

[illegible]

FRONT PAGE SUMMARY										Tour Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																																																								
License No 32312 Well Name ARCRES HZ PARKLAND E12-07-081-16 Operator's Key 17DR10012 Signature of Operator's Representative Dan Meyer										BEAV15AC 20170131 2A Surface Location 12-7-81-16 W6 Contractor Beaver Drilling Ltd. Contractor's License No 0X47 Signature Of Contractor's Rig Manager Shaun Low										Prov BC Loc Type DLS Unique Well Id 10005-08-081-16W6/00 Rig No 15AC Well Type HORIZ Re-Entry <input type="checkbox"/>		RMS 2016.6.14.37064 2017 01 31		(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 BOP's Flare Lines & Degasser Lines (1) Rig Site Health & Safety Meeting (once/crew/month) (2) CADCDC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Vibs Checked										DM <input type="checkbox"/> EL <input type="checkbox"/> DM <input type="checkbox"/> SL <input type="checkbox"/> DM <input type="checkbox"/> SL <input type="checkbox"/> DM <input type="checkbox"/> SL <input type="checkbox"/> DM <input type="checkbox"/> SL <input type="checkbox"/> DM <input type="checkbox"/> SL <input type="checkbox"/> DM <input type="checkbox"/> SL <input type="checkbox"/>																																																																																																																																																				
<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> </tr> </thead> <tbody> <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>Run 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>Dr 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></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></td><td></td> </tr> <tr> <td>Tour 2</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></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 3</td> <td>3.50</td><td></td><td></td><td></td><td></td><td></td><td>0.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.50</td><td>0.75</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>4.00</td><td></td><td></td><td></td><td></td><td></td><td>0.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.50</td><td>0.75</td><td></td><td></td><td></td><td></td><td>1.25</td><td></td><td></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		Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Cag & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dr Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	Tour 1																										Tour 2	0.50																				0.50					Tour 3	3.50						0.50								2.50	0.75					0.75					TOTAL	4.00						0.50								2.50	0.75					1.25					Daily Bitting 6.6 Top Fuel 3166 Rig 19460 Power 7100 Time 06:00 Temp -9 Current Conditions LIGHT SNOW Wind Direction NW Wind Strength UP TO 19 KM/H Road Condition 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																																																																																																																																																													
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TOUR 3										SIGNATURE OF DRILLER Luke Hardy										START TIME 16:00					END TIME 24:00																																																																																																																																																													
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License No										Well Name		Surface Location		Prov		Lic Type		Unique Well Id		(1) Daily Walk Around Inspection										CB		FL	
32312										ARCRS HZ PARKLAND E12-07-081-16		12-7-81-16 W6		BC		DLS		100/05-08-081-16W6/00		(2) Detailed Inspection - Weekly (Using Check List)										CB		FL	
Contractor										Beaver Drilling Ltd.		Rig No		15AC		Well Type		HORIZ		(3) H2S Signs Posted if Required										CB		FL	
Contractor's License No										0X47		Spud Date Time		20-Dec-2016		21:45		(4) Well Licence & Stick Diagram Posted										CB		FL			
Signature of Operator's Representative										Chris Baehl		Signature of Contractor's Rig Manager		Shaun Low		Rig Release Date Time				(5) Flare Lines Staked										CB		FL	
																		(6) BOP Tests Performed										CB		FL			
																		(7) Visually Inspected BOPs Flare Lines & Degasser Lines										CB		FL			
																		(1) Rig Site Health & Safety Meeting (once/crow/month)										CB		FL			
																		(2) CADC Rig Safety Inspection Checklist (weekly/monthly)										CB		FL			
																		(3) Mast Inspection before Raising or Lowering										CB		FL			
																		(4) Crown Block Checked										CB		FL			
																		(5) Mast Yoke Checked										CB		FL			

Code	TOUR 1 SIGNATURE OF DRILLER Justin Holt																									START TIME 0:00		END TIME 8:00	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	Rig	Fuel	
HOURS	Tour 1		5.25						0.50												1.50	0.75					8.00	32943	7100
	Tour 2		6.50						0.50												0.75	0.25					8.00	05:00	-17
	Tour 3		0.75				0.75	4.50													1.25	0.75					8.00	PARTLY CLOUDY	
	TOTAL		12.50				0.75	4.50	1.00												3.50	1.75					24.00	WEATHER	UP TO 19 KM/H

TOUR 1 SIGNATURE OF DRILLER Justin Holt										START TIME 0:00		END TIME 8:00																																					
BITS Bit Number: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: TX23988R Type: 7162426 Serial No: 7.1 7.1 7.1 7.1 Jts: 7.1 7.1 7.1 7.1 Depth Out (m): 459.00 Depth In (m): 1145.00 Total Drilled (m): 5.25 Hrs Run Today: 16.25 Cumulative Hrs Run: 01-Feb-2017 Entry Date: 01-Feb-2017 Cutter Structure: TO: 70.46, MDC: 70.46, LOC: 70.46, BSG: 70.46										DRILLING ASSEMBLY No: 1, Component: 200mm PDC Bit, OD: 200, ID: 1, Length: 0.30 No: 1, Component: 650ML Motor, OD: 165, ID: 1, Length: 8.49 No: 1, Component: NMDC Slick, OD: 164, ID: 72, Length: 9.48 No: 1, Component: Gap Sub, OD: 161, ID: 79, Length: 1.61 No: 1, Component: NMDC Slick, OD: 164, ID: 72, Length: 9.08 No: 1, Component: 4H90 x 4.5XH X/O, OD: 171, ID: 72, Length: 0.46 No: 1, Component: 6 1/2" Drill Collar, OD: 167, ID: 59, Length: 37.88 No: 1, Component: 6.5" Drill Collar, OD: 166, ID: 59, Length: 9.33 No: 1, Component: 6 1/2" Drill Collar, OD: 167, ID: 59, Length: 9.33 No: 1, Component: 4H90 X DS40 X/O, OD: 163, ID: 58, Length: 0.79 No: 2, Component: 4" CDS40 HWDP, OD: 101, ID: 65, Length: 18.96 No: 1, Component: Drilling Jars, OD: 163, ID: 60, Length: 5.24 No: 46, Component: 4" CDS40 HWDP, OD: 101, ID: 65, Length: 18.96 No: 37, Component: Drill Pipe, OD: 107, ID: 70, Length: 17.10 No: 0, Component: Drill Pipe, OD: 107, ID: 70, Length: 17.10										MUD RECORD Mud Type: Water, Other: <input checked="" type="checkbox"/> Time: 05:30, Density: 1150, Funnel Viscosity: 31, Fluid Loss: 10.5, pH: 10.5, Location Of Sample: Shakers, Depth: 1514.00, PVT: 53.37 Circulation: Pump # 1, Type PARALLEL, Liner Size 127, SPM 90, Pressure 23000, Hs Run 8.00 Pump # 2, Type PARALLEL, Liner Size 127, SPM 90, Pressure 23000, Hs Run 8.00 Remarks:										DEVIATION SURVEYS Time, Depth, Deviation, Direction, Type SOLIDS CONTROL Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density MUD MATERIALS ADDED Product, Amount, Type Remarks: Boiler#2 fuel @ 05:00hrs = 7452 litres. Hazard ID: Observed a hand walk towards a set of stairs with two pails full of fluid. Once the worker got to the stairs he stopped & left one pail at the bottom of the stairs to maintain three point contact.										TIME LOG From, To, Elapsed, Code, Details Of Operations In Sequence & Remarks SAFETY Safety Topic, MEHL, MACP H2S Man Down Drill, 80, 3130									

TOUR 2 SIGNATURE OF DRILLER Jordan Cawsey										START TIME 8:00		END TIME 16:00																																					
BITS Bit Number: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: TX23988R Type: 7162426 Serial No: 7.1 7.1 7.1 7.1 Jts: 7.1 7.1 7.1 7.1 Depth Out (m): 459.00 Depth In (m): 1230.00 Total Drilled (m): 6.50 Hrs Run Today: 22.75 Cumulative Hrs Run: 01-Feb-2017 Entry Date: 01-Feb-2017 Cutter Structure: TO: 54.07, MDC: 54.07, LOC: 54.07, BSG: 54.07										DRILLING ASSEMBLY No: 1, Component: 200mm PDC Bit, OD: 200, ID: 1, Length: 0.30 No: 1, Component: 650ML Motor, OD: 165, ID: 1, Length: 8.49 No: 1, Component: NMDC Slick, OD: 164, ID: 72, Length: 9.48 No: 1, Component: Gap Sub, OD: 161, ID: 79, Length: 1.61 No: 1, Component: NMDC Slick, OD: 164, ID: 72, Length: 9.08 No: 1, Component: 4H90 x 4.5XH X/O, OD: 171, ID: 72, Length: 0.46 No: 1, Component: 6 1/2" Drill Collar, OD: 167, ID: 59, Length: 37.88 No: 1, Component: 6.5" Drill Collar, OD: 166, ID: 59, Length: 9.33 No: 1, Component: 6 1/2" Drill Collar, OD: 167, ID: 59, Length: 9.33 No: 1, Component: 4H90 X DS40 X/O, OD: 163, ID: 58, Length: 0.79 No: 2, Component: 4" CDS40 HWDP, OD: 101, ID: 65, Length: 18.96 No: 1, Component: Drilling Jars, OD: 163, ID: 60, Length: 5.24 No: 46, Component: 4" CDS40 HWDP, OD: 101, ID: 65, Length: 18.96 No: 40, Component: Drill Pipe, OD: 116, ID: 49, Length: 16.49 No: 0, Component: Drill Pipe, OD: 116, ID: 49, Length: 16.49										MUD RECORD Mud Type: Water, Other: <input checked="" type="checkbox"/> Time: 15:15, Density: 1155, Funnel Viscosity: 31, Fluid Loss: 10, pH: 10, Location Of Sample: Trough, Depth: 1682.00, PVT: 50.22 Circulation: Pump # 1, Type COINED, Liner Size 127, SPM 90, Pressure 23300, Hs Run 8.00 Pump # 2, Type COINED, Liner Size 127, SPM 90, Pressure 23300, Hs Run 8.00 Remarks:										DEVIATION SURVEYS Time, Depth, Deviation, Direction, Type SOLIDS CONTROL Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density MUD MATERIALS ADDED Product, Amount, Type Remarks: **Drilling Services Manager Steve Schembri on location for rig tour** Hazard ID: After a connection the floorhands forgot to replace the rotary barrier sign / I called them back up and reminded them to do it.										TIME LOG From, To, Elapsed, Code, Details Of Operations In Sequence & Remarks SAFETY Safety Topic, MEHL, MACP Brine Exposure, 75, 3130									

TOUR 3 SIGNATURE OF DRILLER Justin Holt										START TIME 16:00		END TIME 24:00																																					
BITS Bit Number: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: TX23988R Type: 7162426 Serial No: 7.1 7.1 7.1 7.1 Jts: 7.1 7.1 7.1 7.1 Depth Out (m): 459.00 Depth In (m): 1243.00 Total Drilled (m): 0.75 Hrs Run Today: 23.50 Cumulative Hrs Run: 01-Feb-2017 Entry Date: 01-Feb-2017 Cutter Structure: TO: 52.89, MDC: 52.89, LOC: 52.89, BSG: 52.89										DRILLING ASSEMBLY No: 1, Component: 200mm PDC Bit, OD: 200, ID: 1, Length: 0.30 No: 1, Component: 650ML Motor, OD: 165, ID: 1, Length: 8.49 No: 1, Component: NMDC Slick, OD: 164, ID: 72, Length: 9.48 No: 1, Component: Gap Sub, OD: 161, ID: 79, Length: 1.61 No: 1, Component: NMDC Slick, OD: 164, ID: 72, Length: 9.08 No: 1, Component: 4H90 x 4.5XH X/O, OD: 171, ID: 72, Length: 0.46 No: 1, Component: 6 1/2" Drill Collar, OD: 167, ID: 59, Length: 37.88 No: 1, Component: 6.5" Drill Collar, OD: 166, ID: 59, Length: 9.33 No: 1, Component: 6 1/2" Drill Collar, OD: 167, ID: 59, Length: 9.33 No: 1, Component: 4H90 X DS40 X/O, OD: 163, ID: 58, Length: 0.79 No: 2, Component: 4" CDS40 HWDP, OD: 101, ID: 65, Length: 18.96 No: 1, Component: Drilling Jars, OD: 163, ID: 60, Length: 5.24 No: 46, Component: 4" CDS40 HWDP, OD: 101, ID: 65, Length: 18.96 No: 40, Component: Drill Pipe, OD: 116, ID: 49, Length: 16.49 No: 0, Component: Drill Pipe, OD: 116, ID: 49, Length: 16.49										MUD RECORD Mud Type: Water, Other: <input checked="" type="checkbox"/> Time: 23:45, Density: 1155, Funnel Viscosity: 30, Fluid Loss: 10.5, pH: 10.5, Location Of Sample: Suction#2, Depth: 1702.00, PVT: 36.24 Circulation: Pump # 1, Type COINED, Liner Size 127, SPM 90, Pressure 20500, Hs Run 2.00 Pump # 2, Type COINED, Liner Size 127, SPM 90, Pressure 20500, Hs Run 2.00 Remarks:										DEVIATION SURVEYS Time, Depth, Deviation, Direction, Type SOLIDS CONTROL Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density MUD MATERIALS ADDED Product, Amount, Type Remarks: Hazard ID: Worker was signalling the Driller to link out while the Top Drive was in the area of the Monkey board when handling tools... Stopped worker from signalling the Driller & explained to him that we can't link out close to the Monkey Board as the monkey board collision system will not allow it.										TIME LOG From, To, Elapsed, Code, Details Of Operations In Sequence & Remarks SAFETY Safety Topic, MEHL, MACP Tripping/Handling directional tools, 76, 3085									

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License No 32312 Well Name ARCRES HZ PARKLAND E12-07-081-16 Contractor Beaver Drilling Ltd. Operator's # 17DR0012 Signature of Operator's Representative Chris Baehl										BEAV15AC 20170203 1A Surface Location 12-7-81-16 W6 Prov BC Loc Type DLS Unique Well ID 10005-08-081-16W6/00 Rms 15AC Horiz HORIZ Spud Date Time 20-Dec-2016 21:45										(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/monthly) (9) CADC Rig Safety Inspection Checklist (weekly/monthly) (10) Major Risks Checked (11) Minor Risks Checked										 																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Lay down Mud Motor. Pick up new Mud Motor, 1-stand of Flex NMDC's, lay down 1- joint of NMDC's. Break NMDC's, pick up Gap sub, build EM tool, make up Gap sub to NMDC's. Program EM tool. Offset Mud Motor to Gap sub. Make up PDC Bit #3. Pick up & make up 1- joint of NMDC's. Flow check @ 0m MD. Trip record; Measure 13.04m3, Calculated 7.98m3, Difference +5.06m3. Review JSA. Trip in 2- joints of CDS40 HWDP, pick up & make up Drilling Jars. Trip in the hole from 62m to 469m MD. Flow Check & fill pipe @ 469m MD. (Verify connection torque on all tubulars) 4:00 4:15 0.25 7 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 16 seconds to close, ok. 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 and Dean Boehmert. 4:15 7:30 3.25 6A Continue to trip in the hole @ 30m/min from 469m to 1250m MD. Flow check & fill pipe @ 857m MD. (Verify connection torque on all tubulars) 7:30 8:00 0.50 21 Crew handover meeting & safety discussion. Discuss hazard idá s & daily events. </td> </tr> <tr> <td>Manufacturer</td><td>Halliburton</td> <td>1</td><td>NM Flex</td><td>164</td><td>72</td><td>9.41</td> <td>Density</td><td>1155</td><td>1155</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Type</td><td>MMD64M</td> <td>1</td><td>Gap Sub</td><td>161</td><td>79</td><td>1.61</td> <td>Funnel Viscosity</td><td>30</td><td>30</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Serial No</td><td>12875725</td> <td>2</td><td>NM Flex</td><td>164</td><td>72</td><td>18.54</td> <td>Fluid Loss</td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>JMS</td><td>7.95 7.95 8.7 8.7</td> <td>1</td><td>CDS40B x 4.530P X2D</td><td>163</td><td>60</td><td>0.76</td> <td>pH</td><td>10.5</td><td>10.5</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Depth Out (m)</td><td></td> <td>2</td><td>4" CDS40 HWDP</td><td>101</td><td>65</td><td>18.96</td> <td>Location Of Sample</td><td>Suction 2</td><td>Suction 2</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Depth In (m)</td><td></td> <td>1</td><td>Drilling Jars</td><td>163</td><td>60</td><td>5.24</td> <td>Depth</td><td>1702.00</td><td>1702.00</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Total Drilled (m)</td><td></td> <td>46</td><td>4" CDS40 HWDP</td><td>101</td><td>65</td><td>18.96</td> <td>PVT</td><td>36.84</td><td>41.49</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Hrs Run Today</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> </tr> <tr> <td>Cumulative Hrs Run</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> </tr> <tr> <td>Entry Date</td><td>02-Feb-2017</td> <td>42</td><td>Drill Pipe</td><td>Stand</td><td>1222.72</td><td></td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td> <td>0</td><td>Drill Pipe</td><td>Singles</td><td>0.00</td><td></td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td colspan="2">CUTTING STRUCTURE</td> <td colspan="4">Kelly Down</td><td colspan="4">Total</td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td>TO</td><td>3</td><td>OD</td><td>WT</td><td></td><td></td> <td colspan="4">1702.00</td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td>LOC</td><td>BT</td><td></td><td>BHA</td><td></td><td></td> <td colspan="4">24.00</td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td>BWG</td><td>S</td><td></td><td>52.89</td><td></td><td></td> <td colspan="4">53.00</td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td colspan="2">METRES DRILLED</td> <td colspan="4">HOLE CONDITION</td> <td colspan="4">REDUCED PUMP SPEED</td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td>From</td><td>To</td><td>D-R-C</td><td>RPM</td><td>WOB</td> <td>Hole Drag</td><td>Up</td><td>0</td><td>Down</td><td>0</td> <td>Pump #</td><td>Pressure</td><td>Strokes/min</td><td>Depth</td> <td colspan="4"></td> </tr> <tr> <td>1702.00</td><td>1702.00</td><td>DRILL</td><td>35</td><td>13</td> <td>Torque At Bottom</td><td></td><td>0</td><td></td><td></td> <td>2</td><td>2130</td><td>@</td><td>60</td><td>@</td><td>469.00</td> <td colspan="4"></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td> <td>Fill On Bottom</td><td></td><td>0.00</td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td> <td colspan="4"></td> </tr> <tr> <td colspan="25">TOUR 2 SIGNATURE OF DRILLER Jordan Casway START TIME 8:00 END TIME 16:00</td> </tr> <tr> <td colspan="25"> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">BITS</th> <th colspan="4">DRILLING ASSEMBLY</th> <th colspan="4">MUD RECORD</th> <th colspan="4">DEVIATION SURVEYS</th> <th colspan="4">TIME LOG</th> </tr> </thead> <tbody> <tr> <td>Bit Number</td><td>3</td> <td>No</td><td>Component</td><td>OD</td><td>ID</td><td>Length</td> <td>Mud Type</td><td>Water</td><td>Oil</td> <td>Time</td><td>Depth</td><td>Deviation</td><td>Direction</td><td>Type</td> <td>From</td><td>To</td><td>Elapsed</td><td>Code</td> </tr> <tr> <td>Size</td><td>200</td> <td>1</td><td>200mm PDC Bit</td><td>200</td><td>1</td><td>0.25</td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td>8:00</td><td>8:45</td><td>0:75</td><td>6A</td> </tr> <tr> <td>IADC Code</td><td></td> <td>1</td><td>650ML Motor</td><td>165</td><td>1</td><td>8.51</td> <td>Time</td><td>08:15</td><td>10:00</td> <td></td><td></td><td></td><td></td><td></td> <td colspan="4" rowspan="10"> Details of Operations In Sequence & Remarks Review JSA. Continue to trip in the hole @ 30m/min from 1250m to 1610m MD. Fill pipe @ 600m intervals. Wash through bridge at 1542m and 1610m MD. (Verify connection torque of all tubulars) Trip Record: Measure: 8.32m3, Calculated: 13.79m3, Difference: 5.47m3. 8:45 9:30 0:75 3A Wash to bottom from 1610m to 1702m MD. Pump Rate- 1.4m3/min and Rotary- 30 RPM. 9:30 12:30 3:00 2 Directional Drill Build section of 200mm main hole from 1702m to 1751m MD. Pump Rate - 1.8 m3/min, WOB - 13 kdaN, Rotary - 30 RPM, Pump Pressure - 20,000 kPa, Torque - 10,000 ft/lbs, Diff Pressure - 4,000 kPa. (Sliding Parameters: WOB- 11 kdaN, Diff Pressure- 2,200 kPa.) KOP @ 1712m MD. 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 I-BOP & functioned lower manual I-BOP. Visual inspection & service of PS-21 slips & inserts. Functioned Upper Pipe Rams 6 seconds to close, ok. 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 Shaun Low and Chris Baehl. 13:00 14:00 1:00 2 Directional Drill Build section of 200mm main hole from 1751m to 1803m MD. Pump Rate - 1.8 m3/min, WOB - 13 kdaN, Rotary - 35 RPM, Pump Pressure - 22,000 kPa, Torque - 11,000 ft/lbs, Diff Pressure - 4,000 kPa. (Sliding Parameters: WOB- 12kdaN, Diff Pressure- 2,200 kPa.) **Performed weekly service and inspection of STV** **Performed weekly inspection of rear e-gress equipment and simulated a launch by Matt Zebedee** Hazard ID: Elevators were not fully latched on connection and worker gave me thumbs up that they were / stopped and showed him what to look for so he wasn't giving me false signals. </td> </tr> <tr> <td>Manufacturer</td><td>Halliburton</td> <td>1</td><td>NM Flex</td><td>164</td><td>72</td><td>9.41</td> <td>Density</td><td>1155</td><td>1155</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Type</td><td>MMD64M</td> <td>1</td><td>Gap Sub</td><td>161</td><td>79</td><td>1.61</td> <td>Funnel Viscosity</td><td>30</td><td>30</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Serial No</td><td>12875725</td> <td>2</td><td>NM Flex</td><td>164</td><td>72</td><td>18.54</td> <td>Fluid Loss</td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>JMS</td><td>7.95 7.95 8.7 8.7</td> <td>1</td><td>CDS40B x 4.530P X2D</td><td>163</td><td>60</td><td>0.76</td> <td>pH</td><td>10.5</td><td>10</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Depth Out (m)</td><td></td> <td>2</td><td>4" CDS40 HWDP</td><td>101</td><td>65</td><td>18.96</td> <td>Location Of Sample</td><td>suction#2</td><td>trough</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Depth In (m)</td><td></td> <td>1</td><td>Drilling Jars</td><td>163</td><td>60</td><td>5.24</td> <td>Depth</td><td>1702.00</td><td>1712.90</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Total Drilled (m)</td><td></td> <td>46</td><td>4" CDS40 HWDP</td><td>101</td><td>65</td><td>18.96</td> <td>PVT</td><td>43</td><td>42</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Hrs Run Today</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> </tr> <tr> <td>Cumulative Hrs Run</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> </tr> <tr> <td>Entry Date</td><td>02-Feb-2017</td> <td>45</td><td>Drill Pipe</td><td>Stand</td><td>1310.09</td><td></td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td> <td>0</td><td>Drill Pipe</td><td>Singles</td><td>0.00</td><td></td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td colspan="2">CUTTING STRUCTURE</td> <td colspan="4">Kelly Down</td><td colspan="4">Total</td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td>TO</td><td>3</td><td>OD</td><td>WT</td><td></td><td></td> <td colspan="4">1803.00</td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td>LOC</td><td>BT</td><td></td><td>BHA</td><td></td><td></td> <td colspan="4">24.00</td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td>BWG</td><td>S</td><td></td><td>25.25</td><td></td><td></td> <td colspan="4">70.00</td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td colspan="2">METRES DRILLED</td> <td colspan="4">HOLE CONDITION</td> <td colspan="4">REDUCED PUMP SPEED</td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td>From</td><td>To</td><td>D-R-C</td><td>RPM</td><td>WOB</td> <td>Hole Drag</td><td>Up</td><td>0</td><td>Down</td><td>3</td> <td>Pump #</td><td>Pressure</td><td>Strokes/min</td><td>Depth</td> <td colspan="4"></td> </tr> <tr> <td>1702.00</td><td>1803.00</td><td>DRILL</td><td>35</td><td>13</td> <td>Torque At Bottom</td><td></td><td>10000</td><td></td><td></td> <td>1</td><td>3300</td><td>@</td><td>60</td><td>@</td><td>1750.00</td> <td colspan="4"></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td> <td>Fill On Bottom</td><td></td><td>0.00</td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td> <td colspan="4"></td> </tr> <tr> <td colspan="25">TOUR 3 SIGNATURE OF DRILLER Justin Holt START TIME 16:00 END TIME 24:00</td> </tr> <tr> <td colspan="25"> <table border="1" style="width:100%; 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Pump Rate - 1.6 m3/min, WOB - 13 kdaN, Rotary - 35 RPM, Pump Pressure - 18,100 kPa, Torque - 10,000 ft/lbs, Diff Pressure - 3,900 kPa. (Sliding Parameters: WOB- 12kdaN, Diff Pressure- 1,900 kPa.) Reduce Pump Rate and WOB for Halfway and Doig formations. 19:00 19:30 0:50 21D Crew hand-over meeting & safety discussion. Discuss hazard idá s & daily events. 19:30 22:00 2:50 2 Directional Drill Build section of 200mm main hole from 1842m to 1881m MD. Pump Rate - 1.6 m3/min, WOB - 14 kdaN, Rotary - 35 RPM, Pump Pressure - 16,500 kPa, Torque - 10,000 ft/lbs, Diff Pressure - 2,000 kPa. 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Lay down Mud Motor. Pick up new Mud Motor, 1-stand of Flex NMDC's, lay down 1- joint of NMDC's. Break NMDC's, pick up Gap sub, build EM tool, make up Gap sub to NMDC's. Program EM tool. Offset Mud Motor to Gap sub. Make up PDC Bit #3. Pick up & make up 1- joint of NMDC's. Flow check @ 0m MD. Trip record; Measure 13.04m3, Calculated 7.98m3, Difference +5.06m3. Review JSA. Trip in 2- joints of CDS40 HWDP, pick up & make up Drilling Jars. Trip in the hole from 62m to 469m MD. Flow Check & fill pipe @ 469m MD. (Verify connection torque on all tubulars) 4:00 4:15 0.25 7 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 16 seconds to close, ok. 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 and Dean Boehmert. 4:15 7:30 3.25 6A Continue to trip in the hole @ 30m/min from 469m to 1250m MD. Flow check & fill pipe @ 857m MD. (Verify connection torque on all tubulars) 7:30 8:00 0.50 21 Crew handover meeting & safety discussion. Discuss hazard idá s & daily events.				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Manufacturer	Halliburton	1	NM Flex	164	72	9.41	Density	1155	1155						Type	MMD64M	1	Gap Sub	161	79	1.61	Funnel Viscosity	30	30						Serial No	12875725	2	NM Flex	164	72	18.54	Fluid Loss								JMS	7.95 7.95 8.7 8.7	1	CDS40B x 4.530P X2D	163	60	0.76	pH	10.5	10						Depth Out (m)		2	4" CDS40 HWDP	101	65	18.96	Location Of Sample	suction#2	trough						Depth In (m)		1	Drilling Jars	163	60	5.24	Depth	1702.00	1712.90						Total Drilled (m)		46	4" CDS40 HWDP	101	65	18.96	PVT	43	42						Hrs Run Today															Cumulative Hrs Run															Entry Date	02-Feb-2017	45	Drill Pipe	Stand	1310.09												0	Drill Pipe	Singles	0.00										CUTTING STRUCTURE		Kelly Down				Total												TO	3	OD	WT			1803.00												LOC	BT		BHA			24.00												BWG	S		25.25			70.00												METRES DRILLED		HOLE CONDITION				REDUCED PUMP SPEED												From	To	D-R-C	RPM	WOB	Hole Drag	Up	0	Down	3	Pump #	Pressure	Strokes/min	Depth					1702.00	1803.00	DRILL	35	13	Torque At Bottom		10000			1	3300	@	60	@	1750.00										Fill On Bottom		0.00													TOUR 3 SIGNATURE OF DRILLER Justin Holt START TIME 16:00 END TIME 24:00																									<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">BITS</th> <th colspan="4">DRILLING ASSEMBLY</th> <th colspan="4">MUD RECORD</th> <th colspan="4">DEVIATION SURVEYS</th> <th colspan="4">TIME LOG</th> </tr> </thead> <tbody> <tr> <td>Bit Number</td><td>3</td> <td>No</td><td>Component</td><td>OD</td><td>ID</td><td>Length</td> <td>Mud Type</td><td>Water</td><td>Oil</td> <td>Time</td><td>Depth</td><td>Deviation</td><td>Direction</td><td>Type</td> <td>From</td><td>To</td><td>Elapsed</td><td>Code</td> </tr> <tr> <td>Size</td><td>200</td> <td>1</td><td>200mm PDC Bit</td><td>200</td><td>1</td><td>0.25</td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td>16:00</td><td>19:00</td><td>3:00</td><td>2</td> </tr> <tr> <td>IADC Code</td><td></td> <td>1</td><td>650ML Motor</td><td>165</td><td>1</td><td>8.51</td> <td>Time</td><td>18:45</td><td>21:30</td> <td></td><td></td><td></td><td></td><td></td> <td colspan="4" rowspan="10"> Details of Operations In Sequence & Remarks Directional Drill Build section of 200mm main hole from 1803m to 1842m MD. Pump Rate - 1.6 m3/min, WOB - 13 kdaN, Rotary - 35 RPM, Pump Pressure - 18,100 kPa, Torque - 10,000 ft/lbs, Diff Pressure - 3,900 kPa. (Sliding Parameters: WOB- 12kdaN, Diff Pressure- 1,900 kPa.) Reduce Pump Rate and WOB for Halfway and Doig formations. 19:00 19:30 0:50 21D Crew hand-over meeting & safety discussion. Discuss hazard idá s & daily events. 19:30 22:00 2:50 2 Directional Drill Build section of 200mm main hole from 1842m to 1881m MD. Pump Rate - 1.6 m3/min, WOB - 14 kdaN, Rotary - 35 RPM, Pump Pressure - 16,500 kPa, Torque - 10,000 ft/lbs, Diff Pressure - 2,000 kPa. (Sliding Parameters: WOB- 16 kdaN, Diff Pressure- 1,200 kPa.) 22:00 24:00 2:00 20A Accumulated EM survey & connection time. </td> </tr> <tr> <td>Manufacturer</td><td>Halliburton</td> <td>1</td><td>NM Flex</td><td>164</td><td>72</td><td>9.41</td> <td>Density</td><td>1145</td><td>1145</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Type</td><td>MMD64M</td> <td>1</td><td>Gap Sub</td><td>161</td><td>79</td><td>1.61</td> <td>Funnel Viscosity</td><td>30</td><td>30</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Serial No</td><td>12875725</td> <td>2</td><td>NM Flex</td><td>164</td><td>72</td><td>18.54</td> <td>Fluid Loss</td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>JMS</td><td>7.95 7.95 8.7 8.7</td> <td>1</td><td>CDS40B x 4.530P X2D</td><td>163</td><td>60</td><td>0.76</td> <td>pH</td><td>11</td><td>11</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Depth Out (m)</td><td></td> <td>2</td><td>4" CDS40 HWDP</td><td>101</td><td>65</td><td>18.96</td> <td>Location Of Sample</td><td>trough</td><td>Shakers</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Depth In (m)</td><td></td> <td>1</td><td>Drilling Jars</td><td>163</td><td>60</td><td>5.24</td> <td>Depth</td><td>1840.00</td><td>1861.00</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Total Drilled (m)</td><td></td> <td>46</td><td>4" CDS40 HWDP</td><td>101</td><td>65</td><td>18.96</td> <td>PVT</td><td>39.7</td><td>41.77</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Hrs Run Today</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> </tr> <tr> <td>Cumulative Hrs Run</td></tr></tbody></table>																									BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG				Bit Number	3	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Size	200	1	200mm PDC Bit	200	1	0.25									16:00	19:00	3:00	2	IADC Code		1	650ML Motor	165	1	8.51	Time	18:45	21:30						Details of Operations In Sequence & Remarks Directional Drill Build section of 200mm main hole from 1803m to 1842m MD. 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IADC Code		1	650ML Motor	165	1	8.51	Time	02:00	04:00						Details of Operations In Sequence & Remarks Continue to handle Dynamic directional tools; Break out PDC Bit #2. Lay down Mud Motor. Pick up new Mud Motor, 1-stand of Flex NMDC's, lay down 1- joint of NMDC's. Break NMDC's, pick up Gap sub, build EM tool, make up Gap sub to NMDC's. Program EM tool. Offset Mud Motor to Gap sub. Make up PDC Bit #3. Pick up & make up 1- joint of NMDC's. Flow check @ 0m MD. Trip record; Measure 13.04m3, Calculated 7.98m3, Difference +5.06m3. Review JSA. Trip in 2- joints of CDS40 HWDP, pick up & make up Drilling Jars. Trip in the hole from 62m to 469m MD. Flow Check & fill pipe @ 469m MD. (Verify connection torque on all tubulars) 4:00 4:15 0.25 7 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 16 seconds to close, ok. 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 and Dean Boehmert. 4:15 7:30 3.25 6A Continue to trip in the hole @ 30m/min from 469m to 1250m MD. Flow check & fill pipe @ 857m MD. (Verify connection torque on all tubulars) 7:30 8:00 0.50 21 Crew handover meeting & safety discussion. Discuss hazard idá s & daily events.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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IADC Code		1	650ML Motor	165	1	8.51	Time	08:15	10:00						Details of Operations In Sequence & Remarks Review JSA. Continue to trip in the hole @ 30m/min from 1250m to 1610m MD. Fill pipe @ 600m intervals. Wash through bridge at 1542m and 1610m MD. (Verify connection torque of all tubulars) Trip Record: Measure: 8.32m3, Calculated: 13.79m3, Difference: 5.47m3. 8:45 9:30 0:75 3A Wash to bottom from 1610m to 1702m MD. Pump Rate- 1.4m3/min and Rotary- 30 RPM. 9:30 12:30 3:00 2 Directional Drill Build section of 200mm main hole from 1702m to 1751m MD. Pump Rate - 1.8 m3/min, WOB - 13 kdaN, Rotary - 30 RPM, Pump Pressure - 20,000 kPa, Torque - 10,000 ft/lbs, Diff Pressure - 4,000 kPa. (Sliding Parameters: WOB- 11 kdaN, Diff Pressure- 2,200 kPa.) KOP @ 1712m MD. 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 I-BOP & functioned lower manual I-BOP. Visual inspection & service of PS-21 slips & inserts. Functioned Upper Pipe Rams 6 seconds to close, ok. 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 Shaun Low and Chris Baehl. 13:00 14:00 1:00 2 Directional Drill Build section of 200mm main hole from 1751m to 1803m MD. Pump Rate - 1.8 m3/min, WOB - 13 kdaN, Rotary - 35 RPM, Pump Pressure - 22,000 kPa, Torque - 11,000 ft/lbs, Diff Pressure - 4,000 kPa. (Sliding Parameters: WOB- 12kdaN, Diff Pressure- 2,200 kPa.) **Performed weekly service and inspection of STV** **Performed weekly inspection of rear e-gress equipment and simulated a launch by Matt Zebedee** Hazard ID: Elevators were not fully latched on connection and worker gave me thumbs up that they were / stopped and showed him what to look for so he wasn't giving me false signals.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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IADC Code		1	650ML Motor	165	1	8.51	Time	18:45	21:30						Details of Operations In Sequence & Remarks Directional Drill Build section of 200mm main hole from 1803m to 1842m MD. Pump Rate - 1.6 m3/min, WOB - 13 kdaN, Rotary - 35 RPM, Pump Pressure - 18,100 kPa, Torque - 10,000 ft/lbs, Diff Pressure - 3,900 kPa. (Sliding Parameters: WOB- 12kdaN, Diff Pressure- 1,900 kPa.) Reduce Pump Rate and WOB for Halfway and Doig formations. 19:00 19:30 0:50 21D Crew hand-over meeting & safety discussion. Discuss hazard idá s & daily events. 19:30 22:00 2:50 2 Directional Drill Build section of 200mm main hole from 1842m to 1881m MD. Pump Rate - 1.6 m3/min, WOB - 14 kdaN, Rotary - 35 RPM, Pump Pressure - 16,500 kPa, Torque - 10,000 ft/lbs, Diff Pressure - 2,000 kPa. (Sliding Parameters: WOB- 16 kdaN, Diff Pressure- 1,200 kPa.) 22:00 24:00 2:00 20A Accumulated EM survey & connection time.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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FRONT PAGE SUMMARY										Your Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM	
32312 ARCRES HZ PARKLAND E12-07-081-16										BEAV15AC 20170206 1B		RMS 2016.6.14.37064		2017		02		06		(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 (8) BOP / H2S man down drill while out of hole. Simulated a hard shut in. Crew evacuated to upwind muster area. Well secured in 90 seconds. Practiced rescue routes. 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. (9) Prepare new Gap sub. Break flex monels. Makeup new Gap sub & EM tool. Power on EM tool. Scribe motor. Makeup 1-flex monel, x/o, slide reamer and Jars with 5-101.6mm DP.										CAADC	
ARC Resources Ltd. Operator's Name: Chris Baehl										Beaver Drilling Ltd. Contractor's Name: Shaun Low		15AC		HORIZ		20-Dec-2016		21:45		(1) Rig Site Health & Safety Meeting (once/monthly) (2) CAADC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked										NOV	
17DR0012 Signature of Operator's Representative: Chris Baehl										0X47 Signature of Contractor's Rig Manager: Shaun Low		15AC		HORIZ		20-Dec-2016		21:45		(1) Rig Site Health & Safety Meeting (once/monthly) (2) CAADC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked										NOV	
Code										1		SIGNATURE OF DRILLER		Justin Holt		START TIME		0:00		END TIME		8:00									

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License No 32312 Well Name ARGRES HZ PARKLAND E12-07-081-16										BEAV15AC 20170206 1B		RMS 2016.6.14.37064		2017		02		06		(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 Scaled (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (8) H2S Signs Posted if Required (9) H2S Signs Posted if Required (10) H2S Signs Posted if Required (11) H2S Signs Posted if Required (12) H2S Signs Posted if Required (13) H2S Signs Posted if Required (14) H2S Signs Posted if Required (15) H2S Signs Posted if Required (16) H2S Signs Posted if Required (17) H2S Signs Posted if Required (18) H2S Signs Posted if Required (19) H2S Signs Posted if Required (20) H2S Signs Posted if Required (21) H2S Signs Posted if Required (22) H2S Signs Posted if Required (23) H2S Signs Posted if Required (24) H2S Signs Posted if Required (25) H2S Signs Posted if Required										 			
Contractor Beaver Drilling Ltd.										Prox BC		Loc Type DLS		Unique Well Id 10005-08-081-16W6/00		Rig No 15AC		Well Type HORIZ		Re Entry <input type="checkbox"/>													
Operator's Name Chris Baehl										Contractor's License No 0047		Spot Date Time 20-Dec-2016		21:45																			
Signature of Operator's Representative Chris Baehl										Signature of Contractor's Rig Manager Shaun Low																							

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	FUEL @ 08:00 HRS	
Tour 1		4.50							0.50												2.50	0.50				8.00	18626
Tour 2		0.75				0.75	3.50	0.50													2.00	0.50				8.00	06:00
Tour 3							3.50														3.75	0.75				8.00	PARTLY CLOUDY
TOTAL		5.25				0.75	7.00	1.00													8.25	1.75				24.00	WEATHER FAIR

TOUR 1		SIGNATURE OF DRILLER Justin Holt		START TIME 0:00		END TIME 8:00	
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BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 4	Size 159	No 1	Component 159mm PDC Bit	OD 159	ID 159	Length 1.022	Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/>	Time 03:15	Depth 2288.10
IADC Code	Reed	No 1	475 Mud Motor	121	1	9.10	Time 06:00	Depth 2302.24	Deviation 90.26
Manufacturer	SK413M-A1G-Z	No 1	475 Flex monel	121	68	9.49	Density 1160	Depth 2316.49	Deviation 89.96
Type	E231879	No 1	Gap sub	121	62	1.71	Funnel Viscosity 61	Depth 2330.66	Deviation 90.04
Serial No	9.5	No 1	475 Flex monel	121	68	18.72	Fluid Loss	Depth 2344.91	Deviation 88.95
Jts	9.5	No 1	3.5F x CD540 X/O	128	57	0.82	pH	Depth 2359.16	Deviation 89.08
Depth Out (m)	2140.00	No 1	Slide reamer	127	58	1.38	Location Of Sample Shakers		
Depth In (m)	346.00	No 1	4" CD540 Drill Pipe	102	64	48.50	Depth 2401.00		
Total Drilled (m)	4.50	No 1	126mm Jars	126	60	6.18	PVT 57.98		
Hrs Run Today	5.50	No 1	Agitator	120	58	7.97	Circulation		
Cumulative Hrs Run	0.00	No 1	4" CD540 Drill Pipe	102	64	48.50	Pump # 1	Type SINGLE	Liner Size 127
Entry Date 05-Feb-2017		No 1	4" CD540 HWDP	101	65	26.33	Pressure 32500	Hs Run 6.00	
CUTTING STRUCTURE		No 1	0 Drill Pipe	Standards 0.00	Remarks Recieved 25m3 of Used Invert				
TO	1	No 1	0 Drill Pipe	Singles 0.00					
MO	1	No 1	0 Drill Pipe	Singles 0.00					
LO	1	No 1	0 Drill Pipe	Singles 0.00					
BO	1	No 1	0 Drill Pipe	Singles 0.00					
REDUCED PUMP SPEED		No 1	0 Drill Pipe	Singles 0.00					
From	To	D-R-C	RPM	WOB					
HOLE CONDITION		No 1	0 Drill Pipe	Singles 0.00					
Hole Drag Up	2	Down	4						
Torque At Bottom	8700								
Fill On Bottom	0.00								
TOUR 2	SIGNATURE OF DRILLER Jordan Cawsey		START TIME 8:00		END TIME 16:00				

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 4	Size 159	No 1	Component 159mm PDC Bit	OD 159	ID 159	Length 1.022	Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/>	Time 10:15	Depth 2558.71
IADC Code	Reed	No 1	475 Mud Motor	121	1	9.10	Time 14:45	Depth 2572.96	Deviation 89.87
Manufacturer	SK413M-A1G-Z	No 1	475 Flex monel	121	68	9.49	Density 1155	Depth 2587.21	Deviation 115.46
Type	E231879	No 1	Gap sub	121	62	1.71	Funnel Viscosity 74	Depth 2601.46	Deviation 89.87
Serial No	9.5	No 1	475 Flex monel	121	68	18.72	Fluid Loss	Depth 2615.71	Deviation 89.87
Jts	9.5	No 1	3.5F x CD540 X/O	128	57	0.82	pH	Depth 2630.00	Deviation 89.87
Depth Out (m)	2582.00	No 1	Slide reamer	127	58	1.38	Location Of Sample TANK #2	Depth 2644.25	Deviation 89.87
Depth In (m)	2140.00	No 1	4" CD540 Drill Pipe	102	64	48.50	Depth 2658.50	Deviation 89.87	
Total Drilled (m)	442.00	No 1	126mm Jars	126	60	6.18	PVT 43.3	Deviation 89.87	
Hrs Run Today	0.75	No 1	Agitator	120	58	7.97	Circulation	Deviation 89.87	
Cumulative Hrs Run	6.25	No 1	4" CD540 Drill Pipe	102	64	48.50	Pump # 1	Type SINGLE	Liner Size 127
Entry Date 05-Feb-2017		No 1	4" CD540 HWDP	101	65	26.33	Pressure 32500	Hs Run 3.00	
CUTTING STRUCTURE		No 1	0 Drill Pipe	Standards 0.00	Remarks				
TO	1	No 1	0 Drill Pipe	Singles 0.00					
MO	1	No 1	0 Drill Pipe	Singles 0.00					
LO	1	No 1	0 Drill Pipe	Singles 0.00					
BO	1	No 1	0 Drill Pipe	Singles 0.00					
REDUCED PUMP SPEED		No 1	0 Drill Pipe	Singles 0.00					
From	To	D-R-C	RPM	WOB					
HOLE CONDITION		No 1	0 Drill Pipe	Singles 0.00					
Hole Drag Up	3	Down	10						
Torque At Bottom	11000								
Fill On Bottom	0.00								
TOUR 3	SIGNATURE OF DRILLER Stefan Polny		START TIME 16:00		END TIME 24:00				

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 5RR	Size 159	No 1	Component 159mm PDC Bit	OD 159	ID 159	Length 1.022	Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/>	Time	Depth
IADC Code	Reed	No 1	475 Mud Motor	121	1	9.10	Time 14:45	Depth	Deviation
Manufacturer	SK413M-A1G-Z	No 1	475 Flex monel	121	68	9.49	Density	Depth	Deviation
Type	E231879	No 1	Gap sub	121	62	1.71	Funnel Viscosity	Depth	Deviation
Serial No	9.5	No 1	475 Flex monel	121	68	18.72	Fluid Loss	Depth	Deviation
Jts	9.5	No 1	3.5F x CD540 X/O	128	57	0.82	pH	Depth	Deviation
Depth Out (m)	2140.00	No 1	Slide reamer	127	58	1.38	Location Of Sample	Depth	Deviation
Depth In (m)	442.00	No 1	4" CD540 Drill Pipe	102	64	48.50	Depth	Deviation	
Total Drilled (m)	0.00	No 1	126mm Jars	126	60	6.18	PVT	Deviation	
Hrs Run Today	6.25	No 1	Agitator	120	58	7.97	Circulation	Deviation	
Cumulative Hrs Run	0.00	No 1	4" CD540 Drill Pipe	102	64	48.50	Pump # 1	Type SINGLE	Liner Size 127
Entry Date 06-Feb-2017		No 1	4" CD540 HWDP	101	65	26.33	Pressure 32500	Hs Run 0.00	
CUTTING STRUCTURE		No 1	0 Drill Pipe	Standards 0.00	Remarks				
TO	1	No 1	0 Drill Pipe	Singles 0.00					
MO	1	No 1	0 Drill Pipe	Singles 0.00					
LO	1	No 1	0 Drill Pipe	Singles 0.00					
BO	1	No 1	0 Drill Pipe	Singles 0.00					
REDUCED PUMP SPEED		No 1	0 Drill Pipe	Singles 0.00					
From	To	D-R-C	RPM	WOB					
HOLE CONDITION		No 1	0 Drill Pipe	Singles 0.00					
Hole Drag Up	3	Down	10						
Torque At Bottom	0								
Fill On Bottom	0.00								
TOUR 3	SIGNATURE OF DRILLER Stefan Polny		START TIME 16:00		END TIME 24:00				

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 5RR						No.	Component	OD	ID	Length	Mud Type Water <input type="checkbox"/> Oil <input checked="" type="checkbox"/>					Time					From To Elapsed Code				Details Of Operations In Sequence & Remarks							
Size 159						1	159mm PDC Bit	159	1	0.22	Other <input type="text"/>					Time 04:15 06:15					0:00 1:15 1:25 6A				Trip in hole at 35m/min from 96m to 426m MD. Fill pipe and flow check at 426m.							
IADC Code						1	475 Mud Motor	121	1	9.10						Density 1160 1165					1:15 2:00 0:75 9A				Reviewed JSA. Slip & cut 9.24m of drilling line at 4685.7mJ. Deadman anchor bolts retorqued to 360 ftlbs. Performed full block height calibration. Brake capacity test ok. Greased Crown & Travelling Blocks.							
Manufacturer Reed						1	4.75" Flex monel	121	68	9.49						Furnnel Viscosity 100 100									2:00 2:30 0.50 7 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.							
Type SK413M-A1G-Z						1	Gap sub	121	62	1.71						Fluid Loss pH 18.77									Visual inspection & service of PS-21 slips & inserts. Functioned Annular preventer 16 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. Completed pre-shift fall protection equipment visual inspection.							
Serial No. E231879						2	4.75" Flex monel	121	68	18.77						Location Of Sample Section 2 Section 2									Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. Completed pre-shift fall protection equipment visual inspection.							
Jets 9.5 9.5						1	Slide reamer	127	58	1.38						Depth 2582.35 2582.35									Visual inspection of BOP & valves completed by Luke Hardy & Dean Boehnert.							
9.5 9.5						5	4" CDS40 Drill Pipe	102	64	48.80						PVT 45.1 45.72									Continue to trip in hole at 40m/min from 426m to 2572m MD.							
Depth Out (m)						1	126mm Jars	126	60	6.18						Circulation									Fill pipe at 600m intervals. Flow check at 1541m.							
Depth In (m)						58	4" CDS40 Drill Pipe	102	64	50.31						Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density									7:00 7:15 0.25 3A Wash 10m to bottom from 2572m to 2582m MD. Pump rate 1.27m3/min. Rotary 70 RPM. Trip In Volumes Calculated - 22.42m3 Measured - 21.29m3 Difference - 1.13m3							
Total Drilled (m)						1	Agitator	120	58	7.97						Residence Time @ 0.00 0 0 0 0									7:15 7:30 0.25 2 Directional drill 159mm lateral section of main hole from 2582m to 2600m MD. Pump Rate - 1.27 m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 32,500 kPa, Torque - 11,000 ftlbs, Diff Pressure - 8,000 kPa. (Sliding Parameters: WOB- 17 kdaN Diff Pressure- 5,000 kPa.)							
Hrs Run Today						161	4" CDS40 Drill Pipe	102	64	50.31						Residence Time @ 0.00 0 0 0 0									7:30 8:00 0.50 21 Crew hand-over meeting. Discuss hazard id's & daily events.							
Cumulative Hrs Run						39	4" CDS40 HWDP	101	65	23.92						Remarks									Remarks							
Entry Date 06-Feb-2017						0	Drill Pipe	Standis	0.00						Pump # Type Liner Size SPM Pressure His Run									Boiler #2 Fuel @ 05:00 Hrs = 5616 litres								
Cutting Structure						0	Drill Pipe	Singles	0.00						1 SINGLE 127 120 32500 1.00									**Completed weekly service & visual inspection of DSGD-375 Drawworks.**								
TO						Kelly Dog	-1.16						2 SINGLE 127 1 32500 0.00									Hazard ID: Worker placed hands under EM tool to gain leverage while assembling to Gap sub. / Stopped and reminded him that it is a suspended load and to keep hands out from underneath.										
MDC						Total	2600.00						MUD MATERIALS ADDED																			
LOC						Weight of DC	21.00						Product Amount Type																			
BRO						Weight of String	69.00																									
METRES DRILLED						REDUCED PUMP SPEED					BOILER																					
From To D-R-C RPM WOB						HOLE CONDITION					Pump # Pressure Strokes/min Depth					BoilerNo HoursRun pH StackTemp					SAFETY											
2582.00 2600.00 DRILL 70 12						Up 2 Down 4					1 5200 @ 60 @ 426.00					2 8.00 10.5 450					Slip & cut. Safety Topic MEHL MACP											
						Torque At Bottom 11000					1 6200 @ 60 @ 987.00					2 8.00 10.5 450																
						Turn On Bottom 0.00					1 6700 @ 60 @ 1541.00																					

TOUR	2	SIGNATURE OF DRILLER	Justin Holt		START TIME	8:00	END TIME	16:00
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TOUR **3** SIGNATURE OF DRILLER **Stefan Polny** START TIME **16:00** END TIME **24:00**

[illegible]

[illegible]

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FRONT PAGE SUMMARY

Tour Sheet Serial Number BEAV15AC 20170210 1A		Vendor Software Version RMS 2016.6.14.37064		Year 2017		Month 02		Day 10			
License No 32312		Well Name ARCRES HZ PARKLAND E12-07-081-16		Surface Location 12-7-81-16 W6		Prov BC		Loc Type DLS		Unique Well Id 100/05-08-081-16W/00	
Operator ARC Resources Ltd.		Contractor Beaver Drilling Ltd.		Contractor's Job No 0X47		Rig No 15AC		Well Type HORIZ		Re-Entry <input type="checkbox"/>	
Operator's AFE 17DRLO012		Signature Of Operator's Representative Chris Baehl		Signature Of Contractor's Rig Manager Shaun Low		Spud Date Time 20-Dec-2016		21:45		Rig Release Date Time 10-Feb-2017	
17DRLO012		Signature Of Operator's Representative Chris Baehl		Signature Of Contractor's Rig Manager Shaun Low		Spud Date Time 20-Dec-2016		21:45		Rig Release Date Time 10-Feb-2017	

Code 1		SIGNATURE OF DRILLER Stefan Polny		START TIME 0:00		END TIME 8:00	
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BITS Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date		DRILLING ASSEMBLY No Component OD ID Length Kelly Down Total Weight of DC Weight of String		MUD RECORD Mud Type Water <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Other Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 93 5000 2.00 2 SINGLE 127 1 5000 0.00		DEVIATION SURVEYS Time Depth Deviation Direction Type SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 0.00 0 0 0 1.00 1160 1130 1390 MUD MATERIALS ADDED Product Amount Type		TIME LOG From To Elapsed Code 0:00 2:30 2:50 23F 2:30 2:45 0:25 21D 2:45 6:45 4:00 12C 6:45 7:30 0:75 14B 7:30 8:00 0:50 21 Details Of Operations In Sequence & Remarks Reciprocate casing string, circulate & condition wellbore at 1.0m3/min. Prepare to cement. Wait on NOV cement head. Safety meeting & JSA review with Trican & NOV. Break Top Drive out & Break x/oa s connections to Casing with Rotary tongs. Blow back mud lines and top drive. Rig to & Cement 114.3mm, 20.09kg/m, P-110, LTC X 139.7mm Tapered Production Casing string with Trican; Pump 2m3 H2O, 34m3 Lead cement (36.45 ton & 1.5 ton Scavenger) 1600kg/m3, 38m3 Tail cement (38 ton) 1600kg/m3, Launch Wiper Plug & displace 39.3m. Bumped Wiper Plug @ 05:45hrs. 10m3 Cement to surface. Pressure test casing to 21,000kPa for 10 minutes. Flush 5000# BOP, Ball Nipple & Flow Line with Trican. Rig out Trican cement equipment. Rig to, lower casing slips through BOP's & set casing slips in tension @ 70,000 daN at 07:00hrs on Feb.10/2017. Nipple down Schaffer 5000# BOP's & all related equipment in preparation to walk rig to the next well. Clean mud tanks with confined space entry permit. Crew hand-over meeting. Discuss hazard id's & daily events.	
CUTTING STRUCTURE TO MDC LOC BRG		HOLE CONDITION Hole Drag Up Down Torque At Bottom Fill On Bottom		REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth @ @ @ @		BOILER BoilerNo HoursRun pH StackTemp 1 8.00 10.5 450 2 8.00 10.5 450		SAFETY Safety Topic MEHL MACP Cementing. 70 3040	

TOUR 2		SIGNATURE OF DRILLER Justin Holt		START TIME 8:00		END TIME 16:00	
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BITS Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date		DRILLING ASSEMBLY No Component OD ID Length Kelly Down Total Weight of DC Weight of String		MUD RECORD Mud Type Water <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Other Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run		DEVIATION SURVEYS Time Depth Deviation Direction Type SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density MUD MATERIALS ADDED Product Amount Type		TIME LOG From To Elapsed Code 8:00 9:45 1:75 14B 9:45 11:00 1:25 22 Details Of Operations In Sequence & Remarks Nipple down Schaffer 5000# BOP's & all related equipment in preparation to walk rig to the next well. Lift BOP's & cut casing w/ Cameron services. Laydown cut off. Clean mud tanks with confined space entry permit. Tear out Beaver Rig #15AC in preparation to walk rig to the next well. Adjust suitcases & Festoon hangers. remove shale bin. Clean mud tanks with confined space entry permit. **Rig Released @ 11:00 hrs on Feb.10/2017**	
CUTTING STRUCTURE TO MDC LOC BRG		HOLE CONDITION Hole Drag Up Down Torque At Bottom Fill On Bottom		REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth @ @ @ @		BOILER BoilerNo HoursRun pH StackTemp 1 3.00 10.5 450 2 3.00 10.5 450		SAFETY Safety Topic MEHL MACP Tear out rig to walk.	

TOUR 3		SIGNATURE OF DRILLER Shaun Low		START TIME 16:00		END TIME 24:00	
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BITS Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date		DRILLING ASSEMBLY No Component OD ID Length Kelly Down Total Weight of DC Weight of String		MUD RECORD Mud Type Water <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Other Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run		DEVIATION SURVEYS Time Depth Deviation Direction Type SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density MUD MATERIALS ADDED Product Amount Type		TIME LOG From To Elapsed Code Details Of Operations In Sequence & Remarks	
CUTTING STRUCTURE TO MDC LOC BRG		HOLE CONDITION Hole Drag Up Down Torque At Bottom Fill On Bottom		REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth @ @ @ @		BOILER BoilerNo HoursRun pH StackTemp		SAFETY Safety Topic MEHL MACP	