

IX. Tour sheets – Drilling Rig

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TOUR 1 SIGNATURE OF DRILLER: RICK YAVIS
 START TIME: 0:00 END TIME: 8:00

TOUR 2 SIGNATURE OF DRILLER: MARCUS HALLOWES
 START TIME: 8:00 END TIME: 16:00

TOUR 3 SIGNATURE OF DRILLER: RICK YAVIS
 START TIME: 16:00 END TIME: 24:00

TOUR 1 SIGNATURE OF DRILLER: RICK YAVIS
 START TIME: 0:00 END TIME: 8:00

TOUR 2 SIGNATURE OF DRILLER: MARCUS HALLOWES
 START TIME: 8:00 END TIME: 16:00

TOUR 3 SIGNATURE OF DRILLER: RICK YAVIS
 START TIME: 16:00 END TIME: 24:00

FRONT PAGE SUMMARY										Tool Steel Serial Number		Vendor Software Version		Year	Month	Day	DAILY CHECKS										OP. RM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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FRONT PAGE SUMMARY

License No 1211		Well Name COPRC MIRROR LAKE P-20 65-00 126-45		BEAV2_20140225_1A		Vendor Company Name RMS 2013.8.14.27104		Year 2014		Month 02		Day 25		DAILY CHECKS (1) Daily Well Around Inspection (2) Drilled Inspection - Weekly (Using Check List) (3) GDS Spill Proof if Required (4) HSE Licenses & BSL Diagrams Posted (5) Flow Lines Isolated (6) MSD Data Performed (7) Monthly Inspection SOPs - Flow Lines & Dragger Lines (8) Rig Site Health & Safety Meeting (Underfoot) (9) GAO/DO Rig Safety Inspection Checklist (underfoot) (10) Underfoot Inspection before Hoisting or Lowering (11) Ground Water Checked (12) Underfoot Checked		OP RM R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25							
Operator's Name Conoco Canada				Contractor Beaver Drilling Ltd.				License Number 10351812				License Expiry Date 23-Jan-2014				License Class NT				License Status CLSS			
Signature of Operator's Representative RICHARD TURGEON				Signature of Contractor's Rep/Manager RICK YAVIS				Date 23-Feb-2014				Time 23:59				Location 23-Feb-2014				Location 23:59			

Code 1		Signature of Driller RICK YAVIS		Start Time 0:00		End Time 8:00	
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BITS Bit Number Size IADC Code Manufacturer Type Serial No Job Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date		DRILLING ASSEMBLY No Component OD ID Length 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 Line Size SPM Pressure Hrs Run		DEVIATION SURVEYS Time Depth Deviation Direction Type		TIME LOG From To elapsed Code Details Of Operations In Sequence & Remarks	
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TOUR 2		Signature of Driller MARCUS HALLOWES		Start Time 8:00		End Time 16:00	
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TOUR 3		Signature of	
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FRONT PAGE SUMMARY										Tool Steel Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP. RM																																																																																																																																																								
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BEAV2 20140221_1A										RMS 2013.8.14.27104										Year 2014 Month 02 Day 21										(1) Daily Well Annual Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) CIP Signs Present/Required (4) Well Location & Risk Diagram Posted (5) Flow Lines Shaded (6) RCT Data Performed (7) Visually Inspected BOP-Flow Lines & Degreaser Lines (8) Rig Site Health & Safety Meeting (see Attachment) (9) CAODC Rig Safety Inspection Checklist (see Attachment) (10) Mass Inspection before Flaring or Leveering (11) Check Meter Check (12) Master Well Check										 									
License No 1211 Well Name COPRC MIRROR LAKE P-20 65-00 126-45 Operator Conoco Canada Contractor Beaver Drilling Ltd. Supervisor's Job No 152 Signature of Contractor's Rig Manager RICHARD TURGEON Signature of Contractor's Rig Manager RICK YAMS										Station Location P-20 65-00 126-45 Well Type NT Lease Type CLSS Well Type NT Lease Type CLSS Well Type NT Lease Type CLSS										Start Date Time 29-Jan-2014 00:00 Rig Name/Date Time										Fuel @ 08.00 HRS Fuel 87 Fuel 125 Fuel 06:30 Fuel 40 Fuel CLEAR Fuel N Fuel CALM Fuel GOOD																			
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 Running Coring Card Mod & Cnc Trips Rig Service Repair Rig Out Of Drill Line Dev Survey Wireline Logs Run Cag & Connect Win On Connect Hoist BOP Test BOP Offstream Test Rig Back Service Element Fishing Or Work Safety Meeting Turn Down Waiting On Rig Wash Other										TOTAL 8.00 8.00 8.00 24.00																													
TOUR 1 SIGNATURE OF DRILLER CURTIS DAY										START TIME 0:00										END TIME 8:00																													
BITS Bit Number Size IADC Code Manufacturer Type Serial No Jct Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date										DRILLING ASSEMBLY No. Component ID ID Length Mud Type Water ☒ Oil ☐ Other Time 02:30 03:30 Density 1135 1135 Funnel Viscosity 130 130 Fluid Loss pH Location Of Sample Depth 3155.00 3155.00 PVT 37 37 Circulation Pump # Type Unit Size SPM Pressure Hrs Run 2 SINGLE 127 75 3900 2.00										MUD RECORD Mud Type Water ☒ Oil ☐ Other Time 02:30 03:30 Density 1135 1135 Funnel Viscosity 130 130 Fluid Loss pH Location Of Sample Depth 3155.00 3155.00 PVT 37 37 Circulation Pump # Type Unit Size SPM Pressure Hrs Run 2 SINGLE 127 75 3900 2.00										DEVIATION SURVEYS Time Depth Deviation Direction Type 0:00 0:15 0.25 7 0:15 3:30 3.25 6A 3:30 6:00 2.50 5 6:00 6:15 0.25 21 6:15 7:45 1.50 12 7:45 8:00 0.25 21										TIME LOG From To Elapsed Code 0:00 0:15 0.25 7 0:15 3:30 3.25 6A 3:30 6:00 2.50 5 6:00 6:15 0.25 21 6:15 7:45 1.50 12 7:45 8:00 0.25 21									
CUTTING STRUCTURE To OGC Mud Weight of DC Weight of String REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 8.00 11 450 2 8.00 11 450										BOILER BoilerNo HoursRun pH StackTemp 1 8.00 11 450 2 8.00 11 450										DETAILS OF OPERATIONS IN SEQUENCE & REMARKS Rig service function test rig smart anti-collision system, function test crown saver function test pipe rams 8 seconds close open, grease all moving parts, check oil levels in floor motor, pumps and HPU Run in hole slow with drill pipe and HWDP on 114.3mm, 17.28kg/m, P-110, LTC production casing liner, packer hanger Fill hole break circulation, circulate and clean hole Safety meeting on cementing with Schlumberger prior to cementing 114.3mm production liner Rig up Schlumberger cementers to cement 114.3mm production liner, pump 6m3 of 1000kg/m3 CWB pre-flush, stop and pressure test lines to 35,000kpa (held OK), bleed off pressure, pump 5m3 of 1200kg/m3 MUDPUSH II pre-flush spacer Crew handover meeting, Conoco reps and tool push present, daily walk around rig inspection RT																													
TOUR 2 SIGNATURE OF DRILLER MARCUS HALLOWES										START TIME 8:00										END TIME 16:00																													
BITS Bit Number Size IADC Code Manufacturer Type Serial No Jct Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date										DRILLING ASSEMBLY No. Component ID ID Length Mud Type Water ☒ Oil ☐ Other Time 02:30 03:30 Density 1135 1135 Funnel Viscosity 130 130 Fluid Loss pH Location Of Sample Depth 3155.00 3155.00 PVT 37 37 Circulation Pump # Type Unit Size SPM Pressure Hrs Run 2 SINGLE 127 75 3900 2.00										MUD RECORD Mud Type Water ☒ Oil ☐ Other Time 02:30 03:30 Density 1135 1135 Funnel Viscosity 130 130 Fluid Loss pH Location Of Sample Depth 3155.00 3155.00 PVT 37 37 Circulation Pump # Type Unit Size SPM Pressure Hrs Run 2 SINGLE 127 75 3900 2.00										DEVIATION SURVEYS Time Depth Deviation Direction Type 8:00 10:15 2.25 12 10:15 10:45 0.50 6F 10:45 11:00 0.25 7 11:00 16:00 5.00 6F										TIME LOG From To Elapsed Code 8:00 10:15 2.25 12 10:15 10:45 0.50 6F 10:45 11:00 0.25 7 11:00 16:00 5.00 6F									
CUTTING STRUCTURE To OGC Mud Weight of DC Weight of String REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 8.00 11 450 2 8.00 11 450										BOILER BoilerNo HoursRun pH StackTemp 1 8.00 11 450 2 8.00 11 450										DETAILS OF OPERATIONS IN SEQUENCE & REMARKS Pump 20 tonne/14.7m3 (20% excess) of 1900kg/m3 Conventional Class "G" Tait Cement with 0.6% Fluid Loss + 0.5% Dispersant + 0.2% Retarder + 72L/tonne Gas Control Agent, from 3148.70mMD to 1727.48mMD. Drop dart and displace 19.8m3 of fresh water. Bump plug 3,500kpa over final circulating pressure of 19,200kpa at 09:05 Hrs. February 21 2014. Bleed off pressure (floats held OK), pressure up to 28,000kpa and set liner top packer at 1727.48mMD, circulate out pre-flush and 2m3 of excess cement, displace hole with fresh water. Rig out cementers, flow check Safety meeting with boiler pipe handlers, rig up Laydown truck Rig service function test rig smart anti-collision system, function test crown saver function test Hydril 23 seconds close open, grease all moving parts, check oil levels in floor motor, pumps and HPU Rig up lay down truck, lay down drill pipe and heavy weight drill pipe, run in the rest of drill pipe in the derrick, lay down drill pipe																													
TOUR 3 SIGNATURE OF DRILLER CURTIS DAY										START TIME 16:00										END TIME 24:00																													
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CUTTING STRUCTURE To OGC Mud Weight of DC Weight of String REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 8.00 11 450 2 8.00 11 450										BOILER BoilerNo HoursRun pH StackTemp 1 8.00 11 450 2 8.00 11 450										DETAILS OF OPERATIONS IN SEQUENCE & REMARKS Rig service function test rig smart anti-collision system function test blind rams 8 seconds close open check fluids on floor motor and HPU open Lay down truck to run USIT log and pressure USIT log Pull rotary table wash and clean invert out of table and bushings Crew handover meeting, Conoco reps and tool push present, daily walk around rig inspection OJO Clean up floor, clean out invert from bird baths Tear out and clean flow line, flow nipple, rig out and clean catch can, clean ring seal seat and bolt holes in top of BOP for installing pressure stripper head for Pressure USIT log																													

FRONT PAGE SUMMARY										TOUR SHEET SUMMARY										DAILY CHECKS										OP RM																			
License No: 1211 Well Name: COPRC MIRROR LAKE P-20 65-00 126-45 Operator: Conoco Canada Operator's A/E: 10351812 Signature of Operator's Representative: RICHARD TURGEON 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										Tour Sheet Serial Number: BEAVZ 20140220 1A Section Location: P-20 65-00 126-45 Contractor: Beaver Drilling Ltd. Contractor's Job No: 152 Signature of Contractor's Rig Manager: RICK YAMIS Date: 29-Jan-2014 Time: 00:00										RMS 2013.8.14.27104 Year: 2014 Month: 02 Day: 20 P/N: NT Class: CLSS Rig No: 2 Well Type:										(1) Daily Visual Annual Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) LBS Bore Product of Regularity (4) Well License & Prod. Diagram Posted (5) Flow Line Isolated (6) BOP Tests Performed (7) Visually Inspected BOPs-Flow Lines & Degasser Lines (8) Rig Site Hazards & Safety Meeting (Include meeting notes) (9) LBSOD Rig Safety Inspection Checklist (see Appendix) (10) LBSOD Inspection on Safety Rating or Licensing (11) LBSOD Safety Checklist (12) LBSOD Safety Checklist										 									
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Well Name: 1211 COPRO MIRROR LAKE P-20 65-00 126-45 Operator: Conoco Canada Operator's Ref: 10351812 Signature Of Operator's Representative: RICHARD TURGEON															BEAV20 20140205 1A Surface Location: P-20-65-00-126-45 Contractor: Beaver Drilling Ltd. Contractor's Job No: 152 Signature Of Contractor's Representative: RICK YAVIS										RMS 2013.8.14.27104 Log Type: NT Log Class: CLSS Log Date: 29-Jan-2014 Log Time: 00:00										OP RM (1) Daily Wellhead Inspection (2) Daily Wellhead Inspection - Weekly (Using Check List) (3) 125 Bar Pressure Test (Using Check List) (4) Wellbore & Casing Diagrams (5) Flow Line Diagram (6) BOP Diagram (7) BOP Diagram (8) BOP Diagram (9) BOP Diagram (10) BOP Diagram (11) BOP Diagram (12) BOP Diagram (13) BOP Diagram (14) BOP Diagram (15) BOP Diagram (16) BOP Diagram (17) BOP Diagram (18) BOP Diagram (19) BOP Diagram (20) BOP Diagram (21) BOP Diagram (22) BOP Diagram (23) BOP Diagram (24) BOP Diagram (25) BOP Diagram									
TRIP 1 Signature Of Driller: MARCUS HALLOWES															START TIME: 0:00 END TIME: 8:00										FUEL @ 08.00 HRS 150 180 25 8.00 8.00 24.00																			
TRIP 2 Signature Of Driller: BRIAN BERGSETH															START TIME: 8:00 END TIME: 16:00										FUEL @ 08.00 HRS 150 180 25 8.00 8.00 24.00																			
TRIP 3 Signature Of Driller: MARCUS HALLOWES															START TIME: 16:00 END TIME: 24:00										FUEL @ 08.00 HRS 150 180 25 8.00 8.00 24.00																			

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Operator Canoco Canada										Contractor Beaver Drilling Ltd.										Contractor's Job No 152										Contractor's Rig Manager RICK YAVIS										Rig Name										Rig Type										Rig Class										Rig Status										Rig Remarks									
Operator's A/E 10351812										Signature Of Operator's Representative RICHARD TURGEON										Signature Of Contractor's Rig Manager RICK YAVIS										Rig Name										Rig Type										Rig Class										Rig Status										Rig Remarks																			
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License No: 1211 Well Name: COPRC MIRROR LAKE P-20 Operator: Conoco Canada Contractor: Beaver Drilling Ltd. Operator's A/E: 10351612 Signature of Operator's Representative: DAVE OPPER Signature of Contractor's Rig Manager: RICK YAVIS															BEAV2_20140128_1A		RMS 2013.8.14.27104		2014		01		28		(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) UDS Sign Posted if Required (4) VMI License & Block Diagram Posted (5) Flow Line Isolated (6) BOP Dike Patched (7) VMI Inspected BOP Pre-Flare Lines & Discharge Unit (8) Rig Site Health & Safety Meeting (see Appendix) (9) CACDC Rig Safety Inspection Checklist (see Appendix) (10) Mast Inspection before Raising or Lowering (11) Crown Lifter Checked (12) Under Kite Checked										 																																																																																																																																	
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