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License No: 32316 Well Name: ARCRE HZ PARKLAND A12-07-081-16 Contractor: Beaver Drilling Ltd. Operator's #FF: 17DR0008 Signature of Operator's Representative: Dan Meyer Signature of Contractor's Rig Manager: Shaun Low										Tour Sheet Serial Number: BEAV15AC 20170101 2A Surface Location: 12-7-81-16 W6 Prov: BC Loc Type: DLS Unique Well Id: 104/04-13-081-17W6/00 Rig No: 15AC Well Type: HORIZ Spud Date Time: 01-Jan-2017 13:00										RMS 2016.6.14.37064 Year: 2017 Month: 01 Day: 01 (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 Sealed (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (1) Rig Site Health & Safety Meeting (once/week/month) (2) CADC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Mast Kicks Checked		 																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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TOUR: 1	SIGNATURE OF DRILLER: Stefan Polny	START TIME: 0:00	END TIME: 8:00
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BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG			
Bit Number	Size	No	Component	OD	ID	Length	Mud Type	Water	Oil		
IADC Code	Manufacturer	Type	Serial No	Jars	Depth Out (m)	Depth In (m)	Total Drilled (m)	Hrs Run Today	Cumulative Hrs Run		
Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date		
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		BOILER		SAFETY			
TO: Gage MDC: ODC LOC: Reason Pulled BSG: Total Run (h): Weight of DC: Weight of String:		Kelly Down: Total Weight of DC: Weight of String:		Pump # Pressure Strokes/min Depth Hole Drag Up Down Torque At Bottom @ @ Fill On Bottom @ @		Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Humalite 12 SXS TKPP 2 SXS Sawdust 75 SXS EnerPac Regular 1 SXS Bentonite Natural Gel 8 SXS		From To Elapsed Code 7:00 7:30 0.50 21D Crew hand-over meeting. Discuss hazard id's & daily events. 7:30 8:00 0.50 21F Review JSA & visually inspect rig prior to walking to next well.		Details Of Operations In Sequence & Remarks Review JSA & visually inspect rig prior to walking to next well.	

TOUR: 2	SIGNATURE OF DRILLER: Jordan Cawsey	START TIME: 8:00	END TIME: 16:00
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BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG			
Bit Number	Size	No	Component	OD	ID	Length	Mud Type	Water	Oil		
IADC Code	Manufacturer	Type	Serial No	Jars	Depth Out (m)	Depth In (m)	Total Drilled (m)	Hrs Run Today	Cumulative Hrs Run		
Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date		
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		BOILER		SAFETY			
TO: Gage MDC: ODC LOC: Reason Pulled BSG: Total Run (h): Weight of DC: Weight of String:		Kelly Down: Total Weight of DC: Weight of String:		Pump # Pressure Strokes/min Depth Hole Drag Up Down Torque At Bottom @ @ Fill On Bottom @ @		Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Humalite 12 SXS TKPP 2 SXS Sawdust 75 SXS EnerPac Regular 1 SXS Bentonite Natural Gel 8 SXS		From To Elapsed Code 8:00 10:00 2.00 1A Walk Beaver Rig#15AC 10m from B12-07-081-16W6M to A12-07-081-15W6M. 10:00 11:30 1.50 1 Rig up Beaver Rig#15AC to Spud. Add a suitcase, adjust all suitcases & cable festoon. Rig up PipeCat & casing racks for drilling operations. Rig up cellar trash pumps & circulating system. Install mat under catch tank & spot shale bin. Prepare rig floor for drilling operations. 11:30 11:45 0.25 21F Pre-Spud rig inspection, hazard hunt & correct all deficiencies. 11:45 12:00 0.25 21D Pre-Spud safety meeting. Discussed ERP & stick diagram. STARS site# 3187. 12:00 12:15 0.25 21D Safety meeting & review JSA with Dynamic directional drilling. 12:15 13:00 0.75 20D Handle Dynamic directional tools. Make up PDC Bit #1A. Break monels & install MWD tool. Warm up Top Drive, mudline & BHA with steam. 13:00 14:00 1.00 2 Spud in with 279mm PDC Sicotte Bit #1A. Drill 279mm Surface hole from 6.6m to 233m MD. Pump Rate: 3.3m3/min, Rotary: 170 RPM, WOB: 10 kdaN, Pump Pressure: 22,000 kPa. Torque: 9,000 f/lbs, Diff Pressure: 3,500 kPa. 14:00 14:30 0.50 7 Rig & Top Drive Service. Function test Rig Smart crown saver, MCWS, ZMS, high & low travel stops / limits, ok. Performed level 1 visual inspection of mast and all over-head equipment, ok. Greased hydraulic LBOP and functioned manual Kelly cock. Performed visual inspection and service of PS-21 hydraulic slips and inserts, ok. 14:30 16:00 1.50 20A Accumulated MWD survey & connection time.		Details Of Operations In Sequence & Remarks Walk Beaver Rig#15AC 10m from B12-07-081-16W6M to A12-07-081-15W6M. Rig up Beaver Rig#15AC to Spud. Add a suitcase, adjust all suitcases & cable festoon. Rig up PipeCat & casing racks for drilling operations. Rig up cellar trash pumps & circulating system. Install mat under catch tank & spot shale bin. Prepare rig floor for drilling operations. Pre-Spud rig inspection, hazard hunt & correct all deficiencies. Pre-Spud safety meeting. Discussed ERP & stick diagram. STARS site# 3187. Safety meeting & review JSA with Dynamic directional drilling. Handle Dynamic directional tools. Make up PDC Bit #1A. Break monels & install MWD tool. Warm up Top Drive, mudline & BHA with steam. Spud in with 279mm PDC Sicotte Bit #1A. Drill 279mm Surface hole from 6.6m to 233m MD. Pump Rate: 3.3m3/min, Rotary: 170 RPM, WOB: 10 kdaN, Pump Pressure: 22,000 kPa. Torque: 9,000 f/lbs, Diff Pressure: 3,500 kPa. Rig & Top Drive Service. Function test Rig Smart crown saver, MCWS, ZMS, high & low travel stops / limits, ok. Performed level 1 visual inspection of mast and all over-head equipment, ok. Greased hydraulic LBOP and functioned manual Kelly cock. Performed visual inspection and service of PS-21 hydraulic slips and inserts, ok. Accumulated MWD survey & connection time.	

TOUR: 3	SIGNATURE OF DRILLER: Stefan Polny	START TIME: 16:00	END TIME: 24:00
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BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG			
Bit Number	Size	No	Component	OD	ID	Length	Mud Type	Water	Oil		
IADC Code	Manufacturer	Type	Serial No	Jars	Depth Out (m)	Depth In (m)	Total Drilled (m)	Hrs Run Today	Cumulative Hrs Run		
Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date	Entry Date		
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		BOILER		SAFETY			
TO: Gage MDC: ODC LOC: Reason Pulled BSG: Total Run (h): Weight of DC: Weight of String:		Kelly Down: Total Weight of DC: Weight of String:		Pump # Pressure Strokes/min Depth Hole Drag Up Down Torque At Bottom @ @ Fill On Bottom @ @		Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Humalite 12 SXS TKPP 2 SXS Sawdust 75 SXS EnerPac Regular 1 SXS Bentonite Natural Gel 8 SXS		From To Elapsed Code 16:00 17:00 1.00 2 Drill 279mm Surface hole from 233m to 459m MD. Pump Rate: 3.3m3/min, Rotary: 170 RPM, WOB: 10 kdaN, Pump Pressure: 30,000 kPa. Torque: 15,000 f/lbs, Diff Pressure: 4,500 kPa. 17:00 18:45 1.75 20A Accumulated MWD survey & connection time. 18:45 19:00 0.25 5D Circulate and condition well prior to wiper trip. 19:00 19:30 0.50 20D Crew hand-over & safety discussion. Discuss hazard id's and daily events. 19:30 22:15 2.75 6M Review JSA. Wiper trip out of hole from 459m to 91m MD @ 30m/min (Back ream bridge at 189m MD). Trip in hole from 91m to 459m MD @ 30m/min (Wash & clean at 136m, & 231m. Wash to bottom from 251m). 22:15 23:00 0.75 5D Circulate and condition well prior to pulling out to run surface casing. Review JSA. 23:00 24:00 1.00 6B Trip out of hole from 459m to 114m MD @ 30m/min.		Details Of Operations In Sequence & Remarks Drill 279mm Surface hole from 233m to 459m MD. Pump Rate: 3.3m3/min, Rotary: 170 RPM, WOB: 10 kdaN, Pump Pressure: 30,000 kPa. Torque: 15,000 f/lbs, Diff Pressure: 4,500 kPa. Accumulated MWD survey & connection time. Circulate and condition well prior to wiper trip. Crew hand-over & safety discussion. Discuss hazard id's and daily events. Review JSA. Wiper trip out of hole from 459m to 91m MD @ 30m/min (Back ream bridge at 189m MD). Trip in hole from 91m to 459m MD @ 30m/min (Wash & clean at 136m, & 231m. Wash to bottom from 251m). Circulate and condition well prior to pulling out to run surface casing. Review JSA. Trip out of hole from 459m to 114m MD @ 30m/min.	

TOUR: 4	SIGNATURE OF DRILLER: Stefan Polny	START TIME: 24:00	END TIME: 00:00
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FRONT PAGE SUMMARY										DAILY CHECKS										OP RM																																																																																																																																																						
License No: 32316 Well Name: ARCREES HZ PARKLAND A12-07-081-16 Tour Sheet Serial Number: BEAV15AC 20170318 1A Vendor Software Version: RMS 2016.6.14.37064 Year: 2017 Month: 03 Day: 18										(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) HSE Signs Posted if Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Staked (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (once/monthly) (9) CADC Rig Safety Inspection Checklist (weekly/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Block Checked (12) Motor Vibs Checked										 																																																																																																																																																						
Contractor: Beaver Drilling Ltd. Operator's Name: 17DR10008 Signature of Operator's Representative: Dean Boehnert Signature of Contractor's Rig Manager: Luke Hardy										BC DLS 15AC HORIZ Spool Date Time: 01-Jan-2017 Rig Release Date Time: 13:00																																																																																																																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Code</th> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>19</th><th>20</th><th>21</th><th>22</th><th>23</th><th>24</th><th>25</th> <th>Other</th> <th>TOTAL</th> <th>FUEL @ 08:00 HRS</th> </tr> </thead> <tbody> <tr> <td>Tour 1</td> <td>5.25</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.75</td><td></td><td></td><td></td><td></td><td></td><td>1.00</td><td></td><td></td><td></td><td></td> <td>8.00</td> <td>13872</td> <td>6750</td> </tr> <tr> <td>Tour 2</td> <td></td><td></td><td></td><td></td><td></td><td>1.00</td><td>0.50</td><td></td><td>0.75</td><td></td><td></td><td></td><td></td><td>1.25</td><td>2.00</td><td></td><td></td><td></td><td></td><td>0.75</td><td>1.50</td><td></td><td></td><td></td><td>0.25</td> <td>8.00</td> <td>06:00</td> <td>-12</td> </tr> <tr> <td>Tour 3</td> <td></td><td></td><td>5.25</td><td></td><td>0.25</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.00</td><td>0.50</td><td></td><td></td><td></td><td></td> <td>8.00</td> <td></td> <td></td> </tr> <tr> <td>TOTAL</td> <td>5.25</td><td>5.25</td><td></td><td></td><td>0.25</td><td>1.00</td><td>0.50</td><td></td><td>0.75</td><td></td><td></td><td></td><td></td><td>3.00</td><td>2.00</td><td></td><td></td><td></td><td></td><td>2.75</td><td>3.00</td><td></td><td></td><td></td><td>0.25</td> <td>24.00</td> <td></td> <td></td> </tr> </tbody> </table>																										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	Other	TOTAL	FUEL @ 08:00 HRS	Tour 1	5.25														1.75						1.00					8.00	13872	6750	Tour 2						1.00	0.50		0.75					1.25	2.00					0.75	1.50				0.25	8.00	06:00	-12	Tour 3			5.25		0.25															2.00	0.50					8.00			TOTAL	5.25	5.25			0.25	1.00	0.50		0.75					3.00	2.00					2.75	3.00				0.25	24.00		
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	Other	TOTAL	FUEL @ 08:00 HRS																																																																																																																																														
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BITS Bit Number: 2 Size: 200 IADC Code: 1 Manufacturer: Baker Hughes Type: TX23988R Serial No: 7162364 JMS: 7.94 7.94 7.94 Depth Out (m): 7.94 7.94 7.94 Depth In (m): 459.00 Total Drilled (m): 0.00 Hrs Run Today: 0.00 Cumulative Hrs Run: 0.00 Entry Date: 18-Mar-2017										DRILLING ASSEMBLY No: 1 Component: 200mm PDC Bit OD: 200 ID: 165 Length: 1.824 1 6.5" Sealed 78 5.9 STG 165 1.824 1 Slick NMDC 167 72 9.27 1 165mm Gap Sub 164 79 1.72 2 Slick NMDC 167 72 18.12 1 4H90 x 4.5XH X/O 167 63 0.73 6 1/2" Drill Collar 167 59 56.34 1 4H90 x DS40 X/O 163 58 0.79 2 4" CDS40 HWDP 101 65 18.90 1 Jars 165 66 4.95 34 4" CDS40 HWDP 101 65 32.22										MUD RECORD Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other Time: 13:00 Density: 1165 Funnel Viscosity: 32 Fluid Loss: 10 pH: 10 Location Of Sample: Suction Depth: 459.00 PVT: 60.36 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 1 0 0.00 2 SINGLE 127 1 0 0.00										DEVIATION SURVEYS Time Depth Deviation Direction Type 0:00 0:30 0.50 21F Review JSA & visually inspect rig prior to walking to next well. 0:30 4:00 3:50 1A Walk Beaver Rig #15AC 10m from 12-07-081-16W6M to A12-07-081-16W6M. 4:00 5:45 1:75 1 Install well head on casing bowl for well 12-07-081-16W6M with Cameron. Rig up Beaver Rig #15AC on Well A12-07-081-16W6M. Adjust suitcases & cable festoon. Rig up PipeCat for drilling operations. Spot flare tank & rig up flare lines. Install mat under catch tank & spot shale bin. Install escape line & cement anchor. 5:45 7:30 1:75 14A Review JSA. Nipple up Schaffer 13 5/8" BOP's & all related equipment. 7:30 8:00 0:50 21D Crew hand-over meeting. Discuss hazard id's & daily hazards.										TIME LOG From To Elapsed Code 0:00 0:30 0:50 21F 0:30 4:00 3:50 1A 4:00 5:45 1:75 1 5:45 7:30 1:75 14A 7:30 8:00 0:50 21D						Details Of Operations In Sequence & Remarks Review JSA & visually inspect rig prior to walking to next well. Walk Beaver Rig #15AC 10m from 12-07-081-16W6M to A12-07-081-16W6M. Install well head on casing bowl for well 12-07-081-16W6M with Cameron. Rig up Beaver Rig #15AC on Well A12-07-081-16W6M. Adjust suitcases & cable festoon. Rig up PipeCat for drilling operations. Spot flare tank & rig up flare lines. Install mat under catch tank & spot shale bin. Install escape line & cement anchor. Review JSA. Nipple up Schaffer 13 5/8" BOP's & all related equipment. Crew hand-over meeting. Discuss hazard id's & daily hazards.																																																																																																																												
CUTTING STRUCTURE TO: 10 MDC: 10 LOC: 10 BSG: 10										HOLE CONDITION Kelly Down: Total Weight of DC: 24.00 Weight of String: 29.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 8.00 10.5 450 2 8.00 10.5 450										BOILER BoilerNo HoursRun pH StackTemp 1 8.00 10.5 450 2 8.00 10.5 450						SAFETY Safety Topic MEHL MACP Walking the rig.																																																																																																																																						
TOUR 2										SIGNATURE OF DRILLER: Justin Holt										START TIME: 8:00		END TIME: 16:00																																																																																																																																																				
BITS Bit Number: 2 Size: 200 IADC Code: 1 Manufacturer: Baker Hughes Type: TX23988R Serial No: 7162364 JMS: 7.94 7.94 7.94 Depth Out (m): 7.94 7.94 7.94 Depth In (m): 459.00 Total Drilled (m): 0.00 Hrs Run Today: 0.00 Cumulative Hrs Run: 0.00 Entry Date: 18-Mar-2017										DRILLING ASSEMBLY No: 1 Component: 200mm PDC Bit OD: 200 ID: 165 Length: 1.824 1 6.5" Sealed 78 5.9 STG 165 1.824 1 Slick NMDC 167 72 9.27 1 165mm Gap Sub 164 79 1.72 2 Slick NMDC 167 72 18.12 1 4H90 x 4.5XH X/O 167 63 0.73 6 1/2" Drill Collar 167 59 56.34 1 4H90 x DS40 X/O 163 58 0.79 2 4" CDS40 HWDP 101 65 18.90 1 Jars 165 66 4.95 34 4" CDS40 HWDP 101 65 32.22										MUD RECORD Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other Time: 13:00 Density: 1165 Funnel Viscosity: 32 Fluid Loss: 10 pH: 10 Location Of Sample: Suction Depth: 459.00 PVT: 60.36 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 1 0 0.00 2 SINGLE 127 1 0 0.00										DEVIATION SURVEYS Time Depth Deviation Direction Type 8:00 9:15 1:25 14A Review JSA. Nipple up Schaffer 13 5/8" 5000# BOP's & all related equipment. 9:15 9:30 0:25 21D JSA review & safety meeting with Semerra prior to pressure testing. 9:30 11:00 1:50 15A Pressure test Schaffer 13 5/8" 5000# BOP's & all related equipment with Semerra. Pick up 1 - joint of 4FH & make up cup tester. Pressure test upper Pipe Rams, Upper & lower manual HCR valves, casing bowl & casing bowl valves, to 1,000kPa low & 21,000kPa high. held each test for 10 minutes. ok. 11:00 11:30 0:50 15B Perform Accumulator function test; Start pressure 19,000. Remaining pressure after 4 functions 11,500. Recharge time of Accumulator pump #2, 2 minutes & 34 seconds. Precharge pressure 7,000. 6 x Nitrogen back up bottles with an average pressure of 16,458kPa. Remove cup tester. 11:30 11:45 0:25 25 Set wear bushing @ 6.6m MD. 11:45 12:30 0:75 9A Reviewed JSA. Slip & cut 36.96m of drilling line @ 13363.2 mJ. Deadman anchor bolts retorqued to 360 ft/lbs. Performed full block height calibration. Brake capacity test. ok. Greased Crown & Travelling Blocks. 12:30 13:00 0:50 7 Rig & Top Drive service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS, ZMS. Serviced hydraulic 1-BOP. Visual inspection & service of PS-21 slips & inserts. Functioned Blind Rams, 6 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all overhead equipment. Completed Pre-shift fall protection inspection/equipment visual inspection. Visual inspection of BOP & valves completed by Luke Hardy & Dean Boehnert. 13:00 13:15 0:25 21F Pre-drill out safety inspection, hazard hunt with Beaver & Arc representatives.										TIME LOG From To Elapsed Code 8:00 9:15 1:25 14A 9:15 9:30 0:25 21D 9:30 11:00 1:50 15A 11:00 11:30 0:50 15B 11:30 11:45 0:25 25 11:45 12:30 0:75 9A 12:30 13:00 0:50 7 13:00 13:15 0:25 21F						Details Of Operations In Sequence & Remarks Review JSA. Nipple up Schaffer 13 5/8" 5000# BOP's & all related equipment. JSA review & safety meeting with Semerra prior to pressure testing. Pressure test Schaffer 13 5/8" 5000# BOP's & all related equipment with Semerra. Pick up 1 - joint of 4FH & make up cup tester. Pressure test upper Pipe Rams, Upper & lower manual HCR valves, casing bowl & casing bowl valves, to 1,000kPa low & 21,000kPa high. held each test for 10 minutes. ok. Perform Accumulator function test; Start pressure 19,000. Remaining pressure after 4 functions 11,500. Recharge time of Accumulator pump #2, 2 minutes & 34 seconds. Precharge pressure 7,000. 6 x Nitrogen back up bottles with an average pressure of 16,458kPa. Remove cup tester. Set wear bushing @ 6.6m MD. Reviewed JSA. Slip & cut 36.96m of drilling line @ 13363.2 mJ. Deadman anchor bolts retorqued to 360 ft/lbs. Performed full block height calibration. Brake capacity test. ok. Greased Crown & Travelling Blocks. Rig & Top Drive service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS, ZMS. Serviced hydraulic 1-BOP. Visual inspection & service of PS-21 slips & inserts. Functioned Blind Rams, 6 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all overhead equipment. Completed Pre-shift fall protection inspection/equipment visual inspection. Visual inspection of BOP & valves completed by Luke Hardy & Dean Boehnert. Pre-drill out safety inspection, hazard hunt with Beaver & Arc representatives.																																																																																																																												
CUTTING STRUCTURE TO: 10 MDC: 10 LOC: 10 BSG: 10										HOLE CONDITION Kelly Down: Total Weight of DC: 24.00 Weight of String: 29.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 8.00 10.5 450 2 8.00 10.5 450										BOILER BoilerNo HoursRun pH StackTemp 1 8.00 10.5 450 2 8.00 10.5 450						SAFETY Safety Topic MEHL MACP Driving Home Long Change.																																																																																																																																						
TOUR 3										SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 16:00		END TIME: 24:00																																																																																																																																																				
BITS Bit Number: 2 Size: 200 IADC Code: 1 Manufacturer: Baker Hughes Type: TX23988R Serial No: 7162364 JMS: 7.94 7.94 7.94 Depth Out (m): 7.94 7.94 7.94 Depth In (m): 459.00 Total Drilled (m): 300.00 Hrs Run Today: 5.25 Cumulative Hrs Run: 5.25 Entry Date: 18-Mar-2017										DRILLING ASSEMBLY No: 1 Component: 200mm PDC Bit OD: 200 ID: 165 Length: 1.824 1 6.5" Sealed 78 5.9 STG 165 1.824 1 Slick NMDC 167 72 9.27 1 165mm Gap Sub 164 79 1.72 2 Slick NMDC 167 72 18.12 1 4H90 x 4.5XH X/O 167 63 0.73 6 1/2" Drill Collar 167 59 56.34 1 4H90 x DS40 X/O 163 58 0.79 2 4" CDS40 HWDP 101 65 18.90 1 Jars 165 66 4.95 46 4" CDS40 HWDP 101 65 32.22										MUD RECORD Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other Time: 18:00 19:45 Density: 1145 1145 Funnel Viscosity: 30 31 Fluid Loss: 0 0 pH: 10.5 11.5 Location Of Sample: Suction Suction Depth: 495.95 556.00 PVT: 40.41 52.54 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 127 105 24000 8.00 2 127 105 24000 8.00										DEVIATION SURVEYS Time Depth Deviation Direction Type 18:15 483.50 0.60 234.3 DIRECTIONAL 19:00 526.84 3.00 276.8 DIRECTIONAL 19:45 540.28 4.50 280.4 DIRECTIONAL 20:15 569.42 5.00 285.7 DIRECTIONAL 21:00 598.56 5.40 294.4 DIRECTIONAL 21:15 627.67 3.80 295.7 DIRECTIONAL										TIME LOG From To Elapsed Code 16:00 17:00 1.00 2C Drill out cement from 436m to 459m MD. Float at 446m & shoe at 459m MD. Pump Rate - 1.2 m3/min, WOB - 3 kdaN, Rotary - 30 RPM. 17:00 17:15 0:25 5C Displace wellbore from H20 to 1140 kg/m3 CaCl brine. 17:15 19:00 1:75 2 Drill vertical section of 200mm main hole from 459m to 527m MD. Pump Rate - 1.8m3/min, WOB - 13 kdaN, Rotary - 70 RPM, Pump Pressure - 15,500 kPa, Torque - 4,000 ft/lbs, Diff Pressure - 4,000 kPa. 19:00 19:30 0:50 21 Crew hand-over meeting. Discuss hazard id's & daily events. 19:30 22:00 2:50 2 Drill vertical section of 200mm main hole from 527m to 759m MD. Pump Rate - 2.2m3/min, WOB - 14.5 kdaN, Rotary - 70 RPM, Pump Pressure - 24,000 kPa, Torque - 6,000 ft/lbs, Diff Pressure - 4,500 kPa. 22:00 24:00 2:00 20A Accumulated EMI survey & connection time.						Details Of Operations In Sequence & Remarks Drill out cement from 436m to 459m MD. Float at 446m & shoe at 459m MD. Pump Rate - 1.2 m3/min, WOB - 3 kdaN, Rotary - 30 RPM. Displace wellbore from H20 to 1140 kg/m3 CaCl brine. Drill vertical section of 200mm main hole from 459m to 527m MD. Pump Rate - 1.8m3/min, WOB - 13 kdaN, Rotary - 70 RPM, Pump Pressure - 15,500 kPa, Torque - 4,000 ft/lbs, Diff Pressure - 4,000 kPa. Crew hand-over meeting. Discuss hazard id's & daily events. Drill vertical section of 200mm main hole from 527m to 759m MD. Pump Rate - 2.2m3/min, WOB - 14.5 kdaN, Rotary - 70 RPM, Pump Pressure - 24,000 kPa, Torque - 6,000 ft/lbs, Diff Pressure - 4,500 kPa. Accumulated EMI survey & connection time.																																																																																																																												
CUTTING STRUCTURE TO: 10 MDC: 10 LOC: 10 BSG: 10										HOLE CONDITION Kelly Down: Total Weight of DC: 24.00 Weight of String: 51.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 2200 60 759.00 2 2200 60 759.00										BOILER BoilerNo HoursRun pH StackTemp 1 8.00 10.5 450 2 8.00 10.5 450						SAFETY Safety Topic MEHL MACP Brine Exposure																																																																																																																																						

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Signatures of Operator's Representative															Signature of Contractor's Rig Manager					Rig Release Date/Time																					
Dean Boehner															Luke Hardy																										
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BITS		2		SIGNATURE OF DRILLER		Justin Holt																								START TIME		8:00		END TIME		16:00					
BITS		2		SIGNATURE OF DRILLER		Jordan Cawsey																								START TIME		16:00		END TIME		24:00					
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ARC Resources Ltd. Operator's # 17DR10008 Signature of Operator's Representative Dean Boehnert										Beaver Drilling Ltd. Contractor's License No. 0X47 Signature of Contractor's Rig Manager Luke Hardy		BC Prov DLS Loc Type 15AC Well Type HORIZ		12-7-81-16 W6 Unique Well ID 104/04-13-081-17W6/00		15AC Rig No 15AC Well Type HORIZ		01-Jan-2017 Spud Date Time 13:00 Rig Release Date Time		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Code</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>11</th> <th>12</th> <th>13</th> <th>14</th> <th>15</th> <th>16</th> <th>17</th> <th>18</th> <th>19</th> <th>20</th> <th>21</th> <th>22</th> <th>23</th> <th>24</th> <th>25</th> <th>Other</th> <th>TOTAL</th> <th>FUEL @ 08:00 HRS</th> <th>WEATHER</th> </tr> </thead> <tbody> <tr> <td>Tour 1</td> <td></td> <td>1.75</td> <td></td> <td></td> <td></td> <td></td> <td>4.50</td> <td>0.50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.50</td> <td>0.75</td> <td></td> <td></td> <td></td> <td></td> <td>8.00</td> <td>7228</td> <td>6500</td> <td>05:00</td> </tr> <tr> <td>Tour 2</td> <td></td> <td></td> <td>5.25</td> <td>0.25</td> <td></td> <td></td> <td>0.75</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.00</td> <td>0.25</td> <td></td> <td></td> <td></td> <td>0.50</td> <td>8.00</td> <td></td> <td></td> <td>05:00</td> </tr> <tr> <td>TOTAL</td> <td></td> <td>7.00</td> <td>0.25</td> <td></td> <td></td> <td></td> <td>9.00</td> <td>1.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.75</td> <td>1.50</td> <td></td> <td></td> <td></td> <td>0.50</td> <td>24.00</td> <td></td> <td></td> <td>05:00</td> </tr> </tbody> </table>										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	Other	TOTAL	FUEL @ 08:00 HRS	WEATHER	Tour 1		1.75					4.50	0.50													0.50	0.75					8.00	7228	6500	05:00	Tour 2			5.25	0.25			0.75														3.00	0.25				0.50	8.00			05:00	TOTAL		7.00	0.25				9.00	1.00													4.75	1.50				0.50	24.00			05:00	Kelly Bitting 6.6 Top Fuel 4056	
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TOUR 1		SIGNATURE OF DRILLER Jordan Cawsey		START TIME 0:00		END TIME 8:00	
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BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 2	Size 200	No 1	Component 200mm PDC Bit	OD 200	ID 1.029	Mud Type Water	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	From 0:00
IADC Code 1	Manufacturer Baker Hughes	No 1	Component 6.5" Sealed 78 5.9 STG	OD 165	ID 1.824	Time 01:45	Water 04:00	Direction 2.70	To 0:30
Type TX23988R	Serial No 7162364	No 1	Component Slick NMDC	OD 167	ID 72.927	Density 1140	Water 1140	Direction 335.9	Elapsed 0:50
Jars 7.94 7.94 7.94	Depth Out (m) 1720.00	No 1	Component 165mm Gap Sub	OD 164	ID 79.172	Funnel Viscosity 30	Water 30	Direction 1.1	Code 7
Depth In (m) 459.00	Total Drilled (m) 1261.00	No 2	Component Slick NMDC	OD 167	ID 72.927	Fluid Loss 10.5	Water 10.5	Details Of Operations In Sequence & Remarks	
Hrs Run Today 1.75	Cumulative Hrs Run 24.75	No 6	Component 6 1/2" Drill Collar	OD 159	ID 98.94	Location Of Sample trough	Water trough	Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Serviced hydraulic BOP & functioned lower manual BOP. Visual inspection & service of PS-21 slips & inserts. Functioned upper pipe rams, 6 seconds to close each. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. Completed pre-shift full protection equipment visual inspection. Visual inspection of BOP & valves completed by Rodney Ewing & Dan Meyer.	
Entry Date 18-Mar-2017	Entry Date 18-Mar-2017	No 46	Component 4" CDS40 HWDP	OD 101	ID 65.082	Depth 1695.00	Water 1720.00	H2S man down drill while drilling. Simulated a hard shut in. Crew evacuated to upwind muster area. Well secured in 52 seconds. Practiced rescue routes and SCBA pack up procedures. Discussed stick diagram, kick warning signs / causes, shut in & flowcheck procedures, ERP & emergency contact list. STARS site # 3187. Verified BOP & choke manifold valve alignment. Functioned both chokes & flare igniter.	
CUTTING STRUCTURE		No 46	Component 4" CDS40 HWDP	OD 101	ID 65.082	PVT 57.45	Water 42.02	Drill vertical section of 200mm main hole from 1662m to 1720m MD (End of 200mm vertical section). Pump Rate - 2.2 m3/min, WOB - 18 kdaN, Rotary - 70 RPM, Pump Pressure - 29,000 kPa, Torque - 10,000 ft/lbs, Diff Pressure - 4,700 kPa.	
TO 1	TOC 1	HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		SAFETY	
MDR 1	LOC 1	Hole Drag Up 1 Down 1		Pump # 1 Pressure 2700 @ 60 @ 1719.80		Sawdust 11 m3		Boiler #2 fuel @ 05:00hrs: 6516 litres.	
BRG 1	BRG 1	Torque At Bottom 10000		Strokes/min 60 Depth 1719.80		Brine 4 m3		Hazard id: Workers were too excited after blown kelly hose / talked to them and calmed everyone down prior to commencing work again.	
METRES DRILLED		Fill On Bottom 0.00		Remarks		EnerClear F 1802 1 sxs		Trip out of hole for BHA change @ 30m/min from 1720m to 222m MD. Flowcheck @ 1719m, 1641m, 855m, 222m MD.	
From 1662.00	To 1720.00	Kelly Down -29.67		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerhib C 1 bbi		Crew hand-over meeting. Discuss hazard id's & daily hazards.	
TOC 1	LOC 1	Total 1720.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Accumulated EM survey & connection time.	
BRG 1	BRG 1	Weight of DC 24.00		Remarks		Enerscav C 1 bbi		Review JSA. Pump 3.0m3 of 1345kg/m3 weighed slug with a recovery of 0.55m3.	
METRES DRILLED		Weight of String 74.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Trip out of hole for BHA change @ 30m/min from 1720m to 222m MD. Flowcheck @ 1719m, 1641m, 855m, 222m MD.	
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METRES DRILLED		Weight of String 74.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Trip out of hole for BHA change @ 30m/min from 1720m to 222m MD. Flowcheck @ 1719m, 1641m, 855m, 222m MD.	
From 1662.00	To 1720.00	Kelly Down -29.67		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Crew hand-over meeting. Discuss hazard id's & daily hazards.	
TOC 1	LOC 1	Total 1720.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Accumulated EM survey & connection time.	
BRG 1	BRG 1	Weight of DC 24.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Review JSA. Pump 3.0m3 of 1345kg/m3 weighed slug with a recovery of 0.55m3.	
METRES DRILLED		Weight of String 74.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Trip out of hole for BHA change @ 30m/min from 1720m to 222m MD. Flowcheck @ 1719m, 1641m, 855m, 222m MD.	
From 1662.00	To 1720.00	Kelly Down -29.67		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Crew hand-over meeting. Discuss hazard id's & daily hazards.	
TOC 1	LOC 1	Total 1720.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Accumulated EM survey & connection time.	
BRG 1	BRG 1	Weight of DC 24.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Review JSA. Pump 3.0m3 of 1345kg/m3 weighed slug with a recovery of 0.55m3.	
METRES DRILLED		Weight of String 74.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Trip out of hole for BHA change @ 30m/min from 1720m to 222m MD. Flowcheck @ 1719m, 1641m, 855m, 222m MD.	
From 1662.00	To 1720.00	Kelly Down -29.67		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Crew hand-over meeting. Discuss hazard id's & daily hazards.	
TOC 1	LOC 1	Total 1720.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Accumulated EM survey & connection time.	
BRG 1	BRG 1	Weight of DC 24.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Review JSA. Pump 3.0m3 of 1345kg/m3 weighed slug with a recovery of 0.55m3.	
METRES DRILLED		Weight of String 74.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Trip out of hole for BHA change @ 30m/min from 1720m to 222m MD. Flowcheck @ 1719m, 1641m, 855m, 222m MD.	
From 1662.00	To 1720.00	Kelly Down -29.67		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Crew hand-over meeting. Discuss hazard id's & daily hazards.	
TOC 1	LOC 1	Total 1720.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Accumulated EM survey & connection time.	
BRG 1	BRG 1	Weight of DC 24.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Review JSA. Pump 3.0m3 of 1345kg/m3 weighed slug with a recovery of 0.55m3.	
METRES DRILLED		Weight of String 74.00		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi		Trip out of hole for BHA change @ 30m/min from 1720m to 222m MD. Flowcheck @ 1719m, 1641m, 855m, 222m MD.	
From 1662.00	To 1720.00	Kelly Down -29.67		Pump # 2 Pressure 127 @ 105 @ 29000 3.00		Enerscav C 1 bbi			

FRONT PAGE SUMMARY										Your Sheet Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM					
32316 ARCRES HZ PARKLAND A12-07-081-16										BEAV15AC 20170321 1A		RMS 2016.6.14.37064		2017		03		21		(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) HOS Signs Posted if Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Sealed (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (once/week/month) (9) CADC Rig Safety Inspection Checklist (weekly/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Block Checked (12) Motor Kils Checked															
ARC Resources Ltd. (Operator's RPE) 17DR/L0008 Signature of Operator's Representative Dean Boehner										Beaver Drilling Ltd. (Contractor's RPE) 0X47 Signature of Contractor's Rig Manager Luke Hardy		12-7-81-16 W6		BC Prov		DLS Loc Type		15AC Well Type		HORIZ Well Type		<input type="checkbox"/> Re Entry												FUEL @ 08:00 HRS 11537 6500	
Code										1		Signature of Driller Jordan Cawsey		START TIME 0:00		END TIME 8:00												WEATHER PARTLY CLOUDY Wind Direction N Wind Strength UP TO 19 KM/H Road Condition FAIR							

TOUR 1										TOUR 2										TOUR 3										TOUR 4										TOUR 5										TOUR 6										TOUR 7										TOUR 8										TOUR 9										TOUR 10										TOUR 11										TOUR 12										TOUR 13										TOUR 14										TOUR 15										TOUR 16										TOUR 17										TOUR 18										TOUR 19										TOUR 20										TOUR 21										TOUR 22										TOUR 23										TOUR 24										TOUR 25										TOUR 26										TOUR 27										TOUR 28										TOUR 29										TOUR 30										TOUR 31										TOUR 32										TOUR 33										TOUR 34										TOUR 35										TOUR 36										TOUR 37										TOUR 38										TOUR 39										TOUR 40										TOUR 41										TOUR 42										TOUR 43										TOUR 44										TOUR 45										TOUR 46										TOUR 47										TOUR 48										TOUR 49										TOUR 50										TOUR 51										TOUR 52										TOUR 53										TOUR 54										TOUR 55										TOUR 56										TOUR 57										TOUR 58										TOUR 59										TOUR 60										TOUR 61										TOUR 62										TOUR 63										TOUR 64										TOUR 65										TOUR 66										TOUR 67										TOUR 68										TOUR 69										TOUR 70										TOUR 71										TOUR 72										TOUR 73										TOUR 74										TOUR 75										TOUR 76										TOUR 77										TOUR 78										TOUR 79										TOUR 80										TOUR 81										TOUR 82										TOUR 83										TOUR 84										TOUR 85										TOUR 86										TOUR 87										TOUR 88										TOUR 89										TOUR 90										TOUR 91										TOUR 92										TOUR 93										TOUR 94										TOUR 95										TOUR 96										TOUR 97										TOUR 98										TOUR 99										TOUR 100									
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FRONT PAGE SUMMARY										Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM	
License No 32316 Well Name ARCRS HZ PARKLAND A12-07-081-16 Contractor Beaver Drilling Ltd. Contractor's Job No. 0047 Signature of Operator's Representative Dean Boehnert Signature of Contractor's Rig Manager Luke Hardy										BEAV15AC 20170321 1A Surface Location 12-7-81-16 W6		RMS 2016.6.14.37064 Prov BC Loc Type DLS Unique Well ID 104/04-13-081-17W6/00 Rig No 15AC Well Type HORIZ Re Entry <input type="checkbox"/>		2017 03 21		(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 Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (1) Rig Site Health & Safety Meeting (once/monthly) (2) CADC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Kils Checked										OP <input type="checkbox"/> RM <input type="checkbox"/> 			
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										Heavy Blowing 6.6 Top Fuel 6100		FUEL @ 08:00 HRS Boiler 11537 Temp 6500 Time 05:00 Range -13 WEATHER PARTLY CLOUDY Wind Direction N Wind Strength UP TO 19 KM/H Road Condition FAIR																	
Hours Tour 1: 5.75 0.50 Tour 2: 6.00 0.50 Tour 3: 4.50 1.50 TOTAL 16.25 1.50 1.00										1.25 0.50 1.50 1.25 0.75 4.00 1.25		8.00 8.00 8.00 24.00																	

TOUR 1 SIGNATURE OF DRILLER Jordan Cawsey										START TIME 0:00		END TIME 8:00	
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BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number 3 Size 200 IADC Code Manufacturer Halliburton Type MMD64M Serial No 12860043 Jts 7.9 7.9 8.7 8.7 Depth Out (m) 1720.00 Depth In (m) 247.00 Total Drilled (m) 1973.00 Hrs Run Today 5.75 Cumulative Hrs Run 11.00 Entry Date 20-Mar-2017										No Component OD ID Length 1 200mm PDC Bit 200 1 0.25 1 6.5" Sealed 78 5.9 BTG 165 1 8.54 1 NM Pony 162 72 1.42 1 NM Flex Monel 162 72 9.40 1 Gap sub 164 79 1.72 1 UBHO Sub 165 65 0.80 3 NM Flex Monel 162 72 27.36 1 4.5XHXDS40 X/O 165 60 0.81 2 4" CDS40 HWDP 101 65 18.90 1 Jars 165 66 4.95 46 4" CDS40 HWDP 101 65 0.80										Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time 05:30 07:45 Density 1135 1130 Funnel Viscosity 30 30 Fluid Loss pH 11 Location Of Sample Trough Trough Depth 1919.00 1947.00 PVT 56.14 54 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 PARALLEL 127 90 25000 8.00 2 PARALLEL 127 90 25000 8.00										Time Depth Deviation Direction Type 14:45 2024.71 60.70 325.2 DIRECTIONAL 15:30 2039.29 63.90 327 DIRECTIONAL										From To Elapsed Code Details Of Operations In Sequence & Remarks									
CUTTING STRUCTURE TO LOC BRG Weight of DC 22.45 Weight of String 72.00										HOLE CONDITION Hole Drag Up 3 Down 5 Torque At Bottom 10000 Fill On Bottom 0.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 6950 @ 90 @ 1900.00 2 127 @ 90 @ 2500.00										BOILER BoilerNo HoursRun pH StackTemp SAFETY IRS 78 3175										Remarks Boiler #2 fuel @ 05:00hrs: 6100 litres. Hazard id: While rolling casing the casing would roll back towards us on the racks / chalked the casing and secured it to prevent it from rolling back towards us.									
TOUR 2 SIGNATURE OF DRILLER Stefan Polny										START TIME 8:00		END TIME 16:00																																					

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number 3 Size 200 IADC Code Manufacturer Halliburton Type MMD64M Serial No 12860043 Jts 7.9 7.9 8.7 8.7 Depth Out (m) 1720.00 Depth In (m) 338.00 Total Drilled (m) 2058.00 Hrs Run Today 6.00 Cumulative Hrs Run 17.00 Entry Date 20-Mar-2017										No Component OD ID Length 1 200mm PDC Bit 200 1 0.25 1 6.5" Sealed 78 5.9 BTG 165 1 8.54 1 NM Pony 162 72 1.42 1 NM Flex Monel 162 72 9.40 1 Gap sub 164 79 1.72 1 UBHO Sub 165 65 0.80 3 NM Flex Monel 162 72 27.36 1 4.5XHXDS40 X/O 165 60 0.81 2 4" CDS40 HWDP 101 65 18.90 1 Jars 165 66 4.95 46 4" CDS40 HWDP 101 65 0.80										Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time 15:15 Density 1155 Funnel Viscosity 30 Fluid Loss 0 pH 11 Location Of Sample Suction 1 Depth 2048.00 PVT 15.76 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 PARALLEL 127 90 27700 8.00 2 PARALLEL 127 90 27700 8.00										Time Depth Deviation Direction Type 14:45 2024.71 60.70 325.2 DIRECTIONAL 15:30 2039.29 63.90 327 DIRECTIONAL										From To Elapsed Code Details Of Operations In Sequence & Remarks									
CUTTING STRUCTURE TO LOC BRG Weight of DC 19.88 Weight of String 73.00										HOLE CONDITION Hole Drag Up 5 Down 10 Torque At Bottom 10000 Fill On Bottom 0.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 7300 @ 90 @ 2905.00										BOILER BoilerNo HoursRun pH StackTemp SAFETY Electricity. Lock out / Tan out. 83 3130										Remarks ** Completed service & visual inspection of PipeCat. ** Hazard ID : Trouble shooting electric transfer pump. / Followed lockout procedure prior to disassembling cord end.									
TOUR 3 SIGNATURE OF DRILLER Jordan Cawsey										START TIME 16:00		END TIME 24:00																																					

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number 3 Size 200 IADC Code Manufacturer Halliburton Type MMD64M Serial No 12860043 Jts 7.9 7.9 8.7 8.7 Depth Out (m) 1720.00 Depth In (m) 422.00 Total Drilled (m) 2142.00 Hrs Run Today 5.00 Cumulative Hrs Run 22.00 Entry Date 20-Mar-2017										No Component OD ID Length 1 200mm PDC Bit 200 1 0.25 1 6.5" Sealed 78 5.9 BTG 165 1 8.54 1 NM Pony 162 72 1.42 1 NM Flex Monel 162 72 9.40 1 Gap sub 164 79 1.72 1 UBHO Sub 165 65 0.80 3 NM Flex Monel 162 72 27.36 1 4.5XHXDS40 X/O 165 60 0.81 2 4" CDS40 HWDP 101 65 18.90 1 Jars 165 66 4.95 46 4" CDS40 HWDP 101 65 0.80										Mud Type Water <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Time 23:45 Density 1140 Funnel Viscosity 64 Fluid Loss pH Location Of Sample Suction 2 Depth 2141.00 PVT 68.1 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 PARALLEL 127 86 36000 8.00 2 PARALLEL 127 86 36000 8.00										Time Depth Deviation Direction Type Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 7.00 1140 1115 1600 5.00 1150 1120 1500										From To Elapsed Code Details Of Operations In Sequence & Remarks									
CUTTING STRUCTURE TO LOC BRG Weight of DC 19.18 Weight of String 71.00										HOLE CONDITION Hole Drag Up 2 Down 7 Torque At Bottom 9000 Fill On Bottom 0.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 10000 @ 86 @ 2141.00										BOILER BoilerNo HoursRun pH StackTemp SAFETY Invert exposure 79 3130										Remarks Hazard id: Worker was not looking up in the derrick as I worked the drill string on a connection / Reminded him to watch up to prevent any snags or accidents from occurring.									

FRONT PAGE SUMMARY										DAILY CHECKS																																							
License No: 32316 Well Name: ARCRCRES HZ PARKLAND A12-07-081-16 Contractor: Beaver Drilling Ltd. Operator's Name: Dean Boehner Signature of Operator's Representative: Dean Boehner Signature of Contractor's Rig Manager: Luke Hardy										Tour Sheet Serial Number: BEAV15AC 20170322 1A Surface Location: 12-7-81-16 W6 Prov: BC Loc Type: DLS Unique Well ID: 104/04-13-081-17W6/00 Rig No: 15AC Well Type: HORIZ Spud Date Time: 01-Jan-2017 Rig Release Date Time: 13:00																																							
RMS 2016.6.14.37064 Year: 2017 Month: 03 Day: 22										(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) HSE Signs Posted if Required (4) Well Licence & Block Diagram Posted (5) Flare Lines Sealed (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (1) Rig Site Health & Safety Meeting (once/monthly) (2) CAODC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Vibs Checked																																							
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										Rigs Bitting: 6.6 Trip Rate: 5582 FUEL @ 08:00 HRS: 14595 Meter: 2000 Time: 06:00 Trip: -3 Weather: LIGHT SNOW Wind Direction: N Wind Strength: UP TO 15 KM/H Road Condition: FAIR																																							
TOUR 1 SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 0:00 END TIME: 8:00																																							
BITS Bit Number: 3 Size: 200 IADC Code: Halliburton Manufacturer: MMD64M Type: MMD64M Serial No: 12860043 Jars: 7.9 7.9 8.7 8.7 Depth Out (m): 1720.00 Depth In (m): 436.00 Total Drilled (m): 0.50 Hrs Run Today: 22.50 Cumulative Hrs Run: 20-Mar-2017 Entry Date: 20-Mar-2017										DRILLING ASSEMBLY No: 1 Component: 200mm PDC Bit 200 1 0.25 1 6.5" Sealed 78.5 STG 165 1 8.54 1 NM Pony 162 72 1.42 1 NM Flex Monel 162 72 9.40 1 Gap sub 164 79 1.72 1 UBHO Sub 165 65 0.80 3 NM Flex Monel 162 72 27.80 1 4.5XHD40 X/O 165 60 0.81 2 4" CDS40 HWDP 101 65 18.80 1 Jars 165 66 4.95 46 4" CDS40 HWDP 101 65 18.80 57 Drill Pipe 1660.50 0 Drill Pipe 0.00 Kelly Casing: 0.00 Total: 2171.31 Weight of DC: 0.00 Weight of String: 70.00										MUD RECORD Mud Type: Water Time: 01:45 Density: 1140 Funnel Viscosity: 62 Fluid Loss: 0.00 pH: 11.40 Location of Sample: Suction 2 Depth: 2156.00 PVT: 63.95 Circulation: Pump # 1 Type 127 86 36000 2.00 2 127 86 36000 2.00 Remarks:										DEVIATION SURVEYS Time: 00:45 Depth: 2141.00 Deviation: 89.40 Direction: 324.9 Type: DIRECTIONAL From: 0:00 To: 0:30 Elapsed: 0:50 Code: 2 Details of Operations in Sequence & Remarks Directional drill 200mm build section of main hole from 2142m to 2156m MD (End of 200mm build section). Pump Rate - 1.8m3/min. WOB - 16 kdaN, Rotary - 32 RPM. Pump Pressure - 36.00 kPa, Torque - 9.000 ft/lbs. Diff Pressure - 4.500 kPa. Sliding Parameters: WOB - 17 kdaN, Diff Pressure - 1.700 kPa. 0:30 1:00 0:50 20A Accumulated EM survey & connection time. 1:00 1:45 0:75 5 Circulate and condition wellbore prior to tripping out of hole. 1:45 6:00 4:25 6B Review JSA. Pump 3.0m3 of 1350kg/m3 weighted slug with a pill recovery of 0.52m3. Trip out of hole for BHA change @ 40m/min from 2156m to 75m MD. Flowchecks @ 2152m, 2024m, 1064m, 227m MD. 6:00 6:15 0:25 21D Safety meeting with New Discovery prior to handling directional tools. 6:15 7:30 1:25 20D Review JSA. Lay down directional tools. Lay down 1- X/O sub, 3- NM Flex Monels. Lay down 1- UBHO sub, pulse tool. Disassemble EM tool & lay down 1- Gap sub. Lay down 1- NM Flex Monel, 1- Pony Sub. Break off Halliburton PDC Bit #3 and lay down Mud Motor. 7:30 8:00 0:50 21D Crew hand-over meeting. Discuss hazard id's & daily hazards. Review JSA with New Discovery.										TIME LOG From: 0:00 To: 0:30 Elapsed: 0:50 Code: 2 Details of Operations in Sequence & Remarks Directional drill 200mm build section of main hole from 2142m to 2156m MD (End of 200mm build section). Pump Rate - 1.8m3/min. WOB - 16 kdaN, Rotary - 32 RPM. Pump Pressure - 36.00 kPa, Torque - 9.000 ft/lbs. Diff Pressure - 4.500 kPa. Sliding Parameters: WOB - 17 kdaN, Diff Pressure - 1.700 kPa. 0:30 1:00 0:50 20A Accumulated EM survey & connection time. 1:00 1:45 0:75 5 Circulate and condition wellbore prior to tripping out of hole. 1:45 6:00 4:25 6B Review JSA. Pump 3.0m3 of 1350kg/m3 weighted slug with a pill recovery of 0.52m3. Trip out of hole for BHA change @ 40m/min from 2156m to 75m MD. Flowchecks @ 2152m, 2024m, 1064m, 227m MD. 6:00 6:15 0:25 21D Safety meeting with New Discovery prior to handling directional tools. 6:15 7:30 1:25 20D Review JSA. Lay down directional tools. Lay down 1- X/O sub, 3- NM Flex Monels. Lay down 1- UBHO sub, pulse tool. Disassemble EM tool & lay down 1- Gap sub. Lay down 1- NM Flex Monel, 1- Pony Sub. Break off Halliburton PDC Bit #3 and lay down Mud Motor. 7:30 8:00 0:50 21D Crew hand-over meeting. Discuss hazard id's & daily hazards. Review JSA with New Discovery.									
TOUR 2 SIGNATURE OF DRILLER: Stefan Polny										START TIME: 8:00 END TIME: 16:00																																							
BITS Bit Number: 4 Size: 159 IADC Code: Reed Manufacturer: SK413M-A1G-Z Type: SK413M-A1G-Z Serial No: E230773 Jars: 9.5 9.5 Depth Out (m): 2156.00 Depth In (m): 0.00 Total Drilled (m): 0.00 Hrs Run Today: 0.00 Cumulative Hrs Run: 22-Mar-2017 Entry Date: 22-Mar-2017										DRILLING ASSEMBLY No: 1 Component: 159mm Reed PDC 159 1 0.22 1 5.0" Mud Motor 125 1 9.16 1 4.75" NM Flex Monel 115 70 9.21 1 4.75" Gap Sub 130 68 1.71 2 4.75" NM Flex Monel 115 70 18.40 1 Slide reamer 125 58 1.44 1 3.58" x CDS40 X/O 128 60 0.80 5 4" CDS40 Drill Pipe 102 64 48.50 1 Drilling Jars 130 58 6.18 184 4" CDS40 Drill Pipe 102 64 18.80 30 4" CDS40 HWDP 101 65 28.30 0 Drill Pipe 0.00 0 Drill Pipe 0.00 Kelly Casing: -10.85 Total: 2156.00 Weight of DC: 21.00 Weight of String: 69.00										MUD RECORD Mud Type: Water Time: 16:00 Density: 1140 Funnel Viscosity: 70 Fluid Loss: 0.00 pH: 11.40 Location of Sample: Suction Depth: 2156.00 PVT: 56.49 Circulation: Pump # 1 Type 127 1 0 0.00 2 127 1 0 0.00 Remarks:										DEVIATION SURVEYS Time: 23:45 Depth: 45.89 Deviation: 0.40 Direction: 327.6 Type: DIRECTIONAL From: 17:00 To: 18:30 Elapsed: 1:50 Code: 20D Details of Operations in Sequence & Remarks Continue to trip out of hole for EM tool from 456m to 95m. Flow check 127m. Handle New Discovery directional tools: Laydown 1- Drilling Jar & 1 - 101.6mm DP. Rack in derrick 2- 101.6mm DP, 1- 3 1/2" x DS40 X/O, 1- Slide Reamer & 1- NM Flex Monel. Break out Gap sub, rebuild EM tool & power on. Makeup Gap sub to Monels. Scribe Mud Motor. Out of hole - Flow check at 0m. Function HCR, 2 seconds to open & Blind Rams, 4 seconds to close. Trip record: Calculated 4.98m3, Measured 6.39m3, Difference -1.41m3. Makeup NM Flex Monels, 1- 3 1/2" x DS40 X/O, 1- Slide Reamer, 5- 101.6mm DP & Drilling Jars. 18:30 19:00 0:50 6A Trip in hole at 40m/min from 95m to 337m MD. 19:00 19:30 0:50 21 Crew hand-over meeting. Discuss hazard id's & daily hazards. 19:30 23:00 3:50 6A Review JSA. Trip in hole @ 40m/min from 337m to 2025m MD. Fill pipe @ 600m intervals. Trip Record: Measured: 16.31m3, Calculated: 19.59m3, Difference: 3.28m3. 23:00 23:30 0:50 3A Wash to bottom from 2025m to 2156m MD. Pump Rate - 1.27m3/min, Rotary - 50 RPM. 23:30 23:45 0:25 2 Directional drill 159mm lateral section of main hole from 2156m to 2165m MD. Pump Rate - 1.27m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 28.000 kPa, Torque - 9.000 ft/lbs, Diff Pressure - 8.500 kPa. 23:45 24:00 0:25 20A Accumulated EM survey & connection time.										TIME LOG From: 17:00 To: 18:30 Elapsed: 1:50 Code: 20D Details of Operations in Sequence & Remarks Continue to trip out of hole for EM tool from 456m to 95m. Flow check 127m. Handle New Discovery directional tools: Laydown 1- Drilling Jar & 1 - 101.6mm DP. Rack in derrick 2- 101.6mm DP, 1- 3 1/2" x DS40 X/O, 1- Slide Reamer & 1- NM Flex Monel. Break out Gap sub, rebuild EM tool & power on. Makeup Gap sub to Monels. Scribe Mud Motor. Out of hole - Flow check at 0m. Function HCR, 2 seconds to open & Blind Rams, 4 seconds to close. Trip record: Calculated 4.98m3, Measured 6.39m3, Difference -1.41m3. Makeup NM Flex Monels, 1- 3 1/2" x DS40 X/O, 1- Slide Reamer, 5- 101.6mm DP & Drilling Jars. 18:30 19:00 0:50 6A Trip in hole at 40m/min from 95m to 337m MD. 19:00 19:30 0:50 21 Crew hand-over meeting. Discuss hazard id's & daily hazards. 19:30 23:00 3:50 6A Review JSA. Trip in hole @ 40m/min from 337m to 2025m MD. Fill pipe @ 600m intervals. Trip Record: Measured: 16.31m3, Calculated: 19.59m3, Difference: 3.28m3. 23:00 23:30 0:50 3A Wash to bottom from 2025m to 2156m MD. Pump Rate - 1.27m3/min, Rotary - 50 RPM. 23:30 23:45 0:25 2 Directional drill 159mm lateral section of main hole from 2156m to 2165m MD. Pump Rate - 1.27m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 28.000 kPa, Torque - 9.000 ft/lbs, Diff Pressure - 8.500 kPa. 23:45 24:00 0:25 20A Accumulated EM survey & connection time.									
TOUR 3 SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 16:00 END TIME: 24:00																																							
BITS Bit Number: 4 Size: 159 IADC Code: Reed Manufacturer: SK413M-A1G-Z Type: SK413M-A1G-Z Serial No: E230773 Jars: 9.5 9.5 Depth Out (m): 2156.00 Depth In (m): 9.00 Total Drilled (m): 0.25 Hrs Run Today: 0.25 Cumulative Hrs Run: 22-Mar-2017 Entry Date: 22-Mar-2017										DRILLING ASSEMBLY No: 1 Component: 159mm Reed PDC 159 1 0.22 1 5.0" Mud Motor 125 1 9.16 1 4.75" NM Flex Monel 115 70 9.21 1 4.75" Gap Sub 130 68 1.71 2 4.75" NM Flex Monel 115 70 18.40 1 Slide reamer 125 58 1.44 1 3.58" x CDS40 X/O 128 60 0.80 5 4" CDS40 Drill Pipe 102 64 48.50 1 Drilling Jars 130 58 6.18 184 4" CDS40 Drill Pipe 102 64 18.80 30 4" CDS40 HWDP 101 65 28.30 0 Drill Pipe 0.00 0 Drill Pipe 0.00 Kelly Casing: -0.60 Total: 2165.00 Weight of DC: 0.00 Weight of String: 70.00										MUD RECORD Mud Type: Water Time: 21:15 Density: 1140 Funnel Viscosity: 84 Fluid Loss: 0.00 pH: 11.40 Location of Sample: suction #2 Depth: 2156.00 PVT: 60 Circulation: Pump # 1 Type 127 120 28000 1.00 2 127 1 28000 0.00 Remarks:										DEVIATION SURVEYS Time: 23:45 Depth: 45.89 Deviation: 0.40 Direction: 327.6 Type: DIRECTIONAL From: 17:00 To: 18:30 Elapsed: 1:50 Code: 20D Details of Operations in Sequence & Remarks Continue to trip out of hole for EM tool from 456m to 95m. Flow check 127m. Handle New Discovery directional tools: Laydown 1- Drilling Jar & 1 - 101.6mm DP. Rack in derrick 2- 101.6mm DP, 1- 3 1/2" x DS40 X/O, 1- Slide Reamer & 1- NM Flex Monel. Break out Gap sub, rebuild EM tool & power on. Makeup Gap sub to Monels. Scribe Mud Motor. Out of hole - Flow check at 0m. Function HCR, 2 seconds to open & Blind Rams, 4 seconds to close. Trip record: Calculated 4.98m3, Measured 6.39m3, Difference -1.41m3. Makeup NM Flex Monels, 1- 3 1/2" x DS40 X/O, 1- Slide Reamer, 5- 101.6mm DP & Drilling Jars. 18:30 19:00 0:50 6A Trip in hole at 40m/min from 95m to 337m MD. 19:00 19:30 0:50 21 Crew hand-over meeting. Discuss hazard id's & daily hazards. 19:30 23:00 3:50 6A Review JSA. Trip in hole @ 40m/min from 337m to 2025m MD. Fill pipe @ 600m intervals. Trip Record: Measured: 16.31m3, Calculated: 19.59m3, Difference: 3.28m3. 23:00 23:30 0:50 3A Wash to bottom from 2025m to 2156m MD. Pump Rate - 1.27m3/min, Rotary - 50 RPM. 23:30 23:45 0:25 2 Directional drill 159mm lateral section of main hole from 2156m to 2165m MD. Pump Rate - 1.27m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 28.000 kPa, Torque - 9.000 ft/lbs, Diff Pressure - 8.500 kPa. 23:45 24:00 0:25 20A Accumulated EM survey & connection time.										TIME LOG From: 17:00 To: 18:30 Elapsed: 1:50 Code: 20D Details of Operations in Sequence & Remarks Continue to trip out of hole for EM tool from 456m to 95m. Flow check 127m. Handle New Discovery directional tools: Laydown 1- Drilling Jar & 1 - 101.6mm DP. Rack in derrick 2- 101.6mm DP, 1- 3 1/2" x DS40 X/O, 1- Slide Reamer & 1- NM Flex Monel. Break out Gap sub, rebuild EM tool & power on. Makeup Gap sub to Monels. Scribe Mud Motor. Out of hole - Flow check at 0m. Function HCR, 2 seconds to open & Blind Rams, 4 seconds to close. Trip record: Calculated 4.98m3, Measured 6.39m3, Difference -1.41m3. Makeup NM Flex Monels, 1- 3 1/2" x DS40 X/O, 1- Slide Reamer, 5- 101.6mm DP & Drilling Jars. 18:30 19:00 0:50 6A Trip in hole at 40m/min from 95m to 337m MD. 19:00 19:30 0:50 21 Crew hand-over meeting. Discuss hazard id's & daily hazards. 19:30 23:00 3:50 6A Review JSA. Trip in hole @ 40m/min from 337m to 2025m MD. Fill pipe @ 600m intervals. Trip Record: Measured: 16.31m3, Calculated: 19.59m3, Difference: 3.28m3. 23:00 23:30 0:50 3A Wash to bottom from 2025m to 2156m MD. Pump Rate - 1.27m3/min, Rotary - 50 RPM. 23:30 23:45 0:25 2 Directional drill 159mm lateral section of main hole from 2156m to 2165m MD. Pump Rate - 1.27m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 28.000 kPa, Torque - 9.000 ft/lbs, Diff Pressure - 8.500 kPa. 23:45 24:00 0:25 20A Accumulated EM survey & connection time.									
TOUR 4 SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 24:00 END TIME: 06:00																																							
BITS Bit Number: 4 Size: 159 IADC Code: Reed Manufacturer: SK413M-A1G-Z Type: SK413M-A1G-Z Serial No: E230773 Jars: 9.5 9.5 Depth Out (m): 2156.00 Depth In (m): 9.00 Total Drilled (m): 0.25 Hrs Run Today: 0.25 Cumulative Hrs Run: 22-Mar-2017 Entry Date: 22-Mar-2017										DRILLING ASSEMBLY No: 1 Component: 159mm Reed PDC 159 1 0.22 1 5.0" Mud Motor 125 1 9.16 1 4.75" NM Flex Monel 115 70 9.21 1 4.75" Gap Sub 130 68 1.71 2 4.75" NM Flex Monel 115 70 18.40 1 Slide reamer 125 58 1.44 1 3.58" x CDS40 X/O 128 60 0.80 5 4" CDS40 Drill Pipe 102 64 48.50 1 Drilling Jars 130 58 6.18 184 4" CDS40 Drill Pipe 102 64 18.80 30 4" CDS40 HWDP 101 65 28.30 0 Drill Pipe 0.00 0 Drill Pipe 0.00 Kelly Casing: -0.60 Total: 2165.00 Weight of DC: 0.00 Weight of String: 70.00										MUD RECORD Mud Type: Water Time: 21:15 Density: 1140 Funnel Viscosity: 84 Fluid Loss: 0.00 pH: 11.40 Location of Sample: suction #2 Depth: 2156.00 PVT: 60 Circulation: Pump # 1 Type 127 120 28000 1.00 2 127 1 28000 0.00 Remarks:										DEVIATION SURVEYS Time: 23:45 Depth: 45.89 Deviation: 0.40 Direction: 327.6 Type: DIRECTIONAL From: 17:00 To: 18:30 Elapsed: 1:50 Code: 20D Details of Operations in Sequence & Remarks Continue to trip out of hole for EM tool from 456m to 95m. Flow check 127m. Handle New Discovery directional tools: Laydown 1- Drilling Jar & 1 - 101.6mm DP. Rack in derrick 2- 101.6mm DP, 1- 3 1/2" x DS40 X/O, 1- Slide Reamer & 1- NM Flex Monel. Break out Gap sub, rebuild EM tool & power on. Makeup Gap sub to Monels. Scribe Mud Motor. Out of hole - Flow check at 0m. Function HCR, 2 seconds to open & Blind Rams, 4 seconds to close. Trip record: Calculated 4.98m3, Measured 6.39m3, Difference -1.41m3. Makeup NM Flex Monels, 1- 3 1/2" x DS40 X/O, 1- Slide Reamer, 5- 101.6mm DP & Drilling Jars. 18:30 19:00 0:50 6A Trip in hole at 40m/min from 95m to 337m MD. 19:00 19:30 0:50 21 Crew hand-over meeting. Discuss hazard id's & daily hazards. 19:30 23:00 3:50 6A Review JSA. Trip in hole @ 40m/min from 337m to 2025m MD. Fill pipe @ 600m intervals. Trip Record: Measured: 16.31m3, Calculated: 19.59m3, Difference: 3.28m3. 23:00 23:30 0:50 3A Wash to bottom from 2025m to 2156m MD. Pump Rate - 1.27m3/min, Rotary - 50 RPM. 23:30 23:45 0:25 2 Directional drill 159mm lateral section of main hole from 2156m to 2165m MD. Pump Rate - 1.27m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 28.000 kPa, Torque - 9.000 ft/lbs, Diff Pressure - 8.500 kPa. 23:45 24:00 0:25 20A Accumulated EM survey & connection time.										TIME LOG From: 17:00 To: 18:30 Elapsed: 1:50 Code: 20D Details of Operations in Sequence & Remarks Continue to trip out of hole for EM tool from 456m to 95m. Flow check 127m. Handle New Discovery directional tools: Laydown 1- Drilling Jar & 1 - 101.6mm DP. Rack in derrick 2- 101.6mm DP, 1- 3 1/2" x DS40 X/O, 1- Slide Reamer & 1- NM Flex Monel. Break out Gap sub, rebuild EM tool & power on. Makeup Gap sub to Monels. Scribe Mud Motor. Out of hole - Flow check at 0m. Function HCR, 2 seconds to open & Blind Rams, 4 seconds to close. Trip record: Calculated 4.98m3, Measured 6.39m3, Difference -1.41m3. Makeup NM Flex Monels, 1- 3 1/2" x DS40 X/O, 1- Slide Reamer, 5- 101.6mm DP & Drilling Jars. 18:30 19:00 0:50 6A Trip in hole at 40m/min from 95m to 337m MD. 19:00 19:30 0:50 21 Crew hand-over meeting. Discuss hazard id's & daily hazards. 19:30 23:00 3:50 6A Review JSA. Trip in hole @ 40m/min from 337m to 2025m MD. Fill pipe @ 600m intervals. Trip Record: Measured: 16.31m3, Calculated: 19.59m3, Difference: 3.28m3. 23:00 23:30 0:50 3A Wash to bottom from 2025m to 2156m MD. Pump Rate - 1.27m3/min, Rotary - 50 RPM. 23:30 23:45 0:25 2 Directional drill 159mm lateral section of main hole from 2156m to 2165m MD. Pump Rate - 1.27m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 28.000 kPa, Torque - 9.000 ft/lbs, Diff Pressure - 8.500 kPa. 23:45 24:00 0:25 20A Accumulated EM survey & connection time.									
TOUR 5 SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 06:00 END TIME: 12:00																																							

FRONT PAGE SUMMARY										Your Sheet Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																																																					
32316 ARCREES HZ PARKLAND A12-07-081-16										BEAV15AC 20170324 1A		RMS 2016.6.14.37064		2017		03		24		(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) HSE Signs Posted if Required (4) Well Licence & Block Diagram Posted (5) Flare Lines Inspected (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (once/monthly) (9) CADC Rig Safety Inspection Checklist (weekly/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Block Checked (12) Motor Vibs Checked										CAADC NWS																																																																																																																																																					
Contractor Beaver Drilling Ltd.										Provision BC		Lic Type DLS		Unique Well Id 104/04-13-081-17W6/00		Rig No 15AC		Well Type HORIZ		Re-entry <input type="checkbox"/>																																																																																																																																																															
Signature of Operator's Representative Dean Boehnert										Signature of Contractor's Rig Manager Shaun Low		Spot Date Time 01-Jan-2017		Rig Release Date Time 13:00																																																																																																																																																																					
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Code</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>11</th> <th>12</th> <th>13</th> <th>14</th> <th>15</th> <th>16</th> <th>17</th> <th>18</th> <th>19</th> <th>20</th> <th>21</th> <th>22</th> <th>23</th> <th>24</th> <th>25</th> <th>TOTAL</th> <th>FUEL @ 08:00 HRS</th> <th>WEATHER</th> </tr> </thead> <tbody> <tr> <td>Tour 1</td> <td></td> <td>1.00</td> <td></td> <td></td> <td></td> <td>3.75</td> <td>1.50</td> <td>0.50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.50</td> <td>0.75</td> <td></td> <td></td> <td></td> <td>8.00</td> <td>7367</td> <td>06:00</td> </tr> <tr> <td>Tour 2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6.75</td> <td>0.50</td> <td>0.75</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8.00</td> <td>2000</td> <td>-8</td> </tr> <tr> <td>Tour 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.25</td> <td>1.00</td> <td></td> <td></td> <td></td> <td>0.25</td> <td>8.00</td> <td>PARTLY CLOUDY</td> </tr> <tr> <td>TOTAL</td> <td></td> <td>1.00</td> <td></td> <td></td> <td></td> <td>3.75</td> <td>12.25</td> <td>1.00</td> <td>0.75</td> <td></td> <td></td> <td>1.50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.75</td> <td>1.75</td> <td></td> <td></td> <td></td> <td>0.25</td> <td>24.00</td> <td>FAIR</td> </tr> </tbody> </table>																										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	FUEL @ 08:00 HRS	WEATHER	Tour 1		1.00				3.75	1.50	0.50													0.50	0.75				8.00	7367	06:00	Tour 2						6.75	0.50	0.75																	8.00	2000	-8	Tour 3						4.00						1.50								1.25	1.00				0.25	8.00	PARTLY CLOUDY	TOTAL		1.00				3.75	12.25	1.00	0.75			1.50								1.75	1.75				0.25	24.00	FAIR												
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	FUEL @ 08:00 HRS	WEATHER																																																																																																																																																							
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17DR10008															00K47		01-Jan-2017		13:00																																	
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FRONT PAGE SUMMARY										Tour Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																																																										
License No 32316 Well Name ARCRCES HZ PARKLAND A12-07-081-16										BEAV15AC 20170325 1A		RMS 2016.6.14.37064		2017		03		25		(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Spills Potentially Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Scaled (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (once/week/month) (9) CADCOC Rig Safety Inspection Checklist (weekly/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Block Checked (12) Motor Vibs Checked										OP RM																																																																																																																																																										
Contractor Beaver Drilling Ltd.										Contractor's License No 0047		Prov BC		Lic Type DLS		Unique Well Id 104/04-13-081-17W6/00		Rig No 15AC		Well Type HORIZ		Re Entry																																																																																																																																																																		
Signature of Operator's Representative Dean Boehnert										Signature of Contractor's Rig Manager Shaun Low		Spot Date Time 01-Jan-2017		Rig Release Date Time 13:00																																																																																																																																																																										
<table><tr><th>Code</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>19</th><th>20</th><th>21</th><th>22</th><th>23</th><th>24</th><th>25</th></tr><tr><td></td><td>Rig Up</td><td>Drill Actual</td><td>Reaming</td><td>Coring</td><td>Cond Mud & Circ</td><td>Trips</td><td>Rig Service</td><td>Repair Rig</td><td>Cut Off Drill Line</td><td>Dev Survey</td><td>Wireline Logs</td><td>Ran Cag & Cement</td><td>Wait On Cement</td><td>Nipple BOP</td><td>Test BOP</td><td>Drillstem Test</td><td>Plug Back</td><td>Squeeze Cement</td><td>Fishing</td><td>Dir Work</td><td>Safety Meeting</td><td>Tear Down</td><td>Waiting On</td><td>Rig Watch</td><td>Other</td></tr><tr><td>Tour 1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.50</td><td></td><td></td><td></td><td></td><td>7.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.50</td><td></td><td></td><td></td><td></td></tr><tr><td>Tour 2</td><td></td><td></td><td></td><td></td><td>3.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td>4.25</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.25</td><td></td><td></td><td></td><td></td></tr><tr><td>Tour 3</td><td></td><td></td><td></td><td></td><td>3.50</td><td></td><td>0.50</td><td></td><td></td><td></td><td></td><td>1.00</td><td></td><td>6.25</td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.75</td><td></td><td></td><td></td><td></td></tr><tr><td>TOTAL</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>12.25</td><td></td><td>6.25</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.50</td><td></td><td></td><td></td><td></td></tr></table>																									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 Drill Line	Dev Survey	Wireline Logs	Ran Cag & Cement	Wait On Cement	Nipple 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					7.00									0.50					Tour 2					3.50							4.25									0.25					Tour 3					3.50		0.50					1.00		6.25							0.75					TOTAL												12.25		6.25							1.50					FUEL @ 08:00 HRS 6255 2000		OVERCAST Wind Direction SE Wind Strength UP TO 25 KM/H Weather FAIR	
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TOUR 1		SIGNATURE OF DRILLER Jordan Cawsey		START TIME 0:00		END TIME 8:00	
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BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number Size IADC Code Manufacturer Type Serial No Jaws Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date		No Component OD ID Length Kelly Casing Tool Joint Weight of DC Weight of String		Mud Type Water Oil Time 07:15 08:00 Density 1150 1150 Funnel Viscosity 84 81 Fluid Loss 0 0 pH Location Of Sample suction#2 Suction #2 Depth 3520.00 3520.00 PVT 41 46.21 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 152 1 0 0.00 2 SINGLE 152 1 0 0.00 Remarks		Time Depth Deviation Direction Type 0:00 0:30 0:50 7 0:30 7:30 7:00 12B 7:30 8:00 0:50 21D Details Of Operations In Sequence & Remarks Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits. MCWS & ZMS. Serviced hydraulic I-BOP & functioned lower manual I-BOP. Visual inspection & service of PS-21 slips & inserts. Functioned Annular Preventer 6 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. Completed pre-shift fall protection equipment visual inspection. Visual inspection of BOP & valves completed by Luke Hardy & Dan Meyer. Continue to run 114.3mm 20.09 kg/m P-110 LT&C X 139.7mm 29.76 kg/m3 P-110 DPLS tapered production casing string at 35m/min from 150m to 2679m MD. Crew hand-over meeting. Discuss hazard id's & daily hazards. Review JSA.		From To Elapsed Code 0:00 0:30 0:50 7 0:30 7:30 7:00 12B 7:30 8:00 0:50 21D	
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		BOILER		SAFETY	
TO MDC LOC BRG Kelly Casing Tool Joint Weight of DC Weight of String		Hole Drag Up Down Torque At Bottom Fill On Bottom		Pump # Pressure Strokes/min Depth 1 1400 33 3300 2 152 1 4400 0.00		BoilerNo HoursRun pH StackTemp 1 8.00 10.5 450		Safety Topic MEHL MACP Working on mud pumps 65 3085	
TOUR 2		SIGNATURE OF DRILLER Stefan Polny		START TIME 8:00		END TIME 16:00			

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number Size IADC Code Manufacturer Type Serial No Jaws Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date		No Component OD ID Length Kelly Casing Tool Joint Weight of DC Weight of String		Mud Type Water Oil Time 12:45 14:45 Density 1150 1150 Funnel Viscosity 62 63 Fluid Loss 0 0 pH Location Of Sample Suction Suction Depth 3520.00 3520.00 PVT 27.65 25.03 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 152 66 4400 4.00 2 SINGLE 152 1 4400 0.00 Remarks		Time Depth Deviation Direction Type 8:00 9:45 1:75 12 9:45 13:15 3:50 5 13:15 13:30 0:25 21D 13:30 16:00 2:50 12C Details Of Operations In Sequence & Remarks Continue to run 114.3mm 20.09 kg/m P-110 LT&C X 139.7mm 29.76 kg/m3 P-110 DPLS tapered production casing string at 35m/min from 2679m to 3520m MD. Circulate bottoms up at 0.5m3/min. Rig out casing handling equipment & prepare to cement. Continue to recirculate casing string & circulate at 1.0m3/min. Safety meeting & JSA review with Trican & NOV prior to cementing. Break Top Drive out & Break x/o's connections to Casing with Rotary tongs. Blow back mud lines and top drive. Rig to & Cement 114.3mm 20.09 kg/m P-110 LT&C X 139.7mm 29.76 kg/m3 P-110 Tenaris Blue tapered production casing string with Trican; Pump 5.0m³ Optiflush with S-4W & M-S8 & TWR-2 @ 1300kg/m³. Pump 1.5 Tonne 2.5m³ Scavenger T.A.C. @ 1350kg/m³. Pump 36.5Tonne. (36.5m³) T.A.C. & 0.2% AFA-6, 0.2% CFR-12, 0.3% TWR-4, 0.25% TDH-2 @ 131Tonne (31m³) T.A.C. & 0.2% AFA-6, 0.2% CFR-12, 0.3% TWR-4, 0.25% TDH-2 @ 1600kg/m³ Tail Cement. Clean out lines. Launch IMPORT Latch down plug and displace with 5m³ of inhibited retarded water, 2L/m³ DF-2W, & 31.60m³ of inhibited water, 5L/m³ Tricorr 134, 2L/m³ DF-2W. 10m³ of good cement returns to surface. Bump plug 3500 Kpa over 22,000kpa FCP. Plug held. Floats held. No fall-back in annulus.		From To Elapsed Code 8:00 9:45 1:75 12 9:45 13:15 3:50 5 13:15 13:30 0:25 21D 13:30 16:00 2:50 12C	
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		BOILER		SAFETY	
TO MDC LOC BRG Kelly Casing Tool Joint Weight of DC Weight of String		Hole Drag Up Down Torque At Bottom Fill On Bottom		Pump # Pressure Strokes/min Depth 1 1400 33 3300 2 152 1 4400 0.00		BoilerNo HoursRun pH StackTemp 1 8.00 10.5 450		Safety Topic MEHL MACP Cementing. 76 3130	
TOUR 3		SIGNATURE OF DRILLER Jordan Cawsey		START TIME 16:00		END TIME 24:00			

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number Size IADC Code Manufacturer Type Serial No Jaws Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date		No Component OD ID Length Kelly Casing Tool Joint Weight of DC Weight of String		Mud Type Water Oil Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 152 1 0 0.00 2 152 1 0 0.00 Remarks		Time Depth Deviation Direction Type 16:00 17:00 1:00 12C 17:00 17:15 0:25 21D 17:15 19:00 1:75 14B 19:00 19:30 0:50 21 19:30 24:00 4:50 14B Details Of Operations In Sequence & Remarks Bumped Wiper Plug @ 16:10hrs. 10m3 Cement to surface. Pressure test casing to 21,000kPa for 10 minutes. Flush 5000# BOP, Bell Nipple & Flow Line with Trican. Rig out Trican cement equipment. Safety meeting with Cameron prior to setting casing slips and nipples down Schaffer 13 5/8" 5000# BOP. Review JSA. Flush & blow out all choke manifold & degasser lines. Rig to, lower casing slips through BOP's & set casing slips in tension @ 70,000 daN at 18:10hrs on Mar.25/2017. Nipple down 13 5/8" Schaffer 5000# BOP's & all related equipment in preparation for spring break up. Clean mud tanks with confined space entry permit. Crew hand-over meeting. Discuss hazard id's & daily hazards. Review JSA. Lift BOP's & cut casing w/ Cameron services. Laydown cut off. Nipple down 13 5/8" Schaffer 5000# BOP's & all related equipment in preparation for spring break up. Clean mud tanks with confined space entry permit.		From To Elapsed Code 16:00 17:00 1:00 12C 17:00 17:15 0:25 21D 17:15 19:00 1:75 14B 19:00 19:30 0:50 21 19:30 24:00 4:50 14B	
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		BOILER		SAFETY	
TO MDC LOC BRG Kelly Casing Tool Joint Weight of DC Weight of String		Hole Drag Up Down Torque At Bottom Fill On Bottom		Pump # Pressure Strokes/min Depth 1 152 1 0 0.00 2 152 1 0 0.00		BoilerNo HoursRun pH StackTemp 1 8.00 10.5 450		Safety Topic MEHL MACP Nipple down BOP. 70 0	
TOUR 4		SIGNATURE OF DRILLER		START TIME		END TIME			

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