

FRONT PAGE SUMMARY										Tour Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS					OP RM					
License No: 32950 Well Name: ARCREZ HZ PARKLAND F11-04-081-16										PREC465 20170307 2A		RMS 2016.8.30.38074		2017		03		07		(1) Daily Walk Around Inspection (2) Disabled Inspection - Weekly (Using Check List) (3) H2S Signs Posted If Required (4) Well License & Stick Diagram Posted (5) Flare Lines Baked (6) BOP Tests Performed (7) Visually Inspected BOPs-Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (one/crew/month) (9) CAADC Rig Safety Inspection Checklist (one/crew/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Major Valve Checked					AL CT AL CT AL CT CT CT					
Contractor: Precision Drilling, div of PDC										Surface Location: 11-4-81-16 W6		Prov: BC		Lic Type: DLS		Unique Well Id: 102/16-34-080-16W6		Rig No: 465		Well Type: HORIZ		ReEntry: <input type="checkbox"/>								
Company's PSE: 17DR0047										Contractor's Job No: 49		Spud Date Time: 07-Mar-2017		Rig Release Date Time: 22:00		Signature of Operator's Representative: DOUG SHEA		Signature of Contractor's Rig Manager: CECIL TROWBRIDGE												



Code	CECIL TROWBRIDGE																									Katy Blasting		Top Fuel	
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other	TOTAL	Rig	Blower	
Tour 1																											2736	2149	
Tour 2	1.75																			0.50	0.75					3.00	05:30	1:24	
Tour 3		1.00			1.00				0.25											1.25	0.50					4.00			
TOTAL	1.75	1.00			1.00				0.25											1.75	1.25					7.00			

TOUR 1 SIGNATURE OF DRILLER: CECIL TROWBRIDGE START TIME: 0:00 END TIME: 8:00

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number: 1RR Size: 279 IADC Code: 1111 Manufacturer: SICOTTE Type: SS516GB Serial No: 12692 Jts: 14.3 14.3 14.3 Depth Out (m): 0.00 Depth In (m): 0.00 Total Drilled (m): 0.00 Hrs Run Today: 0.00 Cumulative Hrs Run: 0.00 Entry Date: 07-Mar-2017										No: 1 Component: 279MM BIT OD: 279 ID: 1 Length: 0.28 No: 1 Component: 8" MUD MOTOR OD: 203 ID: 1 Length: 8.82 No: 1 Component: 8" X/O SUB OD: 203 ID: 1 Length: 0.69 No: 1 Component: 1.5" KNOXWALD SLICK MONEL OD: 167 ID: 7.1 Length: 9.40 No: 1 Component: 6.5" GAP SUB OD: 163 ID: 1 Length: 1.68 No: 1 Component: 1.5" KNOXWALD SLICK MONEL OD: 167 ID: 7.1 Length: 9.40 No: 1 Component: 6.5" HYDMECH JARS OD: 157 ID: 5.8 Length: 5.23 No: 6 Component: DRILL COLLAR OD: 165 ID: 60 Length: 56.71										Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 23:45 Density: 1065 Funnel Viscosity: 32 Fluid Loss: 1.68 pH: 9.00 Location Of Sample: shaker Depth: 90.00 PVT: 60 Circulation: Pump # 1 Type PARALLEL Liner Size 152 SPM 90 Pressure 4600 Hrs Run 3.00 Pump # 2 Type PARALLEL Liner Size 152 SPM 60 Pressure 4600 Hrs Run 2.00										Time: 23:30 Depth: 46.39 Deviation: 1.00 Direction: 66.7 Type: 200 Equipment Name: Centrifuge #1 Hours Run: 2.00 Intake Density: 1065 Over Flow Density: 1055 Under Flow Density: 1640 Equipment Name: Centrifuge #2 Hours Run: 2.00 Intake Density: 1065 Over Flow Density: 1055 Under Flow Density: 1630										From: 20:00 To: 21:15 Elapsed: 1.25 Code: 20D From: 21:15 To: 21:45 Elapsed: 0.50 Code: 21F From: 21:45 To: 22:00 Elapsed: 0.25 Code: 7 From: 22:00 To: 23:00 Elapsed: 1.00 Code: 2 From: 23:00 To: 24:00 Elapsed: 1.00 Code: 5									
CUTTING STRUCTURE										HOLE CONDITION										REDUCED PUMP SPEED										BOILER										SAFETY									
Kelly Down: 0.00 Taper: 92.00 Weight of DC: 10.00 Weight of String: 32.00										Hole Drag: 0 Up: 0 Down: 0 Torque At Bottom: 4000 Fill On Bottom: 0										Pump # Pressure Strokes/min Depth @ @ @ @ @ @ @ @ @ @ @ @										BoilerNo: 1 HoursRun: 3.00 pH: 11 StackTemp: 340 BoilerNo: 2 HoursRun: 3.00 pH: 11 StackTemp: 340										Safety Topic: MEHL MACP									

TOUR 2 SIGNATURE OF DRILLER: ERIC OBRIEN START TIME: 8:00 END TIME: 20:00

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number: 1RR Size: 279 IADC Code: 1111 Manufacturer: SICOTTE Type: SS516GB Serial No: 12692 Jts: 14.3 14.3 14.3 Depth Out (m): 0.00 Depth In (m): 0.00 Total Drilled (m): 0.00 Hrs Run Today: 0.00 Cumulative Hrs Run: 0.00 Entry Date: 07-Mar-2017										No: 1 Component: 279MM BIT OD: 279 ID: 1 Length: 0.28 No: 1 Component: 8" MUD MOTOR OD: 203 ID: 1 Length: 8.82 No: 1 Component: 8" X/O SUB OD: 203 ID: 1 Length: 0.69 No: 1 Component: 1.5" KNOXWALD SLICK MONEL OD: 167 ID: 7.1 Length: 9.40 No: 1 Component: 6.5" GAP SUB OD: 163 ID: 1 Length: 1.68 No: 1 Component: 1.5" KNOXWALD SLICK MONEL OD: 167 ID: 7.1 Length: 9.40 No: 1 Component: 6.5" HYDMECH JARS OD: 157 ID: 5.8 Length: 5.23 No: 6 Component: DRILL COLLAR OD: 165 ID: 60 Length: 56.71										Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 23:45 Density: 1065 Funnel Viscosity: 32 Fluid Loss: 1.68 pH: 9.00 Location Of Sample: shaker Depth: 90.00 PVT: 60 Circulation: Pump # 1 Type PARALLEL Liner Size 152 SPM 90 Pressure 4600 Hrs Run 3.00 Pump # 2 Type PARALLEL Liner Size 152 SPM 60 Pressure 4600 Hrs Run 2.00										Time: 23:30 Depth: 46.39 Deviation: 1.00 Direction: 66.7 Type: 200 Equipment Name: Centrifuge #1 Hours Run: 2.00 Intake Density: 1065 Over Flow Density: 1055 Under Flow Density: 1640 Equipment Name: Centrifuge #2 Hours Run: 2.00 Intake Density: 1065 Over Flow Density: 1055 Under Flow Density: 1630										From: 20:00 To: 21:15 Elapsed: 1.25 Code: 20D From: 21:15 To: 21:45 Elapsed: 0.50 Code: 21F From: 21:45 To: 22:00 Elapsed: 0.25 Code: 7 From: 22:00 To: 23:00 Elapsed: 1.00 Code: 2 From: 23:00 To: 24:00 Elapsed: 1.00 Code: 5									
CUTTING STRUCTURE										HOLE CONDITION										REDUCED PUMP SPEED										BOILER										SAFETY									
Kelly Down: -0.40 Taper: 92.00 Weight of DC: 10.00 Weight of String: 32.00										Hole Drag: 0 Up: 0 Down: 0 Torque At Bottom: 4000 Fill On Bottom: 0										Pump # Pressure Strokes/min Depth @ @ @ @ @ @ @ @ @ @ @ @										BoilerNo: 1 HoursRun: 3.00 pH: 11 StackTemp: 340 BoilerNo: 2 HoursRun: 3.00 pH: 11 StackTemp: 340										Safety Topic: MEHL MACP									

TOUR 3 SIGNATURE OF DRILLER: DAVE LOEWEN START TIME: 20:00 END TIME: 24:00

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number: 1RR Size: 279 IADC Code: 1111 Manufacturer: SICOTTE Type: SS516GB Serial No: 12692 Jts: 14.3 14.3 14.3 Depth Out (m): 0.00 Depth In (m): 92.00 Total Drilled (m): 92.00 Hrs Run Today: 1.00 Cumulative Hrs Run: 1.00 Entry Date: 07-Mar-2017										No: 1 Component: 279MM BIT OD: 279 ID: 1 Length: 0.28 No: 1 Component: 8" MUD MOTOR OD: 203 ID: 1 Length: 8.82 No: 1 Component: 8" X/O SUB OD: 203 ID: 1 Length: 0.69 No: 1 Component: 1.5" KNOXWALD SLICK MONEL OD: 167 ID: 7.1 Length: 9.40 No: 1 Component: 6.5" GAP SUB OD: 163 ID: 1 Length: 1.68 No: 1 Component: 1.5" KNOXWALD SLICK MONEL OD: 167 ID: 7.1 Length: 9.40 No: 1 Component: 6.5" HYDMECH JARS OD: 157 ID: 5.8 Length: 5.23 No: 6 Component: DRILL COLLAR OD: 165 ID: 60 Length: 56.71										Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 23:45 Density: 1065 Funnel Viscosity: 32 Fluid Loss: 1.68 pH: 9.00 Location Of Sample: shaker Depth: 90.00 PVT: 60 Circulation: Pump # 1 Type PARALLEL Liner Size 152 SPM 90 Pressure 4600 Hrs Run 3.00 Pump # 2 Type PARALLEL Liner Size 152 SPM 60 Pressure 4600 Hrs Run 2.00										Time: 23:30 Depth: 46.39 Deviation: 1.00 Direction: 66.7 Type: 200 Equipment Name: Centrifuge #1 Hours Run: 2.00 Intake Density: 1065 Over Flow Density: 1055 Under Flow Density: 1640 Equipment Name: Centrifuge #2 Hours Run: 2.00 Intake Density: 1065 Over Flow Density: 1055 Under Flow Density: 1630										From: 20:00 To: 21:15 Elapsed: 1.25 Code: 20D From: 21:15 To: 21:45 Elapsed: 0.50 Code: 21F From: 21:45 To: 22:00 Elapsed: 0.25 Code: 7 From: 22:00 To: 23:00 Elapsed: 1.00 Code: 2 From: 23:00 To: 24:00 Elapsed: 1.00 Code: 5									
CUTTING STRUCTURE										HOLE CONDITION										REDUCED PUMP SPEED										BOILER										SAFETY									
Kelly Down: -0.40 Taper: 92.00 Weight of DC: 10.00 Weight of String: 32.00										Hole Drag: 0 Up: 0 Down: 0 Torque At Bottom: 4000 Fill On Bottom: 0										Pump # Pressure Strokes/min Depth @ @ @ @ @ @ @ @ @ @ @ @										BoilerNo: 1 HoursRun: 4.00 pH: 11 StackTemp: 340 BoilerNo: 2 HoursRun: 4.00 pH: 11 StackTemp: 340										Safety Topic: MEHL MACP									

TOUR 3 SIGNATURE OF DRILLER: DAVE LOEWEN START TIME: 20:00 END TIME: 24:00

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number PREC465 20170308 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 08	<b>DAILY CHECKS</b>	OP RM
License No 32950	Well Name ARCRES HZ PARKLAND F11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 102/16-34-080-16W6	Well Type HORIZ	(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) H2S Tests Performed (7) Visually Inspected BOPs-Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (once/week/month) (9) CADCDC Rig Safety Inspection Checklist (once/week/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Major Vibs Checked	AL CT AL CT AL CT AL CT AL CT AL CT AL CT AL CT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Company Job No 49	Spool Date Time	Rig Release Date Time	Signature of Operator's Representative ALLAN LUNGLAL	Signature of Contractor's Rig Manager CECIL TROWBRIDGE		



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	Other
Hour 1		2.50				3.25	1.75																			8.00	
Hour 2		1.50				2.25	1.00								4.50											11.00	
Hour 3		1.50	2.50			5.50	2.75								4.50											19.00	

Kelly Blocking	Top Fuel
	4255
<b>FUEL @ 08:00 HRS</b>	
Qty	Value
23581	2139
Time	Temp
05:30	123
Current Count	
Wind Direction	Wind Strength
Road Condition	

TOUR 1 SIGNATURE OF DRILLER **DAVE LOEWEN** START TIME 0:00 END TIME 8:00

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: 1RR Size: 279 IADC Code: 279 Manufacturer: SICOTTE Type: SS516GB Serial No: 12692 JMS: 14.3 14.3 14.3 Depth Out (m): 14.3 14.3 14.3 Depth In (m): 0.00 Total Drilled (m): 463.00 Hrs Run Today: 2.50 Cumulative Hrs Run: 3.50 Entry Date: 07-Mar-2017	1 279MM BIT 279 1 0.28 1 8" MUD MOTOR 203 1 8.82 1 8" X/O SUB 203 1 0.69 1 6.5" GAP SUB 163 1 1.68 1 6.5" X/O SUB 163 1 1.68 1 6.5" HYDMECH JARS 157 58 5.22 6 DRILL COLLAR 165 60 56.72 1 6.5" X/O SUB 135 58 0.80 40 4.5" HWDP 114 73 32.82	Mud Type: Water Mud Weight: 1100 Funnel Viscosity: 33 Fluid Loss: 0.0 pH: 8.5 Location of Sample: shaker Depth: 440.00 PVT: 36 Circulation: Pump # 1 Type 152 105 18000 8.00 2 152 105 18000 8.00	Time: 00:00 75.70 1.00 76.1 00:45 103.61 0.90 68.9 01:00 131.70 1.10 71.1 01:30 159.62 1.50 60.9 01:45 187.50 1.50 61.9 02:15 215.51 1.90 55.3	From To Elapsed Code 0:00 2:30 2:50 2 DRILL 279MM SURFACE HOLE FROM 92M - 463M 2:30 5:00 2:50 5 ACCUMULATED TIME WORKING PIPE AND CONNECTIONS 5:00 5:30 0:50 5 CIRCULATE HOLE CLEAN AND DISPLACE WELL TO HIGH VIS MUD. 5:30 5:45 0:25 21 SAFETY MEETING HELD PRIOR TO WIPER TRIP 5:45 6:45 1:00 6B WIPER TRIP OUT OF HOLE TO DRILL COLLARS 6:45 7:30 0:75 6A TRIP IN HOLE WASH FROM 442M 7:30 7:45 0:25 5A BUILD VOLUME 7:45 8:00 0:25 21 CREW CHANGE HANDOVER SAFETY MEETING WITH RIG MANAGER, ARC REPRESENTATIVES & RIG CREWS

TOUR 2 SIGNATURE OF DRILLER **DAVE LOEWEN** START TIME 8:00 END TIME 20:00

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: 1RR Size: 279 IADC Code: 279 Manufacturer: SICOTTE Type: SS516GB Serial No: 12692 JMS: 14.3 14.3 14.3 Depth Out (m): 14.3 14.3 14.3 Depth In (m): 0.00 Total Drilled (m): 463.00 Hrs Run Today: 0.00 Cumulative Hrs Run: 3.50 Entry Date: 07-Mar-2017	1 279MM BIT 279 1 0.28 1 8" MUD MOTOR 203 1 8.82 1 8" X/O SUB 203 1 0.69 1 6.5" GAP SUB 163 1 1.68 1 6.5" X/O SUB 163 1 1.68 1 6.5" HYDMECH JARS 157 58 5.22 6 DRILL COLLAR 165 60 56.72 1 6.5" X/O SUB 135 58 0.80 40 4.5" HWDP 114 73 32.82	Mud Type: Water Mud Weight: 1060 Funnel Viscosity: 85 Fluid Loss: 0.0 pH: 8.5 Location of Sample: TANK 2 Depth: 466.00 PVT: 24 Circulation: Pump # 1 Type 152 70 13000 2.00 2 152 70 13000 2.00	Time: 8:00 9:30 1:50 5 9:30 9:45 0:25 21 9:45 10:45 1:00 6B 10:45 11:00 0:25 21 11:00 11:45 0:75 20D 11:45 12:00 0:25 12A 12:00 12:15 0:25 21 12:15 14:30 2:25 12B	8:00 9:30 1:50 5 CONDITION MUD & CIRCULATE, BUILD VOLUME AND VIS UP TO 70 9:30 9:45 0:25 21 SAFETY MEETING PRIOR TO TRIPPING OUT OF HOLE, REVIEW CTA 2-5 9:45 10:45 1:00 6B TRIP OUT OF HOLE TO RUN CASING 10:45 11:00 0:25 21 SAFETY MEETING WITH DIRECTIONAL, REVIEW CTA 2-1 11:00 11:45 0:75 20D RACK BACK DIRECTIONAL TOOLS, LAY DOWN GAP SUB AND JARS 11:45 12:00 0:25 12A CLEAN OFF RIG FLOOR, RIG UP TO RUN CASING 12:00 12:15 0:25 21 SAFETY MEETING WITH TONGHAND 12:15 14:30 2:25 12B Run 33 js of 219.1mm, 41.67kg/m, J-55, LT&C Everaz casing total 463.50m landed at 463m 14:30 15:15 0:75 5 CIRCULATE CASING 15:15 15:30 0:25 21 SAFETY MEETING WITH CEMENTERS 15:30 17:15 1:75 12C Pumped 3m 1/2 H2O ahead, 24T (22.0m 1/2) TSC 1700KG 1% CACL2 2% AFA-6 2% LCM-2. Displaced with 14.60m 1/2 Fresh H2O. Bump Plug 3500 Kpa over FCP, Floats Held 100L flow back, 7m 1/2 cement returns to surface, no fall back annulus. Plug down @ 16:51hrs 3/08/2017. Annulus static. Pressure tested casing with cementers 7,400kpa high, 1,000kpa low each for 10 minutes. 17:15 17:30 0:25 12 RIG OUT CEMENTERS 17:30 19:00 1:50 1A PREP RIG TO WALK, LAY DOWN LANDING JOINT, LAY OVER V-DOOR, PULL TRASH PUMPS AND HOSES, WELL PAUSED @ 19:00HRS MARCH 8, 2017

TOUR 3 SIGNATURE OF DRILLER **CECIL TROWBRIDGE** START TIME 20:00 END TIME 24:00

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: Size: IADC Code: Manufacturer: Type: Serial No: JMS: Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:	No Component OD ID Length 1 279MM BIT 279 1 0.28 1 8" MUD MOTOR 203 1 8.82 1 8" X/O SUB 203 1 0.69 1 6.5" GAP SUB 163 1 1.68 1 6.5" X/O SUB 163 1 1.68 1 6.5" HYDMECH JARS 157 58 5.22 6 DRILL COLLAR 165 60 56.72 1 6.5" X/O SUB 135 58 0.80 40 4.5" HWDP 114 73 32.82	Mud Type: Water Mud Weight: Funnel Viscosity: Fluid Loss: pH: Location of Sample: Depth: PVT: Circulation: Pump # Type Liner Size SPM Pressure Hs Run	Time: Depth: Deviation: Direction: Type:	From To Elapsed Code Details of Operations In Sequence & Remarks

<b>FRONT PAGE SUMMARY</b>										Tour Sheet Serial Number <b>PREC465 20170308 1A</b>		Vendor Software Version <b>RMS 2016.8.30.38074</b>		Year <b>2017</b>	Month <b>03</b>	Day <b>08</b>	<b>DAILY CHECKS</b>		<b>OP RM</b>	
License No <b>32950</b>	Well Name <b>ARCRES HZ PARKLAND F11-04-081-16</b>			Contractor <b>Precision Drilling, div of PDC</b>		Surface Location <b>11-4-81-16 W6</b>		Prov <b>BC</b>	Loc Type <b>DLS</b>	Unique Well Id <b>102/16-34-080-16W6</b>	Rig No <b>465</b>	Well Type <b>HORIZ</b>	<input type="checkbox"/> (1) Daily Walk Around Inspection <input type="checkbox"/> (2) Detailed Inspection - Weekly (Using Check List) <input type="checkbox"/> (3) H2S Signs Posted if Required <input type="checkbox"/> (4) Well Licence & Stick Diagram Posted <input type="checkbox"/> (5) Flare Lines Staked <input type="checkbox"/> (6) BOP Tests Performed <input type="checkbox"/> (7) Visually Inspected BOPs-Flare Lines & Degasser Lines <input type="checkbox"/> (8) BOP Tests Performed <input type="checkbox"/> (9) Rig Site Health & Safety Meeting (on/crow/month) <input type="checkbox"/> (10) CAADC Rig Safety Inspection Checklist (on/crow/month) <input type="checkbox"/> (11) Mast Inspection before Raising or Lowering <input type="checkbox"/> (12) Crown Saver Checked <input type="checkbox"/> (13) Motor Vibs Checked		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Company Name <b>ARC Resources Ltd.</b>		Contractor's Job No <b>49</b>		Signature of Contractor's Rig Manager <b>CECIL TROWBRIDGE</b>		Signature of Operator's Representative <b>ALLAN LUNGA</b>		Rig Release Date/Time		Rig Release Date/Time		(1) Rig Site Health & Safety Meeting (on/crow/month) (2) CAADC Rig Safety Inspection Checklist (on/crow/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked		(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) BOP Tests Performed (9) Rig Site Health & Safety Meeting (on/crow/month) (10) CAADC Rig Safety Inspection Checklist (on/crow/month) (11) Mast Inspection before Raising or Lowering (12) Crown Saver Checked (13) Motor Vibs Checked		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



Code	Hours																									TOTAL	FUEL @ 08:00 HRS
	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drilling Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other		
Tour 1		2.50			3.25	1.75																				8.00	
Tour 2		1.50			2.25	1.00						4.50														11.00	
Tour 3		1.50	2.50		5.50	2.75						4.50														19.00	
TOTAL																											

TOUR **1** SIGNATURE OF DRILLER **DAVE LOEWEN** START TIME **0:00** END TIME **8:00**

<b>BITS</b>		<b>DRILLING ASSEMBLY</b>				<b>MUD RECORD</b>				<b>DEVIATION SURVEYS</b>				<b>TIME LOG</b>				
Bit Number <b>1RR</b>	Size <b>279</b>	No <b>1</b>	Component <b>279M BIT</b>	OD <b>279</b>	ID <b>1.028</b>	Mud Type <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Other	Time <b>02:30</b>	Depth <b>243.49</b>	Deviation <b>1.60</b>	Direction <b>32.2</b>	From <b>02:30</b>	To <b>03:00</b>	Elapsed <b>271.41</b>	Code <b>0.90</b>	Details Of Operations In Sequence & Remarks			
IADC Code	Manufacturer <b>SICOTTE</b>	Type <b>SS516GB</b>	Serial No <b>12692</b>	JMS <b>14.3 14.3 14.3</b>	Depth Out (m) <b>14.3 14.3 14.3</b>	Circulation	Density <b>03:00 271.41</b>	Funnel Viscosity <b>03:15 299.51</b>	Fluid Loss <b>03:45 327.37</b>	pH <b>04:00 355.34</b>	Location Of Sample <b>04:15 383.37</b>	Equipment Name	Hours Run	Intake Density				
Depth In (m) <b>0.00</b>	Total Drilled (m) <b>463.00</b>	Hrs Run Today <b>2.50</b>	Cumulative Hrs Run <b>3.50</b>	Entry Date <b>07-Mar-2017</b>	Kelly Down <b>-3.09</b>	Remarks	BoilerNo	HoursRun	pH	StackTemp	Remarks FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS & LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS & LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS							
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	SAFETY															
TOUR <b>2</b>	SIGNATURE OF DRILLER <b>DAVE LOEWEN</b>				START TIME <b>8:00</b> END TIME <b>20:00</b>													

<b>BITS</b>		<b>DRILLING ASSEMBLY</b>				<b>MUD RECORD</b>				<b>DEVIATION SURVEYS</b>				<b>TIME LOG</b>				
Bit Number <b>1RR</b>	Size <b>279</b>	No <b>1</b>	Component <b>279M BIT</b>	OD <b>279</b>	ID <b>1.028</b>	Mud Type <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Other	Time <b>02:30</b>	Depth <b>243.49</b>	Deviation <b>1.60</b>	Direction <b>32.2</b>	From <b>02:30</b>	To <b>03:00</b>	Elapsed <b>271.41</b>	Code <b>0.90</b>	Details Of Operations In Sequence & Remarks			
IADC Code	Manufacturer <b>SICOTTE</b>	Type <b>SS516GB</b>	Serial No <b>12692</b>	JMS <b>14.3 14.3 14.3</b>	Depth Out (m) <b>14.3 14.3 14.3</b>	Circulation	Density <b>03:00 271.41</b>	Funnel Viscosity <b>03:15 299.51</b>	Fluid Loss <b>03:45 327.37</b>	pH <b>04:00 355.34</b>	Location Of Sample <b>04:15 383.37</b>	Equipment Name	Hours Run	Intake Density				
Depth In (m) <b>0.00</b>	Total Drilled (m) <b>463.00</b>	Hrs Run Today <b>0.00</b>	Cumulative Hrs Run <b>3.50</b>	Entry Date <b>07-Mar-2017</b>	Kelly Down <b>-3.09</b>	Remarks	BoilerNo	HoursRun	pH	StackTemp	Remarks FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS & LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS & LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS CASING ELEVATOR CERT. SN# 00319, OCTOBER 5TH, 2016, 8 5/8" 150TON							
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	SAFETY															
TOUR <b>3</b>	SIGNATURE OF DRILLER <b>CECIL TROWBRIDGE</b>				START TIME <b>20:00</b> END TIME <b>24:00</b>													

<b>BITS</b>		<b>DRILLING ASSEMBLY</b>				<b>MUD RECORD</b>				<b>DEVIATION SURVEYS</b>				<b>TIME LOG</b>				
Bit Number	Size	No	Component	OD	ID	Mud Type	Time	Depth	Deviation	Direction	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks			
IADC Code	Manufacturer	Type	Serial No	JMS	Depth Out (m)	Circulation	Density	Funnel Viscosity	Fluid Loss	pH	Location Of Sample	Equipment Name	Hours Run	Intake Density				
Depth In (m)	Total Drilled (m)	Hrs Run Today	Cumulative Hrs Run	Entry Date	Kelly Down	Remarks	BoilerNo	HoursRun	pH	StackTemp	Remarks							
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	SAFETY															

<b>FRONT PAGE SUMMARY</b>										Tour Sheet Serial Number <b>PREC465 20170308 1A</b>		Vendor Software Version <b>RMS 2016.8.30.38074</b>		Year <b>2017</b>	Month <b>03</b>	Day <b>08</b>	<b>DAILY CHECKS</b>		<b>OP RM</b>	
License No <b>32950</b>	Well Name <b>ARCRES HZ PARKLAND F11-04-081-16</b>				Surface Location <b>11-4-81-16 W6</b>		Prov <b>BC</b>	Loc Type <b>DLS</b>	Unique Well Id <b>102/16-34-080-16W6</b>	(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) H2S Signs Posted if Required (9) H2S Signs Posted if Required (10) H2S Signs Posted if Required (11) H2S Signs Posted if Required (12) H2S Signs Posted if Required (13) H2S Signs Posted if Required (14) H2S Signs Posted if Required (15) H2S Signs Posted if Required (16) H2S Signs Posted if Required (17) H2S Signs Posted if Required (18) H2S Signs Posted if Required (19) H2S Signs Posted if Required (20) H2S Signs Posted if Required (21) H2S Signs Posted if Required (22) H2S Signs Posted if Required (23) H2S Signs Posted if Required (24) H2S Signs Posted if Required (25) H2S Signs Posted if Required		<input type="checkbox"/> AL <input type="checkbox"/> CL <input type="checkbox"/> ST								
Company Name <b>ARC Resources Ltd.</b>		Contractor <b>Precision Drilling, div of PDC</b>		Contractor Job No <b>465</b>		Well Type <b>HORIZ</b>		ReEntry <input type="checkbox"/>		Spud Date Time		Rig Release Date Time		(1) Rig Site Health & Safety Meeting (on/ocrew/month) (2) CAADC Rig Safety Inspection Checklist (on/ocrew/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked						
Operator <b>17DR0047</b>		Signature of Operator's Representative <b>ALLAN LUNGA</b>		Signature of Contractor's Rig Manager <b>CECIL TROWBRIDGE</b>		Signature of Contractor's Rig Manager <b>CECIL TROWBRIDGE</b>		Signature of Contractor's Rig Manager <b>CECIL TROWBRIDGE</b>		Signature of Contractor's Rig Manager <b>CECIL TROWBRIDGE</b>		Signature of Contractor's Rig Manager <b>CECIL TROWBRIDGE</b>		Signature of Contractor's Rig Manager <b>CECIL TROWBRIDGE</b>						



Code	TOUR 1 SIGNATURE OF DRILLER <b>DAVE LOEWEN</b>																									TOTAL	FUEL @ 08:00 HRS	WEATHER
	Rig MP	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other			
Tour 1																										8.00	23581	2139
Tour 2																										11.00	05:30	2:23
Tour 3																										19.00		
TOTAL																										19.00		

TOUR <b>1</b>	SIGNATURE OF DRILLER <b>DAVE LOEWEN</b>	START TIME <b>0:00</b>	END TIME <b>8:00</b>
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<b>BITS</b> Bit Number: <b>1RR</b> Size: <b>279</b> IADC Code: <b>SICOTTE</b> Manufacturer: <b>SS516GB</b> Type: <b>12692</b> Serial No: <b>14.3 14.3 14.3</b> JMS: <b>14.3 14.3 14.3</b> Depth Out (m): <b>0.00</b> Total Drilled (m): <b>463.00</b> Hrs Run Today: <b>2.50</b> Cumulative Hrs Run: <b>3.50</b> Entry Date: <b>07-Mar-2017</b>	<b>DRILLING ASSEMBLY</b> No. Component OD ID Length <b>1 279MM BIT 279 1 0.28</b> <b>1 8" MUD MOTOR 203 1 8.82</b> <b>1 8" X/O SUB 203 1 0.69</b> <b>1 6.5" GAP SUB 163 1 1.68</b> <b>1 6.5" HYDMECH JARS 157 58 5.22</b> <b>6 DRILL COLLAR 165 60 56.72</b> <b>1 6.5" X/O SUB 135 58 0.80</b> <b>40 4.5" HWDP 114 73 327.8</b>	<b>MUD RECORD</b> Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Circulation: <input type="checkbox"/> Pump # Type Liner Size SPM Pressure Hrs Run <b>1 152 105 18000 8.00</b> <b>2 152 105 18000 8.00</b>	<b>DEVIATION SURVEYS</b> Time Depth Deviation Direction Type <b>04:30 411.29 0.30 19.9</b>	<b>TIME LOG</b> From To Elapsed Code Details of Operations in Sequence & Remarks																				
<b>CUTTING STRUCTURE</b> TO: <b>1</b> Gage: <b>0</b> MDC: <b>CT</b> CDC: <b>NO</b> LDC: <b>H</b> TDC: <b>TD</b> BRG: <b>K</b> TRR: <b>132.29</b>					<b>HOLE CONDITION</b> Hole Drag Up: <b>0</b> Down: <b>0</b> Torque At Bottom: <b>7500</b> Fill On Bottom:					<b>REDUCED PUMP SPEED</b> Pump # Pressure Strokes/min Depth <b>1 152 105 18000 8.00</b> <b>2 152 105 18000 8.00</b>					<b>SOILS CONTROL</b> Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density <b>Centrifuge #1 5.00 1100 1090 1640</b> <b>Centrifuge #2 5.00 1100 1090 1630</b>					<b>MUD MATERIALS ADDED</b> Product Amount Type				
<b>REMARKS</b> FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS & LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS & LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS					<b>BOILER</b> BoilerNo HoursRun pH StackTemp					<b>SAFETY</b> Safety Topic MEHL MACP														

TOUR <b>2</b>	SIGNATURE OF DRILLER <b>DAVE LOEWEN</b>	START TIME <b>8:00</b>	END TIME <b>20:00</b>
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<b>BITS</b> Bit Number: <b>1RR</b> Size: <b>279</b> IADC Code: <b>SICOTTE</b> Manufacturer: <b>SS516GB</b> Type: <b>12692</b> Serial No: <b>14.3 14.3 14.3</b> JMS: <b>14.3 14.3 14.3</b> Depth Out (m): <b>0.00</b> Total Drilled (m): <b>463.00</b> Hrs Run Today: <b>0.00</b> Cumulative Hrs Run: <b>3.50</b> Entry Date: <b>07-Mar-2017</b>	<b>DRILLING ASSEMBLY</b> No. Component OD ID Length <b>1 279MM BIT 279 1 0.28</b> <b>1 8" MUD MOTOR 203 1 8.82</b> <b>1 8" X/O SUB 203 1 0.69</b> <b>1 6.5" GAP SUB 163 1 1.68</b> <b>1 6.5" HYDMECH JARS 157 58 5.22</b> <b>6 DRILL COLLAR 165 60 56.72</b> <b>1 6.5" X/O SUB 135 58 0.80</b> <b>40 4.5" HWDP 114 73 327.8</b>	<b>MUD RECORD</b> Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Circulation: <input type="checkbox"/> Pump # Type Liner Size SPM Pressure Hrs Run <b>1 PARALLEL 152 70 13000 2.00</b> <b>2 PARALLEL 152 70 13000 2.00</b>	<b>DEVIATION SURVEYS</b> Time Depth Deviation Direction Type	<b>TIME LOG</b> From To Elapsed Code Details of Operations in Sequence & Remarks																				
<b>CUTTING STRUCTURE</b> TO: <b>1</b> Gage: <b>0</b> MDC: <b>CT</b> CDC: <b>NO</b> LDC: <b>H</b> TDC: <b>TD</b> BRG: <b>K</b> TRR: <b>132.29</b>					<b>HOLE CONDITION</b> Hole Drag Up: <b>0</b> Down: <b>0</b> Torque At Bottom: <b>7500</b> Fill On Bottom:					<b>REDUCED PUMP SPEED</b> Pump # Pressure Strokes/min Depth <b>1 PARALLEL 152 70 13000 2.00</b> <b>2 PARALLEL 152 70 13000 2.00</b>					<b>SOILS CONTROL</b> Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density					<b>MUD MATERIALS ADDED</b> Product Amount Type				
<b>REMARKS</b> FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS & LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS & LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS CASING ELEVATOR CERT. SN# 00319, OCTOBER 5TH, 2016, 8 5/8" 150TON					<b>BOILER</b> BoilerNo HoursRun pH StackTemp					<b>SAFETY</b> Safety Topic MEHL MACP														

TOUR <b>3</b>	SIGNATURE OF DRILLER <b>CECIL TROWBRIDGE</b>	START TIME <b>20:00</b>	END TIME <b>24:00</b>
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<b>BITS</b> Bit Number: Size: IADC Code: Manufacturer: Type: Serial No: JMS: Depth Out (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:	<b>DRILLING ASSEMBLY</b> No. Component OD ID Length 1 279MM BIT 279 1 0.28 1 8" MUD MOTOR 203 1 8.82 1 8" X/O SUB 203 1 0.69 1 6.5" GAP SUB 163 1 1.68 1 6.5" HYDMECH JARS 157 58 5.22 6 DRILL COLLAR 165 60 56.72 1 6.5" X/O SUB 135 58 0.80 40 4.5" HWDP 114 73 327.8	<b>MUD RECORD</b> Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Circulation: <input type="checkbox"/> Pump # Type Liner Size SPM Pressure Hrs Run	<b>DEVIATION SURVEYS</b> Time Depth Deviation Direction Type	<b>TIME LOG</b> From To Elapsed Code Details of Operations in Sequence & Remarks																				
<b>CUTTING STRUCTURE</b> TO: Gage: MDC: CDC: LDC: TDC: BRG: TRR:					<b>HOLE CONDITION</b> Hole Drag Up: Down: Torque At Bottom: Fill On Bottom:					<b>REDUCED PUMP SPEED</b> Pump # Pressure Strokes/min Depth					<b>SOILS CONTROL</b> Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density					<b>MUD MATERIALS ADDED</b> Product Amount Type				
<b>REMARKS</b>					<b>BOILER</b> BoilerNo HoursRun pH StackTemp					<b>SAFETY</b> Safety Topic MEHL MACP														

FRONT PAGE SUMMARY		Tour Serial Number <b>PREC465 20170318 2B</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>03</b>	Day <b>18</b>	<b>DAILY CHECKS</b>	<b>OP RM</b>
License No <b>32950</b>	Well Name <b>ARCRES HZ PARKLAND F11-04-081-16</b>	Surface Location <b>11-4-81-16 W6</b>	Prov <b>BC</b>	Lic Type <b>DLS</b>	Unique Well Id <b>102/16-34-080-16W6</b>	(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 Baked (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (8) BOP Tests Performed (9) Rig Site Health & Safety Meeting (one/one/month) (10) CAODC Rig Safety Inspection Checklist (one/one/month) (11) Mast Inspection before Raising or Lowering (12) Crown Saver Checked (13) Major Valve Checked		DG RT DS RT DS RT DS RT DS RT DS RT DS RT DS RT DS RT
Company <b>ARC Resources Ltd.</b>		Contractor <b>Precision Drilling, div of PDC</b>		Rig No <b>465</b>	Well Type <b>HORIZ</b>	Re-Entry <input type="checkbox"/>		DS RT DS RT DS RT DS RT DS RT DS RT DS RT DS RT
Contractor's P.E. <b>17DR0047</b>		Contractor's Job No <b>51</b>		Spud Date Time <b>18-Mar-2017</b>	Rig Release Time <b>11:30</b>	(1) Big Site Health & Safety Meeting (one/one/month) (2) CAODC Rig Safety Inspection Checklist (one/one/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Major Valve Checked		DS RT DS RT DS RT DS RT DS RT DS RT DS RT DS RT
Signature of Operator's Representative <b>DOUG SHEA</b>		Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>						DS RT DS RT DS RT DS RT DS RT DS RT DS RT DS RT



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	Rig	Driver	Fuel @ 08:00 HRS	Weather
	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Dring Line	Dev Survey	Wireline Logs	Run Cag & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other					
Tour 1																														
Tour 2	1.00					0.50									2.00	3.25					2.00	1.25				10.00				
Tour 3		1.50				1.00	0.25			0.75												0.50				4.00				
TOTAL	1.00	1.50				1.50	0.25			0.75					2.00	3.25					2.00	1.75				14.00				

TOUR	<b>1</b>	SIGNATURE OF DRILLER	<b>ROD TOMPKINS</b>	START TIME	<b>0:00</b>	END TIME	<b>8:00</b>
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BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG																																																																																								
					From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks																																																																																			
Bit Number: _____ Size: _____ IADC Code: _____ Manufacturer: _____ Type: _____ Serial No: _____ Jts: _____ Depth Out (m): _____ Depth In (m): _____ Total Drilled (m): _____ Hrs Run Today: _____ Cumulative Hrs Run: _____ Entry Date: _____	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>No</th><th>Component</th><th>OD</th><th>ID</th><th>Length</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	No	Component	OD	ID	Length																					Mud Type: <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Other Time: _____ Density: _____ Funnel Viscosity: _____ Fluid Loss: _____ pH: _____ Location of Sample: _____ Depth: _____ PVT: _____ Circulation: <table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>Pump #</th><th>Type</th><th>Line Size</th><th>SPM</th><th>Pressure</th><th>Hrs Run</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	Pump #	Type	Line Size	SPM	Pressure	Hrs Run													<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>Equipment Name</th><th>Hours Run</th><th>Intake Density</th><th>Over Flow Density</th><th>Under Flow Density</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density											<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>Product</th><th>Amount</th><th>Type</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	Product	Amount	Type							<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>From</th><th>To</th><th>Elapsed</th><th>Code</th><th>Details Of Operations In Sequence &amp; Remarks</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks															
No	Component	OD	ID	Length																																																																																								
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Product	Amount	Type																																																																																										
From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks																																																																																								

TOUR	<b>2</b>	SIGNATURE OF DRILLER	<b>RYAN NEWTON</b>	START TIME	<b>8:00</b>	END TIME	<b>20:00</b>
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<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number <b>PREC465 20170319 1B</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>03</b>	Day <b>19</b>	<b>DAILY CHECKS</b>	<b>OP RM</b>
License No <b>32950</b>	Well Name <b>ARCRES HZ PARKLAND F11-04-081-16</b>	Surface Location <b>11-4-81-16 W6</b>	Prov <b>BC</b>	Loc Type <b>DLS</b>	Unique Well Id <b>102/16-34-080-16W6</b>	Re-Entry <input type="checkbox"/>	(1) Daily Walk Around Inspection (2) Detailed Inspection - Weighly (Using Check List) (3) H2S Signs Postcard if Required (4) Well License & Stick Diagram Posted (5) Flare Lines Staked (6) BOP Tests Performed (7) Visually Inspected BOPs-Flare Lines & Degasser Lines	AL RT AL RT AL RT AL RT
Company <b>ARC Resources Ltd.</b>	Contractor <b>Precision Drilling, div of PDC</b>	Contractor's Job No. <b>51</b>	Rig No <b>465</b>	Well Type <b>HORIZ</b>	Spoil Date Time <b>18-Mar-2017</b>	Rig Release Date Time <b>11:30</b>	(1) Rig Site Health & Safety Meeting (once/week/month) (2) CAODC Rig Safety Inspection Checklist (once/week/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Major Valve Checked	RT RT RT RT
Signature of Operator's Representative <b>DOUG SHEA</b>	Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>							CAODC NFW

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		5.50			1.75		0.25																			8.00	Rig 32800 Tower 4199
Tour 2		9.25			2.25		0.25																			12.00	Time 06:00 Temp -17
Tour 3		3.50			0.25		0.25																			4.00	OVERCAST Wind Direction E Wind Strength UP TO 19 KM/H
TOTAL		18.25			4.25		0.75																			24.00	WEATHER FAIR

TOUR **1** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **0:00** END TIME **8:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>2</b> Size: <b>200</b> IADC Code: <b>1</b> Manufacturer: <b>BAKER HUGHES</b> Type: <b>T507F</b> Serial No: <b>7162425</b> Jts: <b>7.1   7.1   7.9   7.9</b> Depth Out (m): <b>463.00</b> Total Drilled (m): <b>485.00</b> Hrs Run Today: <b>5.50</b> Cumulative Hrs Run: <b>5.75</b> Entry Date: <b>18-Mar-2017</b>	No: <b>1</b> Component: <b>PDC BIT</b> OD: <b>200</b> ID: <b>1</b> Length: <b>0.25</b> <b>1</b> <b>6.5" MOTOR</b> 167 1 8.22 <b>1</b> <b>6.5" NON MAG PONY</b> 162 72 1.55 <b>1</b> <b>6.5" NON MAG FLEX MONEL</b> 163 72 9.46 <b>1</b> <b>6.5" GAP SUB</b> 163 1 1.66 <b>2</b> <b>6.5" NON MAG SLECK MONEL</b> 167 71 18.84 <b>1</b> <b>6.5" HYDMECH JARS</b> 157 58 5.10 <b>6</b> <b>DRILL COLLAR</b> 165 60 56.72 <b>1</b> <b>6.5" X/O SUB</b> 135 58 0.80 <b>48</b> <b>4.5" HWDP</b> 114 73 46.83	Mud Type: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Oil Time: <b>08:15</b> to <b>16:30</b> Density: <b>1135</b> <b>1160</b> Funnel Viscosity: <b>30</b> <b>30</b> Fluid Loss: <b>10</b> pH: <b>10</b> <b>10.5</b> Location Of Sample: <b>SHAKERS</b> <b>SHAKERS</b> Depth: <b>958.00</b> <b>1465.00</b> PVT: <b>93</b> <b>60</b> Circulation Pump #   Type   Liner Size   SPM   Pressure   Hrs Run <b>1</b> PARALLEL <b>127</b> <b>95</b> <b>22400</b> <b>7.50</b> <b>2</b> PARALLEL <b>127</b> <b>95</b> <b>22400</b> <b>7.50</b>	Time   Depth   Deviation   Direction   Type <b>08:15</b> <b>942.83</b> <b>1.30</b> <b>93.7</b> <b>08:45</b> <b>972.03</b> <b>0.80</b> <b>83.2</b> <b>09:00</b> <b>1001.33</b> <b>0.20</b> <b>345.2</b> <b>09:30</b> <b>1030.51</b> <b>0.10</b> <b>287.6</b> <b>10:00</b> <b>1059.74</b> <b>0.20</b> <b>269.3</b> <b>10:30</b> <b>1088.92</b> <b>0.20</b> <b>320.6</b>	From   To   Elapsed   Code <b>0:00</b> <b>0:15</b> <b>0:25</b> <b>Z1A</b> <b>0:15</b> <b>4:00</b> <b>3:75</b> <b>2</b> <b>4:00</b> <b>5:30</b> <b>1:50</b> <b>5</b> <b>5:30</b> <b>5:45</b> <b>0:25</b> <b>7</b> <b>5:45</b> <b>7:30</b> <b>1:75</b> <b>2</b> <b>7:30</b> <b>7:45</b> <b>0:25</b> <b>5</b> <b>7:45</b> <b>8:00</b> <b>0:25</b> <b>21</b>
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>MUD MATERIALS ADDED</b>	<b>DETAILS OF OPERATIONS IN SEQUENCE &amp; REMARKS</b>
Kelly Down: <b>-9.33</b> Total: <b>948.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>58.00</b>	Hole Drag Up: <b>2</b> Down: <b>2</b> Torque At Bottom: <b>6700</b> Fill On Bottom	Pump #   Pressure   Strokes/min   Depth <b>1</b> <b>4985</b> @ <b>95</b> @ <b>578.00</b> <b>2</b> <b>4970</b> @ <b>95</b> @ <b>578.00</b> <b>1</b> <b>5230</b> @ <b>95</b> @ <b>725.00</b>	SULPHAMIC ACID 10 SX ENERHIB 1 BBL ENERSCAV 1 BBL LIME 1 SX ENERCLEAR 1802 2 SX DEFOAMER 1 PAUL	<b>0:00</b> <b>0:15</b> <b>0:25</b> <b>Z1A</b> SOUR BOP! MAN DOWN DRILL HELD WITH RIG CREW, OPEN HCR - 2 SECONDS, CLOSE ANNULAR, 20 SECONDS, WELLS SECURE IN 85 SECONDS, CREW PACKED UP AND SEARCH COMPLETED IN 3:55 <b>0:15</b> <b>4:00</b> <b>3:75</b> <b>2</b> DRILL 200MM HOLE FROM 470M TO 782M <b>4:00</b> <b>5:30</b> <b>1:50</b> <b>5</b> ACCUMULATED CONNECTIONS AND WORKING DRILL STRING <b>5:30</b> <b>5:45</b> <b>0:25</b> <b>7</b> RIG SERVICE, FUNCTION ANNULAR, 20 SECONDS TO CLOSE <b>5:45</b> <b>7:30</b> <b>1:75</b> <b>2</b> DRILL 200MM HOLE FROM 782M TO 948M <b>7:30</b> <b>7:45</b> <b>0:25</b> <b>5</b> ACCUMULATED CONNECTIONS AND WORKING DRILL STRING <b>7:45</b> <b>8:00</b> <b>0:25</b> <b>21</b> CREW CHANGE HANDOVER SAFETY MEETING WITH RIG MANAGER, ARC REPRESENTATIVES & RIG CREWS  <b>REMARKS</b> FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS & LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS & LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS, FUNCTION CHOKE, FLARE STACK IGNITOR, MANIFOLD VALVES AND LINES HAZARD IDS - 3RD PARTY WORKER WAS WALKING BETWEEN SUITCASE AND BACK OF SUB OVER HIGH PRESSURE LINES, TOLD HIM OF HAZARD AND FLAGGED OFF SAFETY

TOUR **2** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **8:00** END TIME **20:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>2</b> Size: <b>200</b> IADC Code: <b>1</b> Manufacturer: <b>BAKER HUGHES</b> Type: <b>T507F</b> Serial No: <b>7162425</b> Jts: <b>7.1   7.1   7.9   7.9</b> Depth Out (m): <b>463.00</b> Total Drilled (m): <b>1115.00</b> Hrs Run Today: <b>9.25</b> Cumulative Hrs Run: <b>15.00</b> Entry Date: <b>18-Mar-2017</b>	No: <b>1</b> Component: <b>PDC BIT</b> OD: <b>200</b> ID: <b>1</b> Length: <b>0.25</b> <b>1</b> <b>6.5" MOTOR</b> 167 1 8.22 <b>1</b> <b>6.5" NON MAG PONY</b> 162 72 1.55 <b>1</b> <b>6.5" NON MAG FLEX MONEL</b> 163 72 9.46 <b>1</b> <b>6.5" GAP SUB</b> 163 1 1.66 <b>2</b> <b>6.5" NON MAG SLECK MONEL</b> 167 71 18.84 <b>1</b> <b>6.5" HYDMECH JARS</b> 157 58 5.10 <b>6</b> <b>DRILL COLLAR</b> 165 60 56.72 <b>1</b> <b>6.5" X/O SUB</b> 135 58 0.80 <b>48</b> <b>4.5" HWDP</b> 114 73 46.83	Mud Type: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Oil Time: <b>08:15</b> to <b>16:30</b> Density: <b>1135</b> <b>1160</b> Funnel Viscosity: <b>30</b> <b>30</b> Fluid Loss: <b>10</b> pH: <b>10</b> <b>10.5</b> Location Of Sample: <b>SHAKERS</b> <b>SHAKERS</b> Depth: <b>958.00</b> <b>1465.00</b> PVT: <b>93</b> <b>60</b> Circulation Pump #   Type   Liner Size   SPM   Pressure   Hrs Run <b>1</b> PARALLEL <b>127</b> <b>95</b> <b>16500</b> <b>12.00</b> <b>2</b> PARALLEL <b>127</b> <b>98</b> <b>16500</b> <b>12.00</b>	Time   Depth   Deviation   Direction   Type <b>08:15</b> <b>942.83</b> <b>1.30</b> <b>93.7</b> <b>08:45</b> <b>972.03</b> <b>0.80</b> <b>83.2</b> <b>09:00</b> <b>1001.33</b> <b>0.20</b> <b>345.2</b> <b>09:30</b> <b>1030.51</b> <b>0.10</b> <b>287.6</b> <b>10:00</b> <b>1059.74</b> <b>0.20</b> <b>269.3</b> <b>10:30</b> <b>1088.92</b> <b>0.20</b> <b>320.6</b>	From   To   Elapsed   Code <b>8:00</b> <b>13:00</b> <b>5:00</b> <b>2</b> <b>13:00</b> <b>14:45</b> <b>1:75</b> <b>5</b> <b>14:45</b> <b>15:00</b> <b>0:25</b> <b>7</b> <b>15:00</b> <b>19:15</b> <b>4:25</b> <b>2</b> <b>19:15</b> <b>19:45</b> <b>0:50</b> <b>5</b> <b>19:45</b> <b>20:00</b> <b>0:25</b> <b>21</b>
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>MUD MATERIALS ADDED</b>	<b>DETAILS OF OPERATIONS IN SEQUENCE &amp; REMARKS</b>
Kelly Down: <b>-1.78</b> Total: <b>1578.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>75.00</b>	Hole Drag Up: <b>2</b> Down: <b>2</b> Torque At Bottom: <b>7800</b> Fill On Bottom	Pump #   Pressure   Strokes/min   Depth <b>1</b> <b>5250</b> @ <b>95</b> @ <b>1075.00</b> <b>2</b> <b>5310</b> @ <b>95</b> @ <b>1075.00</b> <b>1</b> <b>3940</b> @ <b>78</b> @ <b>1628.00</b>	LIME 20 EACH SULPHAMIC ACID 3 EACH CAL CARB 0 10 EACH CAL CARB 325 10 EACH ENERCLEAR 1802 2 EACH ENERFIBER 6 EACH ENERHIB 1 EACH ENERSCAV 1 EACH ENERPAC 1 EACH	<b>8:00</b> <b>13:00</b> <b>5:00</b> <b>2</b> DRILL 200MM HOLE FROM 948M TO 1365M <b>13:00</b> <b>14:45</b> <b>1:75</b> <b>5</b> ACCUMULATE TIME TO WORK STRING AND MAKE CONNECTIONS <b>14:45</b> <b>15:00</b> <b>0:25</b> <b>7</b> RIG SERVICE FUNCTION UPPER PIPE RAMS 6 SEC TO CLOSE <b>15:00</b> <b>19:15</b> <b>4:25</b> <b>2</b> DRILL 200MM HOLE FROM 1365M TO 1578M <b>19:15</b> <b>19:45</b> <b>0:50</b> <b>5</b> ACCUMULATE TIME TO WORK STRING AND MAKE CONNECTIONS <b>19:45</b> <b>20:00</b> <b>0:25</b> <b>21</b> CREW CHANGE HANDOVER SAFETY MEETING WITH RIG MANAGER/ARC REPRESENTATIVES/CREWS  <b>REMARKS</b> FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS & LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS & LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS, FUNCTION CHOKE, FLARE STACK IGNITOR, MANIFOLD VALVES AND LINES

TOUR **3** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **20:00** END TIME **24:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>2</b> Size: <b>200</b> IADC Code: <b>1</b> Manufacturer: <b>BAKER HUGHES</b> Type: <b>T507F</b> Serial No: <b>7162425</b> Jts: <b>7.1   7.1   7.9   7.9</b> Depth Out (m): <b>463.00</b> Total Drilled (m): <b>1193.00</b> Hrs Run Today: <b>3.50</b> Cumulative Hrs Run: <b>18.50</b> Entry Date: <b>18-Mar-2017</b>	No: <b>1</b> Component: <b>PDC BIT</b> OD: <b>200</b> ID: <b>1</b> Length: <b>0.25</b> <b>1</b> <b>6.5" MOTOR</b> 167 1 8.22 <b>1</b> <b>6.5" NON MAG PONY</b> 162 72 1.55 <b>1</b> <b>6.5" NON MAG FLEX MONEL</b> 163 72 9.46 <b>1</b> <b>6.5" GAP SUB</b> 163 1 1.66 <b>2</b> <b>6.5" NON MAG SLECK MONEL</b> 167 71 18.84 <b>1</b> <b>6.5" HYDMECH JARS</b> 157 58 5.10 <b>6</b> <b>DRILL COLLAR</b> 165 60 56.72 <b>1</b> <b>6.5" X/O SUB</b> 135 58 0.80 <b>48</b> <b>4.5" HWDP</b> 114 73 46.83	Mud Type: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Oil Time: <b>20:30</b> Density: <b>1160</b> Funnel Viscosity: <b>30</b> Fluid Loss: <b>10.5</b> pH: <b>10.5</b> Location Of Sample: <b>SHAKER</b> Depth: <b>1588.00</b> PVT: <b>65</b> Circulation Pump #   Type   Liner Size   SPM   Pressure   Hrs Run <b>1</b> PARALLEL <b>127</b> <b>78</b> <b>16750</b> <b>3.75</b> <b>2</b> PARALLEL <b>127</b> <b>78</b> <b>16750</b> <b>3.75</b>	Time   Depth   Deviation   Direction   Type <b>21:00</b> <b>1584.84</b> <b>0.60</b> <b>310.4</b> <b>22:30</b> <b>1613.88</b> <b>0.50</b> <b>259.6</b>	From   To   Elapsed   Code <b>20:00</b> <b>23:30</b> <b>3:50</b> <b>2</b> <b>23:30</b> <b>23:45</b> <b>0:25</b> <b>5</b> <b>23:45</b> <b>24:00</b> <b>0:25</b> <b>7</b>
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>MUD MATERIALS ADDED</b>	<b>DETAILS OF OPERATIONS IN SEQUENCE &amp; REMARKS</b>
Kelly Down: <b>-1.36</b> Total: <b>1656.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>77.00</b>	Hole Drag Up: <b>2</b> Down: <b>2</b> Torque At Bottom: <b>8000</b> Fill On Bottom	Pump #   Pressure   Strokes/min   Depth <b>1</b> <b>3970</b> @ <b>78</b> @ <b>1628.00</b> <b>2</b> <b>3950</b> @ <b>78</b> @ <b>1628.00</b>		<b>20:00</b> <b>23:30</b> <b>3:50</b> <b>2</b> DRILL 200MM HOLE FROM 1578M TO 1656M <b>23:30</b> <b>23:45</b> <b>0:25</b> <b>5</b> ACCUMULATED CONNECTIONS AND WORKING DRILL STRING <b>23:45</b> <b>24:00</b> <b>0:25</b> <b>7</b> RIG SERVICE, FUNCTION LOWER PIPE RAMS (6 SECONDS TO CLOSE)  <b>REMARKS</b> FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS & LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS & LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS, FUNCTION CHOKE, FLARE STACK IGNITOR, MANIFOLD VALVES AND LINES HAZARD ID - STEAM HOSE LAYING IN FRONT OF STAIRS, MOVED IT OUT OF THE WAY, KEEP WALKWAYS CLEAR

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number <b>PREC465 20170319 1B</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>03</b>	Day <b>19</b>	<b>DAILY CHECKS</b>	<b>OP RM</b>	
License No <b>32950</b>	Well Name <b>ARCRES HZ PARKLAND F11-04-081-16</b>	Surface Location <b>11-4-81-16 W6</b>	Prov <b>BC</b>	Lot Type <b>DLS</b>	Unique Well ID <b>102/16-34-080-16W6</b>	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	AL RT	
Company <b>ARC Resources Ltd.</b>	Contractor <b>Precision Drilling, div of PDC</b>	Contractor's Job No. <b>465</b>	Well Type <b>HORIZ</b>	Spoil Date Time <b>18-Mar-2017</b>	Rig Release Date Time <b>11:30</b>	(8) Rig Site Health & Safety Meeting (on/crow/month) (9) CADCDC Rig Safety Inspection Checklist (on/crow/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Vibs Checked	AL RT		
Operator <b>17DR0047</b>	Signature of Operator's Representative <b>DOUG SHEA</b>	Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>							AL RT



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
Hours	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drilling Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other		Rig
Tour 1		5.50			1.75		0.25																			8.00	32800
Tour 2		9.25			2.25		0.25																			12.00	06:00
Tour 3		3.50			0.25		0.25																			4.00	OVERCAST
TOTAL		18.25			4.25		0.75																			24.00	FAIR

TOUR **1** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **0:00** END TIME **8:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>2</b> Size: <b>200</b> IADC Code: <b>1</b> Manufacturer: <b>BAKER HUGHES</b> Type: <b>T507F</b> Serial No: <b>7162425</b> Jts: <b>7.1 7.1 7.9 7.9</b> Depth Out (m): <b>463.00</b> Total Drilled (m): <b>485.00</b> Hrs Run Today: <b>5.50</b> Cumulative Hrs Run: <b>5.75</b> Entry Date: <b>18-Mar-2017</b>	No. Component OD ID Length <b>1 PDC BIT 200 1 0.25</b> <b>1 6.5" MOTOR 167 1 8.22</b> <b>1 6.5" NON MAG PONY 162 72 1.55</b> <b>1 6.5" NON MAG FLEX MONEL 163 72 9.46</b> <b>1 6.5" GAP SUB 163 1 1.66</b> <b>1 6.5" NON MAG SLECK MONEL 167 71 18.94</b> <b>1 6.5" HYDMECH JARS 157 58 5.10</b> <b>6 DRILL COLLAR 165 60 56.72</b> <b>1 6.5" X/O SUB 135 58 0.80</b> <b>48 4.5" HWDP 114 73 46.83</b>	Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil Time: <b>00:30</b> Density: <b>1170</b> Funnel Viscosity: <b>30</b> Fluid Loss: <b>11</b> pH: <b>11</b> Location Of Sample: <b>TANK 2</b> Depth: <b>503.00</b> PVT: <b>50</b> Circulation Pump # Type Liner Size SPM Pressure Hrs Run <b>1 PARALLEL 127 95 22400 7.50</b> <b>2 PARALLEL 127 95 22400 7.50</b>	Time Depth Deviation Direction Type <b>10:45 1118.04 0.10 344.2</b> <b>11:15 1147.32 0.20 341.5</b> <b>11:45 1176.53 0.10 287.6</b> <b>12:15 1205.80 0.40 262.2</b> <b>12:45 1235.11 0.10 194.9</b> <b>13:15 1264.47 0.40 262.2</b>	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>MUD MATERIALS ADDED</b>	<b>BOILER</b>
Kelly Down: <b>-9.33</b> Total: <b>948.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>58.00</b>	Hole Drag Up: <b>2</b> Down: <b>2</b> Torque At Bottom: <b>6700</b> Fill On Bottom:	Pump # Pressure Strokes/min Depth <b>1 4985 @ 95 @ 578.00</b> <b>2 4970 @ 95 @ 578.00</b> <b>1 5230 @ 95 @ 725.00</b>	Product Amount Type <b>2 PARALLEL 127 95 22400 7.50</b>	BoilerNo HoursRun pH StackTemp SAFETY
<b>METRES DRILLED</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>MUD MATERIALS ADDED</b>	<b>BOILER</b>
From To D-R-C RPM WOB Kelly Down: <b>-9.33</b> Total: <b>948.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>58.00</b>	Hole Drag Up: <b>2</b> Down: <b>2</b> Torque At Bottom: <b>6700</b> Fill On Bottom:	Pump # Pressure Strokes/min Depth <b>1 4985 @ 95 @ 578.00</b> <b>2 4970 @ 95 @ 578.00</b> <b>1 5230 @ 95 @ 725.00</b>	Product Amount Type <b>2 PARALLEL 127 95 22400 7.50</b>	BoilerNo HoursRun pH StackTemp SAFETY

TOUR **2** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **8:00** END TIME **20:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>2</b> Size: <b>200</b> IADC Code: <b>1</b> Manufacturer: <b>BAKER HUGHES</b> Type: <b>T507F</b> Serial No: <b>7162425</b> Jts: <b>7.1 7.1 7.9 7.9</b> Depth Out (m): <b>463.00</b> Total Drilled (m): <b>1115.00</b> Hrs Run Today: <b>9.25</b> Cumulative Hrs Run: <b>15.00</b> Entry Date: <b>18-Mar-2017</b>	No. Component OD ID Length <b>1 PDC BIT 200 1 0.25</b> <b>1 6.5" MOTOR 167 1 8.22</b> <b>1 6.5" NON MAG PONY 162 72 1.55</b> <b>1 6.5" NON MAG FLEX MONEL 163 72 9.46</b> <b>1 6.5" GAP SUB 163 1 1.66</b> <b>1 6.5" NON MAG SLECK MONEL 167 71 18.94</b> <b>1 6.5" HYDMECH JARS 157 58 5.10</b> <b>6 DRILL COLLAR 165 60 56.72</b> <b>1 6.5" X/O SUB 135 58 0.80</b> <b>48 4.5" HWDP 114 73 46.83</b>	Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil Time: <b>00:30</b> Density: <b>1170</b> Funnel Viscosity: <b>30</b> Fluid Loss: <b>11</b> pH: <b>11</b> Location Of Sample: <b>TANK 2</b> Depth: <b>503.00</b> PVT: <b>50</b> Circulation Pump # Type Liner Size SPM Pressure Hrs Run <b>1 PARALLEL 127 95 16500 12.00</b> <b>2 PARALLEL 127 98 16500 12.00</b>	Time Depth Deviation Direction Type <b>10:45 1118.04 0.10 344.2</b> <b>11:15 1147.32 0.20 341.5</b> <b>11:45 1176.53 0.10 287.6</b> <b>12:15 1205.80 0.40 262.2</b> <b>12:45 1235.11 0.10 194.9</b> <b>13:15 1264.47 0.40 262.2</b>	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>MUD MATERIALS ADDED</b>	<b>BOILER</b>
Kelly Down: <b>-1.78</b> Total: <b>1578.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>75.00</b>	Hole Drag Up: <b>2</b> Down: <b>2</b> Torque At Bottom: <b>7800</b> Fill On Bottom:	Pump # Pressure Strokes/min Depth <b>1 5250 @ 95 @ 1075.00</b> <b>2 5310 @ 95 @ 1075.00</b> <b>1 3940 @ 78 @ 1628.00</b>	Product Amount Type <b>1 EACH</b>	BoilerNo HoursRun pH StackTemp SAFETY
<b>METRES DRILLED</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>MUD MATERIALS ADDED</b>	<b>BOILER</b>
From To D-R-C RPM WOB Kelly Down: <b>-1.78</b> Total: <b>1578.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>75.00</b>	Hole Drag Up: <b>2</b> Down: <b>2</b> Torque At Bottom: <b>7800</b> Fill On Bottom:	Pump # Pressure Strokes/min Depth <b>1 5250 @ 95 @ 1075.00</b> <b>2 5310 @ 95 @ 1075.00</b> <b>1 3940 @ 78 @ 1628.00</b>	Product Amount Type <b>1 EACH</b>	BoilerNo HoursRun pH StackTemp SAFETY

TOUR **3** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **20:00** END TIME **24:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>2</b> Size: <b>200</b> IADC Code: <b>1</b> Manufacturer: <b>BAKER HUGHES</b> Type: <b>T507F</b> Serial No: <b>7162425</b> Jts: <b>7.1 7.1 7.9 7.9</b> Depth Out (m): <b>463.00</b> Total Drilled (m): <b>1193.00</b> Hrs Run Today: <b>3.50</b> Cumulative Hrs Run: <b>18.50</b> Entry Date: <b>18-Mar-2017</b>	No. Component OD ID Length <b>1 PDC BIT 200 1 0.25</b> <b>1 6.5" MOTOR 167 1 8.22</b> <b>1 6.5" NON MAG PONY 162 72 1.55</b> <b>1 6.5" NON MAG FLEX MONEL 163 72 9.46</b> <b>1 6.5" GAP SUB 163 1 1.66</b> <b>1 6.5" NON MAG SLECK MONEL 167 71 18.94</b> <b>1 6.5" HYDMECH JARS 157 58 5.10</b> <b>6 DRILL COLLAR 165 60 56.72</b> <b>1 6.5" X/O SUB 135 58 0.80</b> <b>48 4.5" HWDP 114 73 46.83</b>	Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil Time: <b>00:30</b> Density: <b>1170</b> Funnel Viscosity: <b>30</b> Fluid Loss: <b>11</b> pH: <b>11</b> Location Of Sample: <b>TANK 2</b> Depth: <b>503.00</b> PVT: <b>50</b> Circulation Pump # Type Liner Size SPM Pressure Hrs Run <b>1 PARALLEL 127 78 16750 3.75</b> <b>2 PARALLEL 127 78 16750 3.75</b>	Time Depth Deviation Direction Type <b>4:00 1165 1155 1745</b> <b>4:00 1165 1155 1745</b>	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>MUD MATERIALS ADDED</b>	<b>BOILER</b>
Kelly Down: <b>-1.36</b> Total: <b>1656.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>77.00</b>	Hole Drag Up: <b>2</b> Down: <b>2</b> Torque At Bottom: <b>8000</b> Fill On Bottom:	Pump # Pressure Strokes/min Depth <b>1 3970 @ 78 @ 1628.00</b> <b>2 3950 @ 78 @ 1628.00</b>	Product Amount Type	BoilerNo HoursRun pH StackTemp SAFETY
<b>METRES DRILLED</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>MUD MATERIALS ADDED</b>	<b>BOILER</b>
From To D-R-C RPM WOB Kelly Down: <b>-1.36</b> Total: <b>1656.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>77.00</b>	Hole Drag Up: <b>2</b> Down: <b>2</b> Torque At Bottom: <b>8000</b> Fill On Bottom:	Pump # Pressure Strokes/min Depth <b>1 3970 @ 78 @ 1628.00</b> <b>2 3950 @ 78 @ 1628.00</b>	Product Amount Type	BoilerNo HoursRun pH StackTemp SAFETY

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number <b>PREC465 20170319 1B</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>03</b>	Day <b>19</b>	<b>DAILY CHECKS</b>	<b>OP RM</b>
License No <b>32950</b>	Well Name <b>ARCRES HZ PARKLAND F11-04-081-16</b>	Surface Location <b>11-4-81-16 W6</b>	Plow <b>BC</b>	Log Type <b>DLS</b>	Unique Well ID <b>102/16-34-080-16W6</b>	(1) Daily Walk Around Inspection (2) Disabled 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 (8) Rig Site Health & Safety Meeting (on/crow/month) (9) CAADC Rig Safety Inspection Checklist (on/crow/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Vibs Checked		AL AL AL AL AL AL RT RT
Company <b>ARC Resources Ltd.</b>	Contractor <b>Precision Drilling, div of PDC</b>	Contractor Job No. <b>51</b>	Rig No. <b>465</b>	Well Type <b>HORIZ</b>	Re-Entry <input type="checkbox"/>	(1) Rig Site Health & Safety Meeting (on/crow/month) (2) CAADC Rig Safety Inspection Checklist (on/crow/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked		RT RT
Operator <b>17DR0047</b>	Signature of Operator's Representative <b>DOUG SHEA</b>	Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>	Squad Date Time <b>18-Mar-2017</b>	Rig Release Date Time <b>11:30</b>				



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
Hours	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Dring Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	Rig	Power
Tour 1		5.50			1.75		0.25																			8.00	32800 4199
Tour 2		9.25			2.25		0.25																			12.00	06:00 -17
Tour 3		3.50			0.25		0.25																			4.00	OVERCAST
TOTAL		18.25			4.25		0.75																			24.00	WEATHER FAIR

TOUR **1** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **0:00** END TIME **8:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>2</b> Size: <b>200</b> IADC Code: Manufacturer: <b>BAKER HUGHES</b> Type: <b>T507F</b> Serial No: <b>7162425</b> Jts: <b>7.1   7.1   7.9   7.9</b> Depth Out (m): Depth In (m): <b>463.00</b> Total Drilled (m): <b>485.00</b> Hrs Run Today: <b>5.50</b> Cumulative Hrs Run: <b>5.75</b> Entry Date: <b>18-Mar-2017</b>	No. Component OD ID Length <b>1 PDC BIT 200 1 0.25</b> <b>1 6.5" MOTOR 167 1 8.22</b> <b>1 6.5" NON MAG PONY 162 72 1.55</b> <b>1 6.5" NON MAG FLEX MONEL 163 72 9.46</b> <b>1 6.5" GAP SUB 163 1 1.66</b> <b>1 6.5" NON MAG SLICK MONEL 167 71 18.94</b> <b>1 6.5" HYDMECH JARS 157 58 5.10</b> <b>6 DRILL COLLAR 165 60 56.72</b> <b>1 6.5" X/O SUB 135 58 0.80</b> <b>48 4.5" HWDP 114 73 464.83</b>	Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil Time: <b>03:30</b> <b>04:45</b> Density: <b>1160</b> <b>1130</b> Funnel Viscosity: <b>30</b> <b>30</b> Fluid Loss: pH: <b>11</b> <b>11</b> Location of Sample: <b>TANK 2</b> <b>TANK 2</b> Depth: <b>667.00</b> <b>755.00</b> PVT: <b>75</b> <b>82</b>	Time Depth Deviation Direction Type <b>13:45 1293.62 0.60 291.6</b> <b>14:15 1322.89 0.50 273.8</b> <b>14:45 1351.90 0.40 270.7</b> <b>15:15 1380.98 1.10 275.1</b> <b>15:45 1409.83 0.70 277.1</b> <b>16:15 1439.06 0.70 345.9</b>	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOLIDS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
TO: <b>84.35</b> MOC: LOC: BRS:	Kelly Down: <b>-9.33</b> Total: <b>948.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>58.00</b>	Pump # Pressure Strokes/min Depth <b>1 4985 @ 95 @ 578.00</b> <b>2 4970 @ 95 @ 578.00</b> <b>1 5230 @ 95 @ 725.00</b>	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 <b>8.00 1170 1160 1520</b> Centrifuge #2 <b>8.00 1170 1160 1520</b>	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>REMARKS</b>	<b>SAFETY</b>	<b>DERRICK CONNECTIONS</b>
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	<b>FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS &amp; LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS &amp; LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS, FUNCTION CHOKE, FLARE STACK IGNITOR, MANIFOLD VALVES AND LINES</b> <b>HAZARD IDS - 3RD PARTY WORKER WAS WALKING BETWEEN SUITCASE AND BACK OF SUB OVER HIGH PRESSURE LINES, TOLD HIM OF HAZARD AND FLAGGED OFF</b>	Safety Topic MEHL MACP	55 3086

TOUR **2** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **8:00** END TIME **20:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>2</b> Size: <b>200</b> IADC Code: Manufacturer: <b>BAKER HUGHES</b> Type: <b>T507F</b> Serial No: <b>7162425</b> Jts: <b>7.1   7.1   7.9   7.9</b> Depth Out (m): Depth In (m): <b>463.00</b> Total Drilled (m): <b>1115.00</b> Hrs Run Today: <b>9.25</b> Cumulative Hrs Run: <b>15.00</b> Entry Date: <b>18-Mar-2017</b>	No. Component OD ID Length <b>1 PDC BIT 200 1 0.25</b> <b>1 6.5" MOTOR 167 1 8.22</b> <b>1 6.5" NON MAG PONY 162 72 1.55</b> <b>1 6.5" NON MAG FLEX MONEL 163 72 9.46</b> <b>1 6.5" GAP SUB 163 1 1.66</b> <b>1 6.5" NON MAG SLICK MONEL 167 71 18.94</b> <b>1 6.5" HYDMECH JARS 157 58 5.10</b> <b>6 DRILL COLLAR 165 60 56.72</b> <b>1 6.5" X/O SUB 135 58 0.80</b> <b>48 4.5" HWDP 114 73 464.83</b>	Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil Time: <b>03:30</b> <b>04:45</b> Density: <b>1160</b> <b>1130</b> Funnel Viscosity: <b>30</b> <b>30</b> Fluid Loss: pH: <b>11</b> <b>11</b> Location of Sample: <b>TANK 2</b> <b>TANK 2</b> Depth: <b>667.00</b> <b>755.00</b> PVT: <b>75</b> <b>82</b>	Time Depth Deviation Direction Type <b>13:45 1293.62 0.60 291.6</b> <b>14:15 1322.89 0.50 273.8</b> <b>14:45 1351.90 0.40 270.7</b> <b>15:15 1380.98 1.10 275.1</b> <b>15:45 1409.83 0.70 277.1</b> <b>16:15 1439.06 0.70 345.9</b>	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOLIDS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
TO: <b>74.33</b> MOC: LOC: BRS:	Kelly Down: <b>-1.78</b> Total: <b>1578.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>75.00</b>	Pump # Pressure Strokes/min Depth <b>1 5250 @ 95 @ 1075.00</b> <b>2 5310 @ 95 @ 1075.00</b> <b>1 3940 @ 78 @ 1628.00</b>	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 <b>4.00 1165 1155 1745</b> Centrifuge #2 <b>4.00 1165 1155 1745</b>	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>REMARKS</b>	<b>SAFETY</b>	<b>DERRICK CONNECTIONS</b>
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	<b>FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS &amp; LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS &amp; LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS, FUNCTION CHOKE, FLARE STACK IGNITOR, MANIFOLD VALVES AND LINES</b>	Safety Topic MEHL MACP	76

TOUR **3** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **20:00** END TIME **24:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>2</b> Size: <b>200</b> IADC Code: Manufacturer: <b>BAKER HUGHES</b> Type: <b>T507F</b> Serial No: <b>7162425</b> Jts: <b>7.1   7.1   7.9   7.9</b> Depth Out (m): Depth In (m): <b>463.00</b> Total Drilled (m): <b>1193.00</b> Hrs Run Today: <b>3.50</b> Cumulative Hrs Run: <b>18.50</b> Entry Date: <b>18-Mar-2017</b>	No. Component OD ID Length <b>1 PDC BIT 200 1 0.25</b> <b>1 6.5" MOTOR 167 1 8.22</b> <b>1 6.5" NON MAG PONY 162 72 1.55</b> <b>1 6.5" NON MAG FLEX MONEL 163 72 9.46</b> <b>1 6.5" GAP SUB 163 1 1.66</b> <b>1 6.5" NON MAG SLICK MONEL 167 71 18.94</b> <b>1 6.5" HYDMECH JARS 157 58 5.10</b> <b>6 DRILL COLLAR 165 60 56.72</b> <b>1 6.5" X/O SUB 135 58 0.80</b> <b>48 4.5" HWDP 114 73 464.83</b>	Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil Time: <b>03:30</b> <b>04:45</b> Density: <b>1160</b> <b>1130</b> Funnel Viscosity: <b>30</b> <b>30</b> Fluid Loss: pH: <b>11</b> <b>11</b> Location of Sample: <b>TANK 2</b> <b>TANK 2</b> Depth: <b>667.00</b> <b>755.00</b> PVT: <b>75</b> <b>82</b>	Time Depth Deviation Direction Type <b>4:00 1165 1155 1745</b> <b>4:00 1165 1155 1745</b>	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOLIDS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
TO: <b>64.49</b> MOC: LOC: BRS:	Kelly Down: <b>-1.36</b> Total: <b>1656.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>77.00</b>	Pump # Pressure Strokes/min Depth <b>1 3970 @ 78 @ 1628.00</b> <b>2 3950 @ 78 @ 1628.00</b>	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 <b>4.00 1165 1155 1745</b> Centrifuge #2 <b>4.00 1165 1155 1745</b>	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>REMARKS</b>	<b>SAFETY</b>	<b>DERRICK CONNECTIONS</b>
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	<b>FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS &amp; LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS &amp; LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS, FUNCTION CHOKE, FLARE STACK IGNITOR, MANIFOLD VALVES AND LINES</b> <b>HAZARD ID - STEAM HOSE LAYING IN FRONT OF STAIRS, MOVED IT OUT OF THE WAY, KEEP WALKWAYS CLEAR</b>	Safety Topic MEHL MACP	77 3112



<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number <b>PREC465 20170319 1B</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>03</b>	Day <b>19</b>	<b>DAILY CHECKS</b>	<b>OP RM</b>
License No <b>32950</b>	Well Name <b>ARCRES HZ PARKLAND F11-04-081-16</b>	Drill Location <b>11-4-81-16 W6</b>	Flow <b>BC</b>	Log Type <b>DLS</b>	Unique Well ID <b>102/16-34-080-16W6</b>	(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 (8) Rig Site Health & Safety Meeting (on/crow/month) (9) CAODC Rig Safety Inspection Checklist (on/crow/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Vibs Checked		AL RT AL RT AL RT AL RT ST RT
Company <b>ARC Resources Ltd.</b>	Contractor <b>Precision Drilling, div of PDC</b>	Contractor Job No <b>465</b>	Rig No <b>465</b>	Well Type <b>HORIZ</b>	Re-Entry <input type="checkbox"/>	(1) Rig Site Health & Safety Meeting (on/crow/month) (2) CAODC Rig Safety Inspection Checklist (on/crow/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked		ST RT
Operator <b>17DR0047</b>	Signature of Operator's Representative <b>DOUG SHEA</b>	Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>	Squad Date Time <b>18-Mar-2017</b>	Rig Release Date Time <b>11:30</b>				



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
HOURS	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other		Rig
Tour 1		5.50			1.75		0.25																			8.00	32800
Tour 2		9.25			2.25		0.25																			12.00	06:00
Tour 3		3.50			0.25		0.25																			4.00	OVERCAST
TOTAL		18.25			4.25		0.75																			24.00	WEATHER FAIR

TOUR **1** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **0:00** END TIME **8:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>2</b> Size: <b>200</b> IADC Code: Manufacturer: <b>BAKER HUGHES</b> Type: <b>T507F</b> Serial No: <b>7162425</b> Jts: <b>7.1   7.1   7.9   7.9</b> Depth Out (m): Depth In (m): <b>463.00</b> Total Drilled (m): <b>485.00</b> Hrs Run Today: <b>5.50</b> Cumulative Hrs Run: <b>5.75</b> Entry Date: <b>18-Mar-2017</b>	No. Component OD ID Length <b>1 PDC BIT 200 1 0.25</b> <b>1 6.5" MOTOR 167 1 8.22</b> <b>1 6.5" NON MAG PONY 162 72 1.55</b> <b>1 6.5" NON MAG FLEX MONEL 163 72 8.46</b> <b>1 6.5" GAP SUB 163 1 1.66</b> <b>2 6.5" NON MAG SLECK MONEL 167 71 18.94</b> <b>1 6.5" HYDMECH JARS 157 58 5.10</b> <b>6 DRILL COLLAR 165 60 56.72</b> <b>1 6.5" X/O SUB 135 58 0.80</b> <b>48 4.5" HWDP 114 73 46.83</b>	Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Time: <b>06:15</b> Density: <b>1130</b> Funnel Viscosity: <b>30</b> Fluid Loss: pH: <b>10.5</b> Location of Sample: <b>TANK 2</b> Depth: <b>824.00</b> PVT: Circulation: Pump # Type Liner Size SPM Pressure Hrs Run <b>1 PARALLEL 127 95 22400 7.50</b> <b>2 PARALLEL 127 95 22400 7.50</b>	Time Depth Deviation Direction Type <b>16:45 1468.06 1.10 12.6</b> <b>17:30 1497.09 0.80 4.9</b> <b>18:30 1526.20 0.80 20.2</b> <b>19:45 1555.53 0.40 54.7</b>	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOLIDS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
Kelly Down: <b>-9.33</b> Total: <b>948.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>58.00</b>	Hole Drag Up: <b>2</b> Down: <b>2</b> Torque At Bottom: <b>6700</b> Fill On Bottom:	Pump # Pressure Strokes/min Depth <b>1 4985 @ 95 @ 578.00</b> <b>2 4970 @ 95 @ 578.00</b> <b>1 5230 @ 95 @ 725.00</b>	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1: <b>8.00 1170 1160 1520</b> Centrifuge #2: <b>8.00 1170 1160 1520</b>	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>SAFETY</b>	<b>DERRICK CONNECTIONS</b>	
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	Safety Topic MEHL MACP	55 3086	

TOUR **2** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **8:00** END TIME **20:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>2</b> Size: <b>200</b> IADC Code: Manufacturer: <b>BAKER HUGHES</b> Type: <b>T507F</b> Serial No: <b>7162425</b> Jts: <b>7.1   7.1   7.9   7.9</b> Depth Out (m): Depth In (m): <b>463.00</b> Total Drilled (m): <b>1115.00</b> Hrs Run Today: <b>9.25</b> Cumulative Hrs Run: <b>15.00</b> Entry Date: <b>18-Mar-2017</b>	No. Component OD ID Length <b>1 PDC BIT 200 1 0.25</b> <b>1 6.5" MOTOR 167 1 8.22</b> <b>1 6.5" NON MAG PONY 162 72 1.55</b> <b>1 6.5" NON MAG FLEX MONEL 163 72 8.46</b> <b>1 6.5" GAP SUB 163 1 1.66</b> <b>2 6.5" NON MAG SLECK MONEL 167 71 18.94</b> <b>1 6.5" HYDMECH JARS 157 58 5.10</b> <b>6 DRILL COLLAR 165 60 56.72</b> <b>1 6.5" X/O SUB 135 58 0.80</b> <b>48 4.5" HWDP 114 73 46.83</b>	Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Time: Density: Funnel Viscosity: Fluid Loss: pH: Location of Sample: Depth: PVT: Circulation: Pump # Type Liner Size SPM Pressure Hrs Run <b>1 PARALLEL 127 95 16500 12.00</b> <b>2 PARALLEL 127 98 16500 12.00</b>	Time Depth Deviation Direction Type <b>16:45 1468.06 1.10 12.6</b> <b>17:30 1497.09 0.80 4.9</b> <b>18:30 1526.20 0.80 20.2</b> <b>19:45 1555.53 0.40 54.7</b>	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOLIDS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
Kelly Down: <b>-1.78</b> Total: <b>1578.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>75.00</b>	Hole Drag Up: <b>2</b> Down: <b>2</b> Torque At Bottom: <b>7800</b> Fill On Bottom:	Pump # Pressure Strokes/min Depth <b>1 5250 @ 95 @ 1075.00</b> <b>2 5310 @ 95 @ 1075.00</b> <b>1 3940 @ 78 @ 1628.00</b>	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1: <b>8.00 1135 1125 1520</b> Centrifuge #2: <b>8.00 1135 1125 1520</b>	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>SAFETY</b>	<b>DERRICK CONNECTIONS</b>	
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	Safety Topic MEHL MACP	76	

TOUR **3** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **20:00** END TIME **24:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>2</b> Size: <b>200</b> IADC Code: Manufacturer: <b>BAKER HUGHES</b> Type: <b>T507F</b> Serial No: <b>7162425</b> Jts: <b>7.1   7.1   7.9   7.9</b> Depth Out (m): Depth In (m): <b>463.00</b> Total Drilled (m): <b>1193.00</b> Hrs Run Today: <b>3.50</b> Cumulative Hrs Run: <b>18.50</b> Entry Date: <b>18-Mar-2017</b>	No. Component OD ID Length <b>1 PDC BIT 200 1 0.25</b> <b>1 6.5" MOTOR 167 1 8.22</b> <b>1 6.5" NON MAG PONY 162 72 1.55</b> <b>1 6.5" NON MAG FLEX MONEL 163 72 8.46</b> <b>1 6.5" GAP SUB 163 1 1.66</b> <b>2 6.5" NON MAG SLECK MONEL 167 71 18.94</b> <b>1 6.5" HYDMECH JARS 157 58 5.10</b> <b>6 DRILL COLLAR 165 60 56.72</b> <b>1 6.5" X/O SUB 135 58 0.80</b> <b>48 4.5" HWDP 114 73 46.83</b>	Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Time: Density: Funnel Viscosity: Fluid Loss: pH: Location of Sample: Depth: PVT: Circulation: Pump # Type Liner Size SPM Pressure Hrs Run <b>1 PARALLEL 127 78 16750 3.75</b> <b>2 PARALLEL 127 78 16750 3.75</b>	Time Depth Deviation Direction Type <b>4:00 1165 1155 1745</b> <b>4:00 1165 1155 1745</b>	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOLIDS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
Kelly Down: <b>-1.36</b> Total: <b>1656.00</b> Weight of DC: <b>3.00</b> Weight of String: <b>77.00</b>	Hole Drag Up: <b>2</b> Down: <b>2</b> Torque At Bottom: <b>8000</b> Fill On Bottom:	Pump # Pressure Strokes/min Depth <b>1 3970 @ 78 @ 1628.00</b> <b>2 3950 @ 78 @ 1628.00</b>	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1: <b>4.00 1165 1155 1745</b> Centrifuge #2: <b>4.00 1165 1155 1745</b>	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>SAFETY</b>	<b>DERRICK CONNECTIONS</b>	
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	Safety Topic MEHL MACP	77 3112	

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number PREC465 20170320 1B	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 20	<b>DAILY CHECKS</b>		OP RM
License No 32950	Well Name ARCRES HZ PARKLAND F11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 102/16-34-080-16W6	(1) Daily Walk Around Inspection (2) Disabled 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) Rig Site Health & Safety Meeting (once/week/month) (9) CADCDC Rig Safety Inspection Checklist (once/week/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Major Risks Checked		DS RT	DS RT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Company Job No 51	Rig No 465	Well Type HORIZ	ReEntry <input type="checkbox"/>			DS RT	DS RT
Signature of Operator's Representative DOUG SHEA	Signature of Contractor's Rig Manager ROD TOMPKINS	Spoil Date Time 18-Mar-2017	Rig Release Date Time 11:30					RT	RT



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		3.75			0.50	3.00	0.25																			8.00	26949 4199
Tour 2		3.00				4.75	0.25																			12.00	06:00 -16
Tour 3		3.50			0.25		0.25																			4.00	OVERCAST Wind Direction E Wind Strength UP TO 19 KM/H
TOTAL		10.25			0.75	7.75	0.75																			24.00	WEATHER FAIR

TOUR	1	SIGNATURE OF DRILLER	ERIC OBRIEN	START TIME	0:00	END TIME	8:00
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<b>BITS</b>		<b>DRILLING ASSEMBLY</b>		<b>MUD RECORD</b>		<b>DEVIATION SURVEYS</b>		<b>TIME LOG</b>	
Bit Number 2	Size 200	No 1	Component PDC BIT	OD 200	ID 162	Length 1.025	Mud Type Water	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>
IADC Code 1	Manufacturer BAKER HUGHES	No 1	Component 6.5" MOTOR	OD 167	ID 127	Length 8.22	Time 04:15	Pressure 86	Strokes/min 86
Type T507F	Serial No 7162425	No 1	Component 6.5" NON MAG PONY	OD 162	ID 127	Length 1.55	Density 1160	Strokes/min 86	Depth 168.00
Jct's 7.1 7.1 7.9 7.9	Depth Out (m) 1744.00	No 1	Component 6.5" GAP SUB	OD 163	ID 127	Length 1.66	Funnel Viscosity 30	Strokes/min 86	Depth 168.00
Total Drilled (m) 1281.00	Hrs Run Today 3.75	No 2	Component 6.5" HYDMECH JARS	OD 157	ID 118	Length 5.10	Fluid Loss 10.5	Strokes/min 86	Depth 168.00
Cumulative Hrs Run 22.25	Entry Date 18-Mar-2017	No 3	Component 6.5" HYDMECH JARS	OD 157	ID 118	Length 5.10	pH 11	Strokes/min 86	Depth 168.00
<b>CUTTING STRUCTURE</b>		<b>HOLE CONDITION</b>		<b>REDUCED PUMP SPEED</b>		<b>BOILER</b>		<b>SAFETY</b>	
Kelly Down -0.61	Total 1744.00	Hole Drag Up 2	Down 2	Pump # 1	Pressure 4260	Strokes/min 86	Hours Run 8.00	pH 10.5	Stack Temp 340
Weight of DC 3.00	Weight of String 78.00	Fill On Bottom 6400		Pump # 2	Pressure 4240	Strokes/min 86	Hours Run 8.00	pH 10.5	Stack Temp 340
<b>DEVIATION SURVEYS</b>		<b>TIME LOG</b>		<b>SAFETY</b>		<b>TRIPPING</b>		<b>REMARKS</b>	
Time 00:00	Depth 1642.86	Deviation 0.60	Direction 303.8	From 0:00	To 0:15	Elapsed 0:25	Code 7	Details of Operations In Sequence & Remarks	
01:30	1671.79	0.30	354	0:15	4:00	3:75	2	RIG SERVICE, FUNCTION ANNUAR (21 SECONDS TO CLOSE)	
03:00	1700.87	0.80	60.2	4:00	4:30	0:50	5	DRILL 200MM HOLE FROM 1656M TO	
04:30	1730.11	0.40	69.2	4:30	4:45	0:25	21	ACCUMULATED CONNECTIONS AND WORKING DRILL STRING	
				4:45	7:45	3:00	6B	SAFETY MEETING PRIOR TO TRIPPING OUT OF HOLE, REVIEW CTA 2-5	
				7:45	8:00	0:25	21	TRIP OUT OF HOLE, FLOW CHECK @ 1627M, 827M	
								CREW CHANGE HANDOVER SAFETY MEETING WITH RIG MANAGER, ARC REPRESENTATIVES & RIG CREWS	

TOUR	2	SIGNATURE OF DRILLER	RYAN NEWTON	START TIME	8:00	END TIME	20:00
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<b>BITS</b>		<b>DRILLING ASSEMBLY</b>		<b>MUD RECORD</b>		<b>DEVIATION SURVEYS</b>		<b>TIME LOG</b>	
Bit Number 3	Size 200	No 1	Component PDC BIT	OD 200	ID 162	Length 1.025	Mud Type Water	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>
IADC Code 1	Manufacturer HALIBURTON	No 1	Component 6.5" MOTOR	OD 167	ID 127	Length 8.50	Time 11:00	Pressure 86	Strokes/min 86
Type MMD64M	Serial No 12789328	No 1	Component 6.5" NON MAG PONY	OD 162	ID 127	Length 1.55	Density 1160	Strokes/min 86	Depth 1755.00
Jct's 7.9 7.9 8.9 8.9	Depth Out (m) 1744.00	No 1	Component 6.5" GAP SUB	OD 163	ID 127	Length 1.66	Funnel Viscosity 30	Strokes/min 86	Depth 1755.00
Total Drilled (m) 80.00	Hrs Run Today 3.00	No 2	Component 6.5" UBHO SUB	OD 156	ID 118	Length 0.79	Fluid Loss 10.5	Strokes/min 86	Depth 1755.00
Cumulative Hrs Run 3.00	Entry Date 20-Mar-2017	No 3	Component 6.5" HYDMECH JARS	OD 157	ID 118	Length 5.10	pH 11	Strokes/min 86	Depth 1755.00
<b>CUTTING STRUCTURE</b>		<b>HOLE CONDITION</b>		<b>REDUCED PUMP SPEED</b>		<b>BOILER</b>		<b>SAFETY</b>	
Kelly Down -8.73	Total 1824.00	Hole Drag Up 2	Down 2	Pump # 1	Pressure 5100	Strokes/min 78	Hours Run 12.00	pH 10.5	Stack Temp 340
Weight of DC 26.67	Weight of String 76.00	Fill On Bottom 5800		Pump # 2	Pressure 4950	Strokes/min 78	Hours Run 12.00	pH 10.5	Stack Temp 340
<b>DEVIATION SURVEYS</b>		<b>TIME LOG</b>		<b>SAFETY</b>		<b>TRIPPING</b>		<b>REMARKS</b>	
Time 18:15	Depth 1769.64	Deviation 0.90	Direction 139.7	From 8:00	To 8:15	Elapsed 0:25	Code 6B	Details of Operations In Sequence & Remarks	
19:30	1798.81	0.80	141.1	8:00	9:15	1:00	6D	TRIP OUT OF HOLE, FLOW CHECK @ 378M, 0M TRIP RECORD - CALCULATED = 9.25 M3, MEASURED = 15.13 M3, DIFFERENCE = 5.88 M3, FUNCTION BLINDS OUT OF HOLE = 6 SECONDS TO CLOSE	
				8:15	9:15	1:00	6D	LAY DOWN DRILL COLLARS	
				9:15	9:30	0:25	21	SAFETY MEETING WITH DISCOVERY DIRECTIONAL	
				9:30	13:00	3:50	20D	HANDLE DIRECTIONAL TOOLS	
				13:00	16:30	3:50	6A	TRIP IN HOLE FROM 58M TO 1744M FILL PIPE AND FLOW CHECK @ 465M, 913M	
				16:30	16:45	0:25	2	DRILL 200MM HOLE FROM 1744M TO 1755M	
				16:45	17:00	0:25	7	RIG SERVICE FUNCTION UPPER PIPE RAMS 6 SEC TO CLOSE	
				17:00	19:45	2:75	2	DRILL 200MM HOLE FROM 1755M TO 1824M	
				19:45	20:00	0:25	21	CREW CHANGE HANDOVER SAFETY MEETING WITH RIG MANAGER/ARC REPRESENTATIVES/CREWS	

TOUR	3	SIGNATURE OF DRILLER	ERIC OBRIEN	START TIME	20:00	END TIME	24:00
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<b>BITS</b>		<b>DRILLING ASSEMBLY</b>		<b>MUD RECORD</b>		<b>DEVIATION SURVEYS</b>		<b>TIME LOG</b>	
Bit Number 3	Size 200	No 1	Component PDC BIT	OD 200	ID 162	Length 1.025	Mud Type Water	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>
IADC Code 1	Manufacturer HALIBURTON	No 1	Component 6.5" MOTOR	OD 167	ID 127	Length 8.50	Time 23:30	Pressure 86	Strokes/min 86
Type MMD64M	Serial No 12789328	No 1	Component 6.5" NON MAG PONY	OD 162	ID 127	Length 1.55	Density 1160	Strokes/min 86	Depth 1842.00
Jct's 7.9 7.9 8.9 8.9	Depth Out (m) 1744.00	No 1	Component 6.5" GAP SUB	OD 163	ID 127	Length 1.66	Funnel Viscosity 30	Strokes/min 86	Depth 1842.00
Total Drilled (m) 144.00	Hrs Run Today 3.50	No 2	Component 6.5" UBHO SUB	OD 156	ID 118	Length 0.79	Fluid Loss 10.5	Strokes/min 86	Depth 1842.00
Cumulative Hrs Run 6.50	Entry Date 20-Mar-2017	No 3	Component 6.5" HYDMECH JARS	OD 157	ID 118	Length 5.10	pH 11	Strokes/min 86	Depth 1842.00
<b>CUTTING STRUCTURE</b>		<b>HOLE CONDITION</b>		<b>REDUCED PUMP SPEED</b>		<b>BOILER</b>		<b>SAFETY</b>	
Kelly Down -3.18	Total 1888.00	Hole Drag Up 3	Down 3	Pump # 1	Pressure 3790	Strokes/min 65	Hours Run 4.00	pH 10.5	Stack Temp 340
Weight of DC 22.15	Weight of String 76.00	Fill On Bottom 9200		Pump # 2	Pressure 3780	Strokes/min 65	Hours Run 4.00	pH 10.5	Stack Temp 340
<b>DEVIATION SURVEYS</b>		<b>TIME LOG</b>		<b>SAFETY</b>		<b>TRIPPING</b>		<b>REMARKS</b>	
Time 21:00	Depth 1827.95	Deviation 0.80	Direction 134.9	From 20:00	To 23:30	Elapsed 3:50	Code 2	Details of Operations In Sequence & Remarks	
22:30	1857.19	0.70	130	20:00	23:45	0:25	5	DRILL 200MM HOLE FROM 1824M TO 1888M	
				23:30	23:45	0:25	5	ACCUMULATED CONNECTIONS AND WORKING DRILL STRING	
				23:45	24:00	0:25	7	RIG SERVICE, FUNCTION LOWER PIPE RAMS (7 SECONDS TO CLOSE)	

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number PREC465 20170321 1B	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 21	<b>DAILY CHECKS</b>		OP RM	
License No 32950	Well Name ARCRES HZ PARKLAND F11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 102/16-34-080-16W6	<input type="checkbox"/> (1) Daily Walk Around Inspection <input type="checkbox"/> (2) Disabled Inspection - Weedy (Using Check List) <input type="checkbox"/> (3) H2S Signs Posted if Required <input type="checkbox"/> (4) Well Licence & Block Diagram Posted <input type="checkbox"/> (5) Flare Lines Staked <input type="checkbox"/> (6) H2S Tests Performed <input type="checkbox"/> (7) Visually Inspected BOP's Flare Lines & Degasser Lines <input type="checkbox"/> (8) Rig Site Health & Safety Meeting (once/week/month) <input type="checkbox"/> (9) CADC Rig Safety Inspection Checklist (once/week/month) <input type="checkbox"/> (10) Mast Inspection before Raising or Lowering <input type="checkbox"/> (11) Crown Saver Checked <input type="checkbox"/> (12) Major Risks Checked		AL	RT	
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No 51	Rig No 465	Well Type HORIZ	Spud Date Time 18-Mar-2017	11:30			AL	RT
Signature of Operator's Representative DOUG SHEA	Signature of Contractor's Rig Manager ROD TOMPKINS							AL	RT	



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	FUEL @ 08:00 HRS	WEATHER	
Tour 1		2.25			0.25	3.25	0.25														1.25	0.75				8.00	22517	4566	
Tour 2		7.50			1.50	2.50	0.25															0.25				12.00	06:00	-11	
Tour 3		3.00			0.75		0.25																			4.00	OVERCAST	Wind Direction E	Wind Strength UP TO 19 KM/H
TOTAL		12.75			2.50	5.75	0.75														1.25	1.00				24.00	FAIR		

TOUR 1 SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **0:00** END TIME **8:00**

<b>BITS</b>		<b>DRILLING ASSEMBLY</b>		<b>MUD RECORD</b>		<b>DEVIATION SURVEYS</b>		<b>TIME LOG</b>											
Bit Number 3	Size 200	No 1	Component PDC BIT	OD 200	ID 167	Length 1.850	Mud Type Water	Time 02:15	Depth 1886.25	Deviation 0.70	Direction 123.2	Type 2	From 0:00	To 2:15	Elapsed 2:15	Code 2	Details of Operations In Sequence & Remarks		
IADC Code	Manufacturer HALIBURTON	Type MMD64M	Serial No 12789328	Jts 7.9 7.9 8.7 8.7	Depth Out (m) 1902.00	Depth In (m) 1744.00	Total Drilled (m) 158.00	Hrs Run Today 2.25	Cumulative Hrs Run 8.75	Entry Date 20-Mar-2017	0:00 2:15 2:25 2 2:15 2:30 0:25 7 2:30 2:45 0:25 5 2:45 3:00 0:25 21 3:00 5:45 2:75 6B 5:45 6:00 0:25 21 6:00 7:15 1:25 20D 7:15 7:45 0:50 6A 7:45 8:00 0:25 21			DRILL 200MM HOLE FROM 1886M TO 1902M RIG SERVICE, FUNCTION ANNUAL (20 SECONDS TO CLOSE) CIRCULATE HOLE CLEAN PRIOR TO TRIP SAFETY MEETING PRIOR TO TRIPPING OUT OF HOLE, REVIEW CTA 2.5 TRIP OUT OF HOLE, FLOW CHECK @ 1901M, 1783M, 938M, 447M, 20H, TRIP RECORD - CALCULATED = 8.80M3, MEASURED = 11.61 M3, DIFFERENCE = 2.81 M3, FUNCTION BLINDS OUT OF HOLE = 6 SECONDS TO CLOSE SAFETY MEETING WITH DIRECTIONAL, REVIEW CTA 2-1 HANDLE DIRECTIONAL TOOLS, CHANGE BIT, PULL MWD TOOL TRIP IN HOLE CREW CHANGE HANDOVER SAFETY MEETING WITH RIG MANAGER, ARC REPRESENTATIVES & RIG CREWS					
<b>CUTTING STRUCTURE</b>		<b>HOLE CONDITION</b>		<b>REDUCED PUMP SPEED</b>		<b>SOLIDS CONTROL</b>		<b>MUD MATERIALS ADDED</b>		<b>BOILER</b>		<b>SAFETY</b>							
Kelly Down Total 1902.00 Weight of DC 18.06 Weight of String 76.00		Hole Drag Up 3 Down 3 Torque At Bottom 9400 Fill On Bottom		Pump # Pressure Strokes/min Depth 1 3790 @ 65 @ 182.00 2 3780 @ 65 @ 182.00		Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 8.00 1180 1160 1600 Centrifuge #2 8.00 1180 1160 1600		Product Amount Type ENERSCAV 1 BBL LIME 4 SX		BoilerNo HoursRun pH StackTemp 1 8.00 10.5 340 2 8.00 10.5 340		Safety Topic MEHL 3112 MACP							

TOUR 2 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **8:00** END TIME **20:00**

<b>BITS</b>		<b>DRILLING ASSEMBLY</b>		<b>MUD RECORD</b>		<b>DEVIATION SURVEYS</b>		<b>TIME LOG</b>											
Bit Number 4	Size 200	No 1	Component PDC BIT	OD 200	ID 167	Length 1.850	Mud Type Water	Time 15:45	Depth 1915.25	Deviation 0.20	Direction 138.1	Type 7	From 8:00	To 10:30	Elapsed 2:50	Code 6A	Details of Operations In Sequence & Remarks		
IADC Code	Manufacturer HALIBURTON	Type MMD64M	Serial No 12860042	Jts 7.9 7.9 8.7 8.7	Depth Out (m) 1902.00	Depth In (m) 1744.00	Total Drilled (m) 158.00	Hrs Run Today 7.50	Cumulative Hrs Run 16.25	Entry Date 21-Mar-2017	8:00 10:30 2:50 7 10:30 15:00 4:50 2 15:00 16:00 1:00 5 16:00 16:15 0:25 7 16:15 19:15 3:00 2 19:15 19:45 0:50 5 19:45 20:00 0:25 21			TRIP IN HOLE FROM 250M TO 1902M WITH FLOW CHECKS @ 465M 1000M FILL PIPE @ 465M 1000M 1500M DRILL 200MM HOLE FROM 1902M TO 1929M ACCUMULATIVE TIME TO WORK STRING, MAKE CONNECTIONS AND TO ALIGN TOOL FACE RIG SERVICE FUNCTION UPPER PIPE RAMS 6 SEC TO CLOSE DRILL 200MM HOLE FROM 1929M TO 1948 ACCUMULATIVE TIME TO WORK STRING, MAKE CONNECTIONS AND TO ALIGN TOOL FACE CREW CHANGE HANDOVER SAFETY MEETING WITH RIG MANAGER/ARC REPRESENTATIVES/CREWS					
<b>CUTTING STRUCTURE</b>		<b>HOLE CONDITION</b>		<b>REDUCED PUMP SPEED</b>		<b>SOLIDS CONTROL</b>		<b>MUD MATERIALS ADDED</b>		<b>BOILER</b>		<b>SAFETY</b>							
Kelly Down Total 1948.00 Weight of DC 6.13 Weight of String 80.00		Hole Drag Up 3 Down 3 Torque At Bottom 6000 Fill On Bottom		Pump # Pressure Strokes/min Depth 1 4630 @ 78 @ 192.00 2 4680 @ 78 @ 192.00		Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 12.00 1160 1150 1620 Centrifuge #2 12.00 1160 1150 1620		Product Amount Type LIME 6 EACH CALCIUM CHLORIDE 10 EACH CALCIUM NITRATE 10 EACH ENERSCALE 1802 1 EACH ENERHIB 1 EACH CAUSTIC 1 EACH		BoilerNo HoursRun pH StackTemp 1 12.00 10.5 340 2 12.00 10.5 340		Safety Topic MEHL 3112 MACP							

TOUR 3 SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **20:00** END TIME **24:00**

<b>BITS</b>		<b>DRILLING ASSEMBLY</b>		<b>MUD RECORD</b>		<b>DEVIATION SURVEYS</b>		<b>TIME LOG</b>											
Bit Number 4	Size 200	No 1	Component PDC BIT	OD 200	ID 167	Length 1.850	Mud Type Water	Time 20:00	Depth 1934.61	Deviation 1.40	Direction 128.8	Type 2	From 20:00	To 23:00	Elapsed 3:00	Code 2	Details of Operations In Sequence & Remarks		
IADC Code	Manufacturer HALIBURTON	Type MMD64M	Serial No 12860042	Jts 7.9 7.9 8.7 8.7	Depth Out (m) 1902.00	Depth In (m) 1744.00	Total Drilled (m) 158.00	Hrs Run Today 3.00	Cumulative Hrs Run 19.25	Entry Date 21-Mar-2017	20:00 1934.61 1.40 128.8 21:30 1944.35 4.40 143.2 22:00 1954.65 7.10 130.2 22:45 1963.91 9.30 128.3 23:45 1973.64 11.50 126.8			DRILL 200MM BUILD SECTION FROM 1948M TO 1989M ACCUMULATED CONNECTIONS AND WORKING DRILL STRING, ORIENT TOOL FACE RIG SERVICE, FUNCTION LOWER PIPE RAMS (6 SECONDS TO CLOSE)					
<b>CUTTING STRUCTURE</b>		<b>HOLE CONDITION</b>		<b>REDUCED PUMP SPEED</b>		<b>SOLIDS CONTROL</b>		<b>MUD MATERIALS ADDED</b>		<b>BOILER</b>		<b>SAFETY</b>							
Kelly Down Total 1988.00 Weight of DC 8.19 Weight of String 79.00		Hole Drag Up 4 Down 6 Torque At Bottom 9100 Fill On Bottom		Pump # Pressure Strokes/min Depth 1 5130 @ 78 @ 195.00 2 5110 @ 78 @ 195.00		Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 4.00 1160 1150 1745 Centrifuge #2 4.00 1160 1150 1745		Product Amount Type CAL CARB 0 1 SX CAL CARB 325 1 SX ENERFIBER 2 SX		BoilerNo HoursRun pH StackTemp 1 4.00 10.5 340 2 4.00 10.5 340		Safety Topic MEHL 3112 MACP							

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number <b>PREC465 20170322 1A</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>03</b>	Day <b>22</b>	<b>DAILY CHECKS</b>	<b>OP RM</b>	
License No <b>32950</b>	Well Name <b>ARCRES HZ PARKLAND F11-04-081-16</b>	Surface Location <b>11-4-81-16 W6</b>	Prov <b>BC</b>	Loc Type <b>DLS</b>	Unique Well Id <b>102/16-34-080-16W6</b>	Run Log <b>HORIZ</b>	(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	AL RT RT RT RT RT	
Company <b>ARC Resources Ltd.</b>	Contractor <b>Precision Drilling, div of PDC</b>	Contractor's Job No <b>51</b>	465	Re-Entry <input type="checkbox"/>	Spud Date Time <b>18-Mar-2017</b>	11:30	(1) Rig Site Health & Safety Meeting (once/week/month) (2) CADCDC Rig Safety Inspection Checklist (once/week/month) (3) Mast Inspection before Raising or Lowering (4) Cover Saver Checked (5) Major Risks Checked	RT RT RT RT	
Signature of Operator's Representative <b>DOUG SHEA</b>	Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>								RT RT RT RT



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		6.00																								8.00	18439
Tour 2		9.25																								12.00	4566
Tour 3		2.75																								4.00	2
TOTAL		18.00																								24.00	

TOUR **1** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **0:00** END TIME **8:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>4</b> Size: <b>200</b> IADC Code: <b>16.5" MOTOR</b> Manufacturer: <b>HALIBURTON</b> Type: <b>1 6.5" GAP SUB</b> Serial No: <b>12860042</b> Jars: <b>7.9 7.9 8.7 8.7</b> Depth Out (m): <b>1902.00</b> Total Drilled (m): <b>163.00</b> Hrs Run Today: <b>6.00</b> Cumulative Hrs Run: <b>16.50</b> Entry Date: <b>21-Mar-2017</b>	No: <b>1</b> Component: <b>PDC BIT</b> OD: <b>200</b> ID: <b>1</b> Length: <b>0.25</b> No: <b>1</b> Component: <b>6.5" MOTOR</b> OD: <b>167</b> ID: <b>1</b> Length: <b>8.50</b> No: <b>1</b> Component: <b>6.5" NON MAG PONY</b> OD: <b>162</b> ID: <b>1</b> Length: <b>1.55</b> No: <b>1</b> Component: <b>6.5" NON MAG FLEX MODEL</b> OD: <b>163</b> ID: <b>1</b> Length: <b>9.03</b> No: <b>1</b> Component: <b>6.5" GAP SUB</b> OD: <b>163</b> ID: <b>1</b> Length: <b>1.66</b> No: <b>1</b> Component: <b>6.5" UBHO SUB</b> OD: <b>156</b> ID: <b>65</b> Length: <b>0.79</b> No: <b>3</b> Component: <b>6.5" NON MAG FLEX MODEL</b> OD: <b>163</b> ID: <b>1</b> Length: <b>27.45</b> No: <b>1</b> Component: <b>6.5" HYDMECH JARS</b> OD: <b>157</b> ID: <b>58</b> Length: <b>5.10</b> No: <b>1</b> Component: <b>6.5" X/O SUB</b> OD: <b>135</b> ID: <b>58</b> Length: <b>0.80</b> No: <b>48</b> Component: <b>4.5" HWDP</b> OD: <b>114</b> ID: <b>73</b> Length: <b>46.38</b>	Mud Type: <b>Water</b> <input checked="" type="checkbox"/> <b>Oil</b> <input type="checkbox"/> Time: <b>04:15</b> <b>05:45</b> Density: <b>1160</b> <b>1150</b> Funnel Viscosity: <b>30</b> <b>30</b> Fluid Loss: <b>11</b> <b>11</b> pH: <b>10.5</b> <b>10.5</b> Location Of Sample: <b>SHAKER</b> <b>SHAKER</b> Depth: <b>2026.00</b> <b>2043.00</b> PVT: <b>71</b> <b>68</b> Circulation Pump # Type Liner Size SPM Pressure Hrs Run <b>1</b> PARALLEL <b>127</b> <b>78</b> <b>19750</b> <b>7.50</b> <b>2</b> PARALLEL <b>127</b> <b>78</b> <b>19750</b> <b>7.50</b>	Time Depth Deviation Direction Type <b>01:00 1983.39 12.50 130.1</b> <b>02:00 1992.91 14.00 131.7</b> <b>03:15 2002.66 15.40 125.2</b> <b>04:00 2012.34 17.50 121</b> <b>05:15 2022.04 19.70 124.1</b> <b>06:00 2031.62 22.10 124.8</b>	From To Elapsed Code <b>0:00 2:15 2:25 2</b> <b>2:15 3:00 0:75 5</b> <b>3:00 3:15 0:25 7</b> <b>3:15 7:00 3:75 2</b> <b>7:00 7:45 0:75 5</b> <b>7:45 8:00 0:25 21</b>
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>BOILER</b>	<b>SAFETY</b>
Kelly Down: <b>-0.72</b> Total: <b>2065.00</b> Weight of DC: <b>9.88</b> Weight of String: <b>79.00</b>	Hole Drag Up: <b>4</b> Down: <b>6</b> Torque At Bottom: <b>9100</b> Fill On Bottom	Pump # Pressure Strokes/min Depth <b>1 4870 @ 78 @ 2017.00</b> <b>2 4850 @ 78 @ 2017.00</b>	BoilerNo HoursRun pH StackTemp <b>1 8.00 10.5 340</b> <b>2 8.00 10.5 340</b>	DISPLACING TO INVERT Safety Topic: <b>MEHL</b> <b>MACP</b>

TOUR **2** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **8:00** END TIME **20:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>4</b> Size: <b>200</b> IADC Code: <b>16.5" MOTOR</b> Manufacturer: <b>HALIBURTON</b> Type: <b>1 6.5" GAP SUB</b> Serial No: <b>12860042</b> Jars: <b>7.9 7.9 8.7 8.7</b> Depth Out (m): <b>1902.00</b> Total Drilled (m): <b>279.00</b> Hrs Run Today: <b>9.25</b> Cumulative Hrs Run: <b>25.75</b> Entry Date: <b>21-Mar-2017</b>	No: <b>1</b> Component: <b>PDC BIT</b> OD: <b>200</b> ID: <b>1</b> Length: <b>0.25</b> No: <b>1</b> Component: <b>6.5" MOTOR</b> OD: <b>167</b> ID: <b>1</b> Length: <b>8.50</b> No: <b>1</b> Component: <b>6.5" NON MAG PONY</b> OD: <b>162</b> ID: <b>1</b> Length: <b>1.55</b> No: <b>1</b> Component: <b>6.5" NON MAG FLEX MODEL</b> OD: <b>163</b> ID: <b>1</b> Length: <b>9.03</b> No: <b>1</b> Component: <b>6.5" GAP SUB</b> OD: <b>163</b> ID: <b>1</b> Length: <b>1.66</b> No: <b>1</b> Component: <b>6.5" UBHO SUB</b> OD: <b>156</b> ID: <b>65</b> Length: <b>0.79</b> No: <b>3</b> Component: <b>6.5" NON MAG FLEX MODEL</b> OD: <b>163</b> ID: <b>1</b> Length: <b>27.45</b> No: <b>1</b> Component: <b>6.5" HYDMECH JARS</b> OD: <b>157</b> ID: <b>58</b> Length: <b>5.10</b> No: <b>1</b> Component: <b>6.5" X/O SUB</b> OD: <b>135</b> ID: <b>58</b> Length: <b>0.80</b> No: <b>48</b> Component: <b>4.5" HWDP</b> OD: <b>114</b> ID: <b>73</b> Length: <b>46.38</b>	Mud Type: <b>Water</b> <input checked="" type="checkbox"/> <b>Oil</b> <input type="checkbox"/> Time: <b>10:15</b> <b>14:15</b> Density: <b>1155</b> <b>1155</b> Funnel Viscosity: <b>30</b> <b>30</b> Fluid Loss: <b>11</b> <b>11</b> pH: <b>11</b> <b>11</b> Location Of Sample: <b>SUCTION</b> <b>SUCTION</b> Depth: <b>2090.00</b> <b>2121.00</b> PVT: <b>68</b> <b>77</b> Circulation Pump # Type Liner Size SPM Pressure Hrs Run <b>1</b> PARALLEL <b>127</b> <b>87</b> <b>19750</b> <b>12.00</b> <b>2</b> PARALLEL <b>127</b> <b>87</b> <b>19750</b> <b>12.00</b>	Time Depth Deviation Direction Type <b>09:15 2060.76 28.90 122.6</b> <b>10:30 2070.36 31.10 124.3</b> <b>11:45 2079.96 33.10 125.5</b> <b>12:45 2089.72 35.00 127.1</b> <b>13:30 2099.42 36.80 125.6</b> <b>14:30 2108.94 38.60 125.1</b>	From To Elapsed Code <b>8:00 14:00 6:00 2</b> <b>14:00 16:00 2:00 5</b> <b>16:00 16:15 0:25 7</b> <b>16:15 19:30 3:25 2</b> <b>19:30 19:45 0:25 5</b> <b>19:45 20:00 0:25 21</b>
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>BOILER</b>	<b>SAFETY</b>
Kelly Down: <b>-0.34</b> Total: <b>2181.00</b> Weight of DC: <b>10.83</b> Weight of String: <b>83.00</b>	Hole Drag Up: <b>7</b> Down: <b>12</b> Torque At Bottom: <b>8800</b> Fill On Bottom	Pump # Pressure Strokes/min Depth <b>1 5620 @ 87 @ 2132.00</b> <b>2 5700 @ 87 @ 2132.00</b>	BoilerNo HoursRun pH StackTemp <b>1 12.00 10.5 340</b> <b>2 12.00 10.5 340</b>	DERRICK CONNECTIONS Safety Topic: <b>MEHL</b> <b>MACP</b>

TOUR **3** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **20:00** END TIME **24:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>4</b> Size: <b>200</b> IADC Code: <b>16.5" MOTOR</b> Manufacturer: <b>HALIBURTON</b> Type: <b>1 6.5" GAP SUB</b> Serial No: <b>12860042</b> Jars: <b>7.9 7.9 8.7 8.7</b> Depth Out (m): <b>1902.00</b> Total Drilled (m): <b>324.00</b> Hrs Run Today: <b>2.75</b> Cumulative Hrs Run: <b>28.50</b> Entry Date: <b>21-Mar-2017</b>	No: <b>1</b> Component: <b>PDC BIT</b> OD: <b>200</b> ID: <b>1</b> Length: <b>0.25</b> No: <b>1</b> Component: <b>6.5" MOTOR</b> OD: <b>167</b> ID: <b>1</b> Length: <b>8.50</b> No: <b>1</b> Component: <b>6.5" NON MAG PONY</b> OD: <b>162</b> ID: <b>1</b> Length: <b>1.55</b> No: <b>1</b> Component: <b>6.5" NON MAG FLEX MODEL</b> OD: <b>163</b> ID: <b>1</b> Length: <b>9.03</b> No: <b>1</b> Component: <b>6.5" GAP SUB</b> OD: <b>163</b> ID: <b>1</b> Length: <b>1.66</b> No: <b>1</b> Component: <b>6.5" UBHO SUB</b> OD: <b>156</b> ID: <b>65</b> Length: <b>0.79</b> No: <b>3</b> Component: <b>6.5" NON MAG FLEX MODEL</b> OD: <b>163</b> ID: <b>1</b> Length: <b>27.45</b> No: <b>1</b> Component: <b>6.5" HYDMECH JARS</b> OD: <b>157</b> ID: <b>58</b> Length: <b>5.10</b> No: <b>1</b> Component: <b>6.5" X/O SUB</b> OD: <b>135</b> ID: <b>58</b> Length: <b>0.80</b> No: <b>48</b> Component: <b>4.5" HWDP</b> OD: <b>114</b> ID: <b>73</b> Length: <b>46.38</b>	Mud Type: <b>Water</b> <input checked="" type="checkbox"/> <b>Oil</b> <input type="checkbox"/> Time: <b>23:15</b> Density: <b>1160</b> Funnel Viscosity: <b>30</b> Fluid Loss: <b>11</b> pH: <b>11</b> Location Of Sample: <b>TANK 2</b> Depth: <b>2215.00</b> PVT: <b>83</b> Circulation Pump # Type Liner Size SPM Pressure Hrs Run <b>1</b> PARALLEL <b>127</b> <b>87</b> <b>20450</b> <b>3.50</b> <b>2</b> PARALLEL <b>127</b> <b>87</b> <b>20450</b> <b>3.50</b>	Time Depth Deviation Direction Type <b>20:00 2166.84 52.30 128</b> <b>21:00 2176.55 54.60 124.8</b> <b>22:00 2186.26 56.60 124.4</b> <b>22:45 2196.03 57.40 122.8</b> <b>23:45 2205.68 60.70 122.9</b>	From To Elapsed Code <b>20:00 22:45 2:75 2</b> <b>22:45 23:45 1:00 5</b> <b>23:45 24:00 0:25 7</b>
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>BOILER</b>	<b>SAFETY</b>
Kelly Down: <b>-3.90</b> Total: <b>2226.00</b> Weight of DC: <b>11.37</b> Weight of String: <b>82.00</b>	Hole Drag Up: <b>8</b> Down: <b>12</b> Torque At Bottom: <b>11100</b> Fill On Bottom	Pump # Pressure Strokes/min Depth <b>1 5790 @ 87 @ 2239.00</b> <b>2 5770 @ 87 @ 2239.00</b>	BoilerNo HoursRun pH StackTemp <b>1 4.00 10.5 340</b> <b>2 4.00 10.5 340</b>	DERRICK CONNECTIONS Safety Topic: <b>MEHL</b> <b>MACP</b>



<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number PREC465 20170322 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 22	<b>DAILY CHECKS</b>	<b>OP RM</b>
License No 32950	Well Name ARCRES HZ PARKLAND F11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 102/16-34-080-16W6	ReEntry <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	AL RT AL RT AL RT AL RT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor Job No 51	Rig No 465	Well Type HORIZ	Squad Date Time 18-Mar-2017	11:30	(1) Rig Site Health & Safety Meeting (once/week/month) (2) CAODC Rig Safety Inspection Checklist (once/week/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked	RT RT



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 18439 4566	WEATHER OVERCAST Wind Direction Wind Strength CALM			
	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other						
	Tour 1	6.00				1.50		0.25																					8.00	Time 06:00	Temp -2
	Tour 2	9.25				2.25		0.25																					12.00	Current Conditions	
	Tour 3	2.75				1.00		0.25																					4.00	Wind Direction	Wind Strength
TOTAL	18.00				4.75		0.75																		24.00	Weather	Wind Strength				

TOUR 1 SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME 0:00 END TIME 8:00

BITS	Bit Number	4	DRILLING ASSEMBLY	No	Component	OD	ID	Length	MUD RECORD	Mud Type	Water	Oil	DEVIATION SURVEYS	Time	Depth	Deviation	Direction	Type	TIME LOG	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks																	
	Size	200		IADC Code		Manufacturer	HALIBURTON	Type		1 PDC BIT	Serial No	12860042		Jct	7.9 7.9 8.7 8.7	Depth Out (m)	1902.00	Depth In (m)		163.00	Total Drilled (m)	163.00	Hrs Run Today		6.00	Cumulative Hrs Run	16.50	Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety	
	IADC Code			Manufacturer	HALIBURTON	Type	1 PDC BIT	Serial No		12860042	Jct	7.9 7.9 8.7 8.7		Depth Out (m)	1902.00	Depth In (m)	163.00	Total Drilled (m)		163.00	Hrs Run Today	6.00	Cumulative Hrs Run		16.50	Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety			
	Manufacturer	HALIBURTON		Type	1 PDC BIT	Serial No	12860042	Jct		7.9 7.9 8.7 8.7	Depth Out (m)	1902.00		Depth In (m)	163.00	Total Drilled (m)	163.00	Hrs Run Today		6.00	Cumulative Hrs Run	16.50	Entry Date		21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety					
	Type	1 PDC BIT		Serial No	12860042	Jct	7.9 7.9 8.7 8.7	Depth Out (m)		1902.00	Depth In (m)	163.00		Total Drilled (m)	163.00	Hrs Run Today	6.00	Cumulative Hrs Run		16.50	Entry Date	21-Mar-2017	Cutting Structure			Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety							
	Serial No	12860042		Jct	7.9 7.9 8.7 8.7	Depth Out (m)	1902.00	Depth In (m)		163.00	Total Drilled (m)	163.00		Hrs Run Today	6.00	Cumulative Hrs Run	16.50	Entry Date		21-Mar-2017	Cutting Structure		Metres Drilled			Hole Condition		Reduced Pump Speed		Boiler		Safety									
	Jct	7.9 7.9 8.7 8.7		Depth Out (m)	1902.00	Depth In (m)	163.00	Total Drilled (m)		163.00	Hrs Run Today	6.00		Cumulative Hrs Run	16.50	Entry Date	21-Mar-2017	Cutting Structure			Metres Drilled		Hole Condition			Reduced Pump Speed		Boiler		Safety											
	Depth Out (m)	1902.00		Depth In (m)	163.00	Total Drilled (m)	163.00	Hrs Run Today		6.00	Cumulative Hrs Run	16.50		Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled			Hole Condition		Reduced Pump Speed			Boiler		Safety													
	Depth In (m)	163.00		Total Drilled (m)	163.00	Hrs Run Today	6.00	Cumulative Hrs Run		16.50	Entry Date	21-Mar-2017		Cutting Structure		Metres Drilled		Hole Condition			Reduced Pump Speed		Boiler			Safety															
	Total Drilled (m)	163.00		Hrs Run Today	6.00	Cumulative Hrs Run	16.50	Entry Date		21-Mar-2017	Cutting Structure			Metres Drilled		Hole Condition		Reduced Pump Speed			Boiler		Safety																		
Hrs Run Today	6.00	Cumulative Hrs Run	16.50	Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																									
Cumulative Hrs Run	16.50	Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																											
Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																													
Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																															
Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																																	
Hole Condition		Reduced Pump Speed		Boiler		Safety																																			
Reduced Pump Speed		Boiler		Safety																																					
Boiler		Safety																																							
Safety																																									

TOUR 2 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME 8:00 END TIME 20:00

BITS	Bit Number	4	DRILLING ASSEMBLY	No	Component	OD	ID	Length	MUD RECORD	Mud Type	Water	Oil	DEVIATION SURVEYS	Time	Depth	Deviation	Direction	Type	TIME LOG	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks																	
	Size	200		IADC Code		Manufacturer	HALIBURTON	Type		1 PDC BIT	Serial No	12860042		Jct	7.9 7.9 8.7 8.7	Depth Out (m)	1902.00	Depth In (m)		279.00	Total Drilled (m)	279.00	Hrs Run Today		9.25	Cumulative Hrs Run	25.75	Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety	
	IADC Code			Manufacturer	HALIBURTON	Type	1 PDC BIT	Serial No		12860042	Jct	7.9 7.9 8.7 8.7		Depth Out (m)	1902.00	Depth In (m)	279.00	Total Drilled (m)		279.00	Hrs Run Today	9.25	Cumulative Hrs Run		25.75	Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety			
	Manufacturer	HALIBURTON		Type	1 PDC BIT	Serial No	12860042	Jct		7.9 7.9 8.7 8.7	Depth Out (m)	1902.00		Depth In (m)	279.00	Total Drilled (m)	279.00	Hrs Run Today		9.25	Cumulative Hrs Run	25.75	Entry Date		21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety					
	Type	1 PDC BIT		Serial No	12860042	Jct	7.9 7.9 8.7 8.7	Depth Out (m)		1902.00	Depth In (m)	279.00		Total Drilled (m)	279.00	Hrs Run Today	9.25	Cumulative Hrs Run		25.75	Entry Date	21-Mar-2017	Cutting Structure			Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety							
	Serial No	12860042		Jct	7.9 7.9 8.7 8.7	Depth Out (m)	1902.00	Depth In (m)		279.00	Total Drilled (m)	279.00		Hrs Run Today	9.25	Cumulative Hrs Run	25.75	Entry Date		21-Mar-2017	Cutting Structure		Metres Drilled			Hole Condition		Reduced Pump Speed		Boiler		Safety									
	Jct	7.9 7.9 8.7 8.7		Depth Out (m)	1902.00	Depth In (m)	279.00	Total Drilled (m)		279.00	Hrs Run Today	9.25		Cumulative Hrs Run	25.75	Entry Date	21-Mar-2017	Cutting Structure			Metres Drilled		Hole Condition			Reduced Pump Speed		Boiler		Safety											
	Depth Out (m)	1902.00		Depth In (m)	279.00	Total Drilled (m)	279.00	Hrs Run Today		9.25	Cumulative Hrs Run	25.75		Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled			Hole Condition		Reduced Pump Speed			Boiler		Safety													
	Depth In (m)	279.00		Total Drilled (m)	279.00	Hrs Run Today	9.25	Cumulative Hrs Run		25.75	Entry Date	21-Mar-2017		Cutting Structure		Metres Drilled		Hole Condition			Reduced Pump Speed		Boiler			Safety															
	Total Drilled (m)	279.00		Hrs Run Today	9.25	Cumulative Hrs Run	25.75	Entry Date		21-Mar-2017	Cutting Structure			Metres Drilled		Hole Condition		Reduced Pump Speed			Boiler		Safety																		
Hrs Run Today	9.25	Cumulative Hrs Run	25.75	Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																									
Cumulative Hrs Run	25.75	Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																											
Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																													
Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																															
Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																																	
Hole Condition		Reduced Pump Speed		Boiler		Safety																																			
Reduced Pump Speed		Boiler		Safety																																					
Boiler		Safety																																							
Safety																																									

TOUR 3 SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME 20:00 END TIME 24:00

BITS	Bit Number	4	DRILLING ASSEMBLY	No	Component	OD	ID	Length	MUD RECORD	Mud Type	Water	Oil	DEVIATION SURVEYS	Time	Depth	Deviation	Direction	Type	TIME LOG	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks																	
	Size	200		IADC Code		Manufacturer	HALIBURTON	Type		1 PDC BIT	Serial No	12860042		Jct	7.9 7.9 8.7 8.7	Depth Out (m)	1902.00	Depth In (m)		324.00	Total Drilled (m)	324.00	Hrs Run Today		2.75	Cumulative Hrs Run	28.50	Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety	
	IADC Code			Manufacturer	HALIBURTON	Type	1 PDC BIT	Serial No		12860042	Jct	7.9 7.9 8.7 8.7		Depth Out (m)	1902.00	Depth In (m)	324.00	Total Drilled (m)		324.00	Hrs Run Today	2.75	Cumulative Hrs Run		28.50	Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety			
	Manufacturer	HALIBURTON		Type	1 PDC BIT	Serial No	12860042	Jct		7.9 7.9 8.7 8.7	Depth Out (m)	1902.00		Depth In (m)	324.00	Total Drilled (m)	324.00	Hrs Run Today		2.75	Cumulative Hrs Run	28.50	Entry Date		21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety					
	Type	1 PDC BIT		Serial No	12860042	Jct	7.9 7.9 8.7 8.7	Depth Out (m)		1902.00	Depth In (m)	324.00		Total Drilled (m)	324.00	Hrs Run Today	2.75	Cumulative Hrs Run		28.50	Entry Date	21-Mar-2017	Cutting Structure			Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety							
	Serial No	12860042		Jct	7.9 7.9 8.7 8.7	Depth Out (m)	1902.00	Depth In (m)		324.00	Total Drilled (m)	324.00		Hrs Run Today	2.75	Cumulative Hrs Run	28.50	Entry Date		21-Mar-2017	Cutting Structure		Metres Drilled			Hole Condition		Reduced Pump Speed		Boiler		Safety									
	Jct	7.9 7.9 8.7 8.7		Depth Out (m)	1902.00	Depth In (m)	324.00	Total Drilled (m)		324.00	Hrs Run Today	2.75		Cumulative Hrs Run	28.50	Entry Date	21-Mar-2017	Cutting Structure			Metres Drilled		Hole Condition			Reduced Pump Speed		Boiler		Safety											
	Depth Out (m)	1902.00		Depth In (m)	324.00	Total Drilled (m)	324.00	Hrs Run Today		2.75	Cumulative Hrs Run	28.50		Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled			Hole Condition		Reduced Pump Speed			Boiler		Safety													
	Depth In (m)	324.00		Total Drilled (m)	324.00	Hrs Run Today	2.75	Cumulative Hrs Run		28.50	Entry Date	21-Mar-2017		Cutting Structure		Metres Drilled		Hole Condition			Reduced Pump Speed		Boiler			Safety															
	Total Drilled (m)	324.00		Hrs Run Today	2.75	Cumulative Hrs Run	28.50	Entry Date		21-Mar-2017	Cutting Structure			Metres Drilled		Hole Condition		Reduced Pump Speed			Boiler		Safety																		
Hrs Run Today	2.75	Cumulative Hrs Run	28.50	Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																									
Cumulative Hrs Run	28.50	Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																											
Entry Date	21-Mar-2017	Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																													
Cutting Structure		Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																															
Metres Drilled		Hole Condition		Reduced Pump Speed		Boiler		Safety																																	
Hole Condition		Reduced Pump Speed		Boiler		Safety																																			
Reduced Pump Speed		Boiler		Safety																																					
Boiler		Safety																																							
Safety																																									



FRONT PAGE SUMMARY

Tour Sheet Serial Number: PREC465 20170323 1B
Vendor Software Version: RMS 2016.8.30.38074
Year: 2017 03 23
License No: 32950
Well Name: ARCRES HZ PARKLAND F11-04-081-16
Surface Location: 11-4-81-16 W6
Pro: BC
Lic Type: DLS
Well Type: HORIZ
Contractor: Precision Drilling, div of PDC
Company Job No: 465
Squad Date Time: 18-Mar-2017
Rig Release Date Time: 11:30

DAILY CHECKS table with columns for check number and status (DS, RT, etc.).



Hourly summary table with columns: Code, Tour, Hours, Drilling, Reaming, Coring, Cement Mud & Circ, Trips, Rig Service, Repair Rig, Cut Off Dring Line, Dev Survey, Wireline Log, Run Cap & Cement, Wait On Cement, Nightie BOP, Test BOP, Driftstem Test, Plug Back, Squeeze Cement, Fishing, Dir Work, Safety Meeting, Tear Down, Waiting On, Rig Watch, Other, TOTAL, FUEL @ 08:00 HRS.

TOUR 1 SIGNATURE OF DRILLER: ERIC OBRIEN START TIME: 0:00 END TIME: 8:00

TOUR 1 detailed data section including BITS (4 PDC BIT, 200 size), DRILLING ASSEMBLY, MUD RECORD (Mud Type: Water), DEVIATION SURVEYS, TIME LOG (2:00-3:00), METRES DRILLED, HOLE CONDITION (10 Down 13 Up), REDUCED PUMP SPEED, MUD MATERIALS ADDED (CES SECONDARY, CES WETTER, ENERMUL P-100, LIME, ENERTONE-D), SOLIDS CONTROL, and BOILER logs.

TOUR 2 SIGNATURE OF DRILLER: RYAN NEWTON START TIME: 8:00 END TIME: 20:00

TOUR 2 detailed data section including BITS (4 PDC BIT, 200 size), DRILLING ASSEMBLY, MUD RECORD (Mud Type: Water), DEVIATION SURVEYS, TIME LOG (8:00-11:15), METRES DRILLED, HOLE CONDITION (8 Down 10 Up), REDUCED PUMP SPEED, MUD MATERIALS ADDED (BARITE, ENERSLIDE C, GRAPHITE), SOLIDS CONTROL, and BOILER logs.

TOUR 3 SIGNATURE OF DRILLER: ERIC OBRIEN START TIME: 20:00 END TIME: 24:00

TOUR 3 detailed data section including BITS (4 PDC BIT, 200 size), DRILLING ASSEMBLY, MUD RECORD (Mud Type: Water), DEVIATION SURVEYS, TIME LOG (20:00-20:15), METRES DRILLED, HOLE CONDITION (8 Down 10 Up), REDUCED PUMP SPEED, MUD MATERIALS ADDED, SOLIDS CONTROL, and BOILER logs.

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number PREC465 20170323 1B	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 23	<b>DAILY CHECKS</b>	<b>OP RM</b>	
License No 32950	Well Name ARCRS HZ PARKLAND F11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 102/16-34-080-16W6	Rig No 465	Well Type HORIZ	<input type="checkbox"/> (1) Daily Walk Around Inspection <input type="checkbox"/> (2) Disabled Inspection - Weekly (Using Check List) <input type="checkbox"/> (3) H2S Signs Posted if Required <input type="checkbox"/> (4) Well Licence & Stick Diagram Posted <input type="checkbox"/> (5) Flare Lines Staked <input type="checkbox"/> (6) BOP Tests Performed <input type="checkbox"/> (7) Visually Inspected BOPs-Flare Lines & Degasser Lines <input type="checkbox"/> (8) Rig Site Health & Safety Meeting (once/week/month) <input type="checkbox"/> (9) CAODC Rig Safety Inspection Checklist (once/week/month) <input type="checkbox"/> (10) Mast Inspection before Raising or Lowering <input type="checkbox"/> (11) Crown Saver Checked <input type="checkbox"/> (12) Motor Vibs Checked	DS RT DS RT DS RT DS RT RT RT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No 51	Squad Date Time 18-Mar-2017	Rig Release Date Time 11:30	(1) Rig Site Health & Safety Meeting (once/week/month) (2) CAODC Rig Safety Inspection Checklist (once/week/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked				DS RT DS RT DS RT DS RT RT RT
Operator 17DR0047	Signature of Operator's Representative DOUG SHEA	Signature of Contractor's Rig Manager ROD TOMPKINS							DS RT DS RT DS RT DS RT RT RT



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	FUEL @ 08:00 HRS	WEATHER
Tour 1		5.50			2.00		0.25																			8.00	12942	4566
Tour 2		3.25			2.00	3.75	0.25				1.00											1.25				12.00	06:00	-3
Tour 3																										4.00	OVERCAST	
TOTAL		8.75			4.00	3.75	0.50				4.75											1.25				24.00	FAIR	Wind Strength CALM

TOUR 1 SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME 0:00 END TIME 8:00

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: 4 Size: 200 IADC Code: HALIBURTON Manufacturer: HALIBURTON Type: 1 6.5" NON MAG PONY Serial No: 12860042 Jts: 7.9 7.9 8.7 8.7 Depth Out (m): 1902.00 Total Drilled (m): 401.00 Hrs Run Today: 5.50 Cumulative Hrs Run: 34.00 Entry Date: 21-Mar-2017	No. Component OD ID Length 1 PDC BIT 200 1 0.25 1 6.5" MOTOR 167 1 8.50 1 6.5" NON MAG PONY 162 72 1.55 1 6.5" NON MAG FLEX MONEL 163 72 9.03 1 6.5" GAP SUB 163 1 1.66 1 6.5" UBHO SUB 156 65 0.79 3 6.5" NON MAG FLEX MONEL 163 72 27.47 1 6.5" HYDMECH JARS 157 58 5.10 1 6.5" X/O SUB 135 58 0.80 48 4.5" HWDP 114 73 46.88	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 06:45 2273.88 78.30 123.1 07:30 2283.56 79.10 121.9 Density: Funnel Viscosity: Fluid Loss: pH: Location Of Sample: Depth: PVT: Circulation: Pump # Type Liner Size SPM Pressure Hs Run 1 PARALLEL 127 87 29850 7.50 2 PARALLEL 127 87 29850 7.50	Time Depth Deviation Direction Type 06:45 2273.88 78.30 123.1 07:30 2283.56 79.10 121.9 SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 3.00 1220 1080 1720 MUD MATERIALS ADDED Product Amount Type	From To Elapsed Code Details Of Operations In Sequence & Remarks FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS & LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS & LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS, FUNCTION CHOKE, FLARE STACK IGNITOR, MANIFOLD VALVES AND LINES HAZARD IDS - SHOVEL AND SQUEEGEE BARRIED IN SNOW BY MUD TANKS, PICKED THEM UP AND PUT THEM AWAY SO THEY WOULDN'T BE A TRIPPING HAZARD SAFETY Safety Topic MEHL MACP HIGH ANGLE RESCUE DRILL 110 3112

TOUR 2 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME 8:00 END TIME 20:00

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: 4 Size: 200 IADC Code: HALIBURTON Manufacturer: HALIBURTON Type: 1 6.5" NON MAG PONY Serial No: 12860042 Jts: 7.9 7.9 8.7 8.7 Depth Out (m): 2346.00 Total Drilled (m): 1902.00 Hrs Run Today: 3.25 Cumulative Hrs Run: 37.25 Entry Date: 21-Mar-2017	No. Component OD ID Length 1 PDC BIT 200 1 0.25 1 6.5" MOTOR 167 1 8.50 1 6.5" NON MAG PONY 162 72 1.55 1 6.5" NON MAG FLEX MONEL 163 72 9.03 1 6.5" GAP SUB 163 1 1.66 1 6.5" UBHO SUB 156 65 0.79 3 6.5" NON MAG FLEX MONEL 163 72 27.47 1 6.5" HYDMECH JARS 157 58 5.10 1 6.5" X/O SUB 135 58 0.80 48 4.5" HWDP 114 73 46.88	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 08:10 2710.00 87.00 229.00 08:40 2710.00 87.00 229.00 Density: Funnel Viscosity: Fluid Loss: pH: Location Of Sample: Depth: PVT: Circulation: Pump # Type Liner Size SPM Pressure Hs Run 1 PARALLEL 127 87 29000 6.00 2 PARALLEL 127 87 29000 6.00	Time Depth Deviation Direction Type 08:10 2710.00 87.00 229.00 08:40 2710.00 87.00 229.00 SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 5.00 1210 1180 1640 MUD MATERIALS ADDED Product Amount Type	From To Elapsed Code Details Of Operations In Sequence & Remarks FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS & LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS & LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS, FUNCTION CHOKE, FLARE STACK IGNITOR, MANIFOLD VALVES AND LINES HAZARD ID: BRIDGE GATE HANDLE FOR TROUGH ON MUDTANKS TO CLOSE TO SHALE SHAKER CAUSING BONE CRUNCHING, FINGER LACERATING, COMP CAUSING SAFETY Safety Topic MEHL MACP FIRE DRILL 98 3112

TOUR 3 SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME 20:00 END TIME 24:00

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: Size: IADC Code: Manufacturer: Type: Serial No: Jts: Depth Out (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:	No. Component OD ID Length 1 PDC BIT 200 1 0.25 1 6.5" MOTOR 167 1 8.50 1 6.5" NON MAG PONY 162 72 1.55 1 6.5" NON MAG FLEX MONEL 163 72 9.03 1 6.5" GAP SUB 163 1 1.66 1 6.5" UBHO SUB 156 65 0.79 3 6.5" NON MAG FLEX MONEL 163 72 27.47 1 6.5" HYDMECH JARS 157 58 5.10 1 6.5" X/O SUB 135 58 0.80 48 4.5" HWDP 114 73 46.88	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: Density: Funnel Viscosity: Fluid Loss: pH: Location Of Sample: Depth: PVT: Circulation: Pump # Type Liner Size SPM Pressure Hs Run 1 PARALLEL 127 87 29000 6.00 2 PARALLEL 127 87 29000 6.00	Time Depth Deviation Direction Type SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 5.00 1210 1180 1640 MUD MATERIALS ADDED Product Amount Type	From To Elapsed Code Details Of Operations In Sequence & Remarks FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS & LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS & LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS, FUNCTION CHOKE, FLARE STACK IGNITOR, MANIFOLD VALVES AND LINES LOGGING CERTS, TOP SHEAVE - RG29 NOV. 10 2017, BOTTOM SHEAVE - RF11 NOV. 10 2017 SAFETY Safety Topic MEHL MACP LOGGING 3112

FRONT PAGE SUMMARY		Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day	DAILY CHECKS		OP	RM
License No 32950	Well Name ARCRES HZ PARKLAND F11-04-081-16	PREC465 20170324 1A	RMS 2016.8.30.38074	2017	03	24	(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 Baked (6) H2S Tests Performed (7) Visually Inspected BOP's Flare Lines & Degasser Lines	PA	RT	
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Surface Location 11-4-81-16 W6	Plow BC	Loc Type DLS	Unique Well Id 102/16-34-080-16W6	ReEntry <input type="checkbox"/>	(1) Rig Site Health & Safety Meeting (once/week/month) (2) CAODC Rig Safety Inspection Checklist (once/week/month) (3) Mast Inspection before Raising or Lowering (4) Cover Sliver Checked (5) Motor Vibs Checked	PA	RT	
Operator 17DR0047	Company Job No 51	Rig No 465	Well Type HORIZ	Spoil Date Time 18-Mar-2017	Rig Release Date Time 11:30			PA	RT	
Signature of Operator's Representative PAUL BOUTILLIER	Signature of Contractor's Rig Manager ROD TOMPKINS							PA	RT	



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							3.50					0.50			1.75											8.00	42020
Tour 2	8.00						3.50					0.25														12.00	06:00
Tour 3	3.00						0.75					0.25														4.00	06:00
TOTAL	11.00						4.25					3.50			0.50											24.00	06:00

TOUR 1 SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME 0:00 END TIME 8:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 5	Size 159	No 1	Component BIT	OD 159	ID 122	Mud Type Water	Time 1:02.1	From 0:00	To 0:15
IADC Code REED	Manufacturer SK413M	No 1	Component 1 5" GAP SUB	OD 126	ID 70	Water <input checked="" type="checkbox"/>	Time 1:02.1	To 2:00	Elapsed 1:15
Type SK413M	Serial No 231878	No 1	Component 1 5" MYDMECH JARS	OD 130	ID 60	Oil <input type="checkbox"/>	Time 1:02.1	To 2:15	Code 21A
Jars 9.5 9.5	Depth Out (m) 2346.00	No 1	Component 1 4.75" CROSSOVER SUB	OD 133	ID 60	Other <input type="checkbox"/>	Time 1:02.1	To 3:15	Code 20D
Depth In (m) 2346.00	Total Drilled (m) 585.00	No 1	Component 1 4.75" CROSSOVER SUB	OD 133	ID 60		Time 1:02.1	To 3:45	Code 6A
Hrs Run Today 0.00	Cumulative Hrs Run 0.00	No 1	Component 1 4.75" CROSSOVER SUB	OD 133	ID 60		Time 1:02.1	To 4:00	Code 15B
Entry Date 24-Mar-2017	Entry Date 24-Mar-2017	No 1	Component 1 4.75" CROSSOVER SUB	OD 133	ID 60		Time 1:02.1	To 4:15	Code 21
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		BOILER	
Kelly Down -16.59		Hole Drag Up 3 Down 5		Pump # Pressure Strokes/min Depth 1 127 104 23000 1.00		Product Amount Type 1 8.00 10.5 340		BoilerNo HoursRun pH StackTemp 1 8.00 10.5 340	
MDC 73.1		Torque At Bottom 10200		Remarks Circulation		ENERMUL P-100 CES SECONDARY LIME CES WETTER ENERTONE-D		SAFETY MEHL 2930 MACP	

TOUR 2 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME 8:00 END TIME 20:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 5	Size 159	No 1	Component BIT	OD 159	ID 122	Mud Type Water	Time 1:02.1	From 8:00	To 12:00
IADC Code REED	Manufacturer SK413M	No 1	Component 1 5" GAP SUB	OD 126	ID 70	Water <input checked="" type="checkbox"/>	Time 1:02.1	To 14:15	Elapsed 6:15
Type SK413M	Serial No 231878	No 1	Component 1 4.75" SLIDE REAMER	OD 126	ID 60	Oil <input type="checkbox"/>	Time 1:02.1	To 18:30	Code 2
Jars 9.5 9.5	Depth Out (m) 2346.00	No 1	Component 1 4.75" CROSSOVER SUB	OD 133	ID 60	Other <input type="checkbox"/>	Time 1:02.1	To 20:00	Code 21
Depth In (m) 2346.00	Total Drilled (m) 846.00	No 1	Component 1 4.75" CROSSOVER SUB	OD 133	ID 60		Time 1:02.1	To 23:00	Code 7
Hrs Run Today 8.00	Cumulative Hrs Run 8.00	No 1	Component 1 4.75" CROSSOVER SUB	OD 133	ID 60		Time 1:02.1	To 23:45	Code 5
Entry Date 24-Mar-2017	Entry Date 24-Mar-2017	No 1	Component 1 4.75" CROSSOVER SUB	OD 133	ID 60		Time 1:02.1	To 24:00	Code 7
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		BOILER	
Kelly Down -1.65		Hole Drag Up 5 Down 7		Pump # Pressure Strokes/min Depth 1 5050 @ 53 @ 297.00		Product Amount Type 2 BBL 2 BBL 35 SXS 2 BBL 2 SXS		BoilerNo HoursRun pH StackTemp 1 12.00 10.5 340	
MDC 73.1		Torque At Bottom 10200		Remarks Circulation		ENERMUL P-100 CES SECONDARY LIME CES WETTER ENERTONE-D		SAFETY MEHL 2975 MACP	

TOUR 3 SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME 20:00 END TIME 24:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 5	Size 159	No 1	Component BIT	OD 159	ID 122	Mud Type Water	Time 1:02.1	From 20:00	To 23:00
IADC Code REED	Manufacturer SK413M	No 1	Component 1 5" GAP SUB	OD 126	ID 70	Water <input checked="" type="checkbox"/>	Time 1:02.1	To 23:45	Elapsed 3:45
Type SK413M	Serial No 231878	No 1	Component 1 4.75" SLIDE REAMER	OD 126	ID 60	Oil <input type="checkbox"/>	Time 1:02.1	To 24:00	Code 7
Jars 9.5 9.5	Depth Out (m) 2346.00	No 1	Component 1 4.75" CROSSOVER SUB	OD 133	ID 60	Other <input type="checkbox"/>	Time 1:02.1	To 24:00	Code 7
Depth In (m) 2346.00	Total Drilled (m) 846.00	No 1	Component 1 4.75" CROSSOVER SUB	OD 133	ID 60		Time 1:02.1	To 24:00	Code 7
Hrs Run Today 3.00	Cumulative Hrs Run 11.00	No 1	Component 1 4.75" CROSSOVER SUB	OD 133	ID 60		Time 1:02.1	To 24:00	Code 7
Entry Date 24-Mar-2017	Entry Date 24-Mar-2017	No 1	Component 1 4.75" CROSSOVER SUB	OD 133	ID 60		Time 1:02.1	To 24:00	Code 7
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		BOILER	
Kelly Down -7.11		Hole Drag Up 8 Down 13		Pump # Pressure Strokes/min Depth 2 6140 @ 56 @ 297.00		Product Amount Type 2 BBL 2 BBL 35 SXS 2 BBL 2 SXS		BoilerNo HoursRun pH StackTemp 1 4.00 10.5 340	
MDC 76.91		Torque At Bottom 11400		Remarks Circulation		ENERMUL P-100 CES SECONDARY LIME CES WETTER ENERTONE-D		SAFETY MEHL 2930 MACP	





FRONT PAGE SUMMARY

License No: 32950, Well Name: ARCREZ HZ PARKLAND F11-04-081-16, Compressor: Precision Drilling, div of PDC, Contractor: JOC No: 465, Well Type: HORIZ, Spud Date: 18-Mar-2017, Rig Release Date: 11-30

DAILY CHECKS: (1) Daily Walk Around Inspection, (2) Detailed Inspection - Weibly (Using Check List), (3) H2S Signs Posted if Required, (4) Well License & Stick Diagram Posted, (5) Flare Lines Baked, (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 (once/monthly), (10) Mast Inspection before Raising or Lowering, (11) Cover Saver Checked, (12) Major Vibs Checked



Table with 25 columns (Code 1-25) and 10 rows (Tour 1-3, TOTAL). Columns include Rig MP, Drill Actual, Reaming, Coiling, Core Mud & Circ, Tips, Rig Service, Repair Rig, Cut Off Drill Line, Dev Survey, Wireline Logs, Run Cag & Cement, Wait On Cement, Night/BOP, Test BOP, Drillstem Test, Plug Back, Squeeze Cement, Fishing, Dir Work, Safety Meeting, Tear Down, Walking On, Rig Watch, Other. Totals: 11.00, 8.00, 3.00, 0.75, 3.50, 0.50, 0.50, 0.50, 1.75, 0.25, 1.00, 1.00, 4.00, 24.00.

FUEL @ 08:00 HRS: 42020, 4566. WEATHER: Clear, Wind Direction, Wind Strength, Road Condition: FAIR.

TOUR 1 SIGNATURE OF DRILLER: ERIC OBRIEN, START TIME: 0:00, END TIME: 8:00

TOUR 2 SIGNATURE OF DRILLER: RYAN NEWTON, START TIME: 8:00, END TIME: 20:00. Includes sections for BITS (5), DRILLING ASSEMBLY (1 BIT, 1 GAP SUB, 2 4.5" DP), MUD RECORD (Mud Type: Water, Oil), DEVIATION SURVEYS, TIME LOG, SOLIDS CONTROL, MUD MATERIALS ADDED, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, BOILER, SAFETY, MAKING UP TOOLS.

TOUR 3 SIGNATURE OF DRILLER: ERIC OBRIEN, START TIME: 20:00, END TIME: 24:00

TOUR 4 SIGNATURE OF DRILLER: ERIC OBRIEN, START TIME: 24:00, END TIME: 0:00. Includes sections for BITS (5), DRILLING ASSEMBLY (1 BIT, 1 GAP SUB, 2 4.5" DP), MUD RECORD (Mud Type: Water, Oil), DEVIATION SURVEYS, TIME LOG, SOLIDS CONTROL, MUD MATERIALS ADDED, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, BOILER, SAFETY, CLEANING AND SCRUBBING.

TOUR 5 SIGNATURE OF DRILLER: ERIC OBRIEN, START TIME: 0:00, END TIME: 8:00. Includes sections for BITS (5), DRILLING ASSEMBLY (1 BIT, 1 GAP SUB, 2 4.5" DP), MUD RECORD (Mud Type: Water, Oil), DEVIATION SURVEYS, TIME LOG, SOLIDS CONTROL, MUD MATERIALS ADDED, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, BOILER, SAFETY, DERRICK CONNECTIONS.



<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number <b>PREC465 20170324 1A</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>03</b>	Day <b>24</b>	<b>DAILY CHECKS</b>	OP RM	
License No <b>32950</b>	Well Name <b>ARCRES HZ PARKLAND F11-04-081-16</b>	Surface Location <b>11-4-81-16 W6</b>	Prov <b>BC</b>	Loc Type <b>DLS</b>	Unique Well Id <b>102/16-34-080-16W6</b>	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 Licence & Stick Diagram Posted (5) Flare Lines Scaled (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines	PA RT PB RT PC RT PD RT PE RT PF RT PG RT PH RT PI RT PJ RT PK RT PL RT PM RT PN RT PO RT PP RT PQ RT PR RT PS RT PT RT	
Company <b>ARC Resources Ltd.</b>	Contractor <b>Precision Drilling, div of PDC</b>	Contractor's Job No <b>465</b>	Rig No <b>465</b>	Well Type <b>HORIZ</b>	Spool Date Time <b>18-Mar-2017</b>	Rig Release Date Time <b>11:30</b>	(1) Rig Site Health & Safety Meeting (one/week/month) (2) CAODC Rig Safety Inspection Checklist (one/week/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked	RA RT RB RT RC RT RD RT RE RT RF RT RG RT RH RT RI RT RJ RT RK RT RL RT RM RT RN RT RO RT RP RT RQ RT RR RT RS RT RT RT	
Operator's REP <b>17DR0047</b>	Signature of Operator's Representative <b>PAUL BOUTILLIER</b>	Contractor's Rep <b>51</b>	Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>						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	TOTAL	FUEL @ 08:00 HRS	WEATHER
Code	Rig Up	Drill Actual	Reaming	Coiling	Core Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Dring Line	Dev Survey	Wireline Logs	Run Cag & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other		Rig	Weather
Tour 1						3.50		0.50		1.75					0.25						1.00	1.00				8.00	42020	4566
Tour 2	8.00				3.50		0.25															0.25				12.00	06:00	-6
Tour 3	3.00				0.75		0.25																			4.00	Clear	FAIR
TOTAL	11.00				4.25	3.50	0.50	0.50		1.75					0.25						1.00	1.25				24.00	FAIR	FAIR

TOUR **1** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **0:00** END TIME **8:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>5</b> Size: <b>159</b> IADC Code: <b>REED</b> Manufacturer: <b>SK413M</b> Type: <b>231878</b> Serial No: <b>9.5 9.5</b> Jars: <b>9.5 9.5</b> Depth Out (m): <b>2346.00</b> Depth In (m): <b>2346.00</b> Total Drilled (m): <b>0.00</b> Hrs Run Today: <b>0.00</b> Cumulative Hrs Run: <b>0.00</b> Entry Date: <b>24-Mar-2017</b>	1 BIT 159 1 0.21 2 122 1 9.17 3 126 70 9.49 4 126 70 1.66 5 126 70 1.89 6 126 60 1.17 7 133 60 1.72 8 130 60 5.20 9 133 60 1.56 10 126 60 9.04 11 133 60 0.78	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: <b>1.00</b> Density: <b>127</b> Funnel Viscosity: <b>104</b> Fluid Loss: <b>2300</b> pH: <b>1.00</b> Location Of Sample: <b>1.00</b> Depth: <b>1.00</b> PVT: <b>1.00</b> Circulation: <b>1.00</b> Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 104 2300 1.00	Time Depth Deviation Direction Type 17:00 2749.66 88.90 110.4 17:45 2777.27 89.20 111.6 18:15 2805.19 90.00 112.9 18:45 2833.29 90.40 113.1 19:00 2861.15 91.50 113.1 19:45 2889.12 90.00 112.1	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>BOILER</b>	
Kelly Down: <b>-16.59</b> Total: <b>2346.00</b> Weight of DC: <b>74.00</b> Weight of String: <b>74.00</b>	Hole Drag Up: <b>3</b> Down: <b>5</b> Torque At Bottom: <b>10200</b> Fill On Bottom:	Pump # Pressure Strokes/min Depth 1 5050 @ 53 @ 297.00 1 5110 @ 53 @ 292.00 1 5390 @ 53 @ 291.00	BoilerNo HoursRun pH StackTemp CLEANING AND SCRUBBING 80 MEHL 2975 MACP	

TOUR **2** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **8:00** END TIME **20:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>5</b> Size: <b>159</b> IADC Code: <b>REED</b> Manufacturer: <b>SK413M</b> Type: <b>231878</b> Serial No: <b>9.5 9.5</b> Jars: <b>9.5 9.5</b> Depth Out (m): <b>2346.00</b> Depth In (m): <b>585.00</b> Total Drilled (m): <b>8.00</b> Hrs Run Today: <b>8.00</b> Cumulative Hrs Run: <b>8.00</b> Entry Date: <b>24-Mar-2017</b>	1 BIT 159 1 0.21 2 122 1 9.17 3 126 70 9.49 4 126 70 1.66 5 126 70 1.89 6 126 60 1.17 7 133 60 1.72 8 130 60 5.20 9 133 60 1.56 10 126 60 9.04 11 133 60 0.78	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: <b>12.00</b> Density: <b>127</b> Funnel Viscosity: <b>105</b> Fluid Loss: <b>16000</b> pH: <b>12.00</b> Location Of Sample: <b>12.00</b> Depth: <b>12.00</b> PVT: <b>12.00</b> Circulation: <b>12.00</b> Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 105 16000 12.00	Time Depth Deviation Direction Type 17:00 2749.66 88.90 110.4 17:45 2777.27 89.20 111.6 18:15 2805.19 90.00 112.9 18:45 2833.29 90.40 113.1 19:00 2861.15 91.50 113.1 19:45 2889.12 90.00 112.1	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>BOILER</b>	
Kelly Down: <b>-1.65</b> Total: <b>2931.00</b> Weight of DC: <b>73.13</b> Weight of String: <b>74.00</b>	Hole Drag Up: <b>5</b> Down: <b>7</b> Torque At Bottom: <b>10200</b> Fill On Bottom:	Pump # Pressure Strokes/min Depth 1 5050 @ 53 @ 297.00 1 5110 @ 53 @ 292.00 1 5390 @ 53 @ 291.00	BoilerNo HoursRun pH StackTemp CLEANING AND SCRUBBING 80 MEHL 2975 MACP	

TOUR **3** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **20:00** END TIME **24:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>5</b> Size: <b>159</b> IADC Code: <b>REED</b> Manufacturer: <b>SK413M</b> Type: <b>231878</b> Serial No: <b>9.5 9.5</b> Jars: <b>9.5 9.5</b> Depth Out (m): <b>2346.00</b> Depth In (m): <b>846.00</b> Total Drilled (m): <b>3.00</b> Hrs Run Today: <b>11.00</b> Cumulative Hrs Run: <b>11.00</b> Entry Date: <b>24-Mar-2017</b>	1 BIT 159 1 0.21 2 122 1 9.17 3 126 70 9.49 4 126 70 1.66 5 126 70 1.89 6 126 60 1.17 7 133 60 1.72 8 130 60 5.20 9 133 60 1.56 10 126 60 9.04 11 133 60 0.78	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: <b>3.75</b> Density: <b>127</b> Funnel Viscosity: <b>112</b> Fluid Loss: <b>29500</b> pH: <b>3.75</b> Location Of Sample: <b>3.75</b> Depth: <b>3.75</b> PVT: <b>3.75</b> Circulation: <b>3.75</b> Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 29500 3.75	Time Depth Deviation Direction Type 0.00 0 0 0 0.00 0 0 0	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>BOILER</b>	
Kelly Down: <b>-7.11</b> Total: <b>3192.00</b> Weight of DC: <b>76.91</b> Weight of String: <b>77.00</b>	Hole Drag Up: <b>8</b> Down: <b>13</b> Torque At Bottom: <b>11400</b> Fill On Bottom:	Pump # Pressure Strokes/min Depth 2 6140 @ 56 @ 297.00 2 6620 @ 56 @ 319.00	BoilerNo HoursRun pH StackTemp DERRICK CONNECTIONS 88 MEHL 2930 MACP	

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number <b>PREC465 20170325 1A</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>03</b>	Day <b>25</b>	<b>DAILY CHECKS</b>	OP RM
License No <b>32950</b>	Well Name <b>ARCRES HZ PARKLAND F11-04-081-16</b>	Surface Location <b>11-4-81-16 W6</b>	Flow <b>BC</b>	Log Type <b>DLS</b>	Unique Well ID <b>102/16-34-080-16W6</b>	<input type="checkbox"/> (1) Daily Walk Around Inspection <input type="checkbox"/> (2) Detailed Inspection - Weekly (Using Check List) <input type="checkbox"/> (3) H2S Signs Postcard if Required <input type="checkbox"/> (4) Well License & Block Diagram Posted <input type="checkbox"/> (5) Flare Lines Staked <input type="checkbox"/> (6) BOP Tests Performed <input type="checkbox"/> (7) Visually Inspected BOPs-Flare Lines & Degasser Lines		<input type="checkbox"/> (1) Rig Site Health & Safety Meeting (once/week/month) <input type="checkbox"/> (2) CAODC Rig Safety Inspection Checklist (once/week/month) <input type="checkbox"/> (3) Mast Inspection before Raising or Lowering <input type="checkbox"/> (4) Cover Stacker Checked <input type="checkbox"/> (5) Motor Vibs Checked
Company <b>ARC Resources Ltd.</b>	Contractor <b>Precision Drilling, div of PDC</b>	Contractor Job No <b>51</b>	BC <b>465</b>	DLS <b>HORIZ</b>	ReEntry <input type="checkbox"/>	<input type="checkbox"/> (1) Rig Site Health & Safety Meeting (once/week/month) <input type="checkbox"/> (2) CAODC Rig Safety Inspection Checklist (once/week/month) <input type="checkbox"/> (3) Mast Inspection before Raising or Lowering <input type="checkbox"/> (4) Cover Stacker Checked <input type="checkbox"/> (5) Motor Vibs Checked		<input type="checkbox"/> (1) Rig Site Health & Safety Meeting (once/week/month) <input type="checkbox"/> (2) CAODC Rig Safety Inspection Checklist (once/week/month) <input type="checkbox"/> (3) Mast Inspection before Raising or Lowering <input type="checkbox"/> (4) Cover Stacker Checked <input type="checkbox"/> (5) Motor Vibs Checked
Signature of Operator's Representative <b>PAUL BOUTILLIER</b>	Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>	Spool Date Time <b>18-Mar-2017</b>	Rig Release Date Time <b>11:30</b>					



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	FUEL @ 08:00 HRS	WEATHER
Tour 1					5.50																					8.00	37233	4564
Tour 2					8.25																					12.00	06:00	-1
Tour 3					3.00																					4.00	OVERCAST	
TOTAL					16.75																					24.00	WEATHER	FAIR

TOUR **1** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **0:00** END TIME **8:00**



BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG	Details Of Operations In Sequence & Remarks																																																																																																																																																																																							
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14:00	18:00	4:00	2																																																																																																																																																																																													
18:00	19:15	1:25	5																																																																																																																																																																																													
19:15	19:45	0:50	5																																																																																																																																																																																													
19:45	20:00	0:25	21																																																																																																																																																																																													

TOUR **3** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **20:00** END TIME **24:00**

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG	Details Of Operations In Sequence & Remarks																																																																																																																																																																											
					From	To																																																																																																																																																																										
Bit Number: <b>5</b> Size: <b>159</b> IADC Code: <b>REED</b> Manufacturer: <b>SK413M</b> Type: <b>231878</b> Serial No: <b>9.5 9.5</b> Jars: <b>9.5 9.5</b> Depth Out (m): <b>2346.00</b> Total Drilled (m): <b>1979.00</b> Hrs Run Today: <b>3.00</b> Cumulative Hrs Run: <b>27.75</b> Entry Date: <b>24-Mar-2017</b>	<table border="1"> <tr><th>No</th><th>Component</th><th>OD</th><th>ID</th><th>Length</th></tr> <tr><td>1</td><td>BIT</td><td>159</td><td>1</td><td>0.21</td></tr> <tr><td>1</td><td>SEALER @ 4.5" MOTOR</td><td>122</td><td>1</td><td>9.17</td></tr> <tr><td>1</td><td>4.5" NON MAG FLEX MONEL</td><td>126</td><td>70</td><td>9.49</td></tr> <tr><td>1</td><td>1.5" GAP SUB</td><td>126</td><td>70</td><td>1.66</td></tr> <tr><td>2</td><td>4.5" NON MAG FLEX MONEL</td><td>126</td><td>70</td><td>18.99</td></tr> <tr><td>1</td><td>4.75" SLIDE REAMER</td><td>126</td><td>60</td><td>1.17</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>133</td><td>60</td><td>0.94</td></tr> <tr><td>4</td><td>4.5" DP</td><td>135</td><td>80</td><td>38.70</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>133</td><td>60</td><td>0.78</td></tr> <tr><td>1</td><td>5" HYDMECH JARS</td><td>130</td><td>60</td><td>5.20</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>133</td><td>60</td><td>0.78</td></tr> <tr><td>57</td><td>4.5" DP</td><td>135</td><td>80</td><td>38.40</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>133</td><td>60</td><td>0.78</td></tr> <tr><td>43</td><td>Drill Pipe</td><td>Standards</td><td></td><td>1252.85</td></tr> <tr><td>0</td><td>Drill Pipe</td><td>Singles</td><td></td><td>0.00</td></tr> </table>	No	Component	OD	ID	Length	1	BIT	159	1	0.21	1	SEALER @ 4.5" MOTOR	122	1	9.17	1	4.5" NON MAG FLEX MONEL	126	70	9.49	1	1.5" GAP SUB	126	70	1.66	2	4.5" NON MAG FLEX MONEL	126	70	18.99	1	4.75" SLIDE REAMER	126	60	1.17	1	4.75" CROSSOVER SUB	133	60	0.94	4	4.5" DP	135	80	38.70	1	4.75" CROSSOVER SUB	133	60	0.78	1	5" HYDMECH JARS	130	60	5.20	1	4.75" CROSSOVER SUB	133	60	0.78	57	4.5" DP	135	80	38.40	1	4.75" CROSSOVER SUB	133	60	0.78	43	Drill Pipe	Standards		1252.85	0	Drill Pipe	Singles		0.00	<table border="1"> <tr><th>Mud Type</th><th>Water</th><th>Oil</th><th>Other</th></tr> <tr><td></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Time</td><td>20:00</td><td>21:15</td><td></td></tr> <tr><td>Density</td><td>1195</td><td>1180</td><td></td></tr> <tr><td>Funnel Viscosity</td><td>51</td><td>51</td><td></td></tr> <tr><td>Fluid Loss</td><td></td><td></td><td></td></tr> <tr><td>pH</td><td></td><td></td><td></td></tr> <tr><td>Location Of Sample</td><td>SHAKER</td><td>SHAKER</td><td></td></tr> <tr><td>Depth</td><td>4124.00</td><td>4208.00</td><td></td></tr> <tr><td>PVT</td><td>77</td><td>91</td><td></td></tr> </table>	Mud Type	Water	Oil	Other		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Time	20:00	21:15		Density	1195	1180		Funnel Viscosity	51	51		Fluid Loss				pH				Location Of Sample	SHAKER	SHAKER		Depth	4124.00	4208.00		PVT	77	91		<table border="1"> <tr><th>Time</th><th>Depth</th><th>Deviation</th><th>Direction</th><th>Type</th></tr> <tr><td>20:15</td><td>4135.44</td><td>88.40</td><td>111</td><td></td></tr> <tr><td>20:45</td><td>4164.42</td><td>88.80</td><td>110.7</td><td></td></tr> <tr><td>21:15</td><td>4193.35</td><td>89.10</td><td>111</td><td></td></tr> <tr><td>21:45</td><td>4222.43</td><td>90.30</td><td>111</td><td></td></tr> <tr><td>22:00</td><td>4251.67</td><td>92.00</td><td>111.9</td><td></td></tr> <tr><td>23:15</td><td>4280.86</td><td>91.10</td><td>112.2</td><td></td></tr> </table>	Time	Depth	Deviation	Direction	Type	20:15	4135.44	88.40	111		20:45	4164.42	88.80	110.7		21:15	4193.35	89.10	111		21:45	4222.43	90.30	111		22:00	4251.67	92.00	111.9		23:15	4280.86	91.10	112.2		<table border="1"> <tr><th>From</th><th>To</th><th>Elapsed</th><th>Code</th></tr> <tr><td>20:00</td><td>23:00</td><td>3:00</td><td>2</td></tr> <tr><td>23:00</td><td>23:45</td><td>0:75</td><td>5</td></tr> <tr><td>23:45</td><td>24:00</td><td>0:25</td><td>7</td></tr> </table>	From	To	Elapsed	Code	20:00	23:00	3:00	2	23:00	23:45	0:75	5	23:45	24:00	0:25	7	<p>Remarks: FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS &amp; LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS &amp; LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS, FUNCTION CHOKE, FLARE STACK IGNITOR, MANIFOLD VALVES AND LINES HAZARD IDS - TUGGER CONTROLS WERE NOT LABELED CORRECTLY AFTER CHANGING THEM OUT, SWAPPED THE LABELS SO THEY WOULD BE CORRECT</p>
No	Component	OD	ID	Length																																																																																																																																																																												
1	BIT	159	1	0.21																																																																																																																																																																												
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<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number PREC465 20170325 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 25	<b>DAILY CHECKS</b>	OP RM
License No 32950	Well Name ARCRES HZ PARKLAND F11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well Id 102/16-34-080-16W6	ReEntry <input type="checkbox"/>	(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well Licence & Block Diagram Posted (5) Flare Lines Baked (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines	<input type="checkbox"/> FB <input type="checkbox"/> RT <input type="checkbox"/> RT <input type="checkbox"/> RT <input type="checkbox"/> RT <input type="checkbox"/> RT <input type="checkbox"/> RT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No 51	Rig No 465	Well Type HORIZ	Spool Date Time 18-Mar-2017	Rig Release Date Time 11:30	(1) Rig Site Health & Safety Meeting (once/week/month) (2) CAODC Rig Safety Inspection Checklist (once/week/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked	<input type="checkbox"/> FB <input type="checkbox"/> RT <input type="checkbox"/> RT <input type="checkbox"/> RT <input type="checkbox"/> RT <input type="checkbox"/> RT
Signature of Operator's Representative PAUL BOUTILLIER	Signature of Contractor's Rig Manager ROD TOMPKINS							 

Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	FUEL @ 08:00 HRS	WEATHER
Code	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Dring Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other		37233	4564
Tour 1		5.50					0.25																			8.00	06:00	-1
Tour 2		8.25					0.25																			12.00	06:00	-1
Tour 3		3.00					0.25																			4.00	OVERCAST	
TOTAL		16.75					0.75																			24.00	FAIR	FAIR

TOUR 1 SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME 0:00 END TIME 8:00

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: 5 Size: 159 IADC Code: REED Manufacturer: SK413M Type: 231878 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2346.00 Total Drilled (m): 1279.00 Hrs Run Today: 5.50 Cumulative Hrs Run: 16.50 Entry Date: 24-Mar-2017	1 BIT 159 1 0.21 1 1/2" SEALER BIT 122 1 9.17 1 4.75" NON MAG FLEX MONEL 126 70 9.49 1 5" GAP SUB 126 70 1.66 2 4.75" NON MAG FLEX MONEL 126 70 18.99 1 4.75" SLIDE REAMER 126 60 1.17 1 4.75" CROSSOVER SUB 133 60 0.94 4 4.5" DP 135 80 38.70 1 4.75" CROSSOVER SUB 133 60 0.78 1 5" HYDMECH JARS 130 60 5.20 1 4.75" CROSSOVER SUB 133 60 0.78 57 4.5" DP 135 80 55.44 1 4.75" CROSSOVER SUB 133 60 0.78 19 Drill Pipe Stands 553.69 0 Drill Pipe Singles 0.00	Mud Type: Water Time: 04:45 Density: 1200 Funnel Viscosity: 57 Fluid Loss: 57 pH: 9.0 Location Of Sample: SHAKER Depth: 3479.00 PVT: 74 Circulation: Pump # 2, Type SINGLE, Liner Size 127, SPM 112, Pressure 30450, Hrs Run 7.50	Time: 03:30 3377.22 90.80 110.7 04:00 3406.47 89.90 111 04:15 3435.37 91.20 111.3 04:45 3464.39 89.50 110.3 05:15 3493.59 87.50 109.9 06:00 3522.89 87.00 112.3	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOLIDS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
Kelly Down: -0.98 Total: 3625.00 Weight of DC: 77.52 Weight of String: 74.00	Hole Drag Up: 10 Down: 18 Torque At Bottom: 11500 Fill On Bottom	Pump # Pressure Strokes/min Depth 2 6620 @ 56 @ 3277.00 2 6700 @ 56 @ 3421.00 2 6920 @ 56 @ 3521.00	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 7.00 1200 1090 1720 Centrifuge #2 3.00 1200 1100 1700	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>SAFETY</b>	<b>INVERT EXPOSURE PLAN</b>	
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	Safety Topic MEHL MACP	93 2930	

TOUR 2 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME 8:00 END TIME 20:00

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: 5 Size: 159 IADC Code: REED Manufacturer: SK413M Type: 231878 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2346.00 Total Drilled (m): 1782.00 Hrs Run Today: 8.25 Cumulative Hrs Run: 24.75 Entry Date: 24-Mar-2017	1 BIT 159 1 0.21 1 1/2" SEALER BIT 122 1 9.17 1 4.75" NON MAG FLEX MONEL 126 70 9.49 1 5" GAP SUB 126 70 1.66 2 4.75" NON MAG FLEX MONEL 126 70 18.99 1 4.75" SLIDE REAMER 126 60 1.17 1 4.75" CROSSOVER SUB 133 60 0.94 4 4.5" DP 135 80 38.70 1 4.75" CROSSOVER SUB 133 60 0.78 1 5" HYDMECH JARS 130 60 5.20 1 4.75" CROSSOVER SUB 133 60 0.78 57 4.5" DP 135 80 55.44 1 4.75" CROSSOVER SUB 133 60 0.78 36 Drill Pipe Stands 1049.61 1 Drill Pipe Singles 9.67	Mud Type: Water Time: 23:45 Density: 1180 Funnel Viscosity: 50 Fluid Loss: 87 pH: 9.0 Location Of Sample: SHAKER Depth: 4325.00 PVT: 87 Circulation: Pump # 1, Type SINGLE, Liner Size 127, SPM 112, Pressure 32000, Hrs Run 3.75	Time: 11:30 3786.03 89.40 111 12:00 3815.18 90.40 110.8 12:45 3844.45 89.70 109.4 13:15 3873.46 88.10 109.3 13:45 3902.54 88.00 109.4 14:45 3931.39 87.90 110.6	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOLIDS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
Kelly Down: -3.57 Total: 4128.00 Weight of DC: 72.00 Weight of String: 74.00	Hole Drag Up: 18 Down: 28 Torque At Bottom: 14500 Fill On Bottom	Pump # Pressure Strokes/min Depth 1 6810 @ 56 @ 3916.00 1 6990 @ 56 @ 4093.00	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 12.00 1210 1090 1720 Centrifuge #2 0.00 1210 1100 1700	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>SAFETY</b>	<b>CONFINED SPACE</b>	
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	Safety Topic MEHL MACP	78 2930	

TOUR 3 SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME 20:00 END TIME 24:00

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: 5 Size: 159 IADC Code: REED Manufacturer: SK413M Type: 231878 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2346.00 Total Drilled (m): 1979.00 Hrs Run Today: 3.00 Cumulative Hrs Run: 27.75 Entry Date: 24-Mar-2017	1 BIT 159 1 0.21 1 1/2" SEALER BIT 122 1 9.17 1 4.75" NON MAG FLEX MONEL 126 70 9.49 1 5" GAP SUB 126 70 1.66 2 4.75" NON MAG FLEX MONEL 126 70 18.99 1 4.75" SLIDE REAMER 126 60 1.17 1 4.75" CROSSOVER SUB 133 60 0.94 4 4.5" DP 135 80 38.70 1 4.75" CROSSOVER SUB 133 60 0.78 1 5" HYDMECH JARS 130 60 5.20 1 4.75" CROSSOVER SUB 133 60 0.78 57 4.5" DP 135 80 55.44 43 Drill Pipe Stands 1252.85 0 Drill Pipe Singles 0.00	Mud Type: Water Time: 23:45 Density: 1180 Funnel Viscosity: 50 Fluid Loss: 87 pH: 9.0 Location Of Sample: SHAKER Depth: 4325.00 PVT: 87 Circulation: Pump # 1, Type SINGLE, Liner Size 127, SPM 112, Pressure 32000, Hrs Run 3.75	Time: 4309.64 90.20 112.5	From To Elapsed Code Details Of Operations In Sequence & Remarks
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOLIDS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
Kelly Down: -0.14 Total: 4325.00 Weight of DC: 71.32 Weight of String: 74.00	Hole Drag Up: 17 Down: 30 Torque At Bottom: 16300 Fill On Bottom	Pump # Pressure Strokes/min Depth 1 6910 @ 56 @ 4159.00 1 6880 @ 56 @ 4266.00	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 2.00 1195 1090 1745 Centrifuge #2 4.00 1195 1100 1800	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>SAFETY</b>	<b>CONFINED SPACE ENTRY</b>	
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	Safety Topic MEHL MACP	98 2930	

FRONT PAGE SUMMARY						TOUR SHEET SERIAL NUMBER						VENDOR SOFTWARE VERSION						DAILY CHECKS						OP RM							
License No: 32950						Well Name: ARCREZ HZ PARKLAND F11-04-081-16						PREC465 20170325 1A						RMS 2016.8.30.38074						Year: 2017		Month: 03		Day: 25			
Contractor: ARC Resources Ltd.						Precision Drilling, div of PDC						Surface Location: 11-4-81-16 W6						Prov: BC						Well Type: DLS		Unique Well ID: 102/16-34-080-16W6		<input type="checkbox"/> (1) Daily Walk Around Inspection <input type="checkbox"/> (2) Detailed Inspection - Weekly (Using Check List) <input type="checkbox"/> (3) H2S Signs Posted if Required <input type="checkbox"/> (4) Well License & Block Diagram Posted <input type="checkbox"/> (5) Flare Lines Baked <input type="checkbox"/> (6) BOP Tests Performed <input type="checkbox"/> (7) Visually Inspected BOPs Flare Lines & Degasser Lines <input type="checkbox"/> (8) Rig Site Health & Safety Meeting (on/week/month) <input type="checkbox"/> (9) CAODC Rig Safety Inspection Checklist (on/week/month) <input type="checkbox"/> (10) Mast Inspection before Raising or Lowering <input type="checkbox"/> (11) Crown Saver Checked <input type="checkbox"/> (12) Motor Vibs Checked		PE RT PE RT PE RT PE RT ST ST	
Contractor's Job No: 51						Signature of Contractor's Rig Manager: ROD TOMPKINS						Squad Date Time: 18-Mar-2017						Rig Release Date Time: 11:30													
Signature of Operator's Representative: PAUL BOUTILLIER						Signature of Driller: ERIC OBRIEN																									



Code	TOUR 1 SIGNATURE OF DRILLER: ERIC OBRIEN																									TOTAL	FUEL @ 08:00 HRS	WEATHER
	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Dring Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Ngble BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other			
Tour 1																										8.00	37233	4564
Tour 2																										12.00	06:00	-1
Tour 3																										4.00	OVERCAST	
TOTAL																										24.00	FAIR	

TOUR 1 SIGNATURE OF DRILLER: ERIC OBRIEN START TIME: 0:00 END TIME: 8:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG	REMARKS	
					From	To
Bit Number: 5 Size: 159 IADC Code: REED Manufacturer: SK413M Type: 231878 Serial No: 9.5 9.5 Jct: 9.5 9.5 Depth Out (m): 2346.00 Depth In (m): 1279.00 Total Drilled (m): 5.50 Hrs Run Today: 16.50 Cumulative Hrs Run: 24-Mar-2017 Entry Date: 24-Mar-2017	No. Component OD ID Length 1 BIT 159 1 0.21 1 15" GAP SUB 126 70 9.49 2 4.75" SLIDE REAMER 126 60 1.17 1 4.75" CROSSOVER SUB 133 60 0.94 1 4.75" CROSSOVER SUB 133 60 0.78 1 5" HYDMECH JARS 130 60 5.20 1 4.75" CROSSOVER SUB 133 60 0.78 57 4.5" DP 135 80 554.4 1 4.75" CROSSOVER SUB 133 60 0.78 19 Drill Pipe Stands 553.69 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 06:30 3552.07 88.50 114.2 07:15 3581.30 91.20 114.5 Density: 1.17 Funnel Viscosity: 126 Fluid Loss: 70 pH: 126 Location Of Sample: 60 Depth: 133 PVT: 38.70 Circulation: Pump # 2 SINGLE 127 112 3045.0 7.50 Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 3045.0 7.50 2 SINGLE 127 112 3045.0 7.50 2 SINGLE 127 112 3045.0 7.50 2 SINGLE 127 112 3045.0 7.50	Time Depth Deviation Direction Type 06:30 3552.07 88.50 114.2 07:15 3581.30 91.20 114.5 15:45 3960.62 89.70 112.2 16:00 3989.62 90.40 112.2 16:45 4018.65 91.70 111.8 17:30 4047.76 91.30 110.7 19:00 4077.09 90.90 111.8 19:45 4106.40 90.00 110.3	From To Elapsed Code Details Of Operations In Sequence & Remarks FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS & LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS & LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS, FUNCTION CHOKE, FLARE STACK IGNITOR, MANIFOLD VALVES AND LINES		

TOUR 2 SIGNATURE OF DRILLER: RYAN NEWTON START TIME: 8:00 END TIME: 20:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG	REMARKS	
					From	To
Bit Number: 5 Size: 159 IADC Code: REED Manufacturer: SK413M Type: 231878 Serial No: 9.5 9.5 Jct: 9.5 9.5 Depth Out (m): 2346.00 Depth In (m): 1782.00 Total Drilled (m): 8.25 Hrs Run Today: 24.75 Cumulative Hrs Run: 24-Mar-2017 Entry Date: 24-Mar-2017	No. Component OD ID Length 1 BIT 159 1 0.21 1 15" GAP SUB 126 70 9.49 2 4.75" SLIDE REAMER 126 60 1.17 1 4.75" CROSSOVER SUB 133 60 0.94 1 4.75" CROSSOVER SUB 133 60 0.78 1 5" HYDMECH JARS 130 60 5.20 1 4.75" CROSSOVER SUB 133 60 0.78 57 4.5" DP 135 80 554.4 1 4.75" CROSSOVER SUB 133 60 0.78 36 Drill Pipe Stands 1049.61 1 Drill Pipe Singles 9.67	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 15:45 3960.62 89.70 112.2 16:00 3989.62 90.40 112.2 16:45 4018.65 91.70 111.8 17:30 4047.76 91.30 110.7 19:00 4077.09 90.90 111.8 19:45 4106.40 90.00 110.3 Circulation: Pump # 1 SINGLE 127 112 2500.0 12.00 Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 2500.0 12.00	Time Depth Deviation Direction Type 15:45 3960.62 89.70 112.2 16:00 3989.62 90.40 112.2 16:45 4018.65 91.70 111.8 17:30 4047.76 91.30 110.7 19:00 4077.09 90.90 111.8 19:45 4106.40 90.00 110.3	From To Elapsed Code Details Of Operations In Sequence & Remarks FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS & LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS & LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS, FUNCTION CHOKE, FLARE STACK IGNITOR, MANIFOLD VALVES AND LINES HAZARD IDS - COTTER PIN FOR CHECKING POLE FOR LIGHT STAND WAS MISSING/ REPLACED PIN AND CHECKED ALL OTHER LIGHT STANDS		

TOUR 3 SIGNATURE OF DRILLER: ERIC OBRIEN START TIME: 20:00 END TIME: 24:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG	REMARKS	
					From	To
Bit Number: 5 Size: 159 IADC Code: REED Manufacturer: SK413M Type: 231878 Serial No: 9.5 9.5 Jct: 9.5 9.5 Depth Out (m): 2346.00 Depth In (m): 1979.00 Total Drilled (m): 3.00 Hrs Run Today: 27.75 Cumulative Hrs Run: 24-Mar-2017 Entry Date: 24-Mar-2017	No. Component OD ID Length 1 BIT 159 1 0.21 1 15" GAP SUB 126 70 9.49 2 4.75" SLIDE REAMER 126 60 1.17 1 4.75" CROSSOVER SUB 133 60 0.94 1 4.75" CROSSOVER SUB 133 60 0.78 1 5" HYDMECH JARS 130 60 5.20 1 4.75" CROSSOVER SUB 133 60 0.78 57 4.5" DP 135 80 554.4 1 4.75" CROSSOVER SUB 133 60 0.78 43 Drill Pipe Stands 1252.85 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 16:00 3989.62 90.40 112.2 16:45 4018.65 91.70 111.8 17:30 4047.76 91.30 110.7 19:00 4077.09 90.90 111.8 19:45 4106.40 90.00 110.3 Circulation: Pump # 1 SINGLE 127 112 3200.0 3.75 Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 3200.0 3.75	Time Depth Deviation Direction Type 16:00 3989.62 90.40 112.2 16:45 4018.65 91.70 111.8 17:30 4047.76 91.30 110.7 19:00 4077.09 90.90 111.8 19:45 4106.40 90.00 110.3	From To Elapsed Code Details Of Operations In Sequence & Remarks FUNCTION CROWN SAVER UPPER/LOWER TRAVEL STOPS & LIMITS, MCWS, DRILL LINE AND DRILL LINE ANCHOR, INSPECT TONGS & LINES, IRON ROUGHNECK, SLIPS, ELEVATORS, DOG COLLARS, FUNCTION CHOKE, FLARE STACK IGNITOR, MANIFOLD VALVES AND LINES HAZARD IDS - TUGGER CONTROLS WERE NOT LABELED CORRECTLY AFTER CHANGING THEM OUT, SWAPPED THE LABELS SO THEY WOULD BE CORRECT		



<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number <b>PREC465 20170326 1A</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>03</b>	Day <b>26</b>	<b>DAILY CHECKS</b>	OP RM
License No <b>32950</b>	Well Name <b>ARCRES HZ PARKLAND F11-04-081-16</b>	Surface Location <b>11-4-81-16 W6</b>	Plow <b>BC</b>	Loc Type <b>DLS</b>	Unique Well ID <b>102/16-34-080-16W6</b>		(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	PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ
Company <b>ARC Resources Ltd.</b>	Contractor <b>Precision Drilling, div of PDC</b>	Contractor's Job No. <b>51</b>	Rig No <b>465</b>	Well Type <b>HORIZ</b>	ReEntry <input type="checkbox"/>	Squad Date Time <b>18-Mar-2017</b>	(1) Rig Site Health & Safety Meeting (one/crow/month) (2) CAODC Rig Safety Inspection Checklist (one/crow/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Major Vibs Checked	RT ST SU SV SW SX SY SZ
Signature of Operator's Representative <b>PAUL BOUTILLIER</b>	Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>	Rig Release Date Time <b>11:30</b>						



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		5.25				2.25			0.25																	8.00	Rig 32800 Labor 4566
Tour 2		1.75				4.75	4.75	0.25																		12.00	Time 06:00 Event 12
Tour 3		7.00				7.00	6.00	0.50				1.00	0.25									1.00	0.50		4.00	Weather CLEAR Wind Direction Wind Strength CALM	
TOTAL																										24.00	Weather FAIR Road Condition

TOUR **1** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **0:00** END TIME **8:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>5</b> Size: <b>159</b> IADC Code: <b>REED</b> Manufacturer: <b>SK413M</b> Type: <b>SK413M</b> Serial No: <b>231878</b> Jts: <b>9.5 9.5</b> Depth Out (m): <b>2346.00</b> Total Drilled (m): <b>2286.00</b> Hrs Run Today: <b>5.25</b> Cumulative Hrs Run: <b>33.00</b> Entry Date: <b>24-Mar-2017</b>	No. Component OD ID Length 1 BIT 159 1 0.21 2 4.75" NON WAG FLEX MONEL 126 70 9.49 1 5" GAP SUB 126 70 1.66 2 4.75" NON WAG FLEX MONEL 126 70 18.92 1 4.75" SLIDE REAMER 126 60 1.17 1 4.75" CROSSOVER SUB 133 60 0.94 1 4.5" DP 135 80 38.70 1 4.75" CROSSOVER SUB 133 60 0.78 1 5" HYDMECH JARS 130 60 5.20 1 4.75" CROSSOVER SUB 133 60 0.78 57 4.5" DP 135 80 38.44 1 4.75" CROSSOVER SUB 133 60 0.78 54 Drill Pipe Stands 1573.11 0 Drill Pipe Singles 0.00	Mud Type Water <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Time 02:15 Density 1180 Funnel Viscosity 50 Fluid Loss pH Location of Sample SHAKER Depth 4443.00 PVT 85 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 33100 5.00 1 SINGLE 127 112 33100 2.50	Time Depth Deviation Direction Type 00:45 4338.78 88.20 111.6 01:00 4367.95 88.90 110.9 01:30 4397.09 89.30 111.3 02:00 4426.33 91.20 111.6 03:00 4455.39 89.60 111.8 03:30 4484.39 90.90 111.6	From To Elapsed Code 0:00 3:15 3:25 2 3:15 4:30 1:25 5 4:30 4:45 0:25 7 4:45 6:45 2:00 2 6:45 7:45 1:00 5 7:45 8:00 0:25 21
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>BOILER</b>	<b>SAFETY</b>
TO 0 MDC LOC BRS	Kelly Down: <b>-13.40</b> Total: <b>4632.00</b> Weight of DC: <b>69.27</b> Weight of String: <b>74.00</b>	Hole Drag Up 19 Down 34 Torque At Bottom 17100 Fill On Bottom	BoilerNo HoursRun pH StackTemp 1 8.00 10.5 340 2 8.00 10.5 340	DERRICK CONNECTIONS Safety Topic MEHL 100 2930 MACP

TOUR **2** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **8:00** END TIME **20:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>5</b> Size: <b>159</b> IADC Code: <b>REED</b> Manufacturer: <b>SK413M</b> Type: <b>SK413M</b> Serial No: <b>231878</b> Jts: <b>9.5 9.5</b> Depth Out (m): <b>2346.00</b> Total Drilled (m): <b>2339.00</b> Hrs Run Today: <b>1.75</b> Cumulative Hrs Run: <b>34.75</b> Entry Date: <b>24-Mar-2017</b>	No. Component OD ID Length 1 BIT 159 1 0.21 2 4.75" NON WAG FLEX MONEL 126 70 9.49 1 5" GAP SUB 126 70 1.66 2 4.75" NON WAG FLEX MONEL 126 70 18.92 1 4.75" SLIDE REAMER 126 60 1.17 1 4.75" CROSSOVER SUB 133 60 0.94 1 4.5" DP 135 80 38.70 1 4.75" CROSSOVER SUB 133 60 0.78 1 5" HYDMECH JARS 130 60 5.20 1 4.75" CROSSOVER SUB 133 60 0.78 57 4.5" DP 135 80 38.44 1 4.75" CROSSOVER SUB 133 60 0.78 55 Drill Pipe Stands 1602.07 2 Drill Pipe Singles 19.22	Mud Type Water <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Time 15:00 Density 1200 Funnel Viscosity 53 Fluid Loss pH Location of Sample SHAKER Depth 4685.00 PVT 77 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 28000 7.00	Time Depth Deviation Direction Type 08:45 4629.90 91.30 112.2 09:45 4658.86 90.60 112.7 10:15 4670.00 91.90 112.7	From To Elapsed Code 8:00 9:45 1:75 2 9:45 10:00 0:25 5 10:00 10:15 0:25 7 10:15 14:45 4:50 5 14:45 18:00 3:25 6B 18:00 18:15 0:25 21A
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>BOILER</b>	<b>SAFETY</b>
TO 3 MDC RO LOC S BRS X	Kelly Down: <b>-8.58</b> Total: <b>4685.00</b> Weight of DC: <b>67.31</b> Weight of String: <b>74.00</b>	Hole Drag Up 20 Down 35 Torque At Bottom 15000 Fill On Bottom	BoilerNo HoursRun pH StackTemp 1 12.00 10.5 340 2 12.00 10.5 340	TRIPPING OUT OF HOLE Safety Topic MEHL 109 2930 MACP

TOUR **3** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **20:00** END TIME **24:00**

<b>BITS</b>	<b>DRILLING ASSEMBLY</b>	<b>MUD RECORD</b>	<b>DEVIATION SURVEYS</b>	<b>TIME LOG</b>
Bit Number: <b>5</b> Size: <b>159</b> IADC Code: <b>REED</b> Manufacturer: <b>SK413M</b> Type: <b>SK413M</b> Serial No: <b>231878</b> Jts: <b>9.5 9.5</b> Depth Out (m): <b>4685.00</b> Total Drilled (m): <b>2346.00</b> Hrs Run Today: <b>0.00</b> Cumulative Hrs Run: <b>34.75</b> Entry Date: <b>24-Mar-2017</b>	No. Component OD ID Length 1 BIT 159 1 0.21 2 4.75" NON WAG FLEX MONEL 126 70 9.49 1 5" GAP SUB 126 70 1.66 2 4.75" NON WAG FLEX MONEL 126 70 18.92 1 4.75" SLIDE REAMER 126 60 1.17 1 4.75" CROSSOVER SUB 133 60 0.94 1 4.5" DP 135 80 38.70 1 4.75" CROSSOVER SUB 133 60 0.78 1 5" HYDMECH JARS 130 60 5.20 1 4.75" CROSSOVER SUB 133 60 0.78 57 4.5" DP 135 80 38.44 55 Drill Pipe Stands 1602.07 2 Drill Pipe Singles 19.22	Mud Type Water <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run	Time Depth Deviation Direction Type 20:00 21:15 1:25 6B 21:15 21:30 0:25 21 21:30 22:30 1:00 20D 22:30 22:45 0:25 14B 22:45 23:15 0:50 12A 23:15 23:30 0:25 21 23:30 24:00 0:50 12B	From To Elapsed Code 20:00 21:15 1:25 6B 21:15 21:30 0:25 21 21:30 22:30 1:00 20D 22:30 22:45 0:25 14B 22:45 23:15 0:50 12A 23:15 23:30 0:25 21 23:30 24:00 0:50 12B
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>BOILER</b>	<b>SAFETY</b>
TO 4 MDC RO LOC S BRS X	Kelly Down: <b>-8.58</b> Total: <b>4685.00</b> Weight of DC: <b>67.31</b> Weight of String: <b>74.00</b>	Hole Drag Up 0 Down Torque At Bottom Fill On Bottom	BoilerNo HoursRun pH StackTemp 1 4.00 10.5 340 2 4.00 10.5 340	TRIPPING Safety Topic MEHL 75 2930 MACP



FRONT PAGE SUMMARY

License No 32950, Well Name ARCS HZ PANKLAND F11-04-081-16, Tour Sheet Serial Number PREC465 20170326 1A, Vendor Software Version RMS 2016.8.30.38074, Year 2017, Month 03, Day 26.

DAILY CHECKS (1) Daily Walk Around Inspection, (2) Disabled Inspection - Weekly (Using Check List), (3) H2S Signs Posted if Required, (4) Well License & Stick Diagram Posted.



Table with 25 columns for hours (1-25) and 2 rows (Tour 1, Tour 2). Includes Total hours, Fuel @ 08:00 HRS, and Weather conditions.

TOUR 1 SIGNATURE OF DRILLER ERIC OBRIEN, START TIME 0:00, END TIME 8:00.

TOUR 2 SIGNATURE OF DRILLER RYAN NEWTON, START TIME 8:00, END TIME 20:00. Includes Drilling Assembly, Mud Record, Deviation Surveys, Time Log, Cutting Structure, HOLE CONDITION, and REDUCED PUMP SPEED sections.

TOUR 3 SIGNATURE OF DRILLER ERIC OBRIEN, START TIME 20:00, END TIME 24:00.

TOUR 3 SIGNATURE OF DRILLER ERIC OBRIEN, START TIME 20:00, END TIME 24:00. Includes Drilling Assembly, Mud Record, Deviation Surveys, Time Log, Cutting Structure, HOLE CONDITION, and REDUCED PUMP SPEED sections.

TOUR 3 SIGNATURE OF DRILLER ERIC OBRIEN, START TIME 20:00, END TIME 24:00. Includes Drilling Assembly, Mud Record, Deviation Surveys, Time Log, Cutting Structure, HOLE CONDITION, and REDUCED PUMP SPEED sections.

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number <b>PREC465 20170327 1A</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>03</b>	Day <b>27</b>	<b>DAILY CHECKS</b>	OP RM
License No <b>32950</b>	Well Name <b>ARCRES HZ PARKLAND F11-04-081-16</b>	Surface Location <b>11-4-81-16 W6</b>	Prov <b>BC</b>	Loc Type <b>DLS</b>	Unique Well Id <b>102/16-34-080-16W6</b>	(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 Baked (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 (once/week/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Vibs Checked		PB RT PB RT PB RT PB RT RT RT RT
Contractor <b>ARC Resources Ltd.</b>		Company Name <b>Precision Drilling, div of PDC</b>		Contractor Job No <b>465</b>	Rig No <b>HORIZ</b>		(1) Rig Site Health & Safety Meeting (once/week/month) (2) CAODC Rig Safety Inspection Checklist (once/week/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked	
Signature of Operator's Representative <b>PAUL BOUTILLIER</b>		Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>		Squad Date Time <b>18-Mar-2017</b>	Rig Release Date Time <b>27-Mar-2017</b>		(1) Rig Site Health & Safety Meeting (once/week/month) (2) CAODC Rig Safety Inspection Checklist (once/week/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked	



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	FUEL @ 08:00 HRS	WEATHER				
Code	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other		29077	4533	06:00	3	OVERCAST	FAIR
Tour 1							0.25					7.50									0.25					8.00						
Tour 2					3.50		0.25					7.00			0.75						0.50					12.00						
Tour 3	1.00														2.00						0.25	0.75				4.00						
TOTAL	1.00				3.50		0.50					14.50			2.75						1.00	0.75				24.00						

TOUR **1** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **0:00** END TIME **8:00**

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG																				
Bit Number	Size	No	Component	OD	ID	Length	Mud Type	Water	Oil	Other	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations In Sequence & Remarks														
IADC Code	Manufacturer															0:00	7:30	7:50	12B	Casing Details 179 joints 139.7mm 34.23 kg/m L-80 VA Roughneck casing Set from 0.00m to 2239.54m, 17 Joints 114.3mm, 22.47kg/m, L-80 VA Roughneck Thread casing Set from 2239.54m to 2454.73m, 169 joints 114.3mm 20.09 kg/m P110 LT&C casing set from 2454.73m to 4685.00m Interra StrataJet Toe Port Subs @ 4657.1m @ 4630.36m F.C. @ 4671.23m. Total length: 4683.98m Landed @ 4685.00m														
Type	Serial No															7:30	7:45	0:25	7	RIG SERVICE														
Jets	Location Of Sample															7:45	8:00	0:25	21	CREW CHANGE HANDOVER SAFETY MEETING WITH RIG MANAGER, ARC REPRESENTATIVES & RIG CREWS														
Depth Out (m)	Depth In (m)																																	
Total Drilled (m)	Hrs Run Today																																	
Cumulative Hrs Run	Entry Date																																	
CUTTING STRUCTURE		HOLE CONDITION				REDUCED PUMP SPEED				MUD MATERIALS ADDED				BOILER																				
TO	LOC	BRG	Kelly Down	Up	Down	Pump #	Pressure	Strokes/min	Depth	Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	BoilerNo	HoursRun	pH	StackTemp	SAFETY															
MDC	LOC	BRG	Weight of DC								1	8.00	10.5	340	1	8.00	10.5	340	RUNNING CASING															
MDL	LOC	BRG	Weight of String								2	8.00	10.5	340	2	8.00	10.5	340	45 MEHL 2930 MACP															
From	To	D-R-C	RPM	WOB	Hole Drag	Up	Down													START TIME <b>8:00</b> END TIME <b>20:00</b>														

TOUR **2** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **8:00** END TIME **20:00**

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG									
Bit Number	Size	No	Component	OD	ID	Length	Mud Type	Water	Oil	Other	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations In Sequence & Remarks			
IADC Code	Manufacturer															8:00	11:30	3:50	12B	Casing Details 179 joints 139.7mm 34.23 kg/m L-80 VA Roughneck casing Set from 0.00m to 2239.54m, 17 Joints 114.3mm, 22.47kg/m, L-80 VA Roughneck Thread casing Set from 2239.54m to 2454.73m, 169 joints 114.3mm 20.09 kg/m P110 LT&C casing set from 2454.73m to 4685.00m Interra StrataJet Toe Port Subs @ 4657.1m @ 4630.36m F.C. @ 4671.23m. Total length: 4683.98m Landed @ 4685.00m			
Type	Serial No															11:30	11:45	0:25	7	RIG SERVICE INSPECT DRAWWORKS GREASE TOP DRIVE			
Jets	Location Of Sample															11:45	15:15	3:50	5	CONDITION MUD & CIRCULATE			
Depth Out (m)	Depth In (m)															15:15	15:30	0:25	21	SAFETY MEETING WITH TRICAN CEMENTERS			
Total Drilled (m)	Hrs Run Today															15:30	15:45	0:25	12A	RIG IN CEMENTERS			
Cumulative Hrs Run	Entry Date															15:45	19:00	3:25	12C	Cementing Details: Pump 5.0m <sup>3</sup> Optiflush with S-4W & M-58 & TWR-2 @ 1320kg/m <sup>3</sup> , Pump 1.46 Tonne 2.50m <sup>3</sup> Scavenger TAC 1600 @ 1350kg/m <sup>3</sup> , Pump 34 Tonne, 34.0m <sup>3</sup> TAC 1600 0.25%TDH-2, 0.2% AFA-6, 1600 Kg/m <sup>3</sup> Cement. Followed by 49 Tonne (49.0m <sup>3</sup> ) TAC 1600, 0.2% AFA-6, 0.2% CFR-12, 0.25% TDH-2, 0.3% TWR-4, @ 1600kg/m <sup>3</sup> Tail Cement. Clean out lines. Launch wiper plug and displace with 5m <sup>3</sup> of inhibited retarded water + 38.5m <sup>3</sup> of water 5% Tricor 134, 2% DF-2W, 40% excess used for cementing calculations. 10 m <sup>3</sup> of good cement returns to surface. Bump plug 4000 Kpa over FCP, Floats held, 600L flow back Monitored for 10 mins no fall-back in annulus. Plug down at 18:10hrs March 27 / 2017, flush bops and tearout cementing equipment.			
CUTTING STRUCTURE		HOLE CONDITION				REDUCED PUMP SPEED				MUD MATERIALS ADDED				BOILER									
TO	LOC	BRG	Kelly Down	Up	Down	Pump #	Pressure	Strokes/min	Depth	Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	BoilerNo	HoursRun	pH	StackTemp	SAFETY				
MDC	LOC	BRG	Weight of DC								1	12.00	10.5	340	1	12.00	10.5	340	CEMENTING CASING				
MDL	LOC	BRG	Weight of String								2	12.00	10.5	340	2	12.00	10.5	340	85 MEHL 2930 MACP				
From	To	D-R-C	RPM	WOB	Hole Drag	Up	Down													START TIME <b>20:00</b> END TIME <b>24:00</b>			

TOUR **3** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **20:00** END TIME **24:00**

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG									
Bit Number	Size	No	Component	OD	ID	Length	Mud Type	Water	Oil	Other	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations In Sequence & Remarks			
IADC Code	Manufacturer															20:00	20:30	0:50	14B	NIPPLE DOWN BOPs			
Type	Serial No															20:30	21:00	0:50	14E	SET CASING SLIPS @ 85KDPAN, CUT CASING(RIG RELEASED MAR 27 2017 @ 21:00 HR)			
Jets	Location Of Sample															21:00	22:00	1:00	14E	INSTALL WELLHEAD / TREE			
Depth Out (m)	Depth In (m)															22:00	22:45	0:75	22A	PREP RIG TO WALK			
Total Drilled (m)	Hrs Run Today															22:45	23:00	0:25	21	SAFETY MEETING PRIOR TO WALKING RIG			
Cumulative Hrs Run	Entry Date															23:00	24:00	1:00	1A	WALK RIG TO G11-04-081-16(END WELL MAR27 2017 @ 23:59HR)			
CUTTING STRUCTURE		HOLE CONDITION				REDUCED PUMP SPEED				MUD MATERIALS ADDED				BOILER									
TO	LOC	BRG	Kelly Down	Up	Down	Pump #	Pressure	Strokes/min	Depth	Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	BoilerNo	HoursRun	pH	StackTemp	SAFETY				
MDC	LOC	BRG	Weight of DC								1	4.00	10.5	340	1	4.00	10.5	340	NIPPLE DOWN				
MDL	LOC	BRG	Weight of String								2	4.00	10.5	340	2	4.00	10.5	340	85 MEHL 2930 MACP				
From	To	D-R-C	RPM	WOB	Hole Drag	Up	Down													START TIME <b>20:00</b> END TIME <b>24:00</b>			

TOUR **3** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **20:00** END TIME **24:00**

FRONT PAGE SUMMARY										Tour Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS					OP RM																																																																																																																																																																	
License No: 32950 Well Name: ARCREZ HZ PARKLAND F11-04-081-16										PREC465 20170327 1A		RMS 2016.8.30.38074		2017		03		27		(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 (8) Rig Site Health & Safety Meeting (once/week/month) (9) CAADC Rig Safety Inspection Checklist (once/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Major Risks Checked					PE RT PE RT PE RT PE RT ST ST																																																																																																																																																																	
Contractor: Precision Drilling, div of PDC Company Job No: 465										Rig No: BC		Well Type: DLS		Unique Well ID: 102/16-34-080-16W6		Rig No: 465		Well Type: HORIZ		Re-Entry: <input type="checkbox"/>							Kelly Casing: 3723 Top Hole: 5233																																																																																																																																																															
Operator: ARC Resources Ltd. Contractor's Rep: 17DR0047 Signature of Operator's Representative: PAUL BOUTILLIER										Signature of Contractor's Rig Manager: ROD TOMPKINS		Squad Date Time: 18-Mar-2017		Rig Release Date Time: 27-Mar-2017		11:30		21:00							Fuel @ 08:00 HRS Fuel: 29077 Temp: 4533 Time: 06:00 Corrected: -3 OVERCAST Wind Direction: FAIR Wind Strength: CALM																																																																																																																																																																	
<table border="1"> <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> </tr> </thead> <tbody> <tr> <td>Hours</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.25</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7.50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8.00</td> </tr> <tr> <td>Tour 1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tour 2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12.00</td> </tr> <tr> <td>Tour 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.00</td> </tr> <tr> <td>TOTAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>14.50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>24.00</td> </tr> </tbody> </table>																									Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	Hours								0.25							7.50											8.00	Tour 1																											Tour 2								3.50							7.00											12.00	Tour 3																										4.00	TOTAL								3.50							14.50											24.00
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TOUR 1 SIGNATURE OF DRILLER ERIC OBRIEN START TIME 0:00 END TIME 8:00

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG										
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Other	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks				
Size								<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>														
IADC Code																								
Manufacturer																								
Type																								
Serial No																								
Jets																								
Depth Out (m)																								
Depth In (m)																								
Total Drilled (m)																								
Hrs Run Today																								
Cumulative Hrs Run																								
Entry Date																								
CUTTING STRUCTURE		Kelly Down				REDUCED PUMP SPEED				BOILER				SAFETY										
TO	Grp	CCC	Weight of DC	Weight of String	Hole Drag	Up	Down	Pump #	Pressure	Strokes/min	Depth	BoilerNo	HoursRun	pH	StackTemp	MEHL 2930 MACP								
MDC	Recess Flare	Test Run (inch)			Torque At Bottom											RUNNING CASING 45 2930								
LOC					Fill On Bottom											START TIME 8:00 END TIME 20:00								
BRG																								

TOUR 2 SIGNATURE OF DRILLER RYAN NEWTON START TIME 8:00 END TIME 20:00

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG										
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Other	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks				
Size								<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>														
IADC Code																								
Manufacturer																								
Type																								
Serial No																								
Jets																								
Depth Out (m)																								
Depth In (m)																								
Total Drilled (m)																								
Hrs Run Today																								
Cumulative Hrs Run																								
Entry Date																								
CUTTING STRUCTURE		Kelly Down				REDUCED PUMP SPEED				BOILER				SAFETY										
TO	Grp	CCC	Weight of DC	Weight of String	Hole Drag	Up	Down	Pump #	Pressure	Strokes/min	Depth	BoilerNo	HoursRun	pH	StackTemp	MEHL 2930 MACP								
MDC	Recess Flare	Test Run (inch)			Torque At Bottom											CEMENTING CASING 85 2930								
LOC					Fill On Bottom											START TIME 20:00 END TIME 24:00								
BRG																								

TOUR 3 SIGNATURE OF DRILLER ERIC OBRIEN START TIME 20:00 END TIME 24:00

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG										
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Other	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks				
Size								<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>														
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Hrs Run Today																								
Cumulative Hrs Run																								
Entry Date																								
CUTTING STRUCTURE		Kelly Down				REDUCED PUMP SPEED				BOILER				SAFETY										
TO	Grp	CCC	Weight of DC	Weight of String	Hole Drag	Up	Down	Pump #	Pressure	Strokes/min	Depth	BoilerNo	HoursRun	pH	StackTemp	MEHL 2930 MACP								
MDC	Recess Flare	Test Run (inch)			Torque At Bottom											NIPPLE DOWN 85								
LOC					Fill On Bottom											START TIME 20:00 END TIME 24:00								
BRG																								

TOUR 3 SIGNATURE OF DRILLER ERIC OBRIEN START TIME 20:00 END TIME 24:00