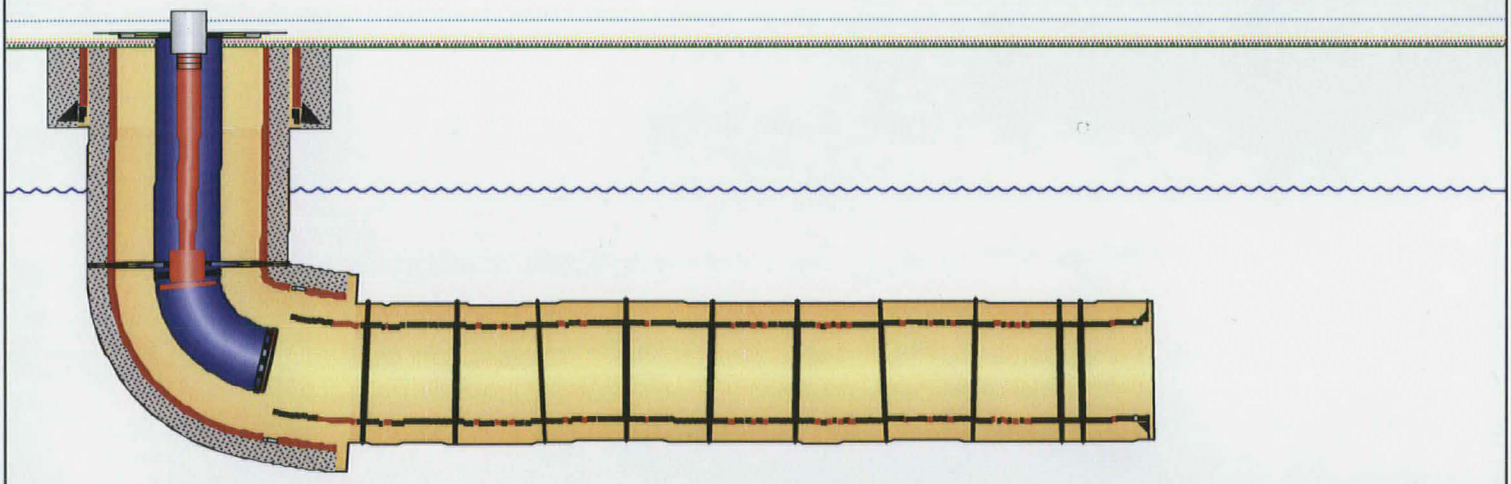
Most Recent Job

Job Category	Primary Job Type	Secondary Job Type	Start Date	End Date
Completion	Initial Completion		3/22/2011	4/2/2011

TD: 2,534.00

HORIZ - Original Hole, 9/2/2011 1:31:36 PM

Directional schematic (actual)



Schematic - Current

Paramount resources ltd.

Well Name: PARA ET AL CAMERON 2H-03 HZ

API/UWI	Surface Legal Location	License #	Field Name	State/Province
302/H-03/6010-11730/0	300/2H-03/6010-11730	2073	Cameron Hills	NT
Well Configuration Type	**Original KB Elevation (m)**	**KB-Ground Distance (m)**	**KB-Casing Flange Distance (m)**	**KB-Tubing Head Distance (m)**
HORIZ	777.22	7.02	5.02	4.52

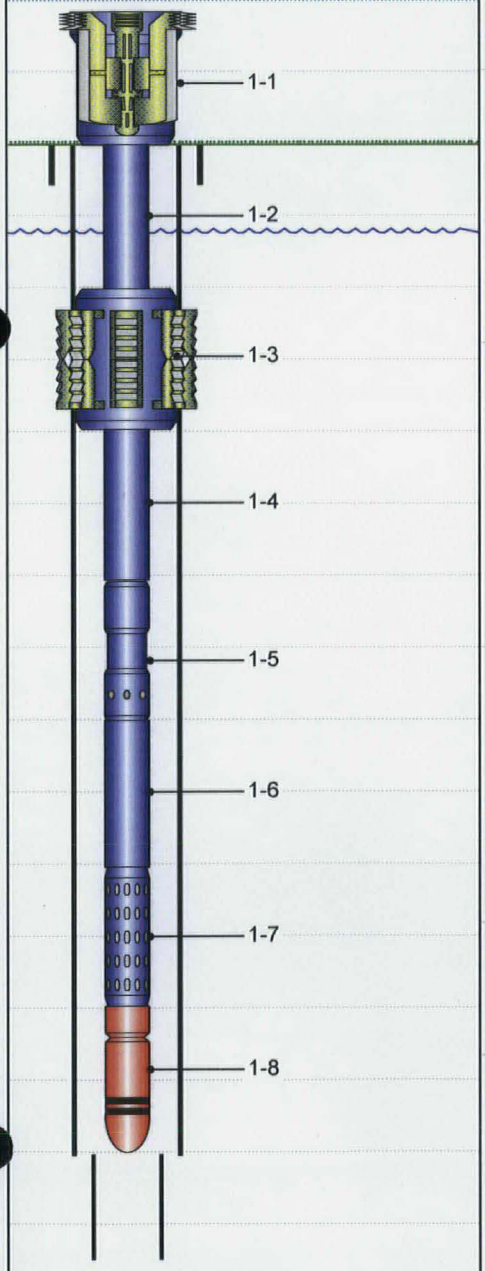
Most Recent Job

Job Category	Primary Job Type	Secondary Job Type	Start Date	End Date
Completion	Initial Completion		3/22/2011	4/2/2011

TD: 2,534.00

HORIZ - Original Hole, 9/2/2011 1:31:36 PM

Vertical schematic (actual)



Column list (actual)

Depth (MD)	Length	Description
4.03-4.43	0.40	Tubing Hanger/ 5DaN tension
1,250.57-1,251.49	0.92	Anchor/catcher
1,270.71-1,271.04	0.33	Pump Seating Nipple
1,488.42-1,489.67	1.25	Perforated Joint
1,489.67-1,489.90	0.23	Bull Plug/collar

Confidential Information

Packers Plus® Do It Once Do It Right

Sour Service 9 Stage RapidMATRIX® HD

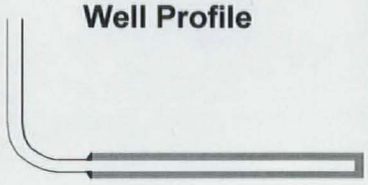
Prepared for	Company	Date
John Williams	Paramount Resources	March 20, 2011
Well Name	**Location**	**Type of Installation**
Para Et Al Cameron	2H-03 HZ	RapidMATRIX® HD



NOTE: Drill Out ID on String: 3.720" or 94.49mm

Notes:
BHP: 9.8mPa
BHT: 70° C
H2S: **4%**
Completion Fluid: Water
Stimulation:
28% HCL Acid w// CO2 at 20% "quality".
10 m3 / min Pumping Rate
10 kPa/m slurry density

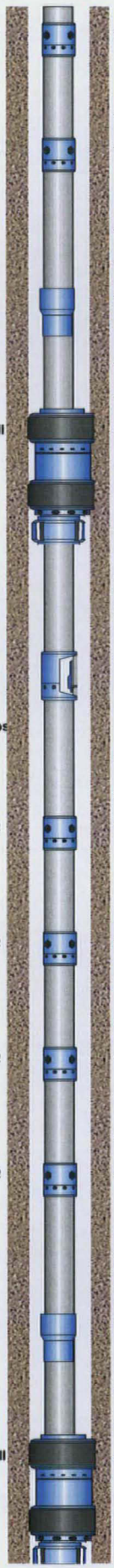
Well Profile



Casing Frac

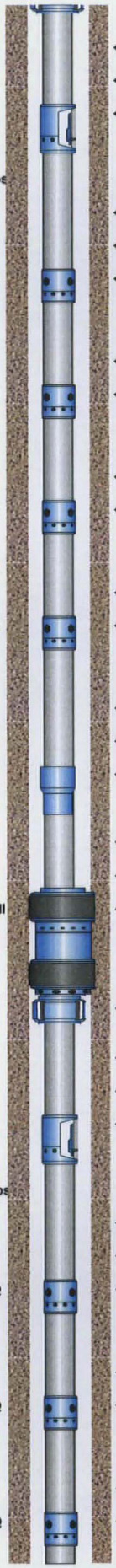
Depth	Description	OD(mm)	ID(mm)	Length (m)
	KOP: 1209.88m			
	Casing: 177.80 mm, 34.23 kg/m L-80 LT&C	177.80	161.70	
Casing Collar @ 1503.14m				
Liner Hanger Top Set @ 1506.80m	Packers Plus® Type SF ELB Permanent Plus Liner Hanger Packer Size: 177.80mm (149.22mm O.D.) **Top - CE : 1.45m** **Upper Seal Bore I.D. 120.65 mm (4.750")** **Lower Seal Bore I.D. 95.25 mm (3.750")** Elastomers: HSN Metallurgy: L-80 Thread: Acme Pin **S/N: EM0029203**	147.57	95.25	1.75
Deviation 80.2 Deg				
CE @ 1508.25m	Packers Plus® Permanent Plus Tailpipe Adaptor Size: 177.80 mm (149.23 mm O.D.) Metallurgy: L-80 Thread: Acme Box X 114.30 mm LT&C Pin	149.22	95.25	0.31
Casing Collar @ 1516.95m	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (3 Joints)	114.30	101.60	40.46
	Casing Shoe Landed: 1531.00m **TVD Casing Shoe: 1422.67m** **Deviation: 86.3 Deg** **Open Hole Size: 156.00 mm (6⅛")** **Formation: Sulphur Point**			
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
RockSEAL® II Set @ 1552.11m (Set 21.11m below Shoe)	**Packers Plus®:** Hydraulic Set **RockSEAL® II** Open Hole Dual Element Packer c/w Full Shear Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.) Elastomers: HSN Metallurgy: L-80 Thread: 114.30 mm LT&C **S/N: EA0042144**	146.05	95.25	1.59
	Packers Plus®: Fluted Swivel Centralizer (5.812" OD)	147.64		
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Stage # 9 Depth 1556.49m 4 RapidJET Subs	**Packers Plus®: Drillable Shear Activating Assembly** c/w Ball Actuation Seat Size: 114.30 mm / Thread: LT&C Ball Seat: **60.325 mm (2.375")** Actuation Ball: **63.500 mm (2.500")** Metallurgy: L-80 / Elastomers: HSN **S/N: EM0038239 / EM0038187**	146.05	60.32	0.42
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.98
RapidJET @ 1584.83m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C **Jet Size: 25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-984**	146.05	96.00	0.28
	114.3 mm x 2.82 m long, 17.26 Kg/m LT&C L-80 Pup Joint	114.30	101.60	2.82
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (1 Joint)	114.30	101.60	13.49
RapidJET @ 1601.42m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C **Jet Size: 25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-999**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (1 Joint)	114.30	101.60	13.42

Subject to Packers Terms Conditions. Some systems/methods/products may be covered by US patent 6,907,936; 7,134,505; 7,108,067; 7,543,634; 7,431,091; 7,021,384; 7,353,878; 7,748,460; 7,762,333; 7,798,226 or other patents pending



RapidJET @ 1615.12m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-993**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (1 Joint)	114.30	101.60	13.51
RapidJET @ 1628.91m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-981**	146.05	96.00	0.28
	QTY : 1 Joint - 114.3 mm, 17.26 Kg/m L-80 LT&C Liner	114.30	101.60	13.49
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Catcher @ 1644.53m	**Packers Plus®: Shear Activation Tool Catcher** c/w Torque Lock Feature Size: 114.30 mm / Thread: LT&C Metallurgy: L-80 **S/N: EM0033973**	146.05	95.25	0.60
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
RockSEAL® II Set @ 1647.92m	**Packers Plus®:** Hydraulic Set **RockSEAL® II** Open Hole Dual Element Packer c/w Full Shear Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.) Elastomers: HSN Metallurgy: L-80 Thread: 114.30 mm LT&C **S/N: EA0031916**	146.05	95.25	1.59
	Packers Plus®: Fluted Swivel Centralizer (5.812" OD)	147.64		
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Stage # 8 Depth 1652.30m 4 RapidJET Subs	**Packers Plus®: Drillable Shear Activating Assembly** c/w Ball Actuation Seat Size: 114.30 mm / Thread: LT&C Ball Seat: **57.150 mm (2.250")** Actuation Ball: **60.325 mm (2.375")** Metallurgy: L-80 / Elastomers: HSN **S/N: EM0038238 / EM0038184**	146.05	**57.15**	0.42
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.97
RapidJET @ 1680.63m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-995**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (1 Joint)	114.30	101.60	11.13
RapidJET @ 1692.04m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-996**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.98
RapidJET @ 1719.30m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-989**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (1 Joint)	114.30	101.60	13.50
RapidJET @ 1733.08m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-994**	146.05	96.00	0.28
	QTY : 1 Joint - 114.3 mm, 17.26 Kg/m L-80 LT&C Liner	114.30	101.60	13.51
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Catcher @ 1748.72m	**Packers Plus®: Shear Activation Tool Catcher** c/w Torque Lock Feature Size: 114.30 mm / Thread: LT&C Metallurgy: L-80 **S/N: EM0033970**	146.05	95.25	0.60
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
RockSEAL® II Set @ 1752.11m	**Packers Plus®:** Hydraulic Set **RockSEAL® II** Open Hole Dual Element Packer c/w Full Shear Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.) Elastomers: HSN Metallurgy: L-80 Thread: 114.30 mm LT&C **S/N: EA0031918**	146.05	95.25	1.59
	Packers Plus®: Fluted Swivel Centralizer (5.812" OD) (5.812" OD)	147.64		

Subject to Packers Terms Conditions. Some systems/methods/products may be covered by US patent 6,907,936; 7,134,505; 7,108,067; 7,543,634; 7,431,091; 7,021,384; 7,353,878; 7,748,460; 7,762,333; 7,798,226 or other patents pending



	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Stage # 7 Depth 1756.49m 4 RapidJET Subs	**Packers Plus®: Drillable Shear Activating Assembly** c/w Ball Actuation Seat Size: 114.30 mm / Thread: LT&C Ball Seat: **53.975 mm (2.125")** Actuation Ball: **57.150 mm (2.250")** Metallurgy: L-80 / Elastomers: HSN **S/N: EM0038246 / EM0038180**	146.05	**53.98**	0.42
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.99
RapidJET @ 1784.84m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-983**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (1 Joint)	114.30	101.60	13.49
RapidJET @ 1798.61m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-997**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.16
RapidJET @ 1825.05m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-992**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (1 Joint)	114.30	101.60	12.23
RapidJET @ 1837.56m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: EM0034018**	146.05	96.00	0.28
	QTY : 1 Joint - 114.3 mm, 17.26 Kg/m L-80 LT&C Liner	114.30	101.60	13.50
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Catcher @ 1853.19m	**Packers Plus®: Shear Activation Tool Catcher** c/w Torque Lock Feature Size: 114.30 mm / Thread: LT&C Metallurgy: L-80 **S/N: EM0033971**	146.05	95.25	0.60
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
RockSEAL® II Set @ 1856.58m	**Packers Plus®:** Hydraulic Set **RockSEAL® II** Open Hole Dual Element Packer c/w Full Shear Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.) Elastomers: HSN Metallurgy: L-80 Thread: 114.30 mm LT&C **S/N: EA0031920**	146.05	95.25	1.59
	Packers Plus®: Fluted Swivel Centralizer (5.812" OD)	147.64		
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Stage # 6 Depth 1860.96 4 RapidJET Subs	**Packers Plus®: Drillable Shear Activating Assembly** c/w Ball Actuation Seat Size: 114.30 mm / Thread: LT&C Ball Seat: **50.800 mm (2.000")** Actuation Ball: **53.975 mm (2.125")** Metallurgy: L-80 / Elastomers: HSN **S/N: EM0038199 / EM0037584**	146.05	**50.80**	0.42
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.87
RapidJET @ 1889.19m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: EM0034021**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (1 Joint)	114.30	101.60	13.50
RapidJET @ 1902.97m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN **S/N: EM0034020**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (1 Joint)	114.30	101.60	13.50
RapidJET @ 1916.75m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00")	146.05	96.00	0.28

Subject to Packers Terms Conditions. Some systems/methods/products may be covered by US patent 6,907,936; 7,134,505; 7,108,067; 7,543,634; 7,431,091; 7,021,384; 7,353,878; 7,748,460; 7,762,333; 7,798,226 or other patents pending



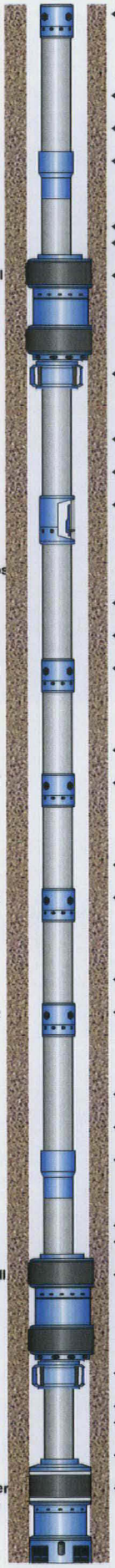
	Metallurgy: L-80 / Elastomers: HSN S/N: EM0034019			
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (1 Joint)	114.30	101.60	13.50
RapidJET @ 1930.53m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN S/N: EM0033985	146.05	96.00	0.28
	114.3 mm x 2.86 m long, 17.26 Kg/m LT&C L-80 Pup Joint	114.30	101.60	2.86
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Catcher @ 1935.52m	**Packers Plus®: Shear Activation Tool Catcher** c/w Torque Lock Feature Size: 114.30 mm / Thread: LT&C Metallurgy: L-80 S/N: EM0033972	146.05	95.25	0.60
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
RockSEAL® II Set @ 1938.91m	**Packers Plus®:** Hydraulic Set **RockSEAL® II** Open Hole Dual Element Packer c/w Full Shear Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.) Elastomers: HSN Metallurgy: L-80 Thread: 114.30 mm LT&C S/N: EA0031922	146.05	95.25	1.59
	Packers Plus®: Fluted Swivel Centralizer (5.812" OD)	147.64		
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Stage # 5 Depth 1943.29m 4 RapidJET Subs	**Packers Plus®: Drillable Shear Activating Assembly** c/w Ball Actuation Seat Size: 114.30 mm / Thread: LT&C Ball Seat: **47.625 mm (1.875")** Actuation Ball: **50.800 mm (2.000")** Metallurgy: L-80 / Elastomers: HSN S/N: EM0038225 / EM0038178	146.05	**47.63**	0.42
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	25.74
RapidJET @ 1970.39m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN S/N: EM0033984	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (1 Joint)	114.30	101.60	13.50
RapidJET @ 1984.17m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN S/N: EM0033983	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.99
RapidJET @ 2011.44m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN S/N: EM0033982	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.99
RapidJET @ 2038.71m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **25.40 mm** (1.00") Metallurgy: L-80 / Elastomers: HSN S/N: EM0033981	146.05	96.00	0.28
	QTY : 1 Joint - 114.3 mm, 17.26 Kg/m L-80 LT&C Liner	114.30	101.60	12.43
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Catcher @ 2053.27m	**Packers Plus®: Shear Activation Tool Catcher** c/w Torque Lock Feature Size: 114.30 mm / Thread: LT&C Metallurgy: L-80 S/N: EM0033976	146.05	95.25	0.60
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
RockSEAL® II Set @ 2056.66m	**Packers Plus®:** Hydraulic Set **RockSEAL® II** Open Hole Dual Element Packer c/w Full Shear Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.) Elastomers: HSN Metallurgy: L-80 Thread: 114.30 mm LT&C S/N: EA0042130	146.05	95.25	1.59
	Packers Plus®: Fluted Swivel Centralizer (5.812" OD)	147.64		
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85

Subject to Packers Terms Conditions. Some systems/methods/products may be covered by US patent 6,907,936; 7,134,505; 7,108,067; 7,543,634; 7,431,091; 7,021,384; 7,353,878; 7,748,460; 7,762,333; 7,798,226 or other patents pending



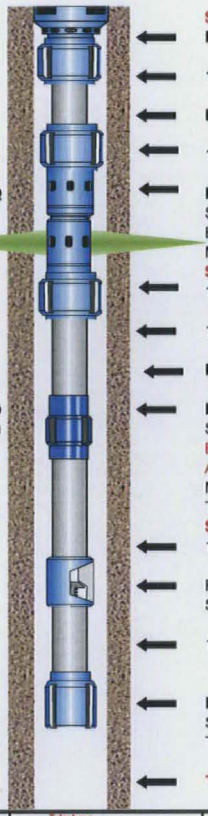
Stage # 4 Depth 2061.04m 4 RapidJET Subs	**Packers Plus®: Drillable Shear Activating Assembly** c/w Ball Actuation Seat Size: 114.30 mm / Thread: LT&C Ball Seat: **44.450 mm (1.750")** Actuation Ball: **47.625 mm (1.875")** Metallurgy: L-80 / Elastomers: HSN **S/N: EM0038247 / EM0038433**	146.05	**44.45**	0.42
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.98
RapidJET @ 2089.38m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **22.23 mm** (0.875") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-988**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.98
RapidJET @ 2116.64m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **22.23 mm** (0.875") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-987**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.97
RapidJET @ 2143.89m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **22.23 mm** (0.875") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-991**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.98
RapidJET @ 2171.15m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **22.23 mm** (0.875") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-985**	146.05	96.00	0.28
	QTY : 1 Joint - 114.3 mm, 17.26 Kg/m L-80 LT&C Liner	114.30	101.60	13.49
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Catcher @ 2186.77m	**Packers Plus®: Shear Activation Tool Catcher** c/w Torque Lock Feature Size: 114.30 mm / Thread: LT&C Metallurgy: L-80 **S/N: EM0033974**	146.05	95.25	0.60
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
RockSEAL® II Set @ 2190.16m	**Packers Plus®:** Hydraulic Set **RockSEAL® II** Open Hole Dual Element Packer c/w Full Shear Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.) Elastomers: HSN Metallurgy: L-80 Thread: 114.30 mm LT&C **S/N: EA0042156**	146.05	95.25	1.59
	Packers Plus®: Fluted Swivel Centralizer (5.812" OD)	147.64		
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Stage # 3 Depth 2194.54m 4 RapidJET Subs	**Packers Plus®: Drillable Shear Activating Assembly** c/w Ball Actuation Seat Size: 114.30 mm / Thread: LT&C Ball Seat: **41.275 mm (1.625")** Actuation Ball: **44.450 mm (1.750")** Metallurgy: L-80 / Elastomers: HSN **S/N: EM0038223 / EM0038193**	146.05	**41.28**	0.42
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.99
RapidJET @ 2222.89m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **22.23 mm** (0.875") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-982**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.99
RapidJET @ 2250.16m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **22.23 mm** (0.875") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-986**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.97
RapidJET @ 2277.41m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **22.23 mm** (0.875") Metallurgy: L-80 / Elastomers: HSN **S/N: FJ-990**	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (1 Joint)	114.30	101.60	13.49

Subject to Packers Terms Conditions. Some systems/methods/products may be covered by US patent 6,907,936; 7,134,505; 7,108,067; 7,543,634; 7,431,091; 7,021,384; 7,353,876; 7,748,460; 7,762,333; 7,798,226 or other patents pending



RapidJET @ 2291.18m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30mm / Thread: LT&C Jet Size: **22.23 mm** (0.875") Metallurgy: L-80 / Elastomers: HSN S/N: FJ-998	146.05	96.00	0.28
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	27.00
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Catcher @ 2320.31m	**Packers Plus®: Shear Activation Tool Catcher** c/w Torque Lock Feature Size: 114.30 mm / Thread: LT&C Metallurgy: L-80 S/N: EM0033975	146.05	95.25	0.60
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
RockSEAL® II Set @ 2323.70m	**Packers Plus®:** Hydraulic Set **RockSEAL® II** Open Hole Dual Element Packer c/w Full Shear Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.) Elastomers: HSN Metallurgy: L-80 Thread: 114.30 mm LT&C S/N: EA0042162	146.05	95.25	1.59
	Packers Plus®: Fluted Swivel Centralizer (5.812" OD)	147.64		
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Stage # 2 Depth 2328.08m 4 RapidJET Subs	**Packers Plus®: Drillable Shear Activating Assembly** c/w Ball Actuation Seat Size: 114.30 mm / Thread: LT&C Ball Seat: **38.10 mm (1.500")** Actuation Ball: **41.27 mm (1.625")** Metallurgy: L-80 / Elastomers: HSN S/N: EM0038224 / EM0035713	146.05	38.10	0.42
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.98
RapidJET @ 2356.42m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **19.05 mm (0.750")** Metallurgy: L-80 / Elastomers: HSN S/N: EM0033598	146.05	96.00	0.33
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.89
RapidJET @ 2383.64m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **19.05 mm (0.750")** Metallurgy: L-80 / Elastomers: HSN S/N: EM0033597	146.05	96.00	0.33
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.96
RapidJET @ 2410.93m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30 mm / Thread: LT&C Jet Size: **19.05 mm (0.750")** Metallurgy: L-80 / Elastomers: HSN S/N: EM0033596	146.05	96.00	0.33
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.99
RapidJET @ 2438.25m	**Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation** Size: 114.30mm / Thread: LT&C Jet Size: **19.05 mm (0.750")** Metallurgy: L-80 / Elastomers: HSN S/N: EM0033595	146.05	96.00	0.33
	QTY : 1 Joint - 114.3 mm, 17.26 Kg/m L-80 LT&C Liner	114.30	101.60	13.48
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Catcher @ 2453.91m	**Packers Plus®: Shear Activation Tool Catcher** c/w Torque Lock Feature Size: 114.30 mm / Thread: LT&C Metallurgy: L-80 S/N: EM0033969	146.05	95.25	0.60
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
RockSEAL® II Set @ 2457.30m	**Packers Plus®:** Hydraulic Set **RockSEAL® II** Open Hole Dual Element Packer c/w Full Shear Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.) Elastomers: HSN Metallurgy: L-80 Thread: 114.30 mm LT&C S/N: EA0042158	146.05	95.25	1.59
	Packers Plus®: Fluted Swivel Centralizer (5.812" OD)	147.64		
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	QTY : 1 Joint - 114.3 mm x 17.26 Kg/m x L-80 LT&C Liner	114.30	101.60	13.50
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Anchor Packer @ 2475.18m	177.80 mm X 114.30 mm RockSEAL® IIS Hydraulic Set Open Hole Packer c/w Rock Anchor System Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.) Elastomers: HSN Metallurgy: L-80 Thread: 114.30 mm LT&C	146.05	95.25	2.15

Subject to Packers Terms Conditions. Some systems/methods/products may be covered by US patent 6,907,936; 7,134,505; 7,108,067; 7,543,634; 7,431,091; 7,021,384; 7,353,878; 7,748,460; 7,762,333; 7,798,226 or other patents pending



	S/N: EM0038675			
	Packers Plus®: Fluted Swivel Centralizer (5.812" OD)	147.64		
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	99.57	0.94
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (1 Joint)	114.30	101.60	12.63
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Stage # 1 FracPORT @ 2492.75m	**Packers Plus®: DEH** (Dual External Hydraulic) FracPORT™ Size: 114.30 mm / Thread: LT&C **Pinned To Open @ 32.3mpa Differential Pressure** Elastomers: HSN Metallurgy: L-80 S/N: EM0038086	146.05	95.25	1.32
	114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint	114.30	101.60	0.94
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
	Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C (2 Joints)	114.30	101.60	26.98
Toe Circ Sub @ 2523.84m	**Packers Plus®: Toe Circulating Sub** Size: 114.30 mm Ball Seat: **25.400 mm** (1.000") Actuation Ball: **31.750 mm** (1.250") Metallurgy: L-80 Thread: 114.30 mm LT&C S/N: EM0038175	146.00	25.40	0.83
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
	Float Collar (Third Party) Size: 114.30 mm LT&C	139.70	N/A	0.40
	114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint	114.30	99.57	1.85
Liner Bottom @ 2529.00m	**Packers Plus®: Bullet Style** Re-Entry Guide Size: 139.70 mm (OD) Thread: 114.30 mm LT&C	139.70	76.00	0.23
	TD : 2534.00m / TVD : 1422.67m			

Service Center	Telephone	Station Manager	Calgary Sales
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Confidential Information

Packers Plus — Do It Once Do It Right®

Company: Paramount Resources
Location: Cameron Hills
Well Name: 2H-03 HZ
Date: 20-Mar-11
Actual Depths

RockSEAL® Packer and RapidJET Depths / Volumes and Data Sheet
Rapid Matrix Stimulation

Stage #	Tool Description	Seat (in)	Ball (in)	Ball Type	Depth (m)	Distances Between	m	Notes:	Flush m3	
	Intermediate Casing									
	Liner Hanger				1506.80	80.2 Deg. Deviation			30.94	
	Casing									
	Casing Shoe				1531.00					
	Casing									
	RockSEAL® Packer				1552.11			21.11 m outside ICP		
9	Activating Assembly	2.375	2.500	SF-6 (1.8 SG)	1556.49	Distance of Stage	95.81		31.34	
	Casing 2 Joints									
	RapidJET (1.0")				1584.83					
	RapidJET (1.0")				1601.42	Minimum flush volume	1.01			
	RapidJET (1.0")				1615.12	(Activator to top jet volume)				
	RapidJET (1.0")				1628.91					
	Casing 1 Joint									
	Catcher Sub				1644.53				32.06	
	RockSEAL® Packer				1647.92					
8	Activating Assembly	2.250	2.375	SF-6 (1.8 SG)	1652.30	Distance of Stage	104.19		32.12	
	Casing 2 Joints									
	RapidJET (1.0")				1680.63					
	RapidJET (1.0")				1692.04	Minimum flush volume	1.07			
	RapidJET (1.0")				1719.30	(Activator to top jet volume)				
	RapidJET (1.0")				1733.08					
	Casing 1 Joint									
	Catcher Sub				1748.72				32.90	
	RockSEAL® Packer				1752.11					
7	Activating Assembly	2.125	2.250	SF-6 (1.8 SG)	1756.49	Distance of Stage	104.47		32.97	
	Casing 2 Joints									
	RapidJET (1.0")				1784.84					
	RapidJET (1.0")				1798.61	Minimum flush volume	1.08			
	RapidJET (1.0")				1825.05	(Activator to top jet volume)				
	RapidJET (1.0")				1837.56					
	Casing 1 Joint									
	Catcher Sub				1853.19				33.75	
	RockSEAL® Packer				1856.58					
6	Activating Assembly	2.000	2.125	SF-6 (1.8 SG)	1860.96	Distance of Stage	82.33		33.81	
	Casing 2 Joints									
	RapidJET (1.0")				1889.19					
	RapidJET (1.0")				1902.97	Minimum flush volume	0.89			
	RapidJET (1.0")				1916.75	(Activator to top jet volume)				
	RapidJET (1.0")				1930.53					
	Casing 1 Joint									
	Catcher Sub				1935.52				34.42	
	RockSEAL® Packer				1938.91					
5	Activating Assembly	1.875	2.000	SF-6 (1.8 SG)	1943.29	Distance of Stage	117.75		34.48	
	Casing 2 Joints									
	RapidJET (1.0")				1970.39					
	RapidJET (1.0")				1984.17	Minimum flush volume	1.18			
	RapidJET (1.0")				2011.44	(Activator to top jet volume)				
	RapidJET (1.0")				2038.71					
	Casing 1 Joint									
	Catcher Sub				2053.27				35.37	
	RockSEAL® Packer				2056.66					
4	Activating Assembly	1.750	1.875	SF-6 (1.8 SG)	2061.04	Distance of Stage	133.50		35.44	
	Casing 2 Joints									
	RapidJET (0.875")				2089.38					
	RapidJET (0.875")				2116.64	Minimum flush volume	1.31			
	RapidJET (0.875")				2143.89	(Activator to top jet volume)				
	RapidJET (0.875")				2171.15					
	Casing 1 Joint									
	Catcher Sub				2186.77				36.45	
	RockSEAL® Packer				2190.16					
3	Activating Assembly	1.625	1.750	SF-6 (1.8 SG)	2194.54	Distance of Stage	133.54		36.52	
	Casing 2 Joints									
	RapidJET (0.875")				2222.89					
	RapidJET (0.875")				2250.16	Minimum flush volume	1.31			
	RapidJET (0.875")				2277.41	(Activator to top jet volume)				
	RapidJET (0.875")				2291.18					
	Casing 1 Joint									
	Catcher Sub				2320.31				37.54	
	RockSEAL® Packer				2323.70					
2	Activating Assembly	1.500	1.625	SF-6 (1.8 SG)	2328.08	Distance of Stage	133.60		37.60	
	Casing 2 Joints									
	RapidJET (0.750")				2356.42					
	RapidJET (0.750")				2383.64	Minimum flush volume	1.33			
	RapidJET (0.750")				2410.93	(Activator to top jet volume)				
	RapidJET (0.750")				2438.25					
	Casing 2 Joints									
	Catcher Sub				2453.91				38.62	
	Casing									
	RockSEAL® Packer				2457.30					
	1 Joint									
	RockSEAL® Packer IIS				2475.18					
	1 Joint									
1	FracPORT™ (DEH)	N/A	N/A	N/A	2492.75	Distance of Stage	58.82		38.94	
	2 Joints									
	Btm assembly				2529.00					
	TD				2534.00					

Notes:

Description		Tubular Capacities		100% of Burst	% of Burst
114.3 mm, 17.26 Kg/m, L-80 Liner:		0.008107	m3/m	53,642	73%
177.8 mm, 34.3 kg/m L-80		0.020535	m3/m	43,700	90%

Input Data:

Frac Fluid weight	1,142	kg / m3
Max sand concentration	0	kg / m3
BHP	9,800	kPa
Max Hydrostatic of slurry	1,142	kg / m3
TVD	1,422.67	m

Frac Information:
28% HCL Acid w/ CO2 at 20% "quality".
10 m3 / min Pumping Rate
10 kPa/m slurry density

Expected Treating Pressure

Max Surface Pressure w/ Max Sand Concentration (Screen out)

Max Applied Surfure Pres.	33,192	kPa	
+ Hydrostatic of Fluid Slurry	15,938	kPa	
- BHP	9,800	kPa	
	= 39,330	90% of 178mm Casing	

Max Surface Pressure w/ Clean Frac Fluid (Break down or ball opening)

Max Applied Surfure Pres.	33,192	kPa
+ Hydrostatic of Fluid	15,938	kPa
- BHP	9,800	kPa

Subject to Packers Terms Conditions. Some systems/methods/products may be covered by US patent 6,907,936; 7,134,505; 7,108,067; 7,543,634; 7,431,091; 7,021,384; 7,353,878; 7,748,460; 7,782,333; 7,798,236 or other patents pending

Advancing Reservoir Performance

Fracture Treatment Summary

Paramount Resources Ltd.
Para et al Cameron 2H-03-60-117-30
Sulphur Point

Prepared by Jerradt Seier
Pressure Pumping – Fracturing Services



June 2011

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Discussion

The Paramount Cameron Hills frac on the 2H-03-60-10-117-30 well in the Sulphur Point interval was executed as planned. Each interval received the scheduled volume of 40 m^3 of 15% HCl acid and utilized 10 m^3 of a crosslinked water system Medallion as a diverter.

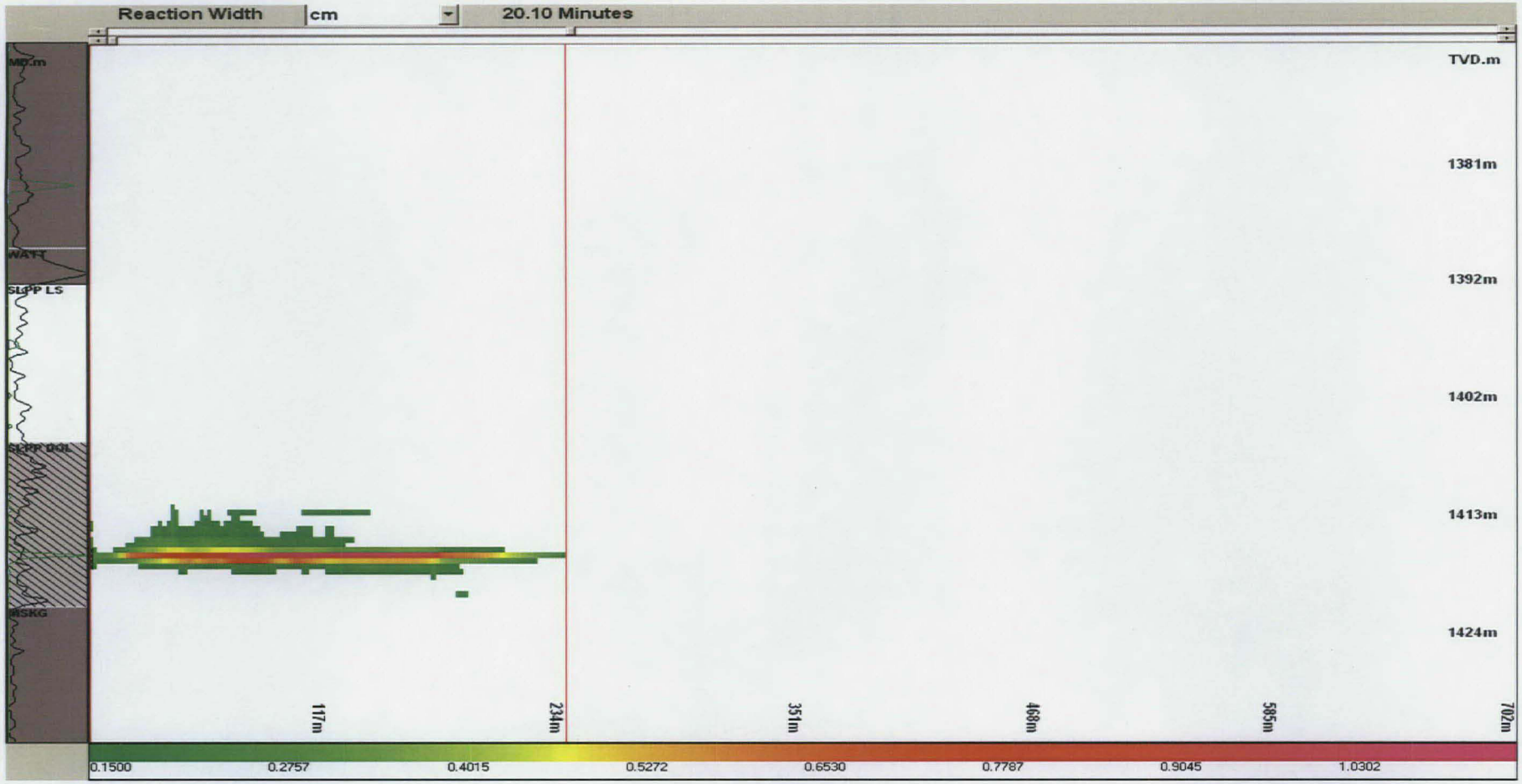
Given that we achieved the designed volumes and rates for the treatment, the modeled geometry is deemed representative.

A ball seat pressure signature was observed between each stage. Each of these signatures were followed by a different treating pressure profile. These characteristics would suggest that each stage were isolated and received the planned volume of acid.

The treatment is deemed successful as planned.

Designed Treatment Geometry

Fracture modeling was done on an offset wellbore, A-03-60-10-117-30. The resulting etched width is modeled from a 40 m^3 15% HCl with 10 m^3 Medallion Diverter Gel treatment. These are the treatment volumes that were pumped per stage. Given that we pumped the treatment with the planned volumes and rates, the simulated geometry is our best representation of the fracture. The conductive etched dimensions represented are 234 m in fracture half length, 6.5 m in height and 1.23 mm of width.



Pressure Pumping
Fracturing Services

BAKER HUGHES

Job Treatment Data

CUSTOMER:	PARAMOUNT RESOURCES LIMITED
Address:	
	#4700, 888 - 3rd Street S.W.
	CALGARY
	AB
Representative:	STEVE BAGGS

Service Order	S369771	Job Date	25-Mar-2011
Job Type	NITRIFIED ACID FRAC	Proposal	P257950-2
UWI:	300/2H-03-60-10-117-30		
Well Name	PARA ET AL CAMERON 2H-03	BHST (oC)	55
Formation	SULPHUR POINT	Frac Zone	
Reservoir Fluid	Oil	Well Type	New
BJ Representative	VANDERKAA, STEPHEN J.		

Item	OD (mm)	Weight (kg/m)	Grade	Bottom Depth (m)	Burst (MPa)	Volume (m3)
Tubing			0			
Casing	177.8	34.23	L-80	1506.00	43.7	30.90
Casing	114.3	17.26	L-80	1556.50	53.6	0.40
			Total Volume (m3):			31.30

Treatment Mode:	CASING	Wellhead Pressure (MPa)	0.2
Packer Depth (m)	1506	Annular / Relief Valve (MPa)	0 / 0
PBTD (m)	2529	Pressure Test (MPa)	40

TREATING FLUID	BALL SPACER	
Water	2.0	M3
FRW-16A Friction Reducer	2.0	L / M3

TREATING FLUID	DISPLACEMENT	
Water	85.7	M3
FRW-16A Friction Reducer	2.0	L / M3

Perforation Intervals	Depth (m) Top	Bottom	SPM
Openhole	1534.0	2534.0	0
	Min	Max	Avg.
Pumping Pressure (MPa)	21.4	32.3	28.2
Pumping Rate (m3/min)	4.0	7.0	6.0
Kilowatts	1426.7	3768.3	2820.0

TREATING FLUID	PAD	
Nowferr 1000 15% Acid blend	364.4	M3
Nowferr 1W Iron Control	2.5	L / M3
Nowferr 14P Iron Control	0.4	KG / M3
Nowferr 3 Corrosion Inhibitor	20.0	L / M3
AS-345 Non-emulsifier & Anti-Sludg	25.0	L / M3
FRW-16A Friction Reducer	2.0	L / M3
NE-207 Non-emulsifier & Dispersan	15.0	L / M3
Nowferr 12	7.0	L / M3

TREATING FLUID	FLUSH	
Water	29.9	M3
FRW-16A Friction Reducer	2.0	L / M3

MSDS Fracture Fluid Density (kg/m3)	1000
MSDS Fracture Fluid Temperature (oC)	20.0
Fracture Fluid Base Component:	15% hcl / fresh water
Estimated Sand Top (m)	
Hole Fill (m3)	0.9
Breakdown Pressure (Mpa)	25.2
Instantaneous Shut In Pressure (MPa)	18.2
One Minute Shut In Pressue (MPa)	13.4
15 Shut In Pressure (MPa)	5.8

Proppant Agents	Concentration (kg/m3) Start	End	at Perfs	In Formation (Tonnes)	Total Pumped (Tonnes)
	Total Proppant:				

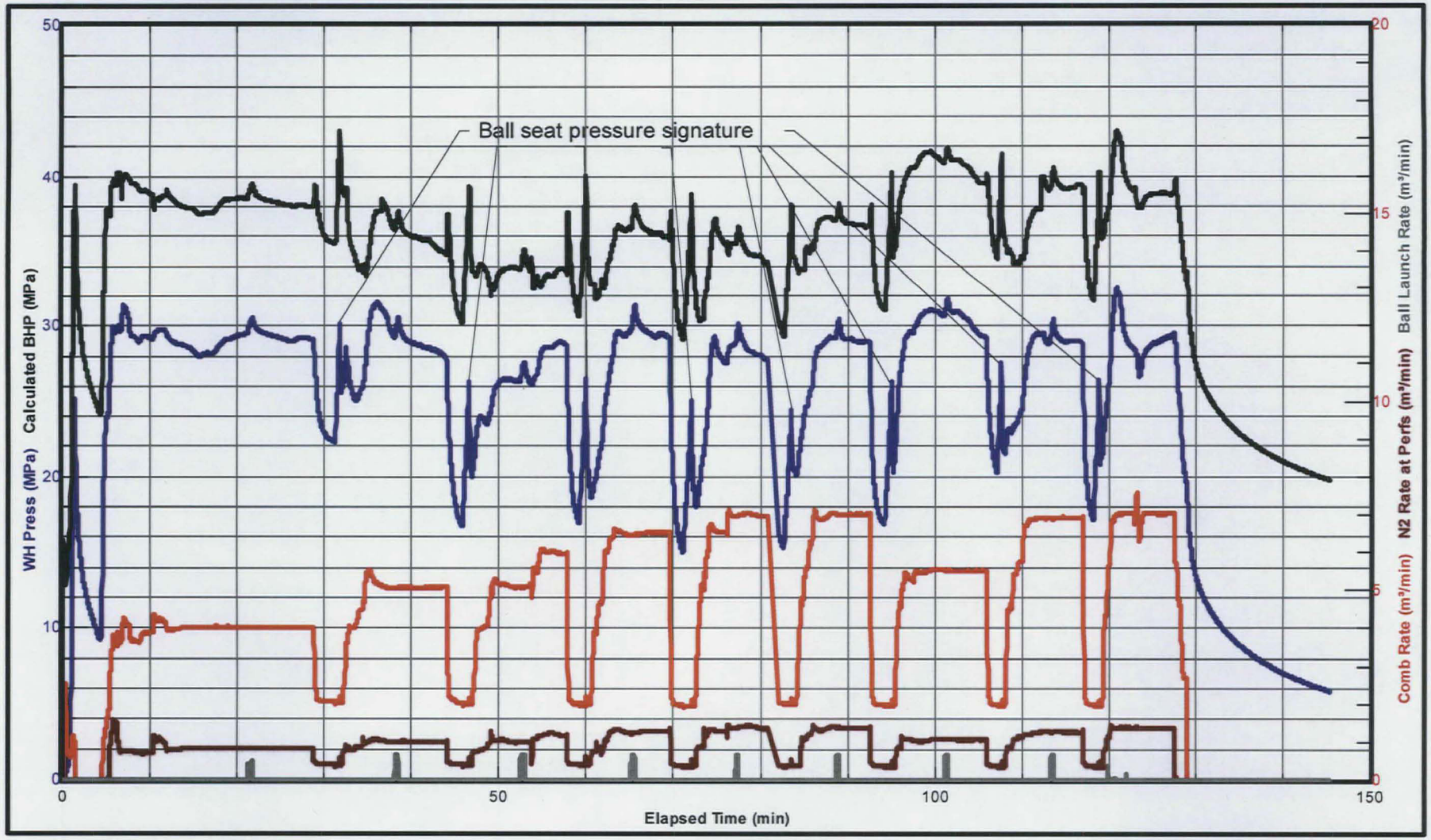
			Job	Cool Down	Total
Energizing Fluid:	Nitrogen	(sm3)	21593.0	1894.0	23487.0

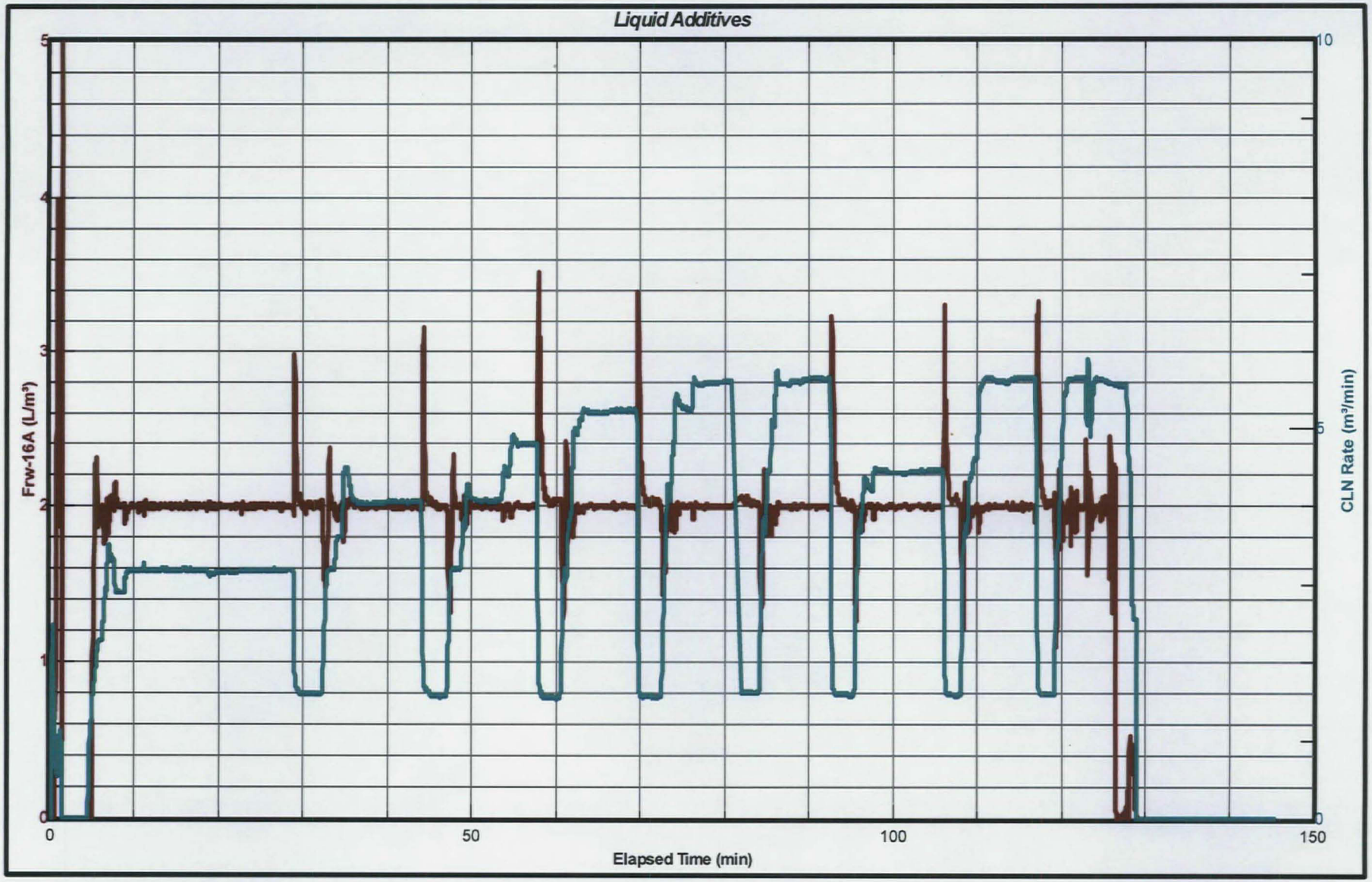
	Blender Fluids (m3)				Energizing Fluid		Down Hole Fluids (m3)		
Total Pumped (m3)	477.0	477.0			21593.0		593.8		
Total In Formation (m3)							562.5		

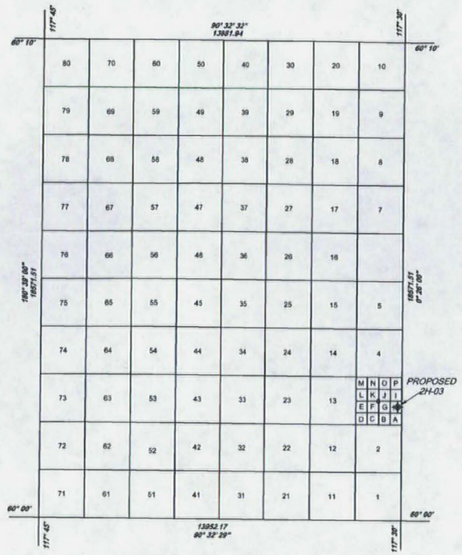
Arrived location: 25-Mar-2011 08:00 Hours
Left location: 25-Mar-2011 16:00 Hours

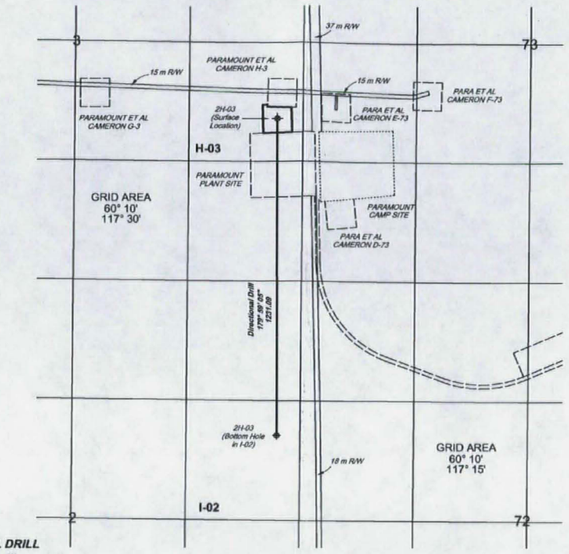
Time	Pressure (Mpa) Casing	Tubing	Clean Volume	Slurry Volume	Slurry Rate	Slurry Conc.	Volume (sm3)	Rate (sm3/min)	Slurry Volume	Sand Conc.	Slurry Rate	Comments
11:31	29.1		40.0	40.0	3.20		2065.00	147.99	51.2		4.00	Pad with Nowferr 1000 15% acid
11:44	29.0		11.3	11.3	3.60		547.00	166.49	14.3		4.50	Displacement with Water
11:47	29.9		40.0	40.0	4.00		1910.00	184.99	50.3		5.00	Pad with Nowferr 1000 15% acid
12:01	31.5		10.0	10.0	4.40		467.00	203.48	12.5		5.50	Displacement with Water
12:04	30.6		40.0	40.0	4.80		1873.00	221.98	50.1		6.00	Pad with Nowferr 1000 15% acid
12:16	26.5		10.0	10.0	5.20		452.00	240.48	12.4		6.50	Displacement with Water
12:18	27.5		40.0	40.0	5.60		1798.00	258.98	49.7		7.00	Pad with Nowferr 1000 15% acid
12:29	29.6		10.0	10.0	6.00		446.00	277.48	12.4		7.50	Displacement with Water
12:31	31.4		40.0	40.0	6.40		1825.00	295.98	49.9		8.00	Pad with Nowferr 1000 15% acid
12:41	27.7		11.4	11.4	6.80		518.00	314.48	14.2		8.50	Displacement with Water
12:43	29.4		40.0	40.0	7.20		1784.00	332.97	49.6		9.00	Pad with Nowferr 1000 15% acid
12:53	28.9		10.0	10.0	7.60		457.00	351.47	12.5		9.50	Displacement with Water
12:54	29.7		40.0	40.0	8.00		1778.00	370.00	49.6		10.00	Pad with Nowferr 1000 15% acid
13:05	31.0		10.0	10.0	8.00		451.00	370.00	12.4		10.00	Displacement with Water
13:07	31.6		40.0	40.0	8.00		1728.00	370.00	49.3		10.00	Pad with Nowferr 1000 15% acid
13:17	29.5		10.0	10.0	8.00		423.00	370.00	12.3		10.00	Displacement with Water
13:19	30.0		44.4	44.4	8.00		1939.00	370.00	54.9		10.00	Pad with Nowferr 1000 15% acid
13:29	27.7		29.9	29.9	8.00		1132.00	370.00	36.0		10.00	Displacement with Water

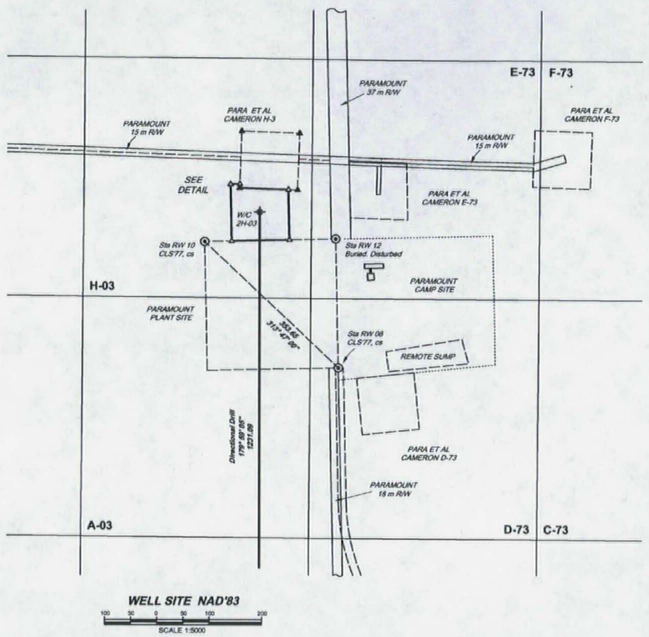
Job Treatment Charts

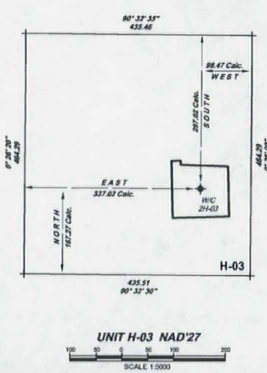


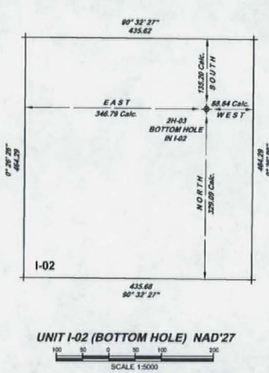

Liquid Additives
Frw-16A (L/m³)
CLN Rate (m³/min)
Elapsed Time (min)
0
1
2
3
4
5
0
5
10
0
50
100
150

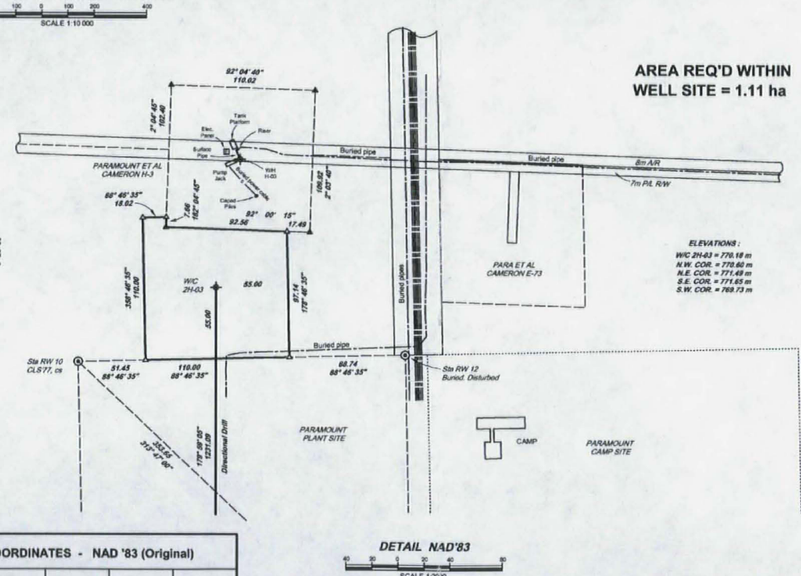












AREA REQ'D WITHIN WELL SITE = 1.11 ha

ELEVATIONS :
W/C 2H-03 = 776.18 m
N.W. COR. = 770.60 m
N.E. COR. = 771.49 m
S.E. COR. = 771.65 m
S.W. COR. = 769.73 m

GEOGRAPHIC AND UTM COORDINATES - NAD '27					GEOGRAPHIC AND UTM COORDINATES - NAD '83 (Original)					
STATION	LATITUDE (N)	LONGITUDE (W)	NORTHING	EASTING	STATION	LATITUDE (N)	LONGITUDE (W)	NORTHING	EASTING	ELEVATION
GRID AREA 60° 10', 117° 30'										
N.E.	60° 10' 00.000"	117° 30' 00.000"	6669871.560	472250.652	RW 08	60° 02' 11.061"	117° 30' 01.505"	6655571.13	472117.30	767.09
N.W.	60° 10' 00.000"	117° 45' 00.000"	6669871.560	472250.652	RW 10	60° 02' 18.904"	117° 30' 18.204"	6655815.70	471862.11	769.09
S.W.	60° 00' 00.000"	117° 45' 00.000"	6670002.854	458165.709						
S.E.	60° 00' 00.000"	117° 30' 00.000"	6651310.016	472110.252	W/C 2H-03	60° 02' 20.780"	117° 30' 11.435"	6655872.94	471967.30	770.18
UNIT H-03					BOTTOM HOLE I-02	60° 01' 41.007"	117° 30' 10.810"	6654642.48	471967.61	
N.E.	60° 02' 30.002"	117° 30' 00.000"	6655950.40	472145.35						
N.W.	60° 02' 30.027"	117° 30' 28.124"	6655954.52	471710.13						
S.W.	60° 02' 15.027"	117° 30' 28.124"	6655490.48	471706.57						
S.E.	60° 02' 15.001"	117° 30' 00.000"	6655486.38	472141.84						
RW 08	60° 02' 10.692"	117° 29' 58.516"	6655352.85	472194.70						
RW 10	60° 02' 18.535"	117° 30' 13.126"	6655597.23	471939.51						
W/C 2H-03	60° 02' 20.411"	117° 30' 06.358"	6655654.47	472044.70						
BOTTOM HOLE I-02	60° 01' 40.639"	117° 30' 05.730"	6654424.00	472045.00						

FINAL COORDINATES WERE CALCULATED IN NAD'83 AND CONVERTED TO NAD'27 USING NATIONAL TRANSFORMATION VERSION 2 PROGRAM

LEGEND

Monument found (Border Monuments) shown thus..... ●
CLS '77 Posts shown thus..... ◎
AlbertaStatutary Iron Post found shown thus..... ●
Alberta Statutary Iron Posts planted shown thus..... ○
Iron Spikes planted shown thus..... △
Calculated Position shown thus..... ■
Exploratory W/C Position shown thus..... ✦
Distances are in metres and decimals thereof.
Portions referred to (Well Site and Access Road) bounded thus..... ——

UTM coordinates are computed for Zone 11, Central Meridian 117° W.
Bearings are UTM and were derived from differentially corrected GPS Observations, and are referred to Meridian 117° W.
Measured distances shown are ground distances, reduced by Combined Scale Factor of 0.999494
Distances on grid area subdivisions are UTM plane. (NAD'27)
Elevations shown are orthometric elevations, based on elevation of Sta. K-19-1 and thus derived from published elevation of Border Monument # 283
All dimensions shown on body of plan are based on NAD 83 (Original) datum.
Refer to Field Book _____ for the survey report pertaining to this project.

CANADA LANDS SURVEYS RECORDS

Date : _____

Plan and Field Notes
of Survey of Directional Drill of
PROPOSED EXPLORATORY WELL
PARA ET AL CAMERON 2H-03
within UNIT H, SECTION 03
GRID AREA 60° 10', 117° 30'
NORTHWEST TERRITORIES
CANADA OIL AND GAS REGULATIONS
EXPLORATORY WELL

THIS SURVEY WAS EXECUTED BETWEEN THE DATES OF OCTOBER 7TH TO OCTOBER 19TH, 2010 BY GREG BOGGS, CLS

CERTIFIED CORRECT AND COMPLETED NOV. 26, 2010.

GREG BOGGS — DATE
CANADA LANDS SURVEYOR

Surveyed for
PARAMOUNT RESOURCES LTD.

SCALE= 1:5000	UNIVERSAL SURVEYS INC. 15111 - 123 Ave - Edmonton, Alberta - Ph: 780-454-3030	UNIVERSAL JOB No.	10-1084
		UNIVERSAL PLAN No.	101084W01
DATE: NOV. 24, 2010		REVISION No :	A

CANADA LANDS SURVEYS RECORDS
CANADA LANDS SURVEYS RECORDS