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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					No.	Component	ID	ID Length	Mud Type	Water	<input checked="" type="checkbox"/>	<input type="checkbox"/>			Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks					
Size	200					1	200mm PDC Bit	200	1	0.30	Other										0:00	0:45	0:75	9A	Review JSA. Slip & Cut 25.41m of 1 1/4" drill line @ 9573mJ. Deadman anchor bolts retorqued to 360ft/lbs. Performed full block height calibration. Greased crown block and travelling blocks.					
IADC Code						1	650ML Motor	165	1	8.73				Time						0:45	1:15	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 kelly cock. 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 over-head equipment. Visual inspection of BOP & valves completed by Murray Allan & Dan Meyer.						
Manufacturer	Baker Hughes					1	Gap sub	121	62	1.51				Density																
Type	T507F					1	NM Slick	155	71	9.48	Funnel Viscosity			pH																
Serial No	7162224					1	NM Slick	155	71	9.08	Fluid Loss			Location Of Sample						1:15	1:30	0:25	21P	Performed a Pre-Drill out hazard hunt and Rig Inspection with Beaver Drilling Ltd and Arc Resources representatives. Corrected all deficiencies and hazards.						
Jets	7.95 7.95 7.1 7.1					6	6 1/2" Drill Collar	167	59	26.34	pvt			Depth						1:30	1:45	0:25	21A	BOP Drill. Crew members simulated a hard shut in while out of hole. Well secure in 43 seconds. Reviewed stick diagram, ERP, kick warning signs and causes, Emergency Medical Transport Plan and Stars site # 3187. Functioned flare and Swacc electric choke, ok.						
	7.95 7.95 7.1					1	X/O SUB	163	58	0.79	PVT			Circulation						1:45	2:00	0:25	21D	Pre-Drill out safety meeting, Safety meeting & JSA review with Dynamic Directional Drilling.						
Depth Out (m)						2	4" CDS40 HWDP	101	65	18.36				Pump #	Type	Liner Size	SPM	Pressure	H/S Run	2:00	3:45	1:75	20D	Review JSA. Pick up 650mm Motor and make up 200mm Baker Hughes PDC Bit. Pick up 2 NM Slick Monels and make up Gap Sub.						
Depth In (m)	459.00					1	Jars	163	60	5.24				1 SINGLE		127	62	8000	3.00	3:45	5:30	1:75	6A	Review JSA. Trip in hole from 30m to 435.5m MD. Tag cement @ 435.5m MD.						
Total Drilled (m)	31.00					40	4" CDS40 HWDP	101	65	27.51				2 SINGLE		127	62	8000	3.00	5:30	6:00	0:50	2C	Drill out cement @ 435.5m, Float @ 445.8m and Shoe @ 458.6m MD. Pump Rate-						
Hrs Run Today	1.00													Remarks						Boiler #2 Fuel @ 5:00 HRS = 5760 litres.										
Cumulative Hrs Run	1.00					0	Drill Pipe			0.00										Hazard ID: Worker wasnt using 3 point contact on the stairs / stopped him and told him no job is so urgent that we cant take the time to perform safe work.										
Entry Date	24-Jan-2017					0	Drill Pipe			0.00																				
CUTTING STRUCTURE						Kelly Dog	Standards			-0.77																				
TO	Wgt						Total	490.00																						
MDC	Reason Pull						Weight of DC	29.00																						
LOC	31.00						Weight of String	44.00																						
BRC																														
METRES DRILLED						REDUCED PUMP SPEED																								
From	To	D-R-C	RPM	ZOB	WS	Hole Drag	Up	Down	0	Pump #	Pressure	Strokes/min	Depth	BOILER						SAFETY										
459.00	459.00	DRILL	20	5		Torque At Bottom	4500			1	2050	@	60	@	461.00	BoilerNo	HoursRun	pH	StackTemp	Safety Topic										
						Fill On Bottom	0.00				@	@	@		2	8.00	10.5	450	MEHL											
											@	@	@			8.00	10.5	450	MACP											
																			50											
																			3130											

TOUR	2	SIGNATURE OF DRILLER	Stefan Polny		START TIME	8:00	END TIME	16:00
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BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG									
Bit Number	2			No	Component	OD	ID	Length	Mud Type		Water	<input checked="" type="checkbox"/> Oil	<input type="checkbox"/>	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks		
Size	200			1	200mm PDC Bit	200	1	1.30	Other					08:00	505.22	0.09	204.41	DIRECTIONAL	8:00	12:00	4.00	2	Drill vertical section of 200mm main hole from 490m to 750m MD. Pump Rate- 2.2m ³ /min, WOB- 12 kdaN, Rotary- 700 RPM, Pump Pressure- 27.500 kPa, Diff Pressure- 4.000 kPa, Torque- 6.000 ft/lbs.		
IADC Code				1	650ML Motor	165	1	8.73						08:30	533.75	0.22	182.96	DIRECTIONAL							
Manufacturer	Baker Hughes			1	MM Slick	155	71	9.48	Time		08:45	11:15		09:00	562.86	0.35	100.87	DIRECTIONAL	12:00	12:30	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. Visual inspection & service of PS-21 spools & inserts. Functioned upper & lower pipe rams, 6 seconds to close each. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. Visual inspection of BOP & valves completed by Luke Hardy & Dean Beinhart.		
Type	T507F			1	Gap sub	121	62	1.51	Density		1140	1140		09:30	591.97	0.48	122.76	DIRECTIONAL					BOP drill & discussion while drilling. Simulated a hard shut in. Crew announced CAODC designated positions. Well secured in 90 seconds. 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.		
Serial No	7162224			1	MM Slick	155	71	9.08	Funnel Viscosity		32	30		10:00	621.07	0.13	227.79	DIRECTIONAL					Accumulated time on reciprocating drill string, directional surveys & connections.		
Jets	7.95 7.95 7.1 7.1			1	X/O SUB	163	58	0.46	Fluid Loss		0	10		10:45	650.17	0.31	287.64	DIRECTIONAL							
Depth Out (m)	7.95 7.95 7.1			1	X/O SUB	163	58	0.46	pH		10	10.5													
Depth In (m)	459.00			1	4" CDS40 HWDP	101	65	14.36	Location Of Sample		Trough	Trough													
Total Drilled (m)	550.00			1	Jars	163	60	5.24	Depth		555.65	690.67													
Has Run Today	5.75			46	4" CDS40 HWDP	101	65	43.36	PVT		27.98	39													
Commutative Hs Run	6.75			16	Drill Pipe	Stand	465.82		Circulation																
Entry Date	24-Jan-2017			0	Drill Pipe	Singles	0.00		Pump #		Type	Linear Size	SPM	Pressure	Hs Run										
CUTTING STRUCTURE				Kally down				-4.57				1				PARALLEL	127	104	26400	8.00					
TO	LOG			Total				1009.00				2				PARALLEL	127	104	26400	8.00					
MDC	Reason For			Weight of DC				29.00				MUD MATERIALS ADDED													
LOC	Total Run (kg)			Weight of String				56.00				Product				Amount		Type							
BSG	\$148											Enerlith C				2	bbl								
METRES DRILLED				HOLE CONDITION				REDUCED PUMP SPEED				Boiler				HoursRun		pH		StackTemp					
From	To	D-R-C	RPM	WOB	Hole Drag Up	1	Down	1	Pump #	Pressure	Strokes/min	Depth	BoilerNo	8.00	10.5	450									
490.00	1099.00	DRILL	79	12	Force At Bottom	8000			1	6068	@	103	@	750.00											
				Torque On Bottom				0.00								2	8.00	10.5	450						
																SAFETY				Safety Topic		MEHL		MACP	
																BOP drill.				57		3175			

TOUR **3** SIGNATURE OF DRILLER **Luke Hardy** START TIME **16:00** END TIME **24:00**

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FRONT PAGE SUMMARY										Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																													
License No: 32313 Well Name: ARCRCRES HZ PARKLAND D12-07-081-16 Tour Sheet Serial Number: BEAV15AC 20170124 1A RMS 2016.6.14.37064 Surface Location: 12-781-16 W6 Prov: BC Loc Type: DLS Unique Well Id: 105/13-12-081-17W6/00 Contractor: Beaver Drilling Ltd. 15AC Horiz Re Entry: <input type="checkbox"/>										(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well License & 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/week/month) (2) CADCOC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Kils Checked										 																																																																																																																																					
ARCRC Resources Ltd. 17DR10011 Signature of Operator's Representative: Dean Boehnert										0047 Signature of Contractor's Rig Manager: Luke Hardy Spool Date Time: 28-Dec-2016 20:00 Rig Release Date Time:										(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well License & 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/week/month) (2) CADCOC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Kils Checked		(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well License & 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/week/month) (2) CADCOC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Kils Checked																																																																																																																																			
<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 rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">HOURS</td> <td>Tour 1</td> <td>1.25</td><td></td><td></td><td>0.50</td><td>1.75</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>2.00</td><td>1.25</td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Tour 2</td> <td>5.75</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></td><td></td><td></td><td></td><td></td><td></td><td>1.50</td><td>0.25</td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Tour 3</td> <td>6.25</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></td><td></td><td></td><td>1.25</td><td>0.50</td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TOTAL</td> <td>13.25</td><td></td><td></td><td></td><td>0.50</td><td>1.75</td><td>1.00</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>4.75</td><td>2.00</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	HOURS	Tour 1	1.25			0.50	1.75	0.50	0.75												2.00	1.25					Tour 2	5.75				0.50														1.50	0.25					Tour 3	6.25																		1.25	0.50					TOTAL	13.25				0.50	1.75	1.00	0.75											4.75	2.00					FUEL @ 08:00 HRS 26966 7100 05:00 -16 PARTLY CLOUDY SE UP TO 15 KM/H 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																																																																																																																																
HOURS	Tour 1	1.25			0.50	1.75	0.50	0.75												2.00	1.25																																																																																																																																				
	Tour 2	5.75				0.50														1.50	0.25																																																																																																																																				
	Tour 3	6.25																		1.25	0.50																																																																																																																																				
	TOTAL	13.25				0.50	1.75	1.00	0.75											4.75	2.00																																																																																																																																				

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: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: T507F Type: 7162224 Serial No: 7.95 7.95 7.1 JMS: 7.95 7.95 7.1 Depth Out (m): 459.00 Depth In (m): 31.00 Total Drilled (m): 1.00 Cumulative Hrs Run: 1.00 Entry Date: 24-Jan-2017										No: 1 Component: 200mm PDC Bit ID: 200 Length: 1.030 1 650ML Motor 165 1 8.73 1 NM Slick 155 71 9.48 1 Gap sub 121 62 1.51 1 NM Slick 155 71 9.08 1 x/o 4.5XH - 4"H90 165 57 0.46 6 1/2" Drill Collar 167 59 96.54 1 X/O SUB 163 58 0.79 2 4" CDS40 HWDP 101 65 18.90 1 Jars 163 60 5.24 40 4" CDS40 HWDP 101 65 35.80										Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 13:30 15:30 Density: 1145 1140 Funnel Viscosity: 30 30 Fluid Loss: 0 0 pH: 10.5 10.5 Location Of Sample: Trough Trough Depth: 831.81 974.67 PVT: 46.45 35.39										Time: 11:15 679.27 0.35 287.64 11:45 708.36 0.66 306.1 12:15 737.48 0.35 98.32 13:00 766.59 0.22 55.43 13:15 795.75 0.31 89.89 13:45 824.83 0.13 46.12										From: 6:00 To: 6:30 Elapsed: 0.50 Code: 5C Details Of Operations In Sequence & Remarks 1.3m3/min, Rotary- 20 RPM, WOB- 3 kdaN, Displace to Brine after drill out. Displace H2O to CaCl Brine drilling fluid @ 1.3m3/min, Pump pressure 7,500 kPa. Total Volume of 20m3. 6:30 7:15 0.75 2 Drill 200mm vertical section of main hole from 459m to 490m MD. Pump Rate- 1.3m3/min, WOB- 5 kdaN, Rotary- 20 RPM, Pump Pressure- 10,500 kPa, Diff Pressure- 3,000 kPa, Torque- 4,500 ft/lbs. 7:15 7:30 0.25 20A Accumulated EM survey & connection time. 7:30 8:00 0.50 21D Crew hand-over meeting. Discuss hazard id's & daily events.									
CUTTING STRUCTURE TO: 0.00 MD: 0.00 LDC: 0.00 BSG: 0.00										Kelly Down: -0.77 Total: 490.00 Weight of DC: 29.00 Weight of String: 44.00										Pump # 1 Type: SINGLE Liner Size: 127 SPM: 62 Pressure: 8000 Hrs Run: 3.00 2 SINGLE 127 62 8000 3.00										MUD MATERIALS ADDED Product Amount Type										Remarks Boiler #2 Fuel @ 5:00 HRS = 5760 litres. Hazard ID: Worker wasnt using 3 point contact on the stairs / stopped him and told him no job is so urgent that we cant take the time to perform safe work.									
METRES DRILLED From: 0 To: 0 D-R-C: 0 RPM: 0 WOB: 0										HOLE CONDITION Hole Drag Up: 0 Down: 0 Torque At Bottom: 4500 Fill On Bottom: 0.00										REDUCED PUMP SPEED Pump # 1 Pressure: 2050 @ 60 Strokes/min: 60 Depth: 461.00 2 2050 @ 60 461.00										SAFETY Safety Topic MEHL MACP Fall Protection 50 3130																			
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: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: T507F Type: 7162224 Serial No: 7.95 7.95 7.1 JMS: 7.95 7.95 7.1 Depth Out (m): 459.00 Depth In (m): 550.00 Total Drilled (m): 5.75 Cumulative Hrs Run: 6.75 Entry Date: 24-Jan-2017										No: 1 Component: 200mm PDC Bit ID: 200 Length: 1.030 1 650ML Motor 165 1 8.73 1 NM Slick 155 71 9.48 1 Gap sub 121 62 1.51 1 NM Slick 155 71 9.08 1 x/o 4.5XH - 4"H90 165 57 0.46 6 1/2" Drill Collar 167 59 96.54 1 X/O SUB 163 58 0.79 2 4" CDS40 HWDP 101 65 18.90 1 Jars 163 60 5.24 46 4" CDS40 HWDP 101 65 46.82										Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 13:30 15:30 Density: 1145 1140 Funnel Viscosity: 30 30 Fluid Loss: 0 0 pH: 10.5 10.5 Location Of Sample: Trough Trough Depth: 831.81 974.67 PVT: 46.45 35.39										Time: 11:15 679.27 0.35 287.64 11:45 708.36 0.66 306.1 12:15 737.48 0.35 98.32 13:00 766.59 0.22 55.43 13:15 795.75 0.31 89.89 13:45 824.83 0.13 46.12										From: 6:00 To: 6:30 Elapsed: 0.50 Code: 5C Details Of Operations In Sequence & Remarks 1.3m3/min, Rotary- 20 RPM, WOB- 3 kdaN, Displace to Brine after drill out. Displace H2O to CaCl Brine drilling fluid @ 1.3m3/min, Pump pressure 7,500 kPa. Total Volume of 20m3. 6:30 7:15 0.75 2 Drill 200mm vertical section of main hole from 459m to 490m MD. Pump Rate- 1.3m3/min, WOB- 5 kdaN, Rotary- 20 RPM, Pump Pressure- 10,500 kPa, Diff Pressure- 3,000 kPa, Torque- 4,500 ft/lbs. 7:15 7:30 0.25 20A Accumulated EM survey & connection time. 7:30 8:00 0.50 21D Crew hand-over meeting. Discuss hazard id's & daily events.									
CUTTING STRUCTURE TO: 0.00 MD: 0.00 LDC: 0.00 BSG: 0.00										Kelly Down: -4.57 Total: 1009.00 Weight of DC: 29.00 Weight of String: 56.00										Pump # 1 Type: PARALLEL Liner Size: 127 SPM: 104 Pressure: 26400 Hrs Run: 8.00 2 PARALLEL 127 104 26400 8.00										MUD MATERIALS ADDED Product Amount Type										Remarks Hazard ID: Observed worker lose his balance on a slippery surface more than once. / Reinforced the "see it, own it" slogan, corrected the slippery surface and made an agreement not to neglect hazards. **Completed service & inspection of Stand Transfer Vehicle** **Inspection & simulated launch of Rig Rider descent device completed by Dave McDonald**									
METRES DRILLED From: 0 To: 0 D-R-C: 0 RPM: 0 WOB: 0										HOLE CONDITION Hole Drag Up: 1 Down: 1 Torque At Bottom: 8000 Fill On Bottom: 0.00										REDUCED PUMP SPEED Pump # 1 Pressure: 6068 @ 103 Strokes/min: 103 Depth: 756.00 1 6700 @ 103 900.00										SAFETY Safety Topic MEHL MACP BOP drill. 57 3175																			
TOUR 3 SIGNATURE OF DRILLER: Luke Hardy										START TIME 16:00										END TIME 24:00																													

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: T507F Type: 7162224 Serial No: 7.95 7.95 7.1 JMS: 7.95 7.95 7.1 Depth Out (m): 459.00 Depth In (m): 990.00 Total Drilled (m): 6.25 Cumulative Hrs Run: 13.00 Entry Date: 24-Jan-2017										No: 1 Component: 200mm PDC Bit ID: 200 Length: 1.030 1 650ML Motor 165 1 8.73 1 NM Slick 155 71 9.48 1 Gap sub 121 62 1.51 1 NM Slick 155 71 9.08 1 x/o 4.5XH - 4"H90 165 57 0.46 6 1/2" Drill Collar 167 59 96.54 1 X/O SUB 163 58 0.79 2 4" CDS40 HWDP 101 65 18.90 1 Jars 163 60 5.24 46 4" CDS40 HWDP 101 65 46.82										Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 23:00 Density: 1120 Funnel Viscosity: 30 Fluid Loss: 10.5 Location Of Sample: Trough Depth: 1380.00 PVT: 41										Time: 19:15 1174.22 0.53 335.28 19:30 1203.37 0.31 338.79 21:00 1261.56 0.53 339.23 21:30 1290.66 0.57 312.6 21:45 1319.74 0.35 256.7 22:45 1348.85 0.31 18.69										From: 6:00 To: 6:30 Elapsed: 0.50 Code: 5C Details Of Operations In Sequence & Remarks 1.3m3/min, Rotary- 20 RPM, WOB- 3 kdaN, Displace to Brine after drill out. Displace H2O to CaCl Brine drilling fluid @ 1.3m3/min, Pump pressure 7,500 kPa. Total Volume of 20m3. 6:30 7:15 0.75 2 Drill 200mm vertical section of main hole from 459m to 490m MD. Pump Rate- 1.3m3/min, WOB- 5 kdaN, Rotary- 20 RPM, Pump Pressure- 10,500 kPa, Diff Pressure- 3,000 kPa, Torque- 4,500 ft/lbs. 7:15 7:30 0.25 20A Accumulated EM survey & connection time. 7:30 8:00 0.50 21D Crew hand-over meeting. Discuss hazard id's & daily events.									
CUTTING STRUCTURE TO: 0.00 MD: 0.00 LDC: 0.00 BSG: 0.00										Kelly Down: -1.18 Total: 1449.00 Weight of DC: 29.00 Weight of String: 64.00										Pump # 1 Type: PARALLEL Liner Size: 127 SPM: 90 Pressure: 27000 Hrs Run: 8.00 2 PARALLEL 127 90 27000 8.00										MUD MATERIALS ADDED Product Amount Type										Remarks Hazard ID: I noticed a worker on a ladder as he greased the top drive on rig service / I asked one of the other workers to steady his ladder as an extra safety precaution.									
METRES DRILLED From: 0 To: 0 D-R-C: 0 RPM: 0 WOB: 0										HOLE CONDITION Hole Drag Up: 2 Down: 2 Torque At Bottom: 10000 Fill On Bottom: 0.00										REDUCED PUMP SPEED Pump # 1 Pressure: 3000 @ 60 Strokes/min: 60 Depth: 1381.00 1 3000 @ 60 1381.00										SAFETY Safety Topic MEHL MACP Brine Exposure 78 3175																			

FRONT PAGE SUMMARY										Tour Sheet Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM			
32313 ARCREES HZ PARKLAND D12-07-081-16										BEAV15AC 20170125 1A		RMS 2016.6.14.37064		2017		01		25		(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 Inspected (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 Vibs Checked										 			
Contractor: Beaver Drilling Ltd.										Provision: BC		Lic Type: DLS		Unique Well ID: 105/13-12-081-17W6/00		Rig No: 15AC		Well Type: HORIZ		Re-Entry: <input type="checkbox"/>													
Contractor's Job No: 0X47										Spud Date Time: 28-Dec-2016		Rig Release Date Time: 20:00																					
Signature of Operator's Representative: Dean Boehner										Signature of Contractor's Rig Manager: Luke Hardy																							
HOURS	Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	FUEL @ 08:00 HRS						
	Rig Up																										3475 7100						
	Drill Actual																									05:30 -15							
	Reaming																									PARTLY CLOUDY							
	Coring																									Wind Direction S Wind Strength UP TO 15 KM/H Road Condition POOR							
	Conc Mud & Circ																																
	Trips																																
	Rig Service																																
	Repair Rig																																
	Cut Off Drill Line																																
	Dev Survey																																
	Wireline Logs																																
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	Wait On Cement																																
	Nipple BOP																																
	Test BOP																																
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	Other																																
	TOTAL																									8.00							
	Tour 1																									8.00							
	Tour 2																									8.00							
	Tour 3																									8.00							
	TOTAL																									24.00							
TOUR 1		SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 0:00 END TIME: 8:00																					
HOURS	Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	FUEL @ 08:00 HRS						
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	Tour 1																									8.00							
	Tour 2																									8.00							
	Tour 3																									8.00							
	TOTAL																									24.00							
TOUR 2		SIGNATURE OF DRILLER: Stefan Polny										START TIME: 8:00 END TIME: 16:00																					
HOURS	Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	FUEL @ 08:00 HRS						
	Rig Up																									3475 7100							
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FRONT PAGE SUMMARY										Tour Sheet Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																																																					
License No: 32313 Well Name: ARCRCRES HZ PARKLAND D12-07-081-16 Contractor: Beaver Drilling Ltd. Operator's Representative: Dan Meyer Signature of Operator's Representative: <i>[Signature]</i> Signature of Contractor's Rig Manager: Luke Hardy										BEAV15AC 20170126 1B		RMS 2016.6.14.37064		2017		01		26		(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Include Check List) (3) HSE 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) CADCRC Rig Safety Inspection Checklist (weekly/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Block Checked (12) Motor Vibs Checked										 																																																																																																																																																					
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Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25																																																																																																																																																										
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Hazard ID: Worker was polishing mud pumps with a rag while we were pumping / asked him to stay clear of pumps while we are pumping under pressure. </td> <td colspan="4"> From: 0:00 To: 2:00 Elapsed: 2:00 Code: 2 Details Of Operations In Sequence & Remarks Directional Drill Build section of 200mm main hole from 1705m to 1722m MD. Pump Rate- 1.9m3/min, WOB- 11 kdaN, Rotary- 35 RPM, Pump Pressure- 22,700 kPa, Diff Pressure- 3,200 kPa, Torque- 6,000 ft/lbs. Sliding Parameters: WOB- 7.2 kdaN, Diff Pressure- 1,600 kPa. (KOP @ 1703m MD) 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 kelly cock. Visual inspection & service of PS-21 slips & inserts. Functioned Annular Preventer 21 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. Visual inspection of BOP & valves completed by Murray Allan & Dan Meyer. 2:30 5:30 3:00 2 Directional Drill Build section of 200mm main hole from 1722m to 1798m MD. Pump Rate- 1.9m3/min, WOB- 11 kdaN, Rotary- 35 RPM, Pump Pressure- 24,800 kPa, Diff Pressure- 4,700 kPa, Torque- 9,500 ft/lbs. Sliding Parameters: WOB- 7 kdaN, Diff Pressure- 1,400 kPa. 5:30 7:30 2:00 20A Accumulated EM survey & connection time. 7:30 8:00 0:50 21 Crew hand-over meeting. Discuss hazard id's & daily events. </td> </tr> <tr> <td colspan="4"> CUTTING STRUCTURE TO: 1683.00 MD: 115.00 LOC: 5.00 BRG: 6.00 Kelly Down: -11.94 Total: 1798.00 Weight of DC: 0.00 Weight of String: 69.00 </td> <td colspan="4"> HOLE CONDITION Hole Drag: 2 Up: 4 Torque At Bottom: 9500 Fill On Bottom: 0.00 </td> <td colspan="4"> REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 3400 @ 60 @ 1722.80 2 127 90 @ 24800 8.00 2 127 90 @ 24800 8.00 </td> <td colspan="4"> SAFETY Safety Topic: MEHL 3130 MACP Fall Protection Plan 75 3130 START TIME: 8:00 END TIME: 16:00 </td> </tr> </tbody> </table>																										BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG				Bit Number: 3 Size: 200 IADC Code: Halliburton Manufacturer: MMD64M Type: 12875726 Serial No: 8.7 7.9 8.7 Jars: 7.9 7.9 7.9 8.7 Depth Out (m): 1683.00 Depth In (m): 115.00 Total Drilled (m): 5.00 Cumulative Hrs Run: 6.00 Entry Date: 25-Jan-2017				No: 1 Component: 200mm PDC Bit OD: 165 ID: 125 Length: 1.025 Time: 00:30 Density: 1155 Funnel Viscosity: 32 Fluid Loss: 10 pH: 10.5 Location Of Sample: Trough Depth: 1711.00 PVT: 54 Circulation: 46 Hole Drag: 2 Up: 4 Torque At Bottom: 9500 Fill On Bottom: 0.00				Mud Type: Water Other: <input type="checkbox"/> Time: 00:30 Density: 1155 Funnel Viscosity: 32 Fluid Loss: 10 pH: 10.5 Location Of Sample: Trough Depth: 1711.00 PVT: 54 Circulation: 46 Hole Drag: 2 Up: 4 Torque At Bottom: 9500 Fill On Bottom: 0.00				Time: 00:30 Depth: 1698.86 Deviation: 1.36 Direction: 75.38 Type: DIRECTIONAL 02:45 1708.57 1.67 278.15 DIRECTIONAL 03:15 1718.27 4.39 276.3 DIRECTIONAL 04:15 1727.98 6.86 271.03 DIRECTIONAL 04:45 1737.70 9.36 270.76 DIRECTIONAL 05:30 1747.40 12.00 268.48 DIRECTIONAL SOLIDS CONTROL Equipment Name: Hours Run: Intake Density: Over Flow Density: Under Flow Density: 8.00 1155 1115 1720 8.00 1155 1115 1720 MUD MATERIALS ADDED Product: Amount: Type: Caustic Soda: 1 sxs Brine: 6 m3 Lime Hydrated: 4 sxs Remarks: Boiler #2 Fuel @ 5:00 HRS = 5622 litres. 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CUTTING STRUCTURE TO: 1683.00 MD: 115.00 LOC: 5.00 BRG: 6.00 Kelly Down: -11.94 Total: 1798.00 Weight of DC: 0.00 Weight of String: 69.00				HOLE CONDITION Hole Drag: 2 Up: 4 Torque At Bottom: 9500 Fill On Bottom: 0.00				REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 3400 @ 60 @ 1722.80 2 127 90 @ 24800 8.00 2 127 90 @ 24800 8.00				SAFETY Safety Topic: MEHL 3130 MACP Fall Protection Plan 75 3130 START TIME: 8:00 END TIME: 16:00																																																																																																					
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Pump Rate- 1.9m3/min, WOB- 15 kdaN, Rotary- 35 RPM, Pump Pressure- 22,500 kPa, Diff Pressure- 2,000 kPa, Torque- 9,000 ft/lbs. Sliding Parameters: WOB- 17 kdaN, Diff Pressure- 1,200 kPa. 13:30 14:00 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 & lower pipe rams, 6 seconds to close each. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. Visual inspection of BOP & valves completed by Luke Hardy & Dan Meyer. 14:00 14:30 0:50 2 Directional Drill Build section of 200mm main hole from 1867m to 1888m MD. Pump Rate- 2.0m3/min, WOB- 14 kdaN, Rotary- 35 RPM, Pump Pressure- 24,000 kPa, Diff Pressure- 1,000 kPa, Torque- 9,500 ft/lbs. Sliding Parameters: WOB- 17 kdaN, Diff Pressure- 1,200 kPa. 14:30 15:45 1:25 20A Accumulated time on reciprocating drill string, directional surveys & connections. 15:45 16:00 0:25 21G Safety stand down meeting while drilling ahead. 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TOUR	1	SIGNATURE OF DRILLER	Jordan Cawsey	START TIME	0:00	END TIME	8:00
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[illegible]

TOUR	2	SIGNATURE OF DRILLER	Stefan Polny		START TIME	8:00	END TIME	16:00
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[illegible]

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	5	No	Component	OD	ID	Length	Mud Type <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>				Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks				
Size	159	1	159mm PDC Bit	159	1	0.22	Other <input type="checkbox"/>									16:00	19:00	3.00	6B	Trip out of hole at 35m/min from 1623m to 1576m, 40m/min to 69m MD. Flow check at 1040m & 69m. Laydown Jars.				
IADC Code		1	475 Mud Motor	121	1	8.86	Time				20:30	23:45				19:00	19:30	0.50	21	Crew hand-over meeting. Discuss hazard id's & daily events. Review JSA with Dynamic Directional Drilling.				
Manufacturer	Reed	1	4.75" Flex monel	121	68	9.49	Density				1150	1150				19:30	22:30	3.00	20D	Break apart EM tool and lay down Gap Sub, rack back 1 stand of NM Flex Monels, drain motor, break off Halliburton 200mm PDC bit #4 and lay down Mud Motor. Function test Blind Rams out of hole 6 seconds to close, ok. Trip Record: Measured; 9.92m3, Calculated; 8.64m3, Difference; 1.28m3. Pick up 475-Motor, pick up 1 stand of NM Flex from derrick, lay down 1 NM Flex Monel, install Gap Sub and make up EM tool. Pick up 1 NM Flex Monel, make up X/O sub and Slide Reamer. Pick up and install Drilling Jars.				
Type	SK413M-A1G-Z	1	Gap sub	121	62	1.72	Funnel Viscosity				61	62												
Serial No	E232268	2	4.75" Flex monel	121	68	18.17	Fluid Loss																	
Jets	9.53 9.53	1	3.5H x CDS40 X/O	128	57	0.82	pH																	
Depth Out (m)		1	Slide reamer	127	58	1.38	Location Of Sample				Tank 2	Tank 2				22:30	23:30	1.00	6A	Review JSA. Trip in hole @ 45m/min from 40m to 483m MD. Fill pipe @ 483m. Flowcheck @ 483m MD.				
Depth In (m)	2100.00	5	4" CDS40 Drill Pipe	102	64	48.53	Depth				2100.00	2100.00				23:30	24:00	0.50	9A	Review JSA. Slip & Cut 18.48m of 1 1/4" drill line @ 12.893mJ. Deadman anchor bolts re-torqued to 360ft/lbs. Performed full block height calibration. Greased Crown Block and Travelling Blocks.				
Total Drilled (m)	0.00	1	1126mm Jars	126	60	6.18	PVT				39	41												
Hrs Run Today	0.00					Circulation																		
Cumulative Hrs Run	0.00	160	4" CDS40 Drill Pipe	102	64	48.53	Pump #	Type	Line Size	SPM	Pressure	Hg Run												
Entry Date	28-Jan-2017	48	4" CDS40 HWDP	101	65	45.52	1	PARALLEL	1	127	1	0	0.00	MUD MATERIALS ADDED										
		0	Drill Pipe	Stand		0.00	2	PARALLEL	1	127	1	0	0.00	Product		Amount	Type							
		0	Drill Pipe	Singles		0.00	Remarks																	
CUTTING STRUCTURE		Kally Down				-4.20																		
TO	1	Log	1																					
MD	WT	Reason Picked	BHA																					
LOC	G																							
BWD	X																							
METRES DRILLED		Total				2100.00																		
From	To	D-R-C	RPM	WOB	Weight of DC																			
					Weight of String																			
					35.00																			
HOLE CONDITION		REDUCED PUMP SPEED																						
Hole Drag	Up	0	Down	0	Pump #	Pressure	Strokes/min	Depth																
Torque At Bottom		0																						
Fill On Bottom		0.00																						
BOILER																								
BoilerNo	HoursRun	pH	StackTemp																					
2	8.00	10.5	450																					
2	8.00	10																						

TOUR	1	SIGNATURE OF DRILLER	Jordan Cawsey	START TIME	0:00	END TIME	8:00
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Size	159	1	159mm PDC Bit	159	1.82					05:00	299.60	85.03	259.08	DIRECTIONAL	0:00	0:15	0:25	9A				
IADC Code		1	475 Mud Motor	121	1.66	Time	05:45	07:45		05:15	2109.60	85.78	259.51	DIRECTIONAL								
Manufacturer	Reed	1	4.75" Flex monel	121	68	Density	1190	1175							0:15	0:45	0:50	7				
Type	SK413M-A1G-Z	1	Gap sub	121	62	Funnel Viscosity	58	67														
Serial No	E232268	2	4.75" Flex monel	121	68	Fluid Loss																
Jets	9.53 9.53	1	3.5IF CDS40 XID	126	57	pH																
	9.53 9.53	1	Slide reamer	127	58	Location Of Sample	Shakers	trough														
Depth Out (m)		5	4" CDS40 Drill Pipe	102	64	Depth	2135.00	2206.00		SOLIDS CONTROL												
Depth In (m)	2100.00	1	126mm Jars	126	64	PVT	46.89	62.9		Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	0:45	4:15	3:50	6A				
Total Drilled (m)	115.00	48	4" CDS40 HWDP	101	65	Circulation				Residue Count/kg	2.00	1190	1160	1580	4:15	4:30	0:25	3A				
Hrs Run Today	2.00					Pump #	Type	Liner Size	SPM	Pressure	H/S Run					4:30	6:30	2:00	2			
Cumulative Hrs Run	2.00					1	connected	127	1	31000	0.00											
Entry Date	28-Jan-2017	2				2	connected	127	120	31000	3.00											
		4	Drill Pipe	Standards	116.44	MUD MATERIALS ADDED						Product	Amount	Type								
		0	Drill Pipe	Singles	0.00	Wetting Agent								1	bbl							
			Kelly Dog		-5.64	Remarks																
			Total		2215.00																	
			Weight of DC		21.00																	
			Weight of String		71.00																	
CUTTING STRUCTURE						REDUCED PUMP SPEED																
TO	Usg																					
MDC	Reason Pulse																					
LOC	Total Run (hrs)	57.50																				
BRC																						
METRES DRILLED						HOLE CONDITION																
From	To	D-R-C	RPM	WOB	Hole Drag	Up	2	Down	5	Pump #	Pressure	Strokes/min	Depth									
2100.00	2215.00	DRILL	60	12	Torque At Bottom	8500				2	12750	@	100	1066.00								
					Fit On Bottom	0.00				2	14100	@	100	1555.00								
										2	6900	@	60	2072.00								
												BOILER										
												BoilerNo	HoursRun	pH	StackTemp							
												2	8.00	10.5	450							
												2	8.00	10.5	450							
												SAFETY										
												Slip & Cut				Safety Topic						
																MEHL						
																MACP						

[illegible]

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 5 Size 159 IADC Code Manufacturer Reed Type SK413M-A1G-Z E232268 Serial No Jets 9.53 9.53 9.53 9.53 Depth Out (m) 2100.00 Depth In (m) 1169.00 Total Drilled (m) 4.75 Cumulative Hrs Run 11.00 Entry Date 28-Jan-2017		No Component ID OD Length 1 159mm PDC Bit 159 1 0.22 1 475 Mud Motor 121 1 8.86 1 4.75" Flex monel 121 68 9.49 1 Gap sub 121 62 1.72 2 4.75" Flex monel 121 68 18.17 1 3.5F x CDS40 X/O 128 57 0.82 1 Slide reamer 127 58 1.38 5 4" CDS40 Drill Pipe 102 64 48.83 1 126mm Jars 126 60 6.18 168 4" CDS40 Drill Pipe 102 64 48.83 48 4" CDS40 HWDP 101 65 48.83										Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/> Time 17:15 18:45 Density 1160 1180 Funnel Viscosity 61 64 Fluid Loss pH Location Of Sample trough trough Depth 2805.27 2919.00 PVT 49.11 38										Time Depth Deviation Direction Type 16:15 2730.50 89.65 286.59 DIRECTIONAL 16:30 2759.57 89.17 285 DIRECTIONAL 17:00 2788.70 91.27 285.27 DIRECTIONAL 17:30 2817.83 90.75 286.76 DIRECTIONAL 18:00 2847.04 89.82 287.73 DIRECTIONAL 18:30 2876.25 89.91 287.02 DIRECTIONAL SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 8.00 1170 1140 1480 4.00 1170 1140 1480 MUD MATERIALS ADDED Product Amount Type Base Oil 20 m3 Wetting Agent 1 bbl EnerBar 52 SKS										Details Of Operations In Sequence & Remarks 16:00 19:00 3.00 2 Directional Drill Lateral section of 159mm main hole from 2722m to 2944m MD. Pump Rate- 1.27m3/min, WOB- 9 kdaN, Rotary- 70 RPM, Pump Pressure- 32,300 kPa, Diff Pressure- 8,000 kPa, Torque- 9,200 ft/lbs. Sliding Parameters: WOB- 22 kdaN, Diff Pressure- 3,600 kPa. 19:00 19:30 0.50 21 Crew hand-over meeting & Safety discussion. Discuss hazard id's & daily events. 19:30 21:15 1.75 2 Directional Drill Lateral section of 159mm main hole from 2944m to 3269m MD. Pump Rate- 1.27m3/min, WOB- 10 kdaN, Rotary- 70 RPM, Pump Pressure- 32,900 kPa, Diff Pressure- 8,300 kPa, Torque- 11,500 ft/lbs. Sliding Parameters: WOB- 26 kdaN, Diff Pressure- 3,800 kPa. 21:15 24:00 2.75 20A Accumulated EM Survey & Connection time.									
CUTTING STRUCTURE		Kelly Down -0.32 Total 3269.00 Weight of DC 21.00 Weight of String 68.00										Switched to mud pump #1 at 16:00hrs Remarks										Remarks Hazard ID: Ice starting to form on all of our walkways as the weather turned and got colder / spread ice melt around to prevent any slips or falls.																			
METRES DRILLED		HOLE CONDITION										REDUCED PUMP SPEED										BOILER										SAFETY									
From To D-R-C RPM TO WOB 2722.00 3269.00 DRILL 70 19		Hole Drag Up 8 Down 19 Torque At Bottom 11500 Fill On Bottom 0.00										Pump # Pressure Strokes/min Depth 1 8300 @ 60 @ 2714.00 2 8900 @ 60 @ 3267.00										BoilerNo HoursRun pH StackTemp 2 8.00 10.5 450 2 8.00 10.5 450										Invert Exposure Safety Topic MEHL MACP 81 3040									

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	5	No	Component	QD	ID	Length	Mud Type	Water	<input type="checkbox"/>	Oil	<input checked="" type="checkbox"/>	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks				
Size	159	1	159mm PDC Bit	159	1	0.22																			
IADC Code		1	475 Mud Motor	121	1	8.86																			
Manufacturer	Reed	1	4.75" Flex monel	121	68	9.49																			
Type	SK413M-A1G-Z	1	Gap sub	121	62	1.72																			
Serial No	E232268	2	4.75" Flex monel	121	68																				
Jets	9.53 9.53	1	3.91F x CDS40 X/O	128	57	0.82																			
	9.53 9.53	1	Slide reamer	127	58	1.38																			
Depth Out (m)		5	4" CDS40 Drill Pipe	102	64	48.32																			
Depth In (m)	2100.00	1	126mm Jars	126	60	6.18																			
Total Drilled (m)	115.00	160	4" CDS40 Drill Pipe	102	64	38.84																			
Hrs Run Today	2.00	48	4" CDS40 HWDP	101	65	40.51																			
Cumulative Hrs Run	2.00																								
Entry Date	28-Jan-2017	4	Drill Pipe	Stand		116.44																			
CUTTING STRUCTURE		0	Drill Pipe	Singles		0.00																			
TO	WSP		Kelly Down			-5.64																			
MDC	QDQ		Total			2215.00																			
LOC	Reason Poles		Weight of DC			21.00																			
BRO	Total Run (in)		Weight of String			71.00																			
METRES DRILLED		HOLE CONDITION					REDUCED PUMP SPEED					BOILER					SAFETY								
From	To	D-R-C	RPM	WOB	Hole Drag	Up	2	Down	5	Pump #	Pressure	Strokes/min	Depth	BoilerNo	HoursRun	pH	StackTemp	Safety	Safety Topic						
					Torque At Bottom				8500	2	12750	@	100	@	1066.00			Slip & Cut	MEHL						
					Fill On Bottom				0.00	2	14100	@	100	@	1655.00				MACP						
										2	6900	@	60	@	2072.00										

TOUR	2	SIGNATURE OF DRILLER	Stefan Polny		START TIME	8:00	END TIME	16:00
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BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG																	
Bit Number	5			No	Component	QD	ID	Length	Mud Type	Water	QD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks										
Size	159			1	159mm PDC Bit	159	1	0.22						13:15	2526.75	90.53	286.94	DIRECTIONAL															
IADC Code				1	475 Mud Motor	121	1	8.86	Time					13:30	2555.85	89.82	287.02	DIRECTIONAL															
Manufacturer	Reed			1	4.75" Flex monel	121	68	9.49	Density					14:00	2584.95	88.86	286.23	DIRECTIONAL															
Type	SK413M-A1G-Z			1	Gap sub	121	62	1.72	Funnel Viscosity					14:30	2614.07	89.91	286.76	DIRECTIONAL															
Serial No	E232268			2	4.75" Flex monel	121	68	18.77	Fluid Loss					14:45	2643.17	91.05	287.64	DIRECTIONAL															
Jets	9.53 9.53			1	3.5IF x CDS40 XJO	128	57	0.82	pH					15:15	2672.25	88.20	286.59	DIRECTIONAL															
Depth Out (m)				1	Slide reamer	127	58	1.38	Location Of Sample																								
Depth In (m)	2100.00			5	4" CDS40 Drill Pipe	102	64	48.52	Depth																								
Total Drilled (m)	622.00			1	126mm Jars	126	60	6.18	PVT																								
Hrs Run Today	4.25			168	4" CDS40 Drill Pipe	102	64	48.52	Circulation																								
Cumulative Hrs Run	6.25			48	4" CDS40 HWDPI	101	65	49.52	Pump #	Type	Liner Size	SPM	Pressure	Hrs Run																			
Entry Date	28-Jan-2017			1	SINGLE	127	1	31700	0.00																								
CUTTING STRUCTURE				2	SINGLE	127	120	31700	8.00																								
TO	Legs			22	Drill Pipe	Singles	640.30		Remarks																								
MDC	Reason For			0	Drill Pipe	Singles	0.00																										
LOC	Total Rst (in)																																
BLDG	99.52																																
METRES DRILLED																																	
From	To	D-R-C	RPM	WOB	Kelly Down				-22.50				Pump #				Pressure	Strokes/min	Depth	BOILER				SAFETY									
					Total				2722.00				2				7800	@	60	@	2481.00	BoilerNo				HoursRun	pH	StackTemp	10 Golden rules.				
					Weight of DC				21.00				2				8300	@	60	@	2685.00								74				
					Weight of String				69.00																					MACP			
HOLE CONDITION				Remarks				REDUCED PUMP SPEED				BOILER				SAFETY																	
Hole Drag Up				4 Down 11																													
Torque At Bottom				8500																													
Fill On Bottom				0.00																													

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	5	No	Component	ID	Length	Mud Type	Water	<input checked="" type="checkbox"/> Oil <input type="checkbox"/>	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks		
Size	159	1	159mm PDC Bit	159	1	0.22			21:30	3080.44	89.17	284.04	DIRECTIONAL							
IADC Code		1	475 Mud Motor	121	1	8.86	Other	<input type="checkbox"/>	22:00	3109.60	89.08	284.65	DIRECTIONAL							
Manufacturer	Reed	1	4.75" Flex monel	121	68	9.49			22:30	3138.60	90.70	285.53	DIRECTIONAL							
Type	SK413M-A1G-Z	1	Gap sub	121	62	1.72			23:00	3167.90	90.66	285.27	DIRECTIONAL							
Serial No	E232268	2	4.75" Flex monel	121	68	18.37			23:15	3197.02	89.78	283.42	DIRECTIONAL							
Jets		1	3.5IF x CDS40 XJO	128	57	0.82			23:45	3226.18	89.03	281.93	DIRECTIONAL							
	9.53 9.53	1	Slide reamer	127	58	1.38			SOLIDS CONTROL											
	9.53 9.53	5	4" CDS40 Drill Pipe	102	64	48.52			Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density							
Depth Out (m)		1	126mm Jars	126	60	6.18					8.00	1170	1140	1480						
Depth In (m)	2100.00	168	4" CDS40 Drill Pipe	102	64	48.52					4.00	1170	1140	1480						
Total Drilled (m)	1169.00	48	4" CDS40 HWDP	101	65	42.12														
Hrs Run Today	4.75	Circulation																		
Cumulative Hrs Run	11.00	Pump # Type Liner Size SPM Pressure Hs Run																		
Entry Date	28-Jan-2017	1 SINGLE 127 120 32900 4.00																		
CUTTING STRUCTURE		40 Drill Pipe		Stand	1165.12	MUD MATERIALS ADDED														
TI	Usp	0 Drill Pipe		Singles	0.00	Product		Amount		Type										
TO	QDQ	Total			-0.32	Remarks														
IMDC	Reason Pdc	Weight of DC			3269.00	Switched to mud pump #1 at 16:00hrs														
LOC	Total Run (hrs)	Weight of Bit			21.00															
BWD	106.27				68.00															
METRES DRILLED		HOLE CONDITION				REDUCED PUMP SPEED				BOILER				SAFETY						
From	To	D-R-C	RPM	WOB	Hole Drag	Up	8	Down	19	Pump #	Pressure	Strokes/min	Depth	BoilerNo	HoursRun	pH	StackTemp	Invert Exposure		
					Torque At Bottom				11500	1	8300	@	60	@				MEHL	MACP	
					Fill On Bottom				0.00	2	8900	@	60	@						
											@		@					81	3040	

FRONT PAGE SUMMARY										Tour Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																																																											
32313 ARGRES HZ PARKLAND D12-07-081-16										BEAV15AC 20170130 1A		RMS 2016.6.14.37064		2017		01		30		(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 Staked (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 (once/week/month) (10) Mast Inspection During Raising or Lowering (11) Crown Block Checked (12) Motor Vibs Checked										 																																																																																																																																																											
License No: 32313 Well Name: ARGRES HZ PARKLAND D12-07-081-16 Contractor: Beaver Drilling Ltd. Operator's #1: 17DR0011 Signature of Operator's Representative: Dan Meyer Signature of Contractor's Rig Manager: Luke Hardy										Surface Location: 12-781-16 W6 Prov: BC Loc Type: DLS Unique Well Id: 105/13-12-081-17W6/00 Rig No: 15AC Well Type: HORIZ Re Entry: <input type="checkbox"/>		Spud Date Time: 28-Dec-2016 Rig Release Date Time: 20:00												Kelly Casing: 6.6 Top Hole: 4520 FUEL @ 08:00 HRS: 22518 7100 Time: 05:00 Temp: -2 WEATHER: LIGHT SNOW Wind Direction: W Wind Strength: UP TO 35 KM/H Road Condition: FAIR																																																																																																																																																																	
<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> </tr> </thead> <tbody> <tr> <td>Tour 1</td> <td>2.00</td> <td></td> <td></td> <td></td> <td>3.25</td> <td></td> <td></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>1.75</td> <td>0.50</td> <td></td> <td></td> <td></td> <td>8.00</td> <td>22518</td> </tr> <tr> <td>Tour 2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6.25</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>1.00</td> <td>0.25</td> <td></td> <td></td> <td>0.50</td> <td>8.00</td> <td>7100</td> </tr> <tr> <td>Tour 3</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> <td>7.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.75</td> <td></td> <td></td> <td></td> <td>8.00</td> <td></td> </tr> <tr> <td>TOTAL</td> <td>2.00</td> <td></td> <td></td> <td></td> <td>3.25</td> <td>6.25</td> <td>0.75</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>2.75</td> <td>1.50</td> <td></td> <td></td> <td>0.50</td> <td>24.00</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	TOTAL	FUEL @ 08:00 HRS	Tour 1	2.00				3.25			0.50													1.75	0.50				8.00	22518	Tour 2						6.25															1.00	0.25			0.50	8.00	7100	Tour 3							0.25					7.00										0.75				8.00		TOTAL	2.00				3.25	6.25	0.75					7.00									2.75	1.50			0.50	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	TOTAL	FUEL @ 08:00 HRS																																																																																																																																																														
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TOTAL	2.00				3.25	6.25	0.75					7.00									2.75	1.50			0.50	24.00																																																																																																																																																															
TOUR 1 SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 0:00 END TIME: 8:00																																																																																																																																																																															
BITS Bit Number: 5 Size: 159 IADC Code: Reed Manufacturer: SK413M-A1G-Z Type: E232268 Serial No: 9.53 9.53 JWS: 9.53 9.53 Depth Out (m): 2100.00 Depth In (m): 1398.00 Total Drilled (m): 2.00 Hrs Run Today: 13.00 Cumulative Hrs Run: 28-Jan-2017 Entry Date: 28-Jan-2017										DRILLING ASSEMBLY <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>No</th> <th>Component</th> <th>OD</th> <th>ID</th> <th>Length</th> </tr> </thead> <tbody> <tr><td>1</td><td>159mm PDC Bit</td><td>159</td><td>1</td><td>0.22</td></tr> <tr><td>1</td><td>475 Mud Motor</td><td>121</td><td>1</td><td>8.86</td></tr> <tr><td>1</td><td>4.75" Flex monel</td><td>121</td><td>68</td><td>9.49</td></tr> <tr><td>1</td><td>Gap sub</td><td>121</td><td>62</td><td>1.72</td></tr> <tr><td>2</td><td>4.75" Flex monel</td><td>121</td><td>68</td><td>18.72</td></tr> <tr><td>1</td><td>3.58" x CDS40 X/O</td><td>128</td><td>57</td><td>0.82</td></tr> <tr><td>1</td><td>Slide reamer</td><td>127</td><td>58</td><td>1.38</td></tr> <tr><td>5</td><td>4" CDS40 Drill Pipe</td><td>102</td><td>64</td><td>48.52</td></tr> <tr><td>1</td><td>126mm Jars</td><td>126</td><td>60</td><td>6.18</td></tr> <tr><td>160</td><td>4" CDS40 Drill Pipe</td><td>102</td><td>64</td><td>48.52</td></tr> <tr><td>48</td><td>4" CDS40 HWDP</td><td>101</td><td>65</td><td>45.55</td></tr> </tbody> </table> Kelly Down: -4.44 Total: 3498.00 Weight of DC: 21.00 Weight of String: 69.00										No	Component	OD	ID	Length	1	159mm PDC Bit	159	1	0.22	1	475 Mud Motor	121	1	8.86	1	4.75" Flex monel	121	68	9.49	1	Gap sub	121	62	1.72	2	4.75" Flex monel	121	68	18.72	1	3.58" x CDS40 X/O	128	57	0.82	1	Slide reamer	127	58	1.38	5	4" CDS40 Drill Pipe	102	64	48.52	1	126mm Jars	126	60	6.18	160	4" CDS40 Drill Pipe	102	64	48.52	48	4" CDS40 HWDP	101	65	45.55	MUD RECORD Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time: 01:15 02:45 Density: 1165 1160 Funnel Viscosity: 61 61 Fluid Loss: pH: Location Of Sample: Shakers Shakers Depth: 3298.00 3389.00 PVT: 58.88 49.73 Circulation: Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 1 3400 0.00 2 SINGLE 127 120 3400 8.00										DEVIATION SURVEYS <table border="1" style="width:100%; 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BITS Bit Number: 5 Size: 159 IADC Code: Reed Manufacturer: SK413M-A1G-Z Type: E232268 Serial No: 9.53 9.53 JWS: 9.53 9.53 Depth Out (m): 3498.07 Depth In (m): 2100.00 Total Drilled (m): 1398.07 Hrs Run Today: 0.00 Cumulative Hrs Run: 28-Jan-2017 Entry Date: 28-Jan-2017										DRILLING ASSEMBLY <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>No</th> <th>Component</th> <th>OD</th> <th>ID</th> <th>Length</th> </tr> </thead> <tbody> <tr><td>1</td><td>159mm PDC Bit</td><td>159</td><td>1</td><td>0.22</td></tr> <tr><td>1</td><td>475 Mud Motor</td><td>121</td><td>1</td><td>8.86</td></tr> <tr><td>1</td><td>4.75" Flex monel</td><td>121</td><td>68</td><td>9.49</td></tr> <tr><td>1</td><td>Gap sub</td><td>121</td><td>62</td><td>1.72</td></tr> <tr><td>2</td><td>4.75" Flex monel</td><td>121</td><td>68</td><td>18.72</td></tr> <tr><td>1</td><td>3.58" x CDS40 X/O</td><td>128</td><td>57</td><td>0.82</td></tr> <tr><td>1</td><td>Slide reamer</td><td>127</td><td>58</td><td>1.38</td></tr> <tr><td>5</td><td>4" CDS40 Drill Pipe</td><td>102</td><td>64</td><td>48.52</td></tr> <tr><td>1</td><td>126mm Jars</td><td>126</td><td>60</td><td>6.18</td></tr> <tr><td>160</td><td>4" CDS40 Drill Pipe</td><td>102</td><td>64</td><td>48.52</td></tr> <tr><td>48</td><td>4" CDS40 HWDP</td><td>101</td><td>65</td><td>45.55</td></tr> </tbody> </table> Kelly Down: -4.44 Total: 3498.00 Weight of DC: 21.00 Weight of String: 69.00										No	Component	OD	ID	Length	1	159mm PDC Bit	159	1	0.22	1	475 Mud Motor	121	1	8.86	1	4.75" Flex monel	121	68	9.49	1	Gap sub	121	62	1.72	2	4.75" Flex monel	121	68	18.72	1	3.58" x CDS40 X/O	128	57	0.82	1	Slide reamer	127	58	1.38	5	4" CDS40 Drill Pipe	102	64	48.52	1	126mm Jars	126	60	6.18	160	4" CDS40 Drill Pipe	102	64	48.52	48	4" CDS40 HWDP	101	65	45.55	MUD RECORD Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time: 17:45 21:45 Density: 1140 1140 Funnel Viscosity: 57 57 Fluid Loss: pH: Location Of Sample: suction tank#3 Suction#3 Depth: 3498.00 3498.00 PVT: 49.95 52.59 Circulation: Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 84 1700 1.00 2 SINGLE 127 1 1700 0.00										DEVIATION SURVEYS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>Depth</th> <th>Deviation</th> <th>Direction</th> <th>Type</th> </tr> </thead> <tbody> <tr><td>16:00</td><td>16:15</td><td>0.25</td><td>7</td><td>Rig & Top Drive Service. 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