

[illegible]

FRONT PAGE SUMMARY										Tour Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																											
License No 32314 Well Name ARCREZ HZ PARKLAND C12-07-081-16										BEAV15AC 20161231 1A		RMS 2016.6.14.37064		2016		12		31		<div><div>(1) Daily Walk Around Inspection</div><div>(2) Detailed Inspection - Weekly (Using Check List)</div><div>(3) H2S Signs Posted if Required</div><div>(4) Well Licence & Stick Diagram Posted</div><div>(5) Flare Lines Staked</div><div>(6) BOP Tests Performed</div><div>(7) Visually Inspected BOPs Flare Lines & Degasser Lines</div><div>(8) Rig Site Health & Safety Meeting (one/crow/month)</div><div>(9) CADC Rig Safety Inspection Checklist (one/crow/month)</div><div>(10) Mast Inspection before Raising or Lowering</div><div>(11) Crown Block Checked</div><div>(12) Motor Vibs Checked</div></div>										<div><div>DM</div><div>SL</div><div>DM</div><div>SL</div><div>SL</div><div>SL</div><div>SL</div><div>SL</div><div>SL</div><div>SL</div></div>																																																																																																																											
Contractor AR Resources Ltd.										Contractor Beaver Drilling Ltd.		Prov BC		Lic Type DLS		Unique Well Id 104/13-12-081-17W6/00		Rig No 15AC		Well Type HORIZ		Re Entry																																																																																																																																			
17DR0010										0X47		Spud Date Time 30-Dec-2016		02:45		Rig Release Date Time																																																																																																																																									
Signature of Operator's Representative Dan Meyer										Signature of Contractor's Rig Manager Shaun Low																																																																																																																																															
<table><tr><th>Code</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>19</th><th>20</th><th>21</th><th>22</th><th>23</th><th>24</th><th>25</th></tr><tr><td rowspan="4">HOURS</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>0.50</td><td>1.50</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></tr><tr><td>Tour 2</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>TOTAL</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>1.50</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></tr></table>																									Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	HOURS	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											0.50	1.50													Tour 2																									TOTAL											0.50	1.50													FUEL @ 08:00 HRS	
Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25																																																																																																																																
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off 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																																																																																																																																
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TOUR 1 SIGNATURE OF DRILLER Stefan Polny										START TIME 0:00										END TIME 8:00									
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BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
<div>Bit Number</div> <div>Size</div> <div>IADC Code</div> <div>Manufacturer</div> <div>Type</div> <div>Serial No</div> <div>Jets</div> <div>Depth Out (m)</div> <div>Depth In (m)</div> <div>Total Drilled (m)</div> <div>Hrs Run Today</div> <div>Cumulative Hrs Run</div> <div>Entry Date</div>										<div>No</div> <div>Component</div> <div>OD</div> <div>ID</div> <div>Length</div> <div>Mud Type</div> <div>Water</div> <div>Oil</div> <div>Other</div> <div>Time</div> <div>Density</div> <div>Funnel Viscosity</div> <div>Fluid Loss</div> <div>pH</div> <div>Location Of Sample</div> <div>Depth</div> <div>PVT</div> <div>Circulation</div> <div>Pump #</div> <div>Type</div> <div>Liner Size</div> <div>SPM</div> <div>Pressure</div> <div>Hrs Run</div> <div>1</div> <div>152</div> <div>1</div> <div>0</div> <div>0.00</div> <div>2</div> <div>152</div> <div>1</div> <div>0</div> <div>0.00</div>										<div>Time</div> <div>Depth</div> <div>Deviation</div> <div>Direction</div> <div>Type</div> <div>0:00</div> <div>0:30</div> <div>0:50</div> <div>12C</div> <div>0:30</div> <div>2:00</div> <div>1:50</div> <div>13</div>										<div>Equipment Name</div> <div>Hours Run</div> <div>Intake Density</div> <div>Over Flow Density</div> <div>Under Flow Density</div> <div>0.00</div> <div>0</div> <div>0</div> <div>0</div> <div>0.00</div> <div>0</div> <div>0</div> <div>0</div> <div>0</div>										<div>Product</div> <div>Amount</div> <div>Type</div>									
<div>CUTTING STRUCTURE</div> <div>TO</div> <div>LOC</div> <div>BRG</div> <div>MDR</div> <div>LOC</div> <div>BRG</div> <div>MDR</div> <div>LOC</div> <div>BRG</div>										<div>Kelly Crown</div> <div>Taper</div> <div>Weight of DC</div> <div>Weight of String</div>										<div>REDUCED PUMP SPEED</div> <div>Pump #</div> <div>Pressure</div> <div>Strokes/min</div> <div>Depth</div> <div>1</div> <div>2</div> <div>152</div> <div>1</div> <div>0</div> <div>0.00</div> <div>2</div> <div>152</div> <div>1</div> <div>0</div> <div>0.00</div>										<div>BOILER</div> <div>BoilerNo</div> <div>HoursRun</div> <div>pH</div> <div>StackTemp</div> <div>1</div> <div>2.00</div> <div>10.5</div> <div>450</div> <div>2</div> <div>2.00</div> <div>10.5</div> <div>450</div>										<div>SAFETY</div> <div>Safety Topic</div> <div>MEHL</div> <div>MACP</div> <div>17</div> <div>0</div>									
TOUR 2 SIGNATURE OF DRILLER Shaun Low										START TIME 8:00										END TIME 16:00																													
BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
<div>Bit Number</div> <div>Size</div> <div>IADC Code</div> <div>Manufacturer</div> <div>Type</div> <div>Serial No</div> <div>Jets</div> <div>Depth Out (m)</div> <div>Depth In (m)</div> <div>Total Drilled (m)</div> <div>Hrs Run Today</div> <div>Cumulative Hrs Run</div> <div>Entry Date</div>										<div>No</div> <div>Component</div> <div>OD</div> <div>ID</div> <div>Length</div> <div>Mud Type</div> <div>Water</div> <div>Oil</div> <div>Other</div> <div>Time</div> <div>Density</div> <div>Funnel Viscosity</div> <div>Fluid Loss</div> <div>pH</div> <div>Location Of Sample</div> <div>Depth</div> <div>PVT</div> <div>Circulation</div> <div>Pump #</div> <div>Type</div> <div>Liner Size</div> <div>SPM</div> <div>Pressure</div> <div>Hrs Run</div>										<div>Time</div> <div>Depth</div> <div>Deviation</div> <div>Direction</div> <div>Type</div>										<div>Equipment Name</div> <div>Hours Run</div> <div>Intake Density</div> <div>Over Flow Density</div> <div>Under Flow Density</div>										<div>Product</div> <div>Amount</div> <div>Type</div>									
<div>CUTTING STRUCTURE</div> <div>TO</div> <div>LOC</div> <div>BRG</div> <div>MDR</div> <div>LOC</div> <div>BRG</div> <div>MDR</div> <div>LOC</div> <div>BRG</div>										<div>Kelly Crown</div> <div>Taper</div> <div>Weight of DC</div> <div>Weight of String</div>										<div>REDUCED PUMP SPEED</div> <div>Pump #</div> <div>Pressure</div> <div>Strokes/min</div> <div>Depth</div>										<div>BOILER</div> <div>BoilerNo</div> <div>HoursRun</div> <div>pH</div> <div>StackTemp</div>										<div>SAFETY</div> <div>Safety Topic</div> <div>MEHL</div> <div>MACP</div>									
TOUR 3 SIGNATURE OF DRILLER Shaun Low										START TIME 16:00										END TIME 24:00																													
BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
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<div>CUTTING STRUCTURE</div> <div>TO</div> <div>LOC</div> <div>BRG</div> <div>MDR</div> <div>LOC</div> <div>BRG</div> <div>MDR</div> <div>LOC</div> <div>BRG</div>										<div>Kelly Crown</div> <div>Taper</div> <div>Weight of DC</div> <div>Weight of String</div>										<div>REDUCED PUMP SPEED</div> <div>Pump #</div> <div>Pressure</div> <div>Strokes/min</div> <div>Depth</div>										<div>BOILER</div> <div>BoilerNo</div> <div>HoursRun</div> <div>pH</div> <div>StackTemp</div>										<div>SAFETY</div> <div>Safety Topic</div> <div>MEHL</div> <div>MACP</div>									

FRONT PAGE SUMMARY										Tour Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																													
32314 ARCRES HZ PARKLAND C12-07-081-16										BEAV15AC 20170115 1A		RMS 2016.6.14.37064		2017		01		15		(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) HDS Signs Posted if Required (4) Well Licensure & Stick Diagram Posted (5) Flare Lines Sealed (6) HDS Signs Performed (7) Visually Inspected BOP's Flare Lines & Degasser Lines (8) Flare Lines Sealed (9) Flare Lines Sealed (10) Flare Lines Sealed (11) Flare Lines Sealed (12) Flare Lines Sealed (13) Flare Lines Sealed (14) Flare Lines Sealed (15) Flare Lines Sealed (16) Flare Lines Sealed (17) Flare Lines Sealed (18) Flare Lines Sealed (19) Flare Lines Sealed (20) Flare Lines Sealed (21) Flare Lines Sealed (22) Flare Lines Sealed (23) Flare Lines Sealed (24) Flare Lines Sealed (25) Flare Lines Sealed										OP RM CAODC NOV																													
ARC Resources Ltd. 17DR0010 Signature of Operator's Representative Dean Boehner										Beaver Drilling Ltd. 0047 Signature of Contractor's Rig Manager Shaun Low		BC 15AC		DLS HORIZ		104/13-12-081-17W6/00		30-Dec-2016		02:45		(1) Rig Site Health & Safety Meeting (once/week/month) (2) CAODC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Mast Wells Checked										FUEL @ 08:00 HRS 26410 7100																											
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		Cord 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										2.50		0.25		0.75		0.50		1.25		6.00		0.75		1.00		0.50		8.00		8.00		8.00		8.00		8.00		8.00		8.00		8.00		8.00															
Tour 2										5.75		0.25		0.75		0.50		1.25		6.00		1.75		0.50		4.25		2.25		0.50		24.00		24.00		24.00		24.00		24.00		24.00																	
Tour 3										8.25		0.25		0.75		0.50		1.25		6.00		1.75		0.50		4.25		2.25		0.50		24.00		24.00		24.00		24.00		24.00																			
TOTAL										8.00		0.50		1.75		0.50		4.25		2.25		0.50		24.00		24.00		24.00		24.00		24.00		24.00		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 2 Size 200 IADC Code 1 Manufacturer Baker Hughes Type T507F Serial No 7162363 Jars 7.1 7.1 7.9 Depth Out (m) 7.1 7.1 7.9 Depth In (m) 7.1 7.1 7.9 Total Drilled (m) 7.1 7.1 7.9 Hrs Run Today 0.00 Cumulative Hrs Run 0.00 Entry Date 15-Jan-2017										No 1 200mm PDC Bit 200 1 0.30 1 650 Motor 164 1 8.47 1 NM Slick 155 71 8.90 1 Gap Sub 161 79 1.51 1 NM Slick 155 71 8.83 1 x/o 4.5XH - 4"H90 165 57 0.46 6 1/2" Drill Collar 167 59 56.54 1 X/O SUB 165 57 0.79 2 4" CDS40 HWDP 101 65 18.90 1 Jars 163 60 5.24 37 4" CDS40 HWDP 101 65 58.14										Mud Type Water Oil Other Time 07:00 Density 1140 Funnel Viscosity 35 Fluid Loss 0 pH 8.83 Location Of Sample Tank #2 Depth 459.00 PVT Circulation Pump # 1 2 127 1 0 0.00 2 127 1 0 0.00										Time 07:00 Depth 15.00 Deviation 0.92 229.37 Direction DIRECTIONAL Type DIRECTIONAL										From 0:00 To 1:15 Elapsed 1:15 Code 14A 1:15 1:30 0:15 21D 1:30 3:15 1:45 15A 3:15 6:30 3:15 15A 6:30 7:15 0:45 15A 7:15 7:45 0:30 21 7:45 8:00 0:15 15B									
CUTTING STRUCTURE TO 0.00 COG 0.00 MD 0.00 Reason None LOC 0.00 Total Run (m) 0.00 BRG 0.00										Kelly Down -2.31 Total 459.00 Weight of DC 28.00 Weight of String 45.00										REDUCED PUMP SPEED Pump # 1 2 127 1 0 0.00 2 127 1 0 0.00										BOILER BoilerNo 1 HoursRun 8.00 pH 10.5 StackTemp 450 2 8.00 10.5 450										SAFETY Safety Topic MEHL MACP 0 3805									
TOUR 2 SIGNATURE OF DRILLER Luke Hardy										START TIME 8:00										END TIME 16:00																													

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number 2 Size 200 IADC Code 1 Manufacturer Baker Hughes Type T507F Serial No 7162363 Jars 7.1 7.1 7.9 Depth Out (m) 7.1 7.1 7.9 Depth In (m) 7.1 7.1 7.9 Total Drilled (m) 7.1 7.1 7.9 Hrs Run Today 1.25 Cumulative Hrs Run 1.25 Entry Date 15-Jan-2017										No 1 200mm PDC Bit 200 1 0.30 1 650 Motor 164 1 8.47 1 NM Slick 155 71 8.90 1 Gap Sub 161 79 1.51 1 NM Slick 155 71 8.83 1 x/o 4.5XH - 4"H90 165 57 0.46 6 1/2" Drill Collar 167 59 56.54 1 X/O SUB 165 57 0.79 2 4" CDS40 HWDP 101 65 18.90 1 Jars 163 60 5.24 46 4" CDS40 HWDP 101 65 65.64										Mud Type Water Oil Other Time 15:00 Density 1140 Funnel Viscosity 30 Fluid Loss 0 pH 8.83 Location Of Sample Shakers Depth 540.00 PVT 35.51 Circulation Pump # 1 2 127 92 22900 3.00 2 127 92 22900 6.00										Time 15:15 Depth 476.68 Deviation 0.92 229.37 15:45 505.13 0.62 120.74 17:15 591.88 0.62 39.7 17:15 591.88 0.62 39.7 17:30 620.98 0.44 343.8 18:00 650.08 0.40 320.25										From 8:00 To 8:30 Elapsed 0:30 Code 7 8:00 8:30 0:30 7 8:30 9:00 0:30 21F 9:00 9:15 0:15 21A 9:15 9:45 0:30 25 9:45 10:00 0:15 21D 10:00 12:00 2:00 20D 12:00 12:45 0:45 6A 12:45 14:00 1:15 2C 14:00 14:30 0:30 2									
CUTTING STRUCTURE TO 459.00 COG 528.00 MD 528.00 Reason None LOC 55.20 Total Run (m) 55.20 BRG 55.20										Kelly Down -18.66 Total 528.00 Weight of DC 28.00 Weight of String 45.00										REDUCED PUMP SPEED Pump # 1 6000 50 470.00 2 6000 50 470.00										BOILER BoilerNo 1 HoursRun 8.00 pH 10.5 StackTemp 450 2 8.00 10.5 450										SAFETY Safety Topic MEHL MACP 45 3175									
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 2 Size 200 IADC Code 1 Manufacturer Baker Hughes Type T507F Serial No 7162363 Jars 7.1 7.1 7.9 Depth Out (m) 7.1 7.1 7.9 Depth In (m) 7.1 7.1 7.9 Total Drilled (m) 7.1 7.1 7.9 Hrs Run Today 5.75 Cumulative Hrs Run 7.00 Entry Date 15-Jan-2017										No 1 200mm PDC Bit 200 1 0.30 1 650 Motor 164 1 8.47 1 NM Slick 155 71 8.90 1 Gap Sub 161 79 1.51 1 NM Slick 155 71 8.83 1 x/o 4.5XH - 4"H90 165 57 0.46 6 1/2" Drill Collar 167 59 56.54 1 X/O SUB 165 57 0.79 2 4" CDS40 HWDP 101 65 18.90 1 Jars 163 60 5.24 46 4" CDS40 HWDP 101 65 65.64										Mud Type Water Oil Other Time 19:45 21:45 Density 1190 1160 Funnel Viscosity 31 30 Fluid Loss 0 0 pH 10.5 10.5 Location Of Sample Trough Trough Depth 780.11 897.00 PVT 52.79 47.46 Circulation Pump # 1 127 103 28000 8.00 2 127 103 28000 8.00										Time 16:15 Depth 533.66 Deviation 0.53 128.21 16:45 562.77 0.62 156.07 17:15 591.88 0.62 39.7 17:15 591.88 0.62 39.7 17:30 620.98 0.44 343.8 18:00 650.08 0.40 320.25										From 16:00 To 19:00 Elapsed 3:00 Code 2 16:00 19:00 3:00 2 19:00 19:30 0:30 21 19:30 22:15 2:45 2 22:15 24:00 1:45 20A									
CUTTING STRUCTURE TO 528.00 COG 1045.00 MD 1045.00 Reason None LOC 83.71 Total Run (m) 83.71 BRG 83.71										Kelly Down -25.69 Total 1045.00 Weight of DC 28.00 Weight of String 56.00										REDUCED PUMP SPEED Pump # 1 3000 60 882.00 2 3000 60 882.00										BOILER BoilerNo 1 HoursRun 8.00 pH 10.5 StackTemp 450 2 8.00 10.5 450										SAFETY Safety Topic MEHL MACP 60 3085									
TOUR 3 SIGNATURE OF DRILLER Jordan Cawsey										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: 32314 Well Name: ARCRCRES HZ PARKLAND C12-07-081-16 Contractor: Beaver Drilling Ltd. Operator's REP: Dean Boehnert Signature of Operator's Representative: Dean Boehnert										BEAV15AC 20170116 1A Surface Location: 12-7-81-16 W6 Contractor's Job No: 0X47 Signature of Contractor's Rig Manager: Shaun Low		RMS 2016.6.14.37064 Prov: BC Loc Type: DLS Unique Well ID: 104/13-12-081-17W6/00 Rig No: 15AC Well Type: HORIZ Re Entry: <input type="checkbox"/>		2017 01 16		(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Staked (6) BOP Tests Performed (7) Visually Inspected BOPs-Flare Lines & Degasser Lines (8) Flare Lines Staked (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		CAODC NOV											
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										Spool Date Time: 30-Dec-2016 Rig Release Date Time: 02:45		RIGGING: 6.6 Trip Fee: 2852 FUEL @ 08:00 HRS: 23630 7100 Time: 06:00 3 Fuel: 06:00 3 Weather: PARTLY CLOUDY Wind Direction: S Wind Strength: UP TO 30 KM/H Road Condition: FAIR																	

TOUR 1										SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 0:00 END TIME: 8:00																													
BITS Bit Number: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: T507F Type: 7162363 Serial No: 7.1 7.1 7.9 Jars: 7.1 7.1 7.9 Depth Out (m): 459.00 Depth In (m): 902.00 Total Drilled (m): 5.00 Hrs Run Today: 12.00 Cumulative Hrs Run: 15-Jan-2017 Entry Date: 15-Jan-2017										DRILLING ASSEMBLY No. Component OD ID Length 1 200mm PDC Bit 200 1 0.30 1 650 Motor 164 1 8.47 1 NM Slick 155 71 8.90 1 Gap Sub 161 79 1.51 1 NM Slick 155 71 8.83 1 x/o 4.5XH - 4"H90 165 57 0.46 6 1/2" Drill Collar 167 59 56.54 1 X/O SUB 165 57 0.79 2 4" CDS40 HWDP 101 65 18.90 1 Jars 163 60 5.24 46 4" CDS40 HWDP 101 65 18.90 28 Drill Pipe 163 60 5.24 0 Drill Pipe 163 60 5.24 Kelly Down: -0.76 Total: 1361.00 Weight of DC: 28.00 Weight of String: 64.00										MUD RECORD Mud Type: Water Time: 02:00 04:30 Density: 1150 1150 Funnel Viscosity: 30 30 Fluid Loss: 0 0 pH: 10.5 10.5 Location of Sample: Trough Trough Depth: 1131.70 1253.61 PVT: 38.31 40 Circulation: Pump # 1 Type PARALLEL Liner Size 127 SPM 95 Pressure 23000 Hs Run 8.00 2 PARALLEL 127 95 23000 8.00										DEVIATION SURVEYS Time Depth Deviation Direction Type 01:00 1057.69 0.26 50.07 DIRECTIONAL 01:15 1086.79 0.26 12.81 DIRECTIONAL 02:00 1115.88 0.40 339.41 DIRECTIONAL 02:30 1145.01 0.50 335.45 DIRECTIONAL 03:30 1203.28 0.70 339.23 DIRECTIONAL 04:30 1232.36 0.44 72.13 DIRECTIONAL SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 8.00 1150 1120 1850 8.00 1150 1125 1850 MUD MATERIALS ADDED Product Amount Type Limestone 325 4 sxs Limestone 0 grade 19 sxs Sawdust 20 sxs EnerPac Regular 1 sxs										TIME LOG From To Elapsed Code 0:00 0:30 0:50 7 0:30 0:45 0:25 21A 0:45 5:45 5:00 2 5:45 7:30 1:45 20A 7:30 8:00 0:50 21D Details Of Operations In Sequence & Remarks Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Serviced hydraulic I-BOP & functioned lower manual kelly cock. Visual inspection & service of PS-21 slips & inserts. Functioned Annular Preventer, 24 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. Visual inspection of BOP & valves completed by Shaun Low & Chris Baehl. BOP drill (while drilling). Simulated a hard shut in. Crew assumed CAODC designated positions. Well secured in 45 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, ok. Drill vertical section of 200mm main hole from 1045m to 1361m MD. Pump Rate - 1.8 m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 21,000 kPa, Torque - 7,000 ft/lbs, Diff Pressure - 4,000 kPa. Reduce Pump Rate to 1.8m3/min and WOB to 10 kdaN for Bluesky and Cadomin formations. Accumulated EM survey & connection time. Crew hand-over meeting. Discuss hazard id's & daily events.									
TOUR 2										SIGNATURE OF DRILLER: Stefan Polny										START TIME: 8:00 END TIME: 16:00																													

TOUR 2										SIGNATURE OF DRILLER: Stefan Polny										START TIME: 8:00 END TIME: 16:00																													
BITS Bit Number: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: T507F Type: 7162363 Serial No: 7.1 7.1 7.9 Jars: 7.1 7.1 7.9 Depth Out (m): 459.00 Depth In (m): 1143.00 Total Drilled (m): 6.25 Hrs Run Today: 18.25 Cumulative Hrs Run: 15-Jan-2017 Entry Date: 15-Jan-2017										DRILLING ASSEMBLY No. Component OD ID Length 1 200mm PDC Bit 200 1 0.30 1 650 Motor 164 1 8.47 1 NM Slick 155 71 8.90 1 Gap Sub 161 79 1.51 1 NM Slick 155 71 8.83 1 x/o 4.5XH - 4"H90 165 57 0.46 6 1/2" Drill Collar 167 59 56.54 1 X/O SUB 165 57 0.79 2 4" CDS40 HWDP 101 65 18.90 1 Jars 163 60 5.24 46 4" CDS40 HWDP 101 65 18.90 37 Drill Pipe 163 60 5.24 0 Drill Pipe 163 60 5.24 Kelly Down: -21.76 Total: 1602.00 Weight of DC: 28.00 Weight of String: 70.00										MUD RECORD Mud Type: Water Time: 08:00 12:00 Density: 1130 1140 Funnel Viscosity: 30 30 Fluid Loss: 0 0 pH: 10.5 10.5 Location of Sample: Shakers Shakers Depth: 1403.00 1536.00 PVT: 39.94 44.87 Circulation: Pump # 1 Type PARALLEL Liner Size 127 SPM 92 Pressure 23000 Hs Run 8.00 2 PARALLEL 127 92 23000 8.00										DEVIATION SURVEYS Time Depth Deviation Direction Type 08:15 1406.97 0.48 53.94 DIRECTIONAL 09:00 1436.09 0.97 356.11 DIRECTIONAL 09:45 1465.22 0.31 64.49 DIRECTIONAL 10:45 1494.30 0.31 20.36 DIRECTIONAL 12:00 1523.41 0.79 134.18 DIRECTIONAL 13:15 1552.54 0.66 155.63 DIRECTIONAL SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 8.00 1155 1130 1390 8.00 1155 1130 1390 MUD MATERIALS ADDED Product Amount Type Sawdust 155 sxs Caustic Soda 1 sxs Lime Hydrated 4 sxs Brine 32 m3 Enercure 1 sxs Limestone 0 grade 15 sxs EnerClear F 1802 7 sxs Enerscav C 1 bbl Enherb C 1 bbl										TIME LOG From To Elapsed Code 8:00 12:00 4:00 2 12:00 12:30 0:50 7 12:30 14:45 2:25 2 14:45 16:00 1:25 20A Details Of Operations In Sequence & Remarks Drill vertical section of 200mm main hole from 1361m to 1536m MD. Pump Rate - 1.9 m3/min, WOB - 15 kdaN, Rotary - 70 RPM, Pump Pressure - 23,000 kPa, Torque - 7,000 ft/lbs, Diff Pressure - 4,000 kPa. 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. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. Visual inspection of BOP & valves completed by Shaun Low & Dean Boehnert. Drill vertical section of 200mm main hole from 1536m to 1602m MD. Pump Rate - 1.9 m3/min, WOB - 15 kdaN, Rotary - 70 RPM, Pump Pressure - 23,000 kPa, Torque - 7,000 ft/lbs, Diff Pressure - 4,000 kPa. (Begin 3 degree tangent at 1575m MD). Sliding parameters: WOB - 10 kdaN, Diff Pressure - 1,500 kPa. Accumulated time on reciprocating drill string, directional surveys & connections.									
TOUR 3										SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 16:00 END TIME: 24:00																													

TOUR 3										SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 16:00 END TIME: 24:00																													
BITS Bit Number: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: T507F Type: 7162363 Serial No: 7.1 7.1 7.9 Jars: 7.1 7.1 7.9 Depth Out (m): 459.00 Depth In (m): 1263.00 Total Drilled (m): 5.75 Hrs Run Today: 24.00 Cumulative Hrs Run: 15-Jan-2017 Entry Date: 15-Jan-2017										DRILLING ASSEMBLY No. Component OD ID Length 1 200mm PDC Bit 200 1 0.30 1 650 Motor 164 1 8.47 1 NM Slick 155 71 8.90 1 Gap Sub 161 79 1.51 1 NM Slick 155 71 8.83 1 x/o 4.5XH - 4"H90 165 57 0.46 6 1/2" Drill Collar 167 59 56.54 1 X/O SUB 165 57 0.79 2 4" CDS40 HWDP 101 65 18.90 1 Jars 163 60 5.24 46 4" CDS40 HWDP 101 65 18.90 41 Drill Pipe 163 60 5.24 0 Drill Pipe 163 60 5.24 Kelly Down: -18.26 Total: 1722.00 Weight of DC: 28.00 Weight of String: 74.00										MUD RECORD Mud Type: Water Time: 17:30 19:30 Density: 1150 1140 Funnel Viscosity: 30 30 Fluid Loss: 0 0 pH: 10.5 10 Location of Sample: Shakers Trough Depth: 1620.00 1650.18 PVT: 36.63 45.45 Circulation: Pump # 1 Type PARALLEL Liner Size 127 SPM 93 Pressure 24500 Hs Run 8.00 2 PARALLEL 127 93 24500 8.00										DEVIATION SURVEYS Time Depth Deviation Direction Type 16:15 1591.35 1.14 201.24 DIRECTIONAL 16:45 1601.06 1.85 247.21 DIRECTIONAL 17:30 1610.76 2.59 260.66 DIRECTIONAL 17:30 1620.46 3.25 271.12 DIRECTIONAL 18:10 1630.17 3.16 273.93 DIRECTIONAL 19:15 1639.49 2.77 283.07 DIRECTIONAL SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 8.00 1140 1110 1790 8.00 1140 1110 1790 MUD MATERIALS ADDED Product Amount Type Limestone 0 grade 2 sxs Limestone 325 2 sxs Sawdust 20 sxs EnerClear F 1802 2 sxs Lime Hydrated 10 sxs Caustic Soda 1 sxs Defoamer Gemini 1 pall Cal Chloride 10 sxs Brine 8 m3										TIME LOG From To Elapsed Code 16:00 19:30 3:50 2 19:30 20:00 0:50 21 20:00 22:15 2:25 2 22:15 24:00 1:45 20A Details Of Operations In Sequence & Remarks Drill vertical section of 200mm main hole from 1602m to 1652m MD. Pump Rate - 1.9 m3/min, WOB - 16 kdaN, Rotary - 70 RPM, Pump Pressure - 21,000 kPa, Torque - 7,000 ft/lbs, Diff Pressure - 2,500 kPa. Sliding parameters: WOB - 15 kdaN, Diff Pressure - 1,500 kPa. Crew hand-over meeting. Discuss hazard id's & daily events. Drill vertical section of 200mm main hole from 1652m to 1722m MD. Pump Rate - 1.9 m3/min, WOB - 16 kdaN, Rotary - 70 RPM, Pump Pressure - 22,000 kPa, Torque - 8,000 ft/lbs, Diff Pressure - 4,000 kPa. Sliding parameters: WOB - 12 kdaN, Diff Pressure - 1,400 kPa. Accumulated EM survey & connection time.									
TOUR 4										SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 24:00 END TIME: 00:00																													


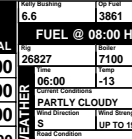
FRONT PAGE SUMMARY										Your Sheet Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																																																																																																																																																																																																					
32314 ARCRCRES HZ PARKLAND C12-07-081-16										BEAV15AC 20170118 1A		RMS 2016.6.14.37064		2017		01		18		(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 Scaled (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (once/month) (9) CADC Rig Safety Inspection Checklist (weekly/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Block Checked (12) Motor Kells Checked										 																																																																																																																																																																																																																																																																																																					
Contractor: Beaver Drilling Ltd.										Prox: BC		Lic Type: DLS		Unique Well Id: 104/13-12-081-17W6/00		Rig No: 15AC		Well Type: HORIZ		Re Entry: <input type="checkbox"/>																																																																																																																																																																																																																																																																																																															
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Signature of Operator's Representative: Dean Boehner										Signature of Contractor's Rig Manager: Shaun Low																																																																																																																																																																																																																																																																																																																									
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Sub</td> <td>161</td> <td>79</td> <td>1.51</td> <td>Funnel Viscosity</td> <td>29</td> <td>30</td> </tr> <tr> <td>Serial No</td> <td>12860042</td> <td>2</td> <td>NM Flex</td> <td>164</td> <td>72</td> <td>18.54</td> <td>Fluid Loss</td> <td>0</td> <td>0</td> </tr> <tr> <td>JMS</td> <td>7.94 7.94 7.94</td> <td>1</td> <td>4" x 5.5XHB-CD540</td> <td>163</td> <td>60</td> <td>0.76</td> <td>pH</td> <td>10.5</td> <td>10.5</td> </tr> <tr> <td>Depth Out (m)</td> <td>1740.00</td> <td>2</td> <td>4" x 5.5XHB-CD540</td> <td>163</td> <td>60</td> <td>0.76</td> <td>Location Of Sample</td> <td>trough</td> <td>trough</td> </tr> <tr> <td>Depth In (m)</td> <td>196.00</td> <td>1</td> <td>4" x 5.5XHB-CD540</td> <td>163</td> <td>60</td> <td>0.76</td> <td>Depth</td> <td>1879.00</td> <td>1897.00</td> </tr> <tr> <td>Total Drilled (m)</td> <td>196.00</td> <td>1</td> <td>Jars</td> <td>163</td> <td>60</td> <td>5.24</td> <td>PVT</td> <td>27</td> <td>29.74</td> </tr> <tr> <td>Hrs Run Today</td> <td>5.25</td> <td>46</td> <td>4" x 5.5XHB-CD540</td> <td>163</td> <td>60</td> <td>0.76</td> <td>Circulation</td> <td></td> <td></td> </tr> <tr> <td>Cumulative Hrs Run</td> <td>12.00</td> <td>49</td> <td>4" x 5.5XHB-CD540</td> <td>163</td> <td>60</td> <td>0.76</td> <td>Pump #</td> <td>Type</td> <td>Line Size</td> </tr> <tr> <td>Entry Date</td> <td>17-Jan-2017</td> <td>1</td> <td>Drill Pipe</td> <td>Standards</td> <td>1426.51</td> <td>9.72</td> <td>1</td> <td>CONCRETE</td> <td>127</td> </tr> <tr> <td>CUTTING STRUCTURE</td> <td></td> <td>1</td> <td>Drill Pipe</td> <td>Singles</td> <td>9.72</td> <td>8.00</td> <td>2</td> <td>CONCRETE</td> <td>127</td> </tr> <tr> <td>TO</td> <td>10</td> <td>1</td> <td>Drill Pipe</td> <td>Singles</td> <td>9.72</td> <td>8.00</td> <td>2</td> <td>CONCRETE</td> <td>127</td> </tr> <tr> <td>MO</td> <td>10</td> <td>1</td> <td>Drill Pipe</td> <td>Singles</td> <td>9.72</td> <td>8.00</td> <td>2</td> <td>CONCRETE</td> <td>127</td> </tr> <tr> <td>LO</td> <td>10</td> <td>1</td> 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<td>46</td> <td>4" x 5.5XHB-CD540</td> <td>163</td> <td>60</td> <td>0.76</td> <td>Circulation</td> <td></td> <td></td> </tr> <tr> <td>Cumulative Hrs Run</td> <td>14.75</td> <td>51</td> <td>4" x 5.5XHB-CD540</td> <td>163</td> <td>60</td> <td>0.76</td> <td>Pump #</td> <td>Type</td> </tr> <tr> <td>Entry Date</td> <td>17-Jan-2017</td> <td>0</td> <td>Drill Pipe</td> <td>Standards</td> <td>1484.74</td> <td>0.00</td> <td>1</td> <td>PARALLEL</td> <td>127</td> </tr> <tr> <td>CUTTING STRUCTURE</td> <td></td> <td>1</td> <td>Drill Pipe</td> <td>Singles</td> <td>1484.74</td> <td>0.00</td> <td>2</td> <td>PARALLEL</td> <td>127</td> </tr> <tr> <td>TO</td> <td>10</td> <td>1</td> <td>Drill Pipe</td> <td>Singles</td> <td>1484.74</td> <td>0.00</td> <td>2</td> <td>PARALLEL</td> <td>127</td> </tr> <tr> <td>MO</td> <td>10</td> <td>1</td> <td>Drill Pipe</td> <td>Singles</td> <td>1484.74</td> <td>0.00</td> <td>2</td> <td>PARALLEL</td> <td>127</td> </tr> <tr> <td>LO</td> <td>10</td> <td>1</td> <td>Drill 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Date	17-Jan-2017	0	Drill Pipe	Standards	1484.74	0.00	1	PARALLEL	127	CUTTING STRUCTURE		1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	TO	10	1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	MO	10	1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	LO	10	1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	BO	10	1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	REDUCED PUMP SPEED		1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	From	1936.00	1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	To	1967.00	1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	D-R-C	35	1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	RPM	15	1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	WOB	15	1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	HOLE CONDITION		1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	Hole Drag	Up	1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	Torque At Bottom	10000	1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	Fill On Bottom	0.00	1	Drill Pipe	Singles	1484.74	0.00	2	PARALLEL	127	TOUR	3	SIGNATURE OF DRILLER	Jordan Cawsey	START TIME	16:00	END TIME	24:00	
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Sub</td> <td>161</td> <td>79</td> <td>1.51</td> <td>Funnel Viscosity</td> <td>65</td> <td>66</td> </tr> <tr> <td>Serial No</td> <td>12860042</td> <td>2</td> <td>NM Flex</td> <td>164</td> <td>72</td> <td>18.54</td> <td>Fluid Loss</td> <td>0</td> <td>0</td> </tr> <tr> <td>JMS</td> <td>7.94 7.94 7.94</td> <td>1</td> <td>4" x 5.5XHB-CD540</td> <td>163</td> <td>60</td> <td>0.76</td> <td>pH</td> <td>10.5</td> <td>10.5</td> </tr> <tr> <td>Depth Out (m)</td> <td>1740.00</td> <td>2</td> <td>4" x 5.5XHB-CD540</td> <td>163</td> <td>60</td> <td>0.76</td> <td>Location Of Sample</td> <td>Trough</td> <td>Trough</td> </tr> <tr> <td>Depth In (m)</td> <td>323.00</td> <td>1</td> <td>4" x 5.5XHB-CD540</td> <td>163</td> <td>60</td> <td>0.76</td> <td>Depth</td> <td>1977.00</td> <td>2008.00</td> </tr> <tr> <td>Total Drilled (m)</td> <td>323.00</td> <td>1</td> <td>Jars</td> <td>163</td> <td>60</td> <td>5.24</td> <td>PVT</td> <td>65.45</td> <td>63.75</td> </tr> <tr> <td>Hrs Run Today</td> <td>6.00</td> <td>46</td> <td>4" x 5.5XHB-CD540</td> <td>163</td> <td>60</td> <td>0.76</td> <td>Circulation</td> <td></td> <td></td> </tr> <tr> <td>Cumulative Hrs Run</td> <td>20.75</td> <td>54</td> <td>4" x 5.5XHB-CD540</td> <td>163</td> <td>60</td> <td>0.76</td> <td>Pump #</td> <td>Type</td> </tr> <tr> <td>Entry Date</td> <td>17-Jan-2017</td> <td>0</td> <td>Drill Pipe</td> <td>Standards</td> <td>1572.02</td> <td>0.00</td> <td>1</td> <td>PARALLEL</td> <td>127</td> </tr> <tr> <td>CUTTING STRUCTURE</td> <td></td> <td>1</td> <td>Drill Pipe</td> <td>Singles</td> <td>1572.02</td> <td>0.00</td> <td>2</td> <td>PARALLEL</td> <td>127</td> </tr> <tr> <td>TO</td> <td>10</td> <td>1</td> <td>Drill Pipe</td> <td>Singles</td> <td>1572.02</td> <td>0.00</td> <td>2</td> <td>PARALLEL</td> <td>127</td> </tr> <tr> <td>MO</td> <td>10</td> <td>1</td> <td>Drill Pipe</td> <td>Singles</td> <td>1572.02</td> <td>0.00</td> <td>2</td> <td>PARALLEL</td> <td>127</td> </tr> <tr> <td>LO</td> <td>10</td> <td>1</td> <td>Drill 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TIME</td> <td>16:00</td> <td>END TIME</td> <td>24:00</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	Size	200	1	200mm PDC Bit	200	1	0.26		<input checked="" type="checkbox"/>	<input type="checkbox"/>	IADC Code		1	650ML Motor	165	1	8.76	Time	17:00	18:30	Manufacturer	Halliburton	1	NM Flex	164	72	9.41	Density	1140	1150	Type	MMD64M	1	Gap Sub	161	79	1.51	Funnel Viscosity	65	66	Serial No	12860042	2	NM Flex	164	72	18.54	Fluid Loss	0	0	JMS	7.94 7.94 7.94	1	4" x 5.5XHB-CD540	163	60	0.76	pH	10.5	10.5	Depth Out (m)	1740.00	2	4" x 5.5XHB-CD540	163	60	0.76	Location Of Sample	Trough	Trough	Depth In (m)	323.00	1	4" x 5.5XHB-CD540	163	60	0.76	Depth	1977.00	2008.00	Total Drilled (m)	323.00	1	Jars	163	60	5.24	PVT	65.45	63.75	Hrs Run Today	6.00	46	4" x 5.5XHB-CD540	163	60	0.76	Circulation			Cumulative Hrs Run	20.75	54	4" x 5.5XHB-CD540	163	60	0.76	Pump #	Type	Entry Date	17-Jan-2017	0	Drill Pipe	Standards	1572.02	0.00	1	PARALLEL	127	CUTTING STRUCTURE		1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	TO	10	1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	MO	10	1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	LO	10	1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	BO	10	1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	REDUCED PUMP SPEED		1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	From	1967.00	1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	To	2063.00	1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	D-R-C	35	1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	RPM	16	1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	WOB	16	1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	HOLE CONDITION		1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	Hole Drag	Up	1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	Torque At Bottom	8	1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	Fill On Bottom	0.00	1	Drill Pipe	Singles	1572.02	0.00	2	PARALLEL	127	TOUR	4	SIGNATURE OF 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CUTTING STRUCTURE TO MDC LOC BRG 16.33										Kelly Down Total 1936.00 Weight of DC 28.00 Weight of String 71.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 3575 @ 60 @ 1960.00										BOILER BoilerNo HoursRun pH StackTemp										SAFETY Safety Topic MEHL MACP Man Down Drill 85 3220																			
TOUR 2 SIGNATURE OF DRILLER Stefan Polny																									START TIME 8:00		END TIME 16:00																																

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG																			
Bit Number 3 Size 200 IADC Code Manufacturer Halliburton Type MMD64M Serial No 12860042 JMS 7.94 7.94 7.94 7.94 Depth Out (m) 1740.00 Depth In (m) 227.00 Total Drilled (m) 227.00 Hrs Run Today 2.75 Cumulative Hrs Run 14.75 Entry Date 17-Jan-2017										No Component OD ID Length 1 200mm PDC Bit 200 1 0.26 1 650ML Motor 165 1 8.76 1 NM Flex 164 72 9.41 1 Gap Sub 161 79 1.51 2 NM Flex 164 72 18.54 1 xlo 4.5XHB-CD540 163 60 0.76 2 4" CD540 HWDP 101 65 18.96 1 Jars 163 60 5.24 46 4" CD540 HWDP 101 65 18.96										Mud Type Water <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Time 15:15 Density 1160 Funnel Viscosity 88 Fluid Loss 0 pH Location Of Sample Trough Depth 1966.08 PVT 65.5 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 PARALLEL 127 93 23700 8.00 2 PARALLEL 127 91 23700 8.00										SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 5.00 1140 1110 1790 5.00 1140 1110 1790										MUD MATERIALS ADDED Product Amount Type										Details Of Operations In Sequence & Remarks Remarks Hazard ID: Prior to well fluid displacement noted that my 2-way radio battery was low. / Replaced it and checked with other men involved.									
CUTTING STRUCTURE TO MDC LOC BRG 15.39										Kelly Down Total 1967.00 Weight of DC 28.00 Weight of String 71.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 8500 @ 83 @ 1963.00										BOILER BoilerNo HoursRun pH StackTemp										SAFETY Safety Topic MEHL MACP Hazard Assessment																			
TOUR 3 SIGNATURE OF DRILLER Jordan Cawsey																									START TIME 16:00		END TIME 24:00																																

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG																			
Bit Number 3 Size 200 IADC Code Manufacturer Halliburton Type MMD64M Serial No 12860042 JMS 7.94 7.94 7.94 7.94 Depth Out (m) 1740.00 Depth In (m) 323.00 Total Drilled (m) 323.00 Hrs Run Today 6.00 Cumulative Hrs Run 20.75 Entry Date 17-Jan-2017										No Component OD ID Length 1 200mm PDC Bit 200 1 0.26 1 650ML Motor 165 1 8.76 1 NM Flex 164 72 9.41 1 Gap Sub 161 79 1.51 2 NM Flex 164 72 18.54 1 xlo 4.5XHB-CD540 163 60 0.76 2 4" CD540 HWDP 101 65 18.96 1 Jars 163 60 5.24 46 4" CD540 HWDP 101 65 18.96										Mud Type Water <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Time 23:00 Density 1150 Funnel Viscosity 66 Fluid Loss 0 pH Location Of Sample trough Depth 2053.00 PVT 61.31 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 9700 @ 92 @ 1984.00 2 PARALLEL 127 93 33000 8.00										SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 0.00 0 0 0 0.00 0 0 0										MUD MATERIALS ADDED Product Amount Type										Details Of Operations In Sequence & Remarks Remarks Hazard ID: While changing a head on pump #1 the guys were running to get all of their tools ready / I told them to slow down because we dont need someone tripping or falling and hurting themselves just to save a few seconds.									
CUTTING STRUCTURE TO MDC LOC BRG 15.57										Kelly Down Total 2063.00 Weight of DC 71.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 9700 @ 92 @ 1984.00										BOILER BoilerNo HoursRun pH StackTemp										SAFETY Safety Topic MEHL MACP IRS 76 3130																			

FRONT PAGE SUMMARY										TOUR SHEET SUMMARY										DAILY CHECKS										OP RM																			
32314 ARCRES HZ PARKLAND C12-07-081-16 ARC Resources Ltd. 17DR0010 Dean Boehnert										BEAV15AC 20170119 1A 12-7-81-16 W6 Beaver Drilling Ltd. 0047 Shaun Low										RMS 2016.6.14.37064 BC 15AC 2017 01 19 104/13-12-081-17W6/00 HORIZ 30-Dec-2016 02:45										(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) HSE Signs Posted if Required (4) Well License & Block Diagram Posted (5) Flare Lines Inspected (6) BOP Tests Performed (7) Visually Inspected BOPs/Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (once/week/month) (9) CADC Rig Safety Inspection Checklist (weekly/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Block Checked (12) Motor Kils Checked										 									
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										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										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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DETAILS OF OPERATIONS IN SEQUENCE & REMARKS Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Serviced hydraulic BOP & functioned lower manual kelly cock. 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. Performed a brake capacity test, ok. Visual inspection of BOP & valves completed by Shaun Low & Dan Meyer. Directional Drill Build section of 200mm main hole from 2063m to 2111m MD. Pump Rate - 1.3 m3/min, WOB - 17 kdaN, Rotary - 35 RPM, Pump Pressure - 33.200 kPa, Torque - 9.000 ft/lbs, Diff Pressure - 2.500 kPa. Sliding parameters: WOB - 19 kdaN, Diff Pressure - 1.600 kPa. Accumulated EM survey & connection time. Circulate and condition well prior to tripping out of hole. Review JSA. Pump 2.5m3 of 1450kg/m3 weighted slug, pill recovery = 0.65m3. Trip out of hole @ 30m/min from 2110m to 1488m MD. Flowchecks @ 2099m and 1981m. Crew hand-over meeting. Discuss hazard id's & daily events.										DETAILS OF OPERATIONS IN SEQUENCE & REMARKS Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Serviced hydraulic BOP & functioned lower manual kelly cock. 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. Performed a brake capacity test, ok. Visual inspection of BOP & valves completed by Shaun Low & Dan Meyer. Directional Drill Build section of 200mm main hole from 2063m to 2111m MD. Pump Rate - 1.3 m3/min, WOB - 17 kdaN, Rotary - 35 RPM, Pump Pressure - 33.200 kPa, Torque - 9.000 ft/lbs, Diff Pressure - 2.500 kPa. Sliding parameters: WOB - 19 kdaN, Diff Pressure - 1.600 kPa. Accumulated EM survey & connection time. Circulate and condition well prior to tripping out of hole. Review JSA. Pump 2.5m3 of 1450kg/m3 weighted slug, pill recovery = 0.65m3. Trip out of hole @ 30m/min from 2110m to 1488m MD. Flowchecks @ 2099m and 1981m. Crew hand-over meeting. Discuss hazard id's & daily events.										DETAILS OF OPERATIONS IN SEQUENCE & REMARKS Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Serviced hydraulic BOP & functioned lower manual kelly cock. 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. Performed a brake capacity test, ok. Visual inspection of BOP & valves completed by Shaun Low & Dan Meyer. Directional Drill Build section of 200mm main hole from 2063m to 2111m MD. Pump Rate - 1.3 m3/min, WOB - 17 kdaN, Rotary - 35 RPM, Pump Pressure - 33.200 kPa, Torque - 9.000 ft/lbs, Diff Pressure - 2.500 kPa. Sliding parameters: WOB - 19 kdaN, Diff Pressure - 1.600 kPa. Accumulated EM survey & connection time. Circulate and condition well prior to tripping out of hole. Review JSA. Pump 2.5m3 of 1450kg/m3 weighted slug, pill recovery = 0.65m3. Trip out of hole @ 30m/min from 2110m to 1488m MD. Flowchecks @ 2099m and 1981m. Crew hand-over meeting. Discuss hazard id's & daily events.										DETAILS OF OPERATIONS IN SEQUENCE & REMARKS Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Serviced hydraulic BOP & functioned lower manual kelly cock. 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. Performed a brake capacity test, ok. Visual inspection of BOP & valves completed by Shaun Low & Dan Meyer. Directional Drill Build section of 200mm main hole from 2063m to 2111m MD. Pump Rate - 1.3 m3/min, WOB - 17 kdaN, Rotary - 35 RPM, Pump Pressure - 33.200 kPa, Torque - 9.000 ft/lbs, Diff Pressure - 2.500 kPa. Sliding parameters: WOB - 19 kdaN, Diff Pressure - 1.600 kPa. Accumulated EM survey & connection time. Circulate and condition well prior to tripping out of hole. Review JSA. Pump 2.5m3 of 1450kg/m3 weighted slug, pill recovery = 0.65m3. Trip out of hole @ 30m/min from 2110m to 1488m MD. Flowchecks @ 2099m and 1981m. Crew hand-over meeting. Discuss hazard id's & daily events.																			
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Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Serviced hydraulic BOP & functioned lower manual BOP. Visual inspection & service of PS-21 slips & inserts. Functioned lower pipe 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 Shaun Low & Dean Boehnert. Continue to trip in hole @ 30m/min from 454m to 703m MD.										DETAILS OF OPERATIONS IN SEQUENCE & REMARKS Continue to trip out of hole @ 30m/min from 1488m to 39m MD. Flow Check @ 1051m, 526m. SAFETY meeting & JSA review with Dynamic. Handle directional tools. Break flex monels. Remove Gap sub & EM tool. Rack 1 - stand of flex monels in the derrick. Drain motor & break 200mm PDC bit #3. Laydown motor. Out of hole - Function HCR 2 seconds to open & blind rams 4 seconds to close. Trip record calculated 9.18m3, measured 10.43m3, difference 1.25m3. Flow Check @ 0m. 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DETAILS OF OPERATIONS IN SEQUENCE & REMARKS Continue to trip in hole @ 30m/min from 2111m to 2335m MD. Flow Check @ 2111m. Wash 26m to bottom from 2335m to 2555m MD. Pump rate 1.27m3/min. Rotary 60 RPM. Crew hand-over meeting. Discuss hazard id's & daily events. Directional Drill Laternal section of 159mm main hole from 2335m to 2555m MD. Pump Rate - 1.27 m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 33.700 kPa, Torque - 11.000 ft/lbs, Diff Pressure - 8.200 kPa. Sliding parameters: WOB - 10 kdaN, Diff Pressure - 3.200 kPa. Accumulated EM Survey & Connection time.										DETAILS OF OPERATIONS IN SEQUENCE & REMARKS Continue to trip in hole @ 30m/min from 2111m to 2335m MD. Flow Check @ 2111m. Wash 26m to bottom from 2335m to 2555m MD. Pump rate 1.27m3/min. Rotary 60 RPM. Crew hand-over meeting. Discuss hazard id's & daily events. Directional Drill Laternal section of 159mm main hole from 2335m to 2555m MD. Pump Rate - 1.27 m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 33.700 kPa, Torque - 11.000 ft/lbs, Diff Pressure - 8.200 kPa. Sliding parameters: WOB - 10 kdaN, Diff Pressure - 3.200 kPa. Accumulated EM Survey & Connection time.										DETAILS OF OPERATIONS IN SEQUENCE & REMARKS Continue to trip in hole @ 30m/min from 2111m to 2335m MD. Flow Check @ 2111m. Wash 26m to bottom from 2335m to 2555m MD. Pump rate 1.27m3/min. Rotary 60 RPM. Crew hand-over meeting. Discuss hazard id's & daily events. Directional Drill Laternal section of 159mm main hole from 2335m to 2555m MD. Pump Rate - 1.27 m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 33.700 kPa, Torque - 11.000 ft/lbs, Diff Pressure - 8.200 kPa. Sliding parameters: WOB - 10 kdaN, Diff Pressure - 3.200 kPa. Accumulated EM Survey & Connection time.										DETAILS OF OPERATIONS IN SEQUENCE & REMARKS Continue to trip in hole @ 30m/min from 2111m to 2335m MD. Flow Check @ 2111m. Wash 26m to bottom from 2335m to 2555m MD. Pump rate 1.27m3/min. Rotary 60 RPM. Crew hand-over meeting. Discuss hazard id's & daily events. Directional Drill Laternal section of 159mm main hole from 2335m to 2555m MD. Pump Rate - 1.27 m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 33.700 kPa, Torque - 11.000 ft/lbs, Diff Pressure - 8.200 kPa. Sliding parameters: WOB - 10 kdaN, Diff Pressure - 3.200 kPa. Accumulated EM Survey & Connection time.																			
TOUR 7 SIGNATURE OF DRILLER Jordan Cawsey										TOUR 7 SIGNATURE OF DRILLER Jordan Cawsey										TOUR 7 SIGNATURE OF DRILLER Jordan Cawsey										TOUR 7 SIGNATURE OF DRILLER Jordan Cawsey																			
START TIME 16:00 END TIME 24:00										START TIME 16:00 END TIME 24:00										START TIME 16:00 END TIME 24:00										START TIME 16:00 END TIME 24:00																			
DETAILS OF OPERATIONS IN SEQUENCE & REMARKS Continue to trip in hole @ 30m/min from 2555m to 2775m MD. Flow Check @ 2555m. Wash 26m to bottom from 2775m to 2995m MD. Pump rate 1.27m3/min. Rotary 60 RPM. Crew hand-over meeting. Discuss hazard id's & daily events. Directional Drill Laternal section of 159mm main hole from 2775m to 2995m MD. Pump Rate - 1.27 m3/min																																																	

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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BITS						DRILLING ASSEMBLY							MUD RECORD				DEVIATION SURVEYS					TIME LOG										
Bit Number	4					No.	Component	ID	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 Reed PDC	159	1	0.22	Other																					
IADC Code						1	4.75" motor	124	1	8.90																						
Manufacturer	Reed					1	4.75" Flex monel	121	68	9.49					Density																	
Type	SK413M-A1G-Z					1	Gap sub	121	62	1.72					Funnel Viscosity																	
Serial No	E212941					2	4.75" Flex monel	121	68	18.77					Fluid Loss																	
Jets						1	CD540B-3 SIFF x10	128	57	0.82					pH																	
						1	Slide reamer	127	58	1.38					Location Of Sample																	
						5	4" CD540 Drill Pipe	102	64	48.32					Depth																	
Depth Out (m)						1	Slim Jars	126	60	6.18					PVT																	
Depth In (m)	2111.00					58	4" CD540 Drill Pipe	102	64	55.83					Circulation																	
Total Drilled (m)						1	Agitator	120	58	7.97	Pump #	Type	Liner Size	SPM	Pressure	Hg Rtn																
Hrs Run Today	0.00					95	4" CD540 Drill Pipe	102	64	30.32	1	SINGLE	127	1	0	0.00																
Cumulative Hrs Run	0.00					48	4" CD540 HWDP	101	65	48.32	2	SINGLE	127	1	0	0.00																
Entry Date	19-Jan-2017					3	Drill Pipe	Stand		87.32						MUD MATERIALS ADDED																
CUTTING STRUCTURE						0	Drill Pipe	Singles		0.00						Product					Amount	Type										
						Kelly Dog					-20.61						Remarks															
						Total					2111.00						Hazard ID: During slip & cut operations, hand stopped himself before entering the drum. / He was wearing a fall arrest belt. Asked another hand to enter drum area.															
						Weight of DC					23.00																					
						Weight of String					70.00																					
METRES DRILLED						REDUCED PUMP SPEED																										
From	To	D-R-C	RPM	WOB	HOLE CONDITION					Pump #	Pressure	Strokes/min	Depth	BOILER					SAFETY													
					Hole Drag	Up	Down	Torque At Bottom		@	@	@	@	BoilerNo	HoursRun	pH	StackTemp	Safety Topic					MEHL	MACP								
					Fill On Bottom					@	@	@	@						10 Golden rules.					45	3130							

TOUR **3** SIGNATURE OF DRILLER **Jordan Cawsey** START TIME **16:00** END TIME **24:00**

[illegible]

FRONT PAGE SUMMARY										Your Sheet Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM	
License No 32314 Well Name ARCRCES HZ PARKLAND C12-07-081-16 Contractor ARCRCES HZ PARKLAND C12-07-081-16 Beaver Drilling Ltd. Contractor's Job No. 0047 Signature of Operator's Representative Dean Boehnert Signature of Contractor's Rig Manager Shaun Low										BEAV15AC 20170120 1B		RMS 2016.6.14.37064		2017		01		20		(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) Mast Inspection before Raising or Lowering (11) Crown Block Checked (12) Motor Kils Checked										 	
Code 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25										12-7-81-16 W6		BC		DLS		15AC		HORIZ		Spool Date Time 30-Dec-2016 02:45 Rig Release Date Time										FUEL @ 08:00 HRS 23491 7100 WEATHER 06:00 -1 PARTLY CLOUDY Wind Direction SW Wind Speed UP TO 19 KM/H Road Condition FAIR	
Hours Tour 1: 5.00 Tour 2: 3.00 Tour 3: 3.25 TOTAL: 11.25										0.50		0.50		4.50		3.25		0.50		8.00 8.00 8.00 24.00										8:00 8:00 8:00 24:00	

TOUR 1										SIGNATURE OF DRILLER Jordan Cawsey										START TIME 0:00										END TIME 8:00									
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BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number 4 Size 159 IADC Code Reed Manufacturer SK413M-A1G-Z Type E212941 Serial No 9.53 9.53 Depth Out (m) 2111.00 Depth In (m) 660.00 Total Drilled (m) 5.00 Hrs Run Today 7.75 Cumulative Hrs Run 19-Jan-2017 Entry Date 19-Jan-2017										No 1 Component 159mm Reed PDC ID 159 Length 1.022 1 4.75" motor 124 1.890 1 4.75" Flex motor 121 68.949 1 Gap sub 121 62.172 2 4.75" Flex motor 121 68.187 1 Slide reamer 127 58.136 5 4" CDS40 Drill Pipe 102 64.48.53 1 Slim Jars 126 60.6.18 58 4" CDS40 Drill Pipe 102 64.50.82 1 Agitator 120 58.7.97 95 4" CDS40 Drill Pipe 102 64.50.82 48 4" CDS40 HWDP 101 65.45.53 25 Drill Pipe 102 64.50.82 0 Drill Pipe 102 64.50.82 Remarks										Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time 01:00 03:00 Density 1170 1160 Funnel Viscosity 74 72 Fluid Loss 0 0 pH 0 0 Location Of Sample Trough Trough Depth 2365.00 2474.00 PVT 60 56.7 Circulation Pump # 1 Type SINGLE Liner Size 127 SPM 120 Pressure 33900 Hrs Run 8.00 2 SINGLE 127 1 33900 0.00										Time 00:15 2234.08 91.36 286.5 00:45 2263.15 89.56 286.23 01:00 2292.26 90.31 287.46 01:00 2321.37 88.37 286.59 01:15 2350.48 87.63 286.32 01:45 2379.59 89.34 284.04 SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Enertone D 8.00 1170 1120 1945 Enertone D 0.00 0 0 0 MUD MATERIALS ADDED Product Amount Type Enertone D 1 sxs Enertone D 27 sxs Lime Hydrated 25 sxs Base Oil 2 m3 Invert 6 m3										From 0:00 To 0:30 Elapsed 0:50 Code 7 Details Of Operations In Sequence & Remarks Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Serviced hydraulic I-BOP & functioned lower manual kelly cock. 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. Added hydraulic oil to TDS-11SA Top Drive. Visual inspection of BOP & valves completed by Murray Allan & Dan Meyer. 0:30 5:30 5:00 2 Directional Drill Lateral section of 159mm main hole from 2335m to 2771m MD. Pump Rate - 1.27 m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 33,900 kPa, Torque - 11,500 ft/lbs, Diff Pressure - 8,400 kPa. Sliding parameters: WOB - 12 kdaN, Diff Pressure - 2,800 kPa. 5:30 7:30 2:00 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 10 COG 000 LOC 85.16 WOB 85.16 Weight of DC 2771.00 Weight of String 19.00 Weight of BOP 70.00										HOLE CONDITION Hole Drag Up 3 Down 8 Torque At Bottom 11500 Fill On Bottom 0.00										REDUCED PUMP SPEED Pump # 1 Pressure 8450 Strokes/min 60 Depth 2332.80 2 SINGLE 127 1 36000 0.00										SAFETY Safety Topic MEHL MSDS 85 3085 MACP																			
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 4 Size 159 IADC Code Reed Manufacturer SK413M-A1G-Z Type E212941 Serial No 9.53 9.53 Depth Out (m) 2111.00 Depth In (m) 1029.00 Total Drilled (m) 3.00 Hrs Run Today 10.75 Cumulative Hrs Run 19-Jan-2017 Entry Date 19-Jan-2017										No 1 Component 159mm Reed PDC ID 159 Length 1.022 1 4.75" motor 124 1.890 1 4.75" Flex motor 121 68.949 1 Gap sub 121 62.172 2 4.75" Flex motor 121 68.187 1 Slide reamer 127 58.136 5 4" CDS40 Drill Pipe 102 64.48.53 1 Slim Jars 126 60.6.18 58 4" CDS40 Drill Pipe 102 64.50.82 1 Agitator 120 58.7.97 95 4" CDS40 Drill Pipe 102 64.50.82 48 4" CDS40 HWDP 101 65.45.53 38 Drill Pipe 102 64.50.82 0 Drill Pipe 102 64.50.82 Remarks										Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time 08:00 10:45 Density 1160 1165 Funnel Viscosity 68 69 Fluid Loss 0 0 pH 0 0 Location Of Sample Trough Trough Depth 2743.45 2906.95 PVT 57.35 51.3 Circulation Pump # 1 Type SINGLE Liner Size 127 SPM 120 Pressure 36000 Hrs Run 8.00 2 SINGLE 127 1 36000 0.00										Time 08:00 2728.80 89.30 283.86 08:30 2757.88 90.66 285 08:45 2786.98 90.44 284.65 09:15 2816.14 91.19 285.71 09:45 2845.30 88.68 285.97 10:30 2874.53 90.83 285.97 SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Enertone D 8.00 1160 1110 1940 Enertone D 0.00 0 0 0 MUD MATERIALS ADDED Product Amount Type Wetting Agent 1 bbl Chemclean Green 1 pall Cal Nitrate 1 sxs Enertone D 86 sxs Lime Hydrated 15 sxs										From 8:00 To 10:00 Elapsed 2:00 Code 2 Details Of Operations In Sequence & Remarks 8:00 10:00 2:00 2 Directional Drill Lateral section of 159mm main hole from 2771m to 2976m MD. Pump Rate - 1.27 m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 35,000 kPa, Torque - 12,000 ft/lbs, Diff Pressure - 8,900 kPa. Sliding parameters: WOB - 16 kdaN, Diff Pressure - 2,800 kPa. 10:00 10:30 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 slips & inserts. Functioned upper & lower pipe rams 4 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 Boehnert. 10:30 11:30 1:00 2 Directional Drill Lateral section of 159mm main hole from 2976m to 3140m MD. Pump Rate - 1.27 m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 36,000 kPa, Torque - 12,500 ft/lbs, Diff Pressure - 9,400 kPa. Sliding parameters: WOB - 20 kdaN, Diff Pressure - 3,200 kPa. 11:30 16:00 4:50 20A Accumulated time on reciprocating drill string, Toolface orientation, conditioning hole, directional surveys & connections.									
CUTTING STRUCTURE TO 10 COG 000 LOC 95.72 WOB 95.72 Weight of DC 3140.00 Weight of String 23.00 Weight of BOP 69.00										HOLE CONDITION Hole Drag Up 8 Down 13 Torque At Bottom 12500 Fill On Bottom 0.00										REDUCED PUMP SPEED Pump # 1 Pressure 9000 Strokes/min 60 Depth 2975.80 2 SINGLE 127 1 36000 0.00										SAFETY Safety Topic MEHL Electricity, Lockout / Tagout Policy 87 3040 MACP																			
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 4 Size 159 IADC Code Reed Manufacturer SK413M-A1G-Z Type E212941 Serial No 9.53 9.53 Depth Out (m) 2111.00 Depth In (m) 1279.00 Total Drilled (m) 3.50 Hrs Run Today 14.25 Cumulative Hrs Run 19-Jan-2017 Entry Date 19-Jan-2017										No 1 Component 159mm Reed PDC ID 159 Length 1.022 1 4.75" motor 124 1.890 1 4.75" Flex motor 121 68.949 1 Gap sub 121 62.172 2 4.75" Flex motor 121 68.187 1 Slide reamer 127 58.136 5 4" CDS40 Drill Pipe 102 64.48.53 1 Slim Jars 126 60.6.18 58 4" CDS40 Drill Pipe 102 64.50.82 1 Agitator 120 58.7.97 95 4" CDS40 Drill Pipe 102 64.50.82 48 4" CDS40 HWDP 101 65.45.53 47 Drill Pipe 102 64.50.82 0 Drill Pipe 102 64.50.82 Remarks										Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time 16:15 18:15 Density 1155 1150 Funnel Viscosity 63 62 Fluid Loss 0 0 pH 0 0 Location Of Sample Trough Trough Depth 3151.37 3239.57 PVT 56.73 51.4 Circulation Pump # 1 Type SINGLE Liner Size 127 SPM 120 Pressure 37500 Hrs Run 7.00 2 SINGLE 127 120 37500 1.00										Time 16:00 3137.04 92.55 286.5 16:30 3151.59 91.01 286.85 17:00 3166.20 90.53 286.76 17:30 3195.30 89.43 290.01 17:30 3195.30 89.43 290.01 18:15 3224.47 87.28 287.29 SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Enertone D 8.00 1165 1110 1920 Enertone D 8.00 0 0 0 MUD MATERIALS ADDED Product Amount Type Wetting Agent 1 bbl Chemclean Green 1 pall Cal Nitrate 1 sxs Enertone D 86 sxs Lime Hydrated 15 sxs										From 16:00 To 19:00 Elapsed 3:00 Code 2 Details Of Operations In Sequence & Remarks 16:00 19:00 3:00 2 Directional Drill Lateral section of 159mm main hole from 3140m to 3271m MD. Pump Rate - 1.27 m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 37,500 kPa, Torque - 12,500 ft/lbs, Diff Pressure - 9,000 kPa. Sliding parameters: WOB - 18 kdaN, Diff Pressure - 2,800 kPa. 19:00 19:30 0:50 21 Crew hand-over meeting. Discuss hazard id's & daily events. 19:30 19:45 0:25 2 Directional Drill Lateral section of 159mm main hole from 3271m to 3390m MD. Pump Rate - 1.27 m3/min, WOB - 12 kdaN, Rotary - 70 RPM, Pump Pressure - 37,500 kPa, Torque - 12,500 ft/lbs, Diff Pressure - 9,000 kPa. Sliding parameters: WOB - 19 kdaN, Diff Pressure - 2,500 kPa. 19:45 23:00 3:25 20A Accumulated EM Survey & Connection time. 23:00 24:00 1:00 5D Circulate and condition well prior to tripping out of hole for motor failure.									
CUTTING STRUCTURE TO 10 COG 000 LOC 89.75 WOB 89.75 Weight of DC 3390.00 Weight of String 23.00 Weight of BOP 69.00										HOLE CONDITION Hole Drag Up 7 Down 17 Torque At Bottom 12500 Fill On Bottom 0.00										REDUCED PUMP SPEED Pump # 2 Pressure 9100 Strokes/min 60 Depth 3165.80 2 SINGLE 127 120 37500 1.00										SAFETY Safety Topic MEHL Spill Response 85 3085 MACP																			
TOUR 4										SIGNATURE OF DRILLER Jordan Cawsey										START TIME 24:00										END TIME 00:00																			


FRONT PAGE SUMMARY										TOUR 1										TOUR 2										TOUR 3										TOUR 4										TOUR 5										TOUR 6										TOUR 7										TOUR 8										TOUR 9										TOUR 10										TOUR 11										TOUR 12										TOUR 13										TOUR 14										TOUR 15										TOUR 16										TOUR 17										TOUR 18										TOUR 19										TOUR 20										TOUR 21										TOUR 22										TOUR 23										TOUR 24										TOUR 25										TOUR 26										TOUR 27										TOUR 28										TOUR 29										TOUR 30										TOUR 31										TOUR 32										TOUR 33										TOUR 34										TOUR 35										TOUR 36										TOUR 37										TOUR 38										TOUR 39										TOUR 40										TOUR 41										TOUR 42										TOUR 43										TOUR 44										TOUR 45										TOUR 46										TOUR 47										TOUR 48										TOUR 49										TOUR 50										TOUR 51										TOUR 52										TOUR 53										TOUR 54										TOUR 55										TOUR 56										TOUR 57										TOUR 58										TOUR 59										TOUR 60										TOUR 61										TOUR 62										TOUR 63										TOUR 64										TOUR 65										TOUR 66										TOUR 67										TOUR 68										TOUR 69										TOUR 70										TOUR 71										TOUR 72										TOUR 73										TOUR 74										TOUR 75										TOUR 76										TOUR 77										TOUR 78										TOUR 79										TOUR 80										TOUR 81										TOUR 82										TOUR 83										TOUR 84										TOUR 85										TOUR 86										TOUR 87										TOUR 88										TOUR 89										TOUR 90										TOUR 91										TOUR 92										TOUR 93										TOUR 94										TOUR 95										TOUR 96										TOUR 97										TOUR 98										TOUR 99										TOUR 100									
License No 32314 Well Name ARGRES HZ PARKLAND C12-07-081-16 Contractor AR Resources Ltd. Operator's Representative Dean Boehner Signature of Operator's Representative										BEAVER 15AC 20170120 1B Surface Location 12-7-81-16 W6 Contractor's License No 0X47 Signature of Contractor's Rig Manager Shaun Low										Vendor Software Version RMS 2016.6.14.37064 Year 2017 Month 01 Day 20 BC DLS 15AC 104/13-12-081-17W6/00 Well Type HORIZ Spud Date/Time 30-Dec-2016 02:45 Rig Release Date/Time										DAILY CHECKS (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 (one/crow/month) (2) CADC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Vibs Checked										OP RM (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 (one/crow/month) (2) CADC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Vibs Checked										CAADC NOV										Weather Wind Direction SW Wind Strength UP TO 15 KM/H Road Condition FAIR										FUEL @ 08:00 HRS 23491 7100 06:00 -1 PARTLY CLOUDY SW UP TO 15 KM/H FAIR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

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 4 Size 159 IADC Code Reed Manufacturer SK413M-A1G-Z Type E212941 Serial No 9.53 9.53 JMS 9.53 9.53 Depth Out (m) 2111.00 Depth In (m) 660.00 Total Drilled (m) 5.00 Hrs Run Today 7.75 Cumulative Hrs Run 19-Jan-2017 Entry Date 19-Jan-2017 CUTTING STRUCTURE TO: 0.00 MDC: 0.00 LOC: 85.16 BSG: 0.00										No 1 Component 159mm Reed PDC OD 159 ID 124 Length 1.022 1 4.75" motor 124 1 8.90 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 CDS40B-3 SFP x/o 128 57 0.82 1 Slide reamer 127 58 1.38 5 4" CDS40 Drill Pipe 102 64 48.52 1 Slim Jars 126 60 6.18 58 4" CDS40 Drill Pipe 102 64 55.82 1 Agitator 120 58 7.97 95 4" CDS40 Drill Pipe 102 64 52.82 48 4" CDS40 HWDP 101 65 45.52 25 Drill Pipe 102 64 22.59 0 Drill Pipe 102 64 0.00 Kelly Down -0.88 Total 2771.00 Weight of DC 19.00 Weight of String 70.00										Mud Type Water Water 06:45 Other 06:45 Time 05:15 Density 1165 Funnel Viscosity 71 Fluid Loss 73 pH 7.3 Location Of Sample Trough Depth 2614.00 PVT 49 61.78 Circulation Pump # 1 Type SINGLE Liner Size 127 SPM 120 Pressure 33900 Hrs Run 8.00 2 SINGLE 127 1 33900 0.00										Time 02:15 Depth 2408.70 Deviation 91.05 Direction 284.21 Type DIRECTIONAL 02:30 2437.80 90.92 283.16 DIRECTIONAL 03:00 2466.86 92.72 286.06 DIRECTIONAL 04:00 2495.95 90.79 287.11 DIRECTIONAL 04:05 2525.07 90.40 287.46 DIRECTIONAL 04:15 2556.17 90.44 288.08 DIRECTIONAL SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 8.00 1170 1120 1945 0.00 0 0 0 MUD MATERIALS ADDED Product Amount Type										From To Elapsed Code Details Of Operations In Sequence & Remarks Remarks Boiler #2 Fuel @ 05:00 Hrs = 6372 litres Hazard ID: Worker was running across location / stopped him and told him to slow down and watch his footing on the ice.									
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 4 Size 159 IADC Code Reed Manufacturer SK413M-A1G-Z Type E212941 Serial No 9.53 9.53 JMS 9.53 9.53 Depth Out (m) 2111.00 Depth In (m) 1029.00 Total Drilled (m) 3.00 Hrs Run Today 10.75 Cumulative Hrs Run 19-Jan-2017 Entry Date 19-Jan-2017 CUTTING STRUCTURE TO: 0.00 MDC: 0.00 LOC: 95.72 BSG: 0.00										No 1 Component 159mm Reed PDC OD 159 ID 124 Length 1.022 1 4.75" motor 124 1 8.90 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 CDS40B-3 SFP x/o 128 57 0.82 1 Slide reamer 127 58 1.38 5 4" CDS40 Drill Pipe 102 64 48.52 1 Slim Jars 126 60 6.18 58 4" CDS40 Drill Pipe 102 64 55.82 1 Agitator 120 58 7.97 95 4" CDS40 Drill Pipe 102 64 52.82 48 4" CDS40 HWDP 101 65 45.52 38 Drill Pipe 102 64 1106.75 0 Drill Pipe 102 64 0.00 Kelly Down -11.04 Total 3140.00 Weight of DC 23.00 Weight of String 69.00										Mud Type Water Water 15:15 Other 15:15 Time 13:15 Density 1160 Funnel Viscosity 67 Fluid Loss 0 pH 0 Location Of Sample Trough Depth 3034.00 PVT 46.83 57.79 Circulation Pump # 1 Type SINGLE Liner Size 127 SPM 120 Pressure 36000 Hrs Run 8.00 2 SINGLE 127 1 36000 0.00										Time 11:00 Depth 2903.73 Deviation 90.40 Direction 285.88 Type DIRECTIONAL 11:30 2932.91 89.47 285.36 DIRECTIONAL 12:00 2962.09 90.44 285.18 DIRECTIONAL 12:30 2991.26 89.12 284.04 DIRECTIONAL 13:00 3020.42 88.51 283.51 DIRECTIONAL 13:45 3049.58 90.44 285 DIRECTIONAL SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 8.00 1160 1110 1940 0.00 0 0 0 MUD MATERIALS ADDED Product Amount Type										From To Elapsed Code Details Of Operations In Sequence & Remarks Remarks Grasslands Safety Services, Frank Pfefferle completing Rig & Location Inspection. Hazard ID: Skiff of ice on matting by the mix room. / Placed ice melt and notified mud engineers to beware.									
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 4 Size 159 IADC Code Reed Manufacturer SK413M-A1G-Z Type E212941 Serial No 9.53 9.53 JMS 9.53 9.53 Depth Out (m) 2111.00 Depth In (m) 1279.00 Total Drilled (m) 3.50 Hrs Run Today 14.25 Cumulative Hrs Run 19-Jan-2017 Entry Date 19-Jan-2017 CUTTING STRUCTURE TO: 0.00 MDC: 0.00 LOC: 89.75 BSG: 0.00										No 1 Component 159mm Reed PDC OD 159 ID 124 Length 1.022 1 4.75" motor 124 1 8.90 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 CDS40B-3 SFP x/o 128 57 0.82 1 Slide reamer 127 58 1.38 5 4" CDS40 Drill Pipe 102 64 48.52 1 Slim Jars 126 60 6.18 58 4" CDS40 Drill Pipe 102 64 55.82 1 Agitator 120 58 7.97 95 4" CDS40 Drill Pipe 102 64 52.82 48 4" CDS40 HWDP 101 65 45.52 47 Drill Pipe 102 64 1369.05 0 Drill Pipe 102 64 0.00 Kelly Down -23.34 Total 3390.00 Weight of DC 23.00 Weight of String 69.00										Mud Type Water Water 23:45 Other 23:45 Time 19:45 Density 1165 Funnel Viscosity 66 Fluid Loss 66 pH 6.6 Location Of Sample Trough Depth 3291.00 PVT 48.45 42.36 Circulation Pump # 1 Type SINGLE Liner Size 127 SPM 120 Pressure 37500 Hrs Run 7.00 2 SINGLE 127 120 37500 1.00										Time 18:45 Depth 3239.02 Deviation 88.15 Direction 285.27 Type DIRECTIONAL 18:45 3253.62 88.42 285.97 DIRECTIONAL 19:30 3268.12 88.99 284.56 DIRECTIONAL 19:45 3282.74 91.05 283.33 DIRECTIONAL 20:15 3297.65 92.20 285.71 DIRECTIONAL 20:45 3311.91 92.42 287.11 DIRECTIONAL SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 8.00 1165 1110 1920 8.00 0 0 0 MUD MATERIALS ADDED Product Amount Type										From To Elapsed Code Details Of Operations In Sequence & Remarks Remarks Hazard ID: While blowing back the top drive a worker went to hammer off the air hose before he was instructed to do it / I explained to wait until he was instructed so there was no chance that the air valve was still open.									
TOUR 4										SIGNATURE OF DRILLER Jordan Cawsey										START TIME 24:00										END TIME 00:00																			

FRONT PAGE SUMMARY										DAILY CHECKS										OP RM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
License No: 32314 Well Name: ARCRCRES HZ PARKLAND C12-07-081-16 Tour Sheet Serial Number: BEAV15AC 20170121 1B Surface Location: 12-7-81-16 W6 Contractor: Beaver Drilling Ltd. Signature of Operator's Representative: Dean Boehnert Signature of Contractor's Rig Manager: Luke Hardy										Vendor Software Version: RMS 2016.6.14.37064 Year: 2017 Month: 01 Day: 21 Pro: BC Loc Type: DLS Unique Well ID: 104/13-12-081-17W6/00 Rig No: 15AC Well Type: HORIZ Spud Date Time: 30-Dec-2016 Rig Release Date Time: 02:45										(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Spills Posited 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) Rig Site Health & Safety Meeting (once/week/month) (9) CAODC 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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BITS Bit Number: 4 Size: 159 IADC Code: Reed Manufacturer: SK413M-A1G-Z Type: E212941 Serial No: 9.53 9.53 JMS: 9.53 9.53 Depth Out (m): 3390.00 Depth In (m): 2111.00 Total Drilled (m): 1279.00 Hrs Run Today: 0.00 Cumulative Hrs Run: 14.25 Entry Date: 19-Jan-2017										DRILLING ASSEMBLY No: 1 Component: 159mm Reed PDC OD: 159 ID: 102.2 Length: 1.022 1 4.75" motor 1 4.75" Flex monel 1 Gap sub 2 4.75" Flex monel 1 CDS40B-3-SFP x/o 1 Slide reamer 5 4" CDS40 Drill Pipe 1 Slim Jars 58 4" CDS40 Drill Pipe 1 Agitator 95 4" CDS40 Drill Pipe 48 4" CDS40 HWDP 47 Drill Pipe 0 Drill Pipe Kelly Down: -23.34 Total: 3390.00 Weight of DC: 23.00 Weight of String: 69.00										MUD RECORD Mud Type: Water Other: <input checked="" type="checkbox"/> Time: 01:00 03:00 Density: 1165 1165 Funnel Viscosity: 77 80 Fluid Loss: 0 pH: 127 120 Location Of Sample: tank 4 tank 4 Depth: 3390.00 3390.00 PVT: 40.3 40.3 Circulation: Pump # 1 Type SINGLE Liner Size 127 SPM 120 Pressure 28000 Hrs Run 1.00 2 SINGLE 127 1 28000 0.00										DEVIATION SURVEYS Time: 0:00 0:30 0:50 7 Depth: 0:00 0:30 0:50 7 Deviation: 0:00 0:30 0:50 7 Direction: 0:00 0:30 0:50 7 Type: 0:00 0:30 0:50 7 SOLIDS CONTROL Equipment Name: Hours Run: Intake Density: Over Flow Density: Under Flow Density: 0.00 0 0 0 0 0.00 0 0 0 0 MUD MATERIALS ADDED Product: Amount: Type: EnerBar: 72 sxs										TIME LOG From: 0:00 To: 0:30 Elapsed: 0:50 Code: 7 Details Of Operations In Sequence & Remarks Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Serviced hydraulic BOP & functioned lower manual belly cock. 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. Visual inspection of BOP & valves completed by Murray Allan & Dan Meyer. Review JSA. Pump 2.8m3 of 1520kg/m3 weighted slug, pill recovery: 0.87m3. Trip out of hole for directional tools @ 30m/min from 3390m to 41m. Flowchecks @ 3382m, 3247m, 1901m, 41m. Safety meeting & JSA review with Dynamic Directional Drilling prior to handling tools. Handle directional tools. Rack back Agitator, lay down Drilling Jars, rack back Reamer. Pick up 1 wild joint of 4" FH DP & rack back x/o & 2 - NM Flex Monels. Crew hand-over meeting. Discuss hazard id's & daily events.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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<table><tr><th colspan="2">BITS</th><th colspan="2">DRILLING ASSEMBLY</th><th colspan="2">MUD RECORD</th><th colspan="2">DEVIATION SURVEYS</th><th colspan="2">TIME LOG</th><th colspan="2">Details Of Operations In Sequence & Remarks</th></tr><tr><td>Bit Number</td><td>5RR</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>From</td><td>To</td><td>Elapsed</td><td>Code</td><td colspan="12"></td></tr><tr><td>Size</td><td>159</td><td>1</td><td>159mm Reed PDC</td><td>159</td><td>1</td><td>0.22</td><td></td><td></td><td></td><td>0:00</td><td>0:30</td><td>0:50</td><td>7</td><td colspan="12">Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & JMS. Serviced hydraulic BOP & functioned lower manual Kelly cock. 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. 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