



FRONT PAGE SUMMARY										Tour Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS					OP RM			
License No: 32949 Well Name: ARCREZ HZ PARKLAND G11-04-081-16										PREC465 20170305 1A		RMS 2016.8.30.8074		2017		03		05		(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) Rig Site Health & Safety Meeting (once/week/month) (9) CAODC Rig Safety Inspection Checklist (once/week/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Vibs Checked					PB RT FB RT TB RT CB RT DB RT EB RT FB RT GB RT HB RT IB RT JB RT KB RT LB RT MB RT NB RT OB RT PB RT RB RT SB RT TB RT UB RT VB RT WB RT XB RT YB RT ZB RT			
Contractor: Precision Drilling, div of PDC Company's Job No: 48										Rig No: 465		Well Type: DLS		Unique Well ID: 102/10-34-80-16W6		Re-Entry: <input type="checkbox"/>		Spud Date Time: _____		Rig Release Date Time: _____							Kelly Blocking Top Fuel 1000	
Company's REP: 17DR0048 Signature of Operator's Representative: PAUL BOUTILLIER										Signature of Contractor's Rig Manager: ROD TOMPKINS															FUEL @ 08:00 HRS Rig 4674 Meter 2270 Time 06:00 Temp -24 OVERCAST Wind Direction E Wind Strength UP TO 19 KM/H Road Condition GOOD WEATHER			



Code	TOUR 1 SIGNATURE OF DRILLER: ROD TOMPKINS																									TOTAL	KELLY BLOCKING	TOP FUEL	
	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	Waiting On	Rig Wash	Other				
Tour 1	0.25																										8.00		
Tour 2	12.00																										12.00		
Tour 3	3.75																										4.00		
TOTAL	16.00																										24.00		

TOUR 1	SIGNATURE OF DRILLER: ROD TOMPKINS	START TIME: 0:00	END TIME: 8:00
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BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG					
Bit Number	Size	No	Component	OD	ID	Length	Mud Type	Water	Oil	Other	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code
IADC Code	Manufacturer	Type	Serial No	Jets	Depth Out (m)	Depth In (m)	Total Drilled (m)	Hrs Run Today	Cumulative Hrs Run	Entry Date	Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	0:00	7:30	7:50	23B
Details of Operations In Sequence & Remarks 7:30 7:45 0.25 21D W/O DAYLIGHT TO FINISH SPOTTING RIG MEETINGS - PRE-JOB SAFETY WITH NORTHWELL TRUCKING AND CREWS PRIOR TO LIFTING DERRICK 7:45 8:00 0.25 1C SPOT RIG / LOADS / BUILDINGS																			
SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density																			
MUD MATERIALS ADDED Product Amount Type																			
REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth																			
BOILER BoilerNo HoursRun pH StackTemp																			
SAFETY Safety Topic MEHL MACP																			
SPOT RIG																			

TOUR 2	SIGNATURE OF DRILLER: ERIC OBRIEN	START TIME: 8:00	END TIME: 20:00
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BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG					
Bit Number	Size	No	Component	OD	ID	Length	Mud Type	Water	Oil	Other	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code
IADC Code	Manufacturer	Type	Serial No	Jets	Depth Out (m)	Depth In (m)	Total Drilled (m)	Hrs Run Today	Cumulative Hrs Run	Entry Date	Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	8:00	10:30	2:50	1C
Details of Operations In Sequence & Remarks 10:30 20:00 9:50 1C LIFT DERRICK WITH CRANES AND PIN ON SUB, LOWER MONKEY BOARD AND BOOMS, SPOT TRANSFER TANK, CATWALK & RENTALS RIG UP SUITCASES, SUB AND DERRICK, PRESSURE UP BOILERS 1 & 2, CIRCULATE STEAM IN COMPLEX, CUT CONDUCTORS																			
SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density																			
MUD MATERIALS ADDED Product Amount Type																			
REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth																			
BOILER BoilerNo HoursRun pH StackTemp																			
SAFETY Safety Topic MEHL MACP																			
RIG UP																			

TOUR 3	SIGNATURE OF DRILLER: DAVE LOEWEN	START TIME: 20:00	END TIME: 24:00
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BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG					
Bit Number	Size	No	Component	OD	ID	Length	Mud Type	Water	Oil	Other	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code
IADC Code	Manufacturer	Type	Serial No	Jets	Depth Out (m)	Depth In (m)	Total Drilled (m)	Hrs Run Today	Cumulative Hrs Run	Entry Date	Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	20:00	20:15	0.25	21
Details of Operations In Sequence & Remarks 20:15 24:00 3:75 1 SAFETY MEETING & CROSSOVER MEETING WITH RM, CREWS AND ARC REP RIG UP LIGHTS ON RIG, STEAM LINES AND ELECTRICAL, TRANSFER TANK, LER FIBRE CHORDSPREP DERRICK TO RAISE																			
SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density																			
MUD MATERIALS ADDED Product Amount Type																			
REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth																			
BOILER BoilerNo HoursRun pH StackTemp																			
SAFETY Safety Topic MEHL MACP																			
RIG UP																			

FRONT PAGE SUMMARY

Tour Sheet Number: PREC465 20170306 1B, Vendor Software Version: RMS 2016.8.30.38074, Year: 2017, Month: 03, Day: 06

DAILY CHECKS

- (1) Daily Walk Around Inspection
(2) Detailed Inspection - Weighy (Using Check List)
(3) H2S Signs Postcard If Required
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) ROP Tests Performed
(7) Visually Inspected BOP's Flare Lines & Degasser Lines
(1) Rig Site Health & Safety Meeting (once/week/month)
(2) CAADC Rig Safety Inspection Checklist (once/week/month)
(3) Mast Inspection before Raising or Lowering
(4) Crown Saver Checked
(5) Major Risks Checked

OP RM table with columns for various safety and operational checks.



License No: 32949, Well Name: ARCRES HZ PARKLAND G11-04-081-16, Contractor: Precision Drilling, div of PDC, Operator: DOUG SHEA, Signature of Operator's Representative: DOUG SHEA

Hours table with columns for Code, Rigs, Drilling, Reaming, Coring, etc., and rows for Tour 1, Tour 2, Tour 3, and TOTAL.

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

TOUR 1 detailed log including BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, and METRES DRILLED.

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

TOUR 2 detailed log including BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, and METRES DRILLED.

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

TOUR 3 detailed log including BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, and METRES DRILLED.





<b>FRONT PAGE SUMMARY</b>										Tour Sheet Serial Number <b>PREC465 20170307 1A</b>		Vendor Software Version <b>RMS 2016.8.30.38074</b>		Year <b>2017</b>		Month <b>03</b>		Day <b>07</b>		<b>DAILY CHECKS</b>					<b>OP RM</b>														
License No <b>32949</b>										Well Name <b>ARCRES HZ PARKLAND G11-04-081-16</b>										Surface Location <b>11-4-81-16 W6</b>		Prov <b>BC</b>		Lic Type <b>DLS</b>		Unique Well Id <b>102/10-34-80-16W6</b>		Rig No <b>465</b>		Well Type <b>HORIZ</b>		ReEntry <input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Company Name <b>ARC Resources Ltd.</b>										Contractor <b>Precision Drilling, div of PDC</b>										Contractor's Job No <b>48</b>		Spud Date Time <b>06-Mar-2017</b>		Rig Release Date Time <b>19:30</b>															
Signature of Operator's Representative <b>DOUG SHEA</b>										Signature of Contractor's Rig Manager <b>CECIL TROWBRIDGE</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 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		27836
Tour 1		2.00				3.00	2.50																			8.00	2139
Tour 2	1.00					0.75	1.50								4.25											9.00	05:45
Tour 3		1.00	2.00			3.75	4.00								4.25											17.00	12:24
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>1</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>03:15</b>	Depth <b>383.37</b>	Deviation <b>1.00</b>	Direction <b>249.9</b>	From <b>03:45</b>	To <b>411.29</b>	Elapsed <b>1.30</b>	Code <b>197.5</b>	Remarks <b>08:00</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>0.00</b>	Depth In (m) <b>465.00</b>	Total Drilled (m) <b>465.00</b>	Hrs Run Today <b>2.00</b>	Cumulative Hrs Run <b>3.75</b>	Entry Date <b>06-Mar-2017</b>	Cutting Structure TO: <b>1</b> Gage: <b>0</b> MOC: <b>NO</b> COC: <b>NO</b> LOC: <b>A</b> TD: <b>TD</b> BRG: <b>K</b> 124.00	Hole Condition Hole Drag Up: <b>0</b> Down: <b>0</b> Torque At Bottom: <b>7000</b> Fill On Bottom:	Reduced Pump Speed Pump # Pressure Strokes/min Depth <b>1</b> PARALLEL <b>152 105</b> 22000 <b>5.00</b> <b>2</b> PARALLEL <b>152 105</b> 22000 <b>5.00</b>	Boiler BoilerNo HoursRun pH StackTemp	Safety Safety Topic MEHL MACP		

TOUR **2** SIGNATURE OF DRILLER **ERIC OBRIEN** 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>1</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>03:15</b>	Depth <b>383.37</b>	Deviation <b>1.00</b>	Direction <b>249.9</b>	From <b>03:45</b>	To <b>411.29</b>	Elapsed <b>1.30</b>	Code <b>197.5</b>	Remarks <b>08:00</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>0.00</b>	Depth In (m) <b>465.00</b>	Total Drilled (m) <b>465.00</b>	Hrs Run Today <b>0.00</b>	Cumulative Hrs Run <b>3.75</b>	Entry Date <b>06-Mar-2017</b>	Cutting Structure TO: <b>1</b> Gage: <b>0</b> MOC: <b>NO</b> COC: <b>NO</b> LOC: <b>A</b> TD: <b>TD</b> BRG: <b>K</b> 124.00	Hole Condition Hole Drag Up: <b>0</b> Down: <b>0</b> Torque At Bottom: <b>7000</b> Fill On Bottom:	Reduced Pump Speed Pump # Pressure Strokes/min Depth <b>1</b> PARALLEL <b>152 105</b> 22000 <b>1.00</b> <b>2</b> PARALLEL <b>152 105</b> 22000 <b>1.00</b>	Boiler BoilerNo HoursRun pH StackTemp	Safety Safety Topic MEHL MACP		

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	No	Component	OD	ID	Mud Type	Time	Depth	Deviation	Direction	From	To	Elapsed	Code	Remarks	Details Of Operations In Sequence & Remarks	
IADC Code	Manufacturer	Type	Serial No	JMS	Depth Out (m)	Depth In (m)	Total Drilled (m)	Hrs Run Today	Cumulative Hrs Run	Entry Date	Cutting Structure	Hole Condition	Reduced Pump Speed	Boiler	Safety		

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number PREC465 20170328 1C	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 28	<b>DAILY CHECKS</b>	OP RM
License No 32949	Well Name ARCRES HZ PARKLAND G11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Lot Type DLS	Unique Well ID 100/09-34-80-16W6	Re-Entry <input type="checkbox"/>	(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Spills Protocol if Required (4) Well License & Stick Diagram Posted (5) Flare Lines Baked (6) H2S Tests Performed (7) Visually Inspected BOP-Flare Lines & Degasser Lines (8) Wellhead Safety Inspection (once/week/month) (9) CAODC Rig Safety Inspection Checklist (once/week/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Major Risks Checked	PA ST PB ST PC ST PD ST PE ST PF ST PG ST PH ST PI ST PJ ST PK ST PL ST PM ST PN ST PO ST PP ST PQ ST PR ST PS ST PT ST PU ST PV ST PW ST PX ST PY ST PZ ST
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No. 52	Rig No. 465	Spud Date Time 28-Mar-2017	Rig Release Date Time 00:00	Signature of Operator's Representative PAUL BOUTILLIER	Signature of Contractor's Rig Manager ROD TOMPKINS	CAODC N.W.

Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	FUEL @ 08:00 HRS	WEATHER
Tour 1							1.25								1.25	2.00										8.00	25176	4566
Tour 2		7.75					3.25		0.25																	12.00	06:00	2
Tour 3		3.25					0.50		0.25																	4.00	OVERCAST	
TOTAL		11.00					3.75	1.25	0.50						1.25	2.00										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: 2 Size: 159 IADC Code: 159 Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12864408 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 465.00 Total Drilled (m): 465.00 Hrs Run Today: 0.00 Cumulative Hrs Run: 0.00 Entry Date: 28-Mar-2017	No: 1 Component: BIT OD: 159 ID: 126 Length: 1.021 Mud Type: Water Water: <input checked="" type="checkbox"/> Oil: <input type="checkbox"/> Other: <input type="checkbox"/> Time: 10:45 Density: 1150 Funnel Viscosity: 30 Fluid Loss: 30 pH: 11 Location of Sample: SUCTION Depth: 563.00 PVT: 819.00 Circulation: Pump # 1 Type: SINGLE Line Size: 127 SPM: 112 Pressure: 12900 Hs Run: 11.50	Mud Type: Water Water: <input checked="" type="checkbox"/> Oil: <input type="checkbox"/> Other: <input type="checkbox"/> Time: 10:45 Density: 1150 Funnel Viscosity: 30 Fluid Loss: 30 pH: 11 Location of Sample: SUCTION Depth: 563.00 PVT: 819.00 Circulation: Pump # 1 Type: SINGLE Line Size: 127 SPM: 112 Pressure: 12900 Hs Run: 11.50	Time: 09:45 Depth: 472.42 Deviation: 2.10 Direction: 103.1 Type: 1 10:00 491.00 0.80 57.9 10:30 520.24 1.00 302.2 10:45 549.59 0.60 287.6 11:15 578.90 0.20 278.4 11:30 608.08 0.10 287.6	From: 0:00 To: 0:15 Elapsed: 0:25 Code: 21D Details of Operations In Sequence & Remarks SAFETY PRIOR TO NIPPLING UP REVIEW CTA 5-2 NIPPLE UP BOPSPRUD MARCH 28 2017 (600:15HR) 1:30 1:45 0:25 21 SAFETY MEETING PRIOR TO WORK STRING TEST, REVIEW CTA 3-5 1:45 3:30 1:75 15A PRESSURE TEST BREAKS ON BOP STACK AND CHOKE LINES, PIPE RAMS, CHOKE MANIFOLD, CHOKES A & B 21000KPA HIGH, 1000KPA LOW, 10 MIN EACH SIDE OUTLET VALVES, KELLY COCK 10 MIN 14000KPA 3:30 3:45 0:25 15B FUNCTION TEST BOP, WORKING PRESSURE 21000KPA, PRE-CHARGE PRESSURE 7000KPA, CLOSE ANNULAR (26 SECONDS, 13000KPA), CLOSE UPPER PIPE RAMS (6 SECONDS, 12000KPA), CLOSE LOWER PIPE RAMS (7 SECONDS, 11000KPA), OPEN HCR (2 SECONDS, 10750KPA), PRESSURE REMAINING AFTER 4 PART FUNCTION TEST KPA, RECHARGE TIME 2:14, N2 BACKUP 5 X 2200PSI, 1 X 2000PSI PRECHARGE PRESSURE 7200KPA 3:45 4:00 0:25 21F MEETINGS - SAFETY INSPECTION, PRE SPUD INSPECTION AND SAFETY MEETING, HAZARD HUNT 4:00 4:15 0:25 21 SAFETY MEETING PRIOR TO MAKING UP DIRECTIONAL TOOLS, REVIEW CTA 2-1 4:15 5:30 1:25 20D HANDLE DIRECTIONAL TOOLS, MAKE UP A 1/2" BHA W/ 5 STAGE MOTOR SET AT 1.83DEG AND 159MM PDC BIT 5:30 6:45 1:25 6A TRIP IN HOLE TO 430M 6:45 7:00 0:25 21 SAFETY MEETING PRIOR TO SLIP AND CUT, REVIEW CTA 7:00 7:45 0:75 9A SLIP / CUT DRILLING LINE - CUT DRILLING LINE 7:45 8:00 0:25 21 SAFETY MEETING CREW CHANGE

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: 2 Size: 159 IADC Code: 159 Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12864408 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 465.00 Total Drilled (m): 685.00 Hrs Run Today: 7.75 Cumulative Hrs Run: 7.75 Entry Date: 28-Mar-2017	No: 1 Component: BIT OD: 159 ID: 126 Length: 1.021 Mud Type: Water Water: <input checked="" type="checkbox"/> Oil: <input type="checkbox"/> Other: <input type="checkbox"/> Time: 10:45 Density: 1150 Funnel Viscosity: 30 Fluid Loss: 30 pH: 11 Location of Sample: SUCTION Depth: 563.00 PVT: 819.00 Circulation: Pump # 2 Type: SINGLE Line Size: 127 SPM: 112 Pressure: 12900 Hs Run: 11.50	Mud Type: Water Water: <input checked="" type="checkbox"/> Oil: <input type="checkbox"/> Other: <input type="checkbox"/> Time: 10:45 Density: 1150 Funnel Viscosity: 30 Fluid Loss: 30 pH: 11 Location of Sample: SUCTION Depth: 563.00 PVT: 819.00 Circulation: Pump # 2 Type: SINGLE Line Size: 127 SPM: 112 Pressure: 12900 Hs Run: 11.50	Time: 09:45 Depth: 472.42 Deviation: 2.10 Direction: 103.1 Type: 1 10:00 491.00 0.80 57.9 10:30 520.24 1.00 302.2 10:45 549.59 0.60 287.6 11:15 578.90 0.20 278.4 11:30 608.08 0.10 287.6	From: 8:00 To: 8:15 Elapsed: 0:25 Code: 21A Details of Operations In Sequence & Remarks MEETINGS - DRILLS / BOP, etc. SOUR BOP DRILL OPEN HCR 2 SEC CLOSE ANNULAR 18 SECS WELL SECURE 35 SECS, MEN PACKED UP AND ROUTE COMPLETE 4 MIN 10 SEC 8:15 8:30 0:25 2C TAG CEMENT @ 452M DRILL FLOAT & SHOE 8:30 12:45 4:25 2 DRILL 159MM HOLE FROM 465M TO 854M 12:45 14:45 2:00 5 ACCUMULATIVE TIME TO WORK STRING AND MAKE CONNECTIONS 14:45 15:00 0:25 7 RIG SERVICE, FUNCTION UPPER PIPE RAMS (6 SECONDS TO CLOSE) 15:00 15:15 0:25 21 CREW CHANGE HANOVER SAFETY MEETING WITH RIG MANAGER, ARC REPRESENTATIVES & RIG CREWS 15:15 15:30 0:25 21A SOUR BOP/ MAN DOWN DRILL, OPEN HCR (2 SECONDS), CLOSE ANNULAR (20 SECONDS), WELL SECURE IN 90 SECONDS, CREW PACKED UP AND SEARCH COMPLETED IN 4:10 15:30 18:45 3:25 2 DRILL 159MM HOLE FROM 854M TO 1150M 18:45 20:00 1:25 5 ACCUMULATIVE TIME TO WORK STRING AND MAKE CONNECTIONS

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: 2 Size: 159 IADC Code: 159 Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12864408 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 465.00 Total Drilled (m): 875.00 Hrs Run Today: 3.25 Cumulative Hrs Run: 11.00 Entry Date: 28-Mar-2017	No: 1 Component: BIT OD: 159 ID: 126 Length: 1.021 Mud Type: Water Water: <input checked="" type="checkbox"/> Oil: <input type="checkbox"/> Other: <input type="checkbox"/> Time: 20:00 Density: 1140 Funnel Viscosity: 30 Fluid Loss: 30 pH: 10.5 Location of Sample: TANK 2 Depth: 1156.00 PVT: 1258.00 Circulation: Pump # 1 Type: SINGLE Line Size: 127 SPM: 112 Pressure: 15800 Hs Run: 3.75	Mud Type: Water Water: <input checked="" type="checkbox"/> Oil: <input type="checkbox"/> Other: <input type="checkbox"/> Time: 20:00 Density: 1140 Funnel Viscosity: 30 Fluid Loss: 30 pH: 10.5 Location of Sample: TANK 2 Depth: 1156.00 PVT: 1258.00 Circulation: Pump # 1 Type: SINGLE Line Size: 127 SPM: 112 Pressure: 15800 Hs Run: 3.75	Time: 20:30 Depth: 1161.57 Deviation: 0.50 Direction: 218 Type: 2 21:15 1190.88 0.30 225.5 21:45 1220.24 0.30 236.3 22:30 1249.39 0.50 263.6 23:00 1278.66 0.30 287.6 23:30 1307.67 0.30 307.8	From: 20:00 To: 23:15 Elapsed: 3:25 Code: 2 Details of Operations In Sequence & Remarks DRILL 159 MM HOLE FROM 1150M TO 1340M 23:15 23:45 0:50 5 ACCUMULATED CONNECTIONS AND WORKING DRILL STRING 23:45 24:00 0:25 7 RIG SERVICE, FUNCTION LOWER PIPE RAMS (6 SECONDS TO CLOSE)

<b>FRONT PAGE SUMMARY</b>				Tour Sheet Number PREC465 20170328 1C	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 28	<b>DAILY CHECKS</b>				<b>OP RM</b>	
License No 32949	Well Name ARCRES HZ PARKLAND G11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 100/09-34-80-16W6	(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) Rig Site Health & Safety Meeting (one/week/month) (9) CAODC Rig Safety Inspection Checklist (one/week/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Vibs Checked				PA RT	PA RT	PA RT	PA RT	PA RT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor Job No 52	Rig No 465	Well Type HORIZ	Spud Date Time 28-Mar-2017	00:00					ST	ST	ST	ST
Operator's Rep 17DR0048	Signature of Operator's Representative PAUL BOUTILLIER	Signature of Contractor's Rig Manager ROD TOMPKINS									ST	ST	ST	ST



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	FUEL @ 08:00 HRS	WEATHER	
Tour 1							1.25			0.75					1.25	2.00										8.00	25176	4566	
Tour 2		7.75					3.25		0.25																	12.00	06:00	2	
Tour 3		3.25					0.50		0.25																	4.00	OVERCAST	Wind Direction	Wind Strength
TOTAL		11.00					3.75	1.25	0.50	0.75					1.25	2.00										24.00	FAIR	Good Condition	FAIR

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

<b>BITS</b> Bit Number: 2 Size: 159 IADC Code: [ ] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12864408 Jts: 7.9 7.9 7.9 Depth Out (m): 465.00 Total Drilled (m): [ ] Hrs Run Today: 0.00 Cumulative Hrs Run: 0.00 Entry Date: 28-Mar-2017	<b>DRILLING ASSEMBLY</b> No. Component OD ID Length 1 1" RESEALED 28 3/2810 MOTOR 126 1 8.40 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG POLY MODEL 118 70 9.32 1 5" GAP SUB 130 68 1.66 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.40 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.5" HWDP 114 73 9.32 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 47 4.5" HWDP 114 73 127.25 22 Drill Pipe Stands 641.30 1 Drill Pipe Singles 9.76 Kelly Down: [ ] Torque At Bottom: [ ] Fill On Bottom: [ ] Weight of DC: [ ] Weight of String: [ ] Hole Drag: [ ] Torque At Bottom: [ ] Fill On Bottom: [ ]	<b>MUD RECORD</b> Mud Type: Water Time: 15:15 Density: 1440 Funnel Viscosity: 30 Fluid Loss: 10.5 pH: 10.5 Location Of Sample: TANK 2 Depth: 883.00 PVT: 78 Circulation: [ ] Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 12900 11.50	<b>DEVIATION SURVEYS</b> Time Depth Deviation Direction Type 12:00 637.24 0.30 264.4 12:30 666.47 3.00 211.8 13:00 695.72 6.20 188.2 13:15 724.83 6.50 172.9 13:45 753.59 8.90 174.9 14:15 782.45 6.60 171.5	<b>TIME LOG</b> From To Elapsed Code Details Of Operations In Sequence & Remarks 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 VISUALLY INSPECTED FLARE & DEGASSER LINES, DID WEEKLY AER INSPECTION RT FUNCTION ALL BOP EQUIPMENT OK SAFETY MEHL 3216 MACP
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TOUR 2 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME 8:00 END TIME 20:00

<b>BITS</b> Bit Number: 2 Size: 159 IADC Code: [ ] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12864408 Jts: 7.9 7.9 7.9 Depth Out (m): 465.00 Total Drilled (m): 685.00 Hrs Run Today: 7.75 Cumulative Hrs Run: 7.75 Entry Date: 28-Mar-2017	<b>DRILLING ASSEMBLY</b> No. Component OD ID Length 1 BIT 159 1 0.21 1 1" RESEALED 28 3/2810 MOTOR 126 1 8.40 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG POLY MODEL 118 70 9.32 1 5" GAP SUB 130 68 1.66 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.40 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.5" HWDP 114 73 9.32 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 47 4.5" HWDP 114 73 127.25 22 Drill Pipe Stands 641.30 1 Drill Pipe Singles 9.76 Kelly Down: [ ] Torque At Bottom: [ ] Fill On Bottom: [ ] Weight of DC: [ ] Weight of String: [ ] Hole Drag: [ ] Torque At Bottom: [ ] Fill On Bottom: [ ]	<b>MUD RECORD</b> Mud Type: Water Time: 15:15 Density: 1440 Funnel Viscosity: 30 Fluid Loss: 10.5 pH: 10.5 Location Of Sample: TANK 2 Depth: 883.00 PVT: 78 Circulation: [ ] Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 12900 11.50	<b>DEVIATION SURVEYS</b> Time Depth Deviation Direction Type 12:00 637.24 0.30 264.4 12:30 666.47 3.00 211.8 13:00 695.72 6.20 188.2 13:15 724.83 6.50 172.9 13:45 753.59 8.90 174.9 14:15 782.45 6.60 171.5	<b>TIME LOG</b> From To Elapsed Code Details Of Operations In Sequence & Remarks 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 - TANG PIN COMING UP ON TONGS WHEN USING THEM FOR BACK-UP, POUNDED PIN DOWN ALL THE WAY SAFETY MEHL 3171 MACP
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TOUR 3 SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME 20:00 END TIME 24:00

<b>BITS</b> Bit Number: 2 Size: 159 IADC Code: [ ] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12864408 Jts: 7.9 7.9 7.9 Depth Out (m): 465.00 Total Drilled (m): 875.00 Hrs Run Today: 3.25 Cumulative Hrs Run: 11.00 Entry Date: 28-Mar-2017	<b>DRILLING ASSEMBLY</b> No. Component OD ID Length 1 BIT 159 1 0.21 1 1" RESEALED 28 3/2810 MOTOR 126 1 8.40 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG POLY MODEL 118 70 9.32 1 5" GAP SUB 130 68 1.66 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.40 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.5" HWDP 114 73 9.32 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 47 4.5" HWDP 114 73 127.25 29 Drill Pipe Stands 845.75 0 Drill Pipe Singles 0.00 Kelly Down: [ ] Torque At Bottom: [ ] Fill On Bottom: [ ] Weight of DC: [ ] Weight of String: [ ] Hole Drag: [ ] Torque At Bottom: [ ] Fill On Bottom: [ ]	<b>MUD RECORD</b> Mud Type: Water Time: 22:45 Density: 1130 Funnel Viscosity: 30 Fluid Loss: 11 pH: 11 Location Of Sample: TANK 2 Depth: 1276.00 PVT: 71 Circulation: [ ] Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 15800 3.75	<b>DEVIATION SURVEYS</b> Time Depth Deviation Direction Type 4:00 1160 1130 1700 4:00 1160 1130 1700	<b>TIME LOG</b> From To Elapsed Code Details Of Operations In Sequence & Remarks 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 - BUCKET AND WASHGUN HOSE LEFT AT BOTTOM OF STAIRS, KEEP WALKWAYS AND STAIRWAYS CLEAR SAFETY MEHL 3216 MACP
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<b>FRONT PAGE SUMMARY</b>				Tour Sheet Serial Number PREC465 20170328 1C	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 28	<b>DAILY CHECKS</b>				<b>OP RM</b>	
License No 32949	Well Name ARCRES HZ PARKLAND G11-04-081-16	Contractor Precision Drilling, div of PDC	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 100/09-34-80-16W6	(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 (one/crew/month) (9) CAODC Rig Safety Inspection Checklist (one/crew/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Vibs Checked				PA	RT	PA	RT
Company ARC Resources Ltd.	Company # 455	Contractor's Job No 52	Rig No 465	Rig Type HORIZ	ReEntry <input type="checkbox"/>	(1) Rig Site Health & Safety Meeting (one/crew/month) (2) CAODC Rig Safety Inspection Checklist (one/crew/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked				PA	RT	PA	RT	
Signature of Operator's Representative PAUL BOUTILLIER	Signature of Contractor's Rig Manager ROD TOMPKINS	Spoil Date Time 28-Mar-2017	Rig Release Date Time 00:00					ST	ST	ST	ST	ST	ST	



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 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	25176	4566	06:00
Tour 1						1.25			0.75						1.25	2.00										8.00		FAIR
Tour 2		7.75				3.25		0.25														0.75				12.00		OVERCAST
Tour 3		3.25				0.50		0.25																		4.00		Wind Direction
TOTAL		11.00				3.75	1.25	0.50	0.75					1.25	2.00							1.25	2.25			24.00		Wind Strength

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

<b>BITS</b> Bit Number: 2 Size: 159 IADC Code: [ ] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12864408 Jct: 7.9 7.9 7.9 7.9 Depth Out (m): 465.00 Total Drilled (m): [ ] Hrs Run Today: 0.00 Cumulative Hrs Run: 0.00 Entry Date: 28-Mar-2017	<b>DRILLING ASSEMBLY</b> No Component OD ID Length 1 1" RESEALED 28 3.7810 MOTOR 126 1 8.40 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.32 1 5" GAP SUB 130 68 1.66 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.40 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.5" HWDP 114 73 9.32 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 47 4.5" HWDP 114 73 127.25 22 Drill Pipe Stands 641.30 1 Drill Pipe Single 9.76 Kelly Down: [ ] Torque At Bottom: [ ] Fill On Bottom: [ ] Weight of DC: [ ] Weight of String: [ ]	<b>MUD RECORD</b> 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: [ ] <b>Circulation</b> Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 12900 11.50 Remarks: [ ]	<b>DEVIATION SURVEYS</b> Time Depth Deviation Direction Type 14:30 811.43 6.00 175.9 15:00 840.68 4.20 170.8 15:30 869.58 3.10 165 16:00 898.60 0.80 155 16:30 927.80 0.70 178 17:15 986.28 0.70 243.5 <b>SOLIDS CONTROL</b> Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 12.00 1160 1140 1710 Centrifuge #2 12.00 1160 1140 1710 <b>MUD MATERIALS ADDED</b> Product Amount Type Remarks: [ ]	<b>TIME LOG</b> 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 VISUALLY INSPECTED FLARE & DEGASSER LINES, DID WEEKLY AER INSPECTION RT FUNCTION ALL BOP EQUIPMENT OK SAFETY Safety Topic MEHL 3216 MACP
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TOUR 2 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME 8:00 END TIME 20:00

<b>BITS</b> Bit Number: 2 Size: 159 IADC Code: [ ] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12864408 Jct: 7.9 7.9 7.9 7.9 Depth Out (m): 465.00 Total Drilled (m): 685.00 Hrs Run Today: 7.75 Cumulative Hrs Run: 7.75 Entry Date: 28-Mar-2017	<b>DRILLING ASSEMBLY</b> No Component OD ID Length 1 BIT 159 1 0.21 1 1" RESEALED 28 3.7810 MOTOR 126 1 8.40 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.32 1 5" GAP SUB 130 68 1.66 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.40 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.5" HWDP 114 73 9.32 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 47 4.5" HWDP 114 73 127.25 22 Drill Pipe Stands 641.30 1 Drill Pipe Single 9.76 Kelly Down: [ ] Torque At Bottom: [ ] Fill On Bottom: [ ] Weight of DC: [ ] Weight of String: [ ]	<b>MUD RECORD</b> 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: [ ] <b>Circulation</b> Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 12900 11.50 Remarks: [ ]	<b>DEVIATION SURVEYS</b> Time Depth Deviation Direction Type 14:30 811.43 6.00 175.9 15:00 840.68 4.20 170.8 15:30 869.58 3.10 165 16:00 898.60 0.80 155 16:30 927.80 0.70 178 17:15 986.28 0.70 243.5 <b>SOLIDS CONTROL</b> Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 12.00 1160 1140 1710 Centrifuge #2 12.00 1160 1140 1710 <b>MUD MATERIALS ADDED</b> Product Amount Type Remarks: [ ]	<b>TIME LOG</b> 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 - TANG PIN COMING UP ON TONGS WHEN USING THEM FOR BACK-UP, POUNDED PIN DOWN ALL THE WAY SAFETY Safety Topic MEHL 3171 MACP
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TOUR 3 SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME 20:00 END TIME 24:00

<b>BITS</b> Bit Number: 2 Size: 159 IADC Code: [ ] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12864408 Jct: 7.9 7.9 7.9 7.9 Depth Out (m): 465.00 Total Drilled (m): 875.00 Hrs Run Today: 3.25 Cumulative Hrs Run: 11.00 Entry Date: 28-Mar-2017	<b>DRILLING ASSEMBLY</b> No Component OD ID Length 1 BIT 159 1 0.21 1 1" RESEALED 28 3.7810 MOTOR 126 1 8.40 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.32 1 5" GAP SUB 130 68 1.66 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.40 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.5" HWDP 114 73 9.32 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 47 4.5" HWDP 114 73 127.25 29 Drill Pipe Stands 845.75 0 Drill Pipe Single 0.00 Kelly Down: [ ] Torque At Bottom: [ ] Fill On Bottom: [ ] Weight of DC: [ ] Weight of String: [ ]	<b>MUD RECORD</b> 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: [ ] <b>Circulation</b> Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 15800 3.75 Remarks: [ ]	<b>DEVIATION SURVEYS</b> Time Depth Deviation Direction Type 4:00 1160 1130 1700 4:00 1160 1130 1700 <b>SOLIDS CONTROL</b> Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 4.00 1160 1130 1700 Centrifuge #2 4.00 1160 1130 1700 <b>MUD MATERIALS ADDED</b> Product Amount Type Remarks: [ ]	<b>TIME LOG</b> 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 - BUCKET AND WASHGUN HOSE LEFT AT BOTTOM OF STAIRS, KEEP WALKWAYS AND STAIRWAYS CLEAR SAFETY Safety Topic MEHL 3216 MACP
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<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number <b>PREC465 20170328 1C</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>03</b>	Day <b>28</b>	<b>DAILY CHECKS</b>	<b>OP RM</b>
License No <b>32949</b>	Well Name <b>ARCRES HZ PARKLAND G11-04-081-16</b>	Surface Location <b>11-4-81-16 W6</b>	Prov <b>BC</b>	Loc Type <b>DLS</b>	Unique Well Id <b>100/09-34-80-16W6</b>	(1) Daily Walk Around Inspection (2) Detailed Inspection - Weighly (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 (one/crew/month) (9) CAODC Rig Safety Inspection Checklist (one/crew/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Vibs Checked		PA RT PA RT PA RT PA RT PA RT PA RT ST ST
Company <b>ARC Resources Ltd.</b>	Contractor <b>Precision Drilling, div of PDC</b>	Contractor's Job No <b>52</b>	Rig No <b>465</b>	Well Type <b>HORIZ</b>	ReEntry <input type="checkbox"/>	(1) Rig Site Health & Safety Meeting (one/crew/month) (2) CAODC Rig Safety Inspection Checklist (one/crew/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked		ST ST
Operator's Representative <b>PAUL BOUTILLIER</b>	Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>	Squad Date Time <b>28-Mar-2017</b>	Rig Release Date Time <b>00:00</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				
Code	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Dring 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	Hours	Rate	Temp	Wind Direction	Wind Strength		
Tour 1						1.25			0.75						1.25	2.00										8.00	25176	4566	06:00	2	OVERCAST	FAIR
Tour 2		7.75				3.25	0.25																			12.00						
Tour 3		3.25				0.50	0.25																			4.00						
TOTAL		11.00				3.75	1.25	0.50	0.75						1.25	2.00										24.00						

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

<b>BITS</b> Bit Number: <b>2</b> Size: <b>159</b> IADC Code: <b>159</b> Manufacturer: <b>HALIBURTON</b> Type: <b>MMD64DR</b> Serial No: <b>12864408</b> Jct: <b>7.9 7.9 7.9 7.9</b> Depth Out (m): <b>7.9 7.9</b> Depth In (m): <b>465.00</b> Total Drilled (m): <b>465.00</b> Hrs Run Today: <b>0.00</b> Cumulative Hrs Run: <b>0.00</b> Entry Date: <b>28-Mar-2017</b>	<b>DRILLING ASSEMBLY</b> No. Component OD ID Length 1 BIT 159 1 0.21 1 2" REPALED 28 3.7810 MOTOR 126 1 8.40 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.32 1 5" GAP SUB 130 68 1.66 1 5" UBHO SUB 116 64 0.80 1 4.75" NON MAG FLEX MODEL 118 70 28.40 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.5" HWDP 114 73 9.32 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 47 4.5" HWDP 114 73 127.25 22 Drill Pipe Stands 641.30 1 Drill Pipe Singles 9.76 Kelly Down: <b>-6.56</b> Tare: <b>1150.00</b> Weight of DC: <b>59.00</b> Weight of String: <b>59.00</b>	<b>MUD RECORD</b> Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Other Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 12900 11.50 Remarks	<b>DEVIATION SURVEYS</b> Time Depth Deviation Direction Type 18:00 1015.51 0.60 287.6 18:30 1044.69 0.70 265.9 19:00 1073.81 0.70 265.5 19:30 1103.09 0.70 261.8 20:00 1132.30 0.30 234.5 SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 12.00 1160 1140 1710 Centrifuge #2 12.00 1160 1140 1710 MUD MATERIALS ADDED Product Amount Type	<b>TIME LOG</b> From To Elapsed Code Details Of Operations In Sequence & Remarks 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 VISUALLY INSPECTED FLARE & DEGASSER LINES, DID WEEKLY AER INSPECTION RT FUNCTION ALL BOP EQUIPMENT OK SAFETY Safety Topic MEHL 3216 MACP PRE-SPUD 45 3216 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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TOUR **2** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **8:00** END TIME **20:00**

<b>BITS</b> Bit Number: <b>2</b> Size: <b>159</b> IADC Code: <b>159</b> Manufacturer: <b>HALIBURTON</b> Type: <b>MMD64DR</b> Serial No: <b>12864408</b> Jct: <b>7.9 7.9 7.9 7.9</b> Depth Out (m): <b>7.9 7.9</b> Depth In (m): <b>465.00</b> Total Drilled (m): <b>685.00</b> Hrs Run Today: <b>7.75</b> Cumulative Hrs Run: <b>7.75</b> Entry Date: <b>28-Mar-2017</b>	<b>DRILLING ASSEMBLY</b> No. Component OD ID Length 1 BIT 159 1 0.21 1 2" REPALED 28 3.7810 MOTOR 126 1 8.40 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.32 1 5" GAP SUB 130 68 1.66 1 5" UBHO SUB 116 64 0.80 1 4.75" NON MAG FLEX MODEL 118 70 28.40 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.5" HWDP 114 73 9.32 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 47 4.5" HWDP 114 73 127.25 22 Drill Pipe Stands 641.30 1 Drill Pipe Singles 9.76 Kelly Down: <b>-6.56</b> Tare: <b>1150.00</b> Weight of DC: <b>59.00</b> Weight of String: <b>59.00</b>	<b>MUD RECORD</b> Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Other Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 12900 11.50 Remarks	<b>DEVIATION SURVEYS</b> Time Depth Deviation Direction Type 18:00 1015.51 0.60 287.6 18:30 1044.69 0.70 265.9 19:00 1073.81 0.70 265.5 19:30 1103.09 0.70 261.8 20:00 1132.30 0.30 234.5 SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 12.00 1160 1140 1710 Centrifuge #2 12.00 1160 1140 1710 MUD MATERIALS ADDED Product Amount Type	<b>TIME LOG</b> From To Elapsed Code Details Of Operations In Sequence & Remarks 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 - TANG PIN COMING UP ON TONGS WHEN USING THEM FOR BACK-UP, POUNDED PIN DOWN ALL THE WAY SAFETY Safety Topic MEHL 3171 MACP DERRICK CONNECTIONS 52 3171 TOUR <b>3</b> SIGNATURE OF DRILLER <b>ERIC OBRIEN</b> START TIME <b>20:00</b> END TIME <b>24:00</b>
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TOUR **3** SIGNATURE OF DRILLER **ERIC OBRIEN** START TIME **20:00** END TIME **24:00**

<b>BITS</b> Bit Number: <b>2</b> Size: <b>159</b> IADC Code: <b>159</b> Manufacturer: <b>HALIBURTON</b> Type: <b>MMD64DR</b> Serial No: <b>12864408</b> Jct: <b>7.9 7.9 7.9 7.9</b> Depth Out (m): <b>7.9 7.9</b> Depth In (m): <b>465.00</b> Total Drilled (m): <b>875.00</b> Hrs Run Today: <b>3.25</b> Cumulative Hrs Run: <b>11.00</b> Entry Date: <b>28-Mar-2017</b>	<b>DRILLING ASSEMBLY</b> No. Component OD ID Length 1 BIT 159 1 0.21 1 2" REPALED 28 3.7810 MOTOR 126 1 8.40 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.32 1 5" GAP SUB 130 68 1.66 1 5" UBHO SUB 116 64 0.80 1 4.75" NON MAG FLEX MODEL 118 70 28.40 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.5" HWDP 114 73 9.32 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 47 4.5" HWDP 114 73 127.25 29 Drill Pipe Stands 845.75 0 Drill Pipe Singles 0.00 Kelly Down: <b>-11.25</b> Tare: <b>1340.00</b> Weight of DC: <b>61.00</b> Weight of String: <b>61.00</b>	<b>MUD RECORD</b> Mud Type: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Other Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 15800 3.75 Remarks	<b>DEVIATION SURVEYS</b> Time Depth Deviation Direction Type 4:00 1160 1130 1700 4:00 1160 1130 1700 SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 4.00 1160 1130 1700 Centrifuge #2 4.00 1160 1130 1700 MUD MATERIALS ADDED Product Amount Type	<b>TIME LOG</b> From To Elapsed Code Details Of Operations In Sequence & Remarks 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 - BUCKET AND WASHGUN HOSE LEFT AT BOTTOM OF STAIRS, KEEP WALKWAYS AND STAIRWAYS CLEAR SAFETY Safety Topic MEHL 3216 MACP REVIEW INCIDENTS 63 3216
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<b>FRONT PAGE SUMMARY</b>		Tour Sheet Number PREC465 20170330 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 30	<b>DAILY CHECKS</b>	OP RM
License No 32949	Well Name ARCRES HZ PARKLAND G11-04-081-16	Surface Location 11-4-81-16 W6	Plow BC	Loc Type DLS	Unique Well ID 100/09-34-80-16W6	Re-entry <input type="checkbox"/>	(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Postcard If Required (4) Well Licence & Block Diagram Posted (5) Flow Lines Staked (6) BOP Tests Performed (7) Visually Inspected BOPs-Flow Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (one/crow/month) (9) CADCDC Rig Safety Inspection Checklist (one/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 AL RT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No. 52	Rig No. 465	Well Type HORIZ	Squad Date/Time 28-Mar-2017	Rig Release Date/Time 00:15		
Operator 17DR10048	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					
Hour 1																										8.00	34928	4566	06:00	-1	OVERCAST	Wind Direction	Wind Strength
Hour 2																										12.00							
Hour 3																										4.00							
TOTAL																										24.00							

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: 2 Size: 159 IADC Code: 1 Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12864408 JMS: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 Depth In (m): 465.00 Total Drilled (m): 1552.00 Hrs Run Today: 6.00 Cumulative Hrs Run: 37.00 Entry Date: 28-Mar-2017	No: 1 Component: BIT OD: 159 ID: 102.1 Length: 1.840 1.5" GAP SUB 1.5" UBHO SUB 4.75" CROSSOVER SUB 4.5" HWDP 5" HYDMECH JARS 4.75" CROSSOVER SUB 4.5" HWDP 57 Drill Pipe Standards: 1515.01 Singles: 0.00	Mud Type: Water Water: <input checked="" type="checkbox"/> Oil: <input type="checkbox"/> Other: <input type="checkbox"/> Time: 01:00 - 03:00 Density: 1155 Funnel Viscosity: 30 Fluid Loss: 10 pH: 10.5 Location of Sample: SHAKERS SHAKERS Depth: 1885.00 PVT: 69 79 Circulation Pump # 1 Type: SINGLE Liner Size: 127 SPM: 104 Pressure: 16000 Hs Run: 8.00	Time: 00:30 - 04:30 Depth: 1860.54 - 1933.15 Deviation: 22.90 - 38.20 Direction: 140.2 - 142 Type: 7 0:15 1875.07 26.90 139.7 02:00 1889.60 31.30 138.7 02:45 1904.10 34.50 141.2 03:45 1918.60 37.30 142.2 04:30 1933.15 38.20 142	From: 0:00 To: 0:15 Elapsed: 0:15 Code: 7 Details of Operations In Sequence & Remarks RIG SERVICE, GREASE AND SERVICE TOP DRIVE. FIT ANNUAL (22SECS TO CLOSE). 0:15 6:15 6.00 2 DRILL 159MM BUILD SECTION FROM 1866 - 2017M 6:15 7:45 1.50 5 ACCUMULATED TIME WORKING PIPE AND CONNECTIONS 7:45 8:00 0.25 21 CREW CHANGE HAND OVER MEETING, DISCUSSED ONGOING TASKS, HAZARD IDS AND OBSERVATIONS WITH BOTH CREWS.
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOILS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
Kelly Down: -3.51 Total: 2017.00 Weight of DC: 41.95 Weight of String: 72.00	Hole Drag: 8 Up: 12 Down: 12 Torque At Bottom: 7000 Fill On Bottom:	Pump # 1 Pressure: 4330 Strokes/min: 56 Depth: 1900.00	Equipment Name: Centrifuge #1, #2 Hours Run: 8.00 Intake Density: 1155 Over Flow Density: 1135 Under Flow Density: 1700	LIME: 6 EACH CALCARB 0: 2 EACH CALCARB 325: 2 EACH ENERFIBER: 2 EACH ENERSCAV: 1 EACH
<b>TOUR 2</b>	<b>SIGNATURE OF DRILLER</b>	<b>ERIC OBRIEN</b>	<b>START TIME</b>	<b>END TIME</b>
<b>2</b>	<b>ERIC OBRIEN</b>	<b>8:00</b>	<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: 2 Size: 159 IADC Code: 1 Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12864408 JMS: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 Depth In (m): 465.00 Total Drilled (m): 1710.00 Hrs Run Today: 7.25 Cumulative Hrs Run: 44.25 Entry Date: 28-Mar-2017	No: 1 Component: BIT OD: 159 ID: 102.1 Length: 1.840 1.5" GAP SUB 1.5" UBHO SUB 4.75" CROSSOVER SUB 4.5" HWDP 5" HYDMECH JARS 4.75" CROSSOVER SUB 4.5" HWDP 57 Drill Pipe Standards: 1659.88 Singles: 9.74	Mud Type: Water Water: <input checked="" type="checkbox"/> Oil: <input type="checkbox"/> Other: <input type="checkbox"/> Time: 08:00 - 12:00 Density: 1150 Funnel Viscosity: 30 Fluid Loss: 10 pH: 10.5 Location of Sample: TANK 2 TANK 2 Depth: 2017.00 PVT: 69 57 Circulation Pump # 2 Type: SINGLE Liner Size: 127 SPM: 104 Pressure: 17300 Hs Run: 9.75	Time: 08:15 - 12:00 Depth: 2006.01 - 2078.59 Deviation: 49.10 - 70.80 Direction: 137.6 - 140.7 Type: 2 09:00 2020.49 52.10 137.4 09:45 2034.97 57.20 137.4 10:30 2049.54 62.70 139.7 11:15 2064.11 67.50 141.7 12:00 2078.59 70.80 140.7	From: 8:00 To: 12:00 Elapsed: 4:00 Code: 2 Details of Operations In Sequence & Remarks DRILL 159MM BUILD SECTION FROM 2017M TO 2107M, DISPLACED TO INVERT @ 2107M 12:00 13:00 1.00 5 ACCUMULATED TIME WORKING PIPE AND CONNECTIONS 13:15 16:30 3.25 2 DRILL 159MM BUILD SECTION FROM 2107M TO 2175M 16:30 17:15 0.75 5 ACCUMULATED TIME WORKING PIPE AND CONNECTIONS 17:15 17:30 0.25 5 CIRCULATE HOLE CLEAN PRIOR TO TRIP 17:30 17:45 0.25 21 SAFETY MEETING PRIOR TO TRIPPING OUT OF HOLE, REVIEW CTA 2-5 17:45 19:45 2.00 6B TRIP OUT OF HOLE, FLOW CHECK @ 2174M, 2049M, 1059M 19:45 20:00 0.25 21 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>SOILS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
Kelly Down: -0.12 Total: 2175.00 Weight of DC: 38.64 Weight of String: 72.00	Hole Drag: 10 Up: 14 Down: 14 Torque At Bottom: 8100 Fill On Bottom:	Pump # 2 Pressure: 4330 Strokes/min: 56 Depth: 2043.00 2 6850 56 2136.00	Equipment Name: Centrifuge #1, #2 Hours Run: 8.00 Intake Density: 1170 Over Flow Density: 1150 Under Flow Density: 1700	LIME: 44 SX CALCIUM CHLORIDE: 32 SX CES SECONDARY: 1 BBL CES WETTING AGENT: 1 BBL ENERMUL: 1 BBL BARITE: 60 SX
<b>TOUR 3</b>	<b>SIGNATURE OF DRILLER</b>	<b>DAVE LOEWEN</b>	<b>START TIME</b>	<b>END TIME</b>
<b>3</b>	<b>DAVE LOEWEN</b>	<b>20:00</b>	<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: 3 Size: 159 IADC Code: 2 Manufacturer: REED Type: SK413M-A1G-2 Serial No: E232846 JMS: 9.5 9.5 9.5 9.5 Depth Out (m): 9.5 Depth In (m): 2175.00 Total Drilled (m): 0.00 Hrs Run Today: 0.00 Entry Date:	No: 1 Component: BIT OD: 159 ID: 102.1 Length: 1.840 1.5" GAP SUB 1.5" UBHO SUB 4.75" CROSSOVER SUB 4.5" HWDP 5" HYDMECH JARS 4.75" CROSSOVER SUB 4.5" HWDP 57 Drill Pipe Standards: 1659.88 Singles: 9.74	Mud Type: Water Water: <input checked="" type="checkbox"/> Oil: <input type="checkbox"/> Other: <input type="checkbox"/> Time: 08:00 - 12:00 Density: 1150 Funnel Viscosity: 30 Fluid Loss: 10 pH: 10.5 Location of Sample: TANK 2 TANK 2 Depth: 2017.00 PVT: 69 57 Circulation Pump # 2 Type: SINGLE Liner Size: 127 SPM: 104 Pressure: 17300 Hs Run: 9.75	Time: 08:15 - 12:00 Depth: 2006.01 - 2078.59 Deviation: 49.10 - 70.80 Direction: 137.6 - 140.7 Type: 2 09:00 2020.49 52.10 137.4 09:45 2034.97 57.20 137.4 10:30 2049.54 62.70 139.7 11:15 2064.11 67.50 141.7 12:00 2078.59 70.80 140.7	From: 20:00 To: 20:15 Elapsed: 0:15 Code: 21 Details of Operations In Sequence & Remarks SAFETY MEETING HELD PRIOR TO TRIPPING OUT OF HOLE, REVIEWED CTA 2-5 20:15 21:15 1.00 6B TRIP OUT OF HOLE, FLOW CHECK @ 425M, 0M. HOLE FILL VOL. - CAL=9.4M3 ACT.=11.06M3 DIFF.=1.66M3 21:15 21:30 0.25 21 SAFETY MEETING HELD PRIOR TO HANDLING DIRECTIONAL TOOLS. 21:30 23:45 2.25 20D HANDLE DIRECTIONAL TOOLS 23:45 24:00 0.25 7 RIG SERVICE, GREASE AND SERVICE TOP DRIVE. FIT LOWER PIPERAMS (6SECS TO CLOSE).
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOILS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
Kelly Down: 0 Total: 2175.00 Weight of DC: 38.64 Weight of String: 72.00	Hole Drag: 0 Up: 0 Down: 0 Torque At Bottom: 340 Fill On Bottom:	Pump # 2 Pressure: 4330 Strokes/min: 56 Depth: 2043.00 2 2.00 10 340	Equipment Name: Centrifuge #1, #2 Hours Run: 2.00 Intake Density: 10 Over Flow Density: 10 Under Flow Density: 340	LIME: 40 SX CALCIUM CHLORIDE: 32 SX CES SECONDARY: 1 BBL CES WETTING AGENT: 1 BBL ENERMUL: 1 BBL BARITE: 60 SX
<b>TOUR 4</b>	<b>SIGNATURE OF DRILLER</b>	<b>DAVE LOEWEN</b>	<b>START TIME</b>	<b>END TIME</b>
<b>4</b>	<b>DAVE LOEWEN</b>	<b>24:00</b>	<b>00:00</b>	





<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number <b>PREC465 20170331 1A</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>03</b>	Day <b>31</b>	<b>DAILY CHECKS</b>	<b>OP RM</b>
License No <b>32949</b>	Well Name <b>ARCRES HZ PARKLAND G11-04-081-16</b>	Surface Location <b>11-4-81-16 W6</b>	Prov <b>BC</b>	Loc Type <b>DLS</b>	Unique Well ID <b>100/09-34-80-16W6</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 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>52</b>	Rig No <b>465</b>	Well Type <b>HORIZ</b>	Spool Date Time <b>28-Mar-2017</b>	Rig Release Date Time <b>00:15</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) Cover Slides Checked (5) Motor Vibs Checked	RT RT RT RT
Operator's Representative <b>PAUL BOUTILLIER</b>	Contractor's Representative <b>ROD TOMPKINS</b>							CAODC

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
Rig Up																											31737
Tour 1																											4566
Tour 2																											06:00
Tour 3																											12
TOTAL																											OVERCAST
																											WIND DIRECTION
																											WIND STRENGTH
																											WEATHER
																											FAIR

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

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number <b>3</b>	Size <b>159</b>	No <b>1</b>	Component <b>BIT</b>	OD <b>159</b>	ID <b>10.21</b>	Mud Type <b>Water</b>	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	Other <input type="checkbox"/>
IADC Code	Manufacturer <b>REED</b>	Time <b>07:45</b>	Depth <b>2275.23</b>	Deviation <b>88.70</b>	Direction <b>123.5</b>	Equipment Name	Hours Run	Intake Density	Over Flow Density
Type <b>SK413M-A1G-Z</b>	Serial No <b>E232846</b>	Centrifuge #1	4.00	1200	1190	1740			
Jars <b>9.5 9.5</b>	Depth Out (m) <b>2175.00</b>	MUD MATERIALS ADDED			Remarks <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>				
Total Drilled (m) <b>132.00</b>	Hrs Run Today <b>2.25</b>	REDUCED PUMP SPEED							
Cumulative Hrs Run <b>2.25</b>	Entry Date <b>31-Mar-2017</b>	Pump #	Pressure	Strokes/min	Depth				
CUTTING STRUCTURE		1	2	56	2187.80				
METRES DRILLED		HOLE CONDITION							
		Hole Drag	Up	4	Down	5			
		8000							
		REDUCED PUMP SPEED							
		1	6800	56	@	2187.80			
		HOLE CONDITION							
		Hole Drag	Up	4	Down	5			
		8000							
		REDUCED PUMP SPEED							
		1	6800	56	@	2187.80			
		HOLE CONDITION							
		Hole Drag	Up	4	Down	5			
		8000							

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 <b>3</b>	Size <b>159</b>	No <b>1</b>	Component <b>BIT</b>	OD <b>159</b>	ID <b>10.21</b>	Mud Type <b>Water</b>	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	Other <input type="checkbox"/>
IADC Code	Manufacturer <b>REED</b>	Time <b>10:15</b>	Depth <b>2464.15</b>	Deviation <b>87.00</b>	Direction <b>120.8</b>	Equipment Name	Hours Run	Intake Density	Over Flow Density
Type <b>SK413M-A1G-Z</b>	Serial No <b>E232846</b>	Centrifuge #1	7.00	1180	1070	1850			
Jars <b>9.5 9.5</b>	Depth Out (m) <b>2175.00</b>	MUD MATERIALS ADDED			Remarks <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>				
Total Drilled (m) <b>921.00</b>	Hrs Run Today <b>8.00</b>	REDUCED PUMP SPEED							
Cumulative Hrs Run <b>10.25</b>	Entry Date <b>31-Mar-2017</b>	Pump #	Pressure	Strokes/min	Depth				
CUTTING STRUCTURE		1	1	56	2363.80				
METRES DRILLED		HOLE CONDITION							
		Hole Drag	Up	6	Down	8			
		9200							
		REDUCED PUMP SPEED							
		1	7300	56	@	2363.80			
		HOLE CONDITION							
		Hole Drag	Up	6	Down	8			
		9200							
		REDUCED PUMP SPEED							
		1	7460	56	@	2363.80			
		HOLE CONDITION							
		Hole Drag	Up	6	Down	8			
		9200							

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 <b>3</b>	Size <b>159</b>	No <b>1</b>	Component <b>BIT</b>	OD <b>159</b>	ID <b>10.21</b>	Mud Type <b>Water</b>	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	Other <input type="checkbox"/>
IADC Code	Manufacturer <b>REED</b>	Time <b>23:45</b>	Depth <b>3261.43</b>	Deviation <b>87.80</b>	Direction <b>120.2</b>	Equipment Name	Hours Run	Intake Density	Over Flow Density
Type <b>SK413M-A1G-Z</b>	Serial No <b>E232846</b>	Centrifuge #1	4.00	1170	1070	1800			
Jars <b>9.5 9.5</b>	Depth Out (m) <b>2175.00</b>	MUD MATERIALS ADDED			Remarks <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>				
Total Drilled (m) <b>1115.00</b>	Hrs Run Today <b>2.50</b>	REDUCED PUMP SPEED							
Cumulative Hrs Run <b>12.75</b>	Entry Date <b>31-Mar-2017</b>	Pump #	Pressure	Strokes/min	Depth				
CUTTING STRUCTURE		1	2	56	3059.00				
METRES DRILLED		HOLE CONDITION							
		Hole Drag	Up	8	Down	10			
		10000							
		REDUCED PUMP SPEED							
		2	8230	56	@	3269.00			
		HOLE CONDITION							
		Hole Drag	Up	8	Down	10			
		10000							







<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number PREC465 20170331 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 31	<b>DAILY CHECKS</b>		OP RM		
License No 32949	Well Name ARCRES HZ PARKLAND G11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 100/09-34-80-16W6	<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 & 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) Cover Slower Checked <input type="checkbox"/> (12) Major Vibs Checked		AL	RT		
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor Job No 52	Rig No 465	Well Type HORIZ	Squad Date Time 28-Mar-2017	00:15	AL	RT	AL		
Operator 17DR0048	Signature of Operator's Representative PAUL BOUTILLIER	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
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	Ngble BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other		31737	3191
Tour 1		2.25			1.00	3.25	0.25		0.75																	8.00	06:00	2
Tour 2		8.00			3.50		0.25																			12.00	OVERCAST	
Tour 3		2.50			1.25		0.25																			4.00	WINDY	
TOTAL		12.75			5.75	3.25	0.75		0.75																	24.00	FAIR	

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

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG	Details Of Operations In Sequence & Remarks	
					From	To
Bit Number: 3 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: E232846 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2175.00 Total Drilled (m): 132.00 Hrs Run Today: 2.25 Cumulative Hrs Run: 2.25 Entry Date: 77	1 BIT 159 1 0.21 1 15" GAP SUB 130 68 1.66 2 4.75" SLIDE REAMER 130 58 1.17 1 4.75" CROSSOVER SUB 133 63 1.72 2 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 1.56 1 AGITATOR 120 61 9.04 1 4.75" CROSSOVER SUB 133 63 0.78 77 Drill Pipe Stands 2246.42 1 Drill Pipe Singles 9.71	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 2 SINGLE 127 104 27600 4.00 Pump # 2 Pressure 6800 Strokes/min 56 @ 2187.80 Circulation: 2 SINGLE 127 104 27600 4.00	Time: 18:00 2952.66 89.70 120 18:15 2980.58 89.10 122.5 18:45 3008.68 89.30 122.3 19:15 3036.54 89.50 122.9 19:45 3064.51 88.70 122	From: To: Elapsed: Code:	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 **ERIC OBRIEN** START TIME **8:00** END TIME **20:00**

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG	Details Of Operations In Sequence & Remarks	
					From	To
Bit Number: 3 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: E232846 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2175.00 Total Drilled (m): 921.00 Hrs Run Today: 8.00 Cumulative Hrs Run: 10.25 Entry Date: 31-Mar-2017	1 BIT 159 1 0.21 1 15" GAP SUB 130 68 1.66 2 4.75" SLIDE REAMER 130 58 1.17 1 4.75" CROSSOVER SUB 133 63 0.94 4 4.5" DP 135 80 39.80 1 4.75" CROSSOVER SUB 133 63 0.78 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 93 4.5" DP 135 80 39.80 1 4.75" CROSSOVER SUB 133 63 0.78 11 Drill Pipe Stands 307.34 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 1 SINGLE 127 112 32000 6.50 2 SINGLE 127 112 32000 5.00 Pump # 1 Pressure 7300 Strokes/min 56 @ 2363.00 1 7460 @ 56 @ 3200.00 1 7720 @ 56 @ 3200.00	Time: 18:00 2952.66 89.70 120 18:15 2980.58 89.10 122.5 18:45 3008.68 89.30 122.3 19:15 3036.54 89.50 122.9 19:45 3064.51 88.70 122	From: To: Elapsed: Code:	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 - TRUCKS NEEDED CAT TO TOW THEM UP HILL AND SPOTTERS ON LEASE DUE TO MUDDY CONDITIONS AND TIGHT WORK AREAS	

TOUR 3 SIGNATURE OF DRILLER **DAVE LOEWEN** 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: 3 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: E232846 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2175.00 Total Drilled (m): 1115.00 Hrs Run Today: 2.50 Cumulative Hrs Run: 12.75 Entry Date: 31-Mar-2017	1 BIT 159 1 0.21 1 15" GAP SUB 130 68 1.66 2 4.75" SLIDE REAMER 130 58 1.17 1 4.75" CROSSOVER SUB 133 63 0.94 4 4.5" DP 135 80 39.80 1 4.75" CROSSOVER SUB 133 63 0.78 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 93 4.5" DP 135 80 39.80 2 Drill Pipe Stands 58.36 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 2 SINGLE 127 112 33000 4.00 Pump # 2 Pressure 8160 Strokes/min 56 @ 3059.00 2 8230 @ 56 @ 3200.00	Time: 4.00 1170 1070 1800 Centrifuge #1 4.00 1170 1070 1800	From: To: Elapsed: Code:	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 - DUE TO THAWING THE GROUND ROD ON LIGHT TOWER NEEDED TO BE HAMMERED IN MORE.	

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number PREC465 20170401 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 04	Day 01	<b>DAILY CHECKS</b>	OP RM
License No 32949	Well Name ARCRES HZ PARKLAND G11-04-081-16	Surface Location 11-4-81-16 W6	Plow BC	Log Type DLS	Unique Well ID 100/09-34-80-16W6	Run Card 465	Well Type HORIZ	Re-Entry <input type="checkbox"/>
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Company Job No. 52	Squad Date Time 28-Mar-2017	00:15	(1) Daily Walk Around Inspection (2) Detailed Inspection - Weelby (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 (on/crow/month) (9) CAODC Rig Safety Inspection Checklist (on/crow/month) (10) Mast Inspection before Raising or Lowering (11) Cover Saver Checked (12) Motor Vibs Checked			
Operator 17DR0048	Signature of Operator's Representative PAUL BOUTILLIER	Signature of Contractor's Rig Manager ROD TOMPKINS	Rig Release Date Time					



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					5.25																					8.00	26950	4566	
Tour 2					7.75																					12.00	06:00	0	
Tour 3					2.75																					4.00	OVERCAST	Wind Direction	Wind Strength
TOTAL					15.75																					24.00	FAIR	ROAD CONDITION	FAIR

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: 3 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: E232846 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2175.00 Total Drilled (m): 1523.00 Hrs Run Today: 5.25 Cumulative Hrs Run: 18.00 Entry Date: 31-Mar-2017	1 BIT 159 1 0.21 1 4" REAMER BIT ASSTG MOTOR 130 60 9.08 1 4.75" NON MAG FLEX MONEL 118 70 9.49 1 5" GAP SUB 130 68 1.66 2 4.75" NON MAG FLEX MONEL 118 70 18.99 1 4.75" SLIDE REAMER 130 58 1.17 1 4.75" CROSSOVER SUB 133 63 0.94 4 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 93 4.5" DP 135 80 39.20 1 4.75" CROSSOVER SUB 133 63 0.78 16 Drill Pipe Stands 465.83 0 Drill Pipe Singles 0.00	Mud Type: Water Time: 01:00 03:30 Density: 1170 1175 Funnel Viscosity: 55 56 Fluid Loss: pH Location of Sample: SHAKERS SHAKERS Depth: 3334.00 3453.00 PVT: 78 73 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 35500 3.00 2 SINGLE 127 112 35500 5.00	Time: 00:30 3290.54 87.20 116.7 01:00 3319.30 88.80 118.8 01:30 3348.16 88.90 116.3 02:00 3377.14 90.60 115.9 02:30 3406.39 89.80 114.3 03:30 3435.29 88.90 114.7	From: 0:00 To: 0:15 Elapsed: 0:25 Code: 7 Details of Operations In Sequence & Remarks RIG SERVICE, GREASE AND SERVICE TOP DRIVE. FIT ANNULAR (22SECS TO CLOSE). 0:15 5:30 5:25 2 DRILL 159MM LATERAL SECTION FROM 3290M - 3698M 5:30 7:45 2:25 5 ACCUMULATED TIME WORKING PIPE AND CONNECTIONS 7:45 8:00 0:25 21 CREW CHANGE HAND OVER MEETING, DISCUSSED ONGOING TASKS, HAZARD IDS AND OBSERVATIONS WITH BOTH CREWS.
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>BOILER</b>	<b>SAFETY</b>
Kelly Down: -15.51 Total: 3698.00 Weight of DC: 84.61 Weight of String: 68.00	Hole Drag Up: 11 Down: 20 Torque At Bottom: 11000 Fill On Bottom:	Pump # Pressure Strokes/min Depth 1 8450 @ 56 @ 382.80 2 8600 @ 56 @ 350.00	BoilerNo HoursRun pH StackTemp 1 8.00 11 340 2 8.00 11 340	LOCKOUTS: 90 MEHL 2943 MACP

TOUR 2 SIGNATURE OF DRILLER **ERIC OBRIEN** 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: 3 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: E232846 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2175.00 Total Drilled (m): 2208.00 Hrs Run Today: 7.75 Cumulative Hrs Run: 25.75 Entry Date: 31-Mar-2017	1 BIT 159 1 0.21 1 4" REAMER BIT ASSTG MOTOR 130 60 9.08 1 4.75" NON MAG FLEX MONEL 118 70 9.49 1 5" GAP SUB 130 68 1.66 2 4.75" NON MAG FLEX MONEL 118 70 18.99 1 4.75" SLIDE REAMER 130 58 1.17 1 4.75" CROSSOVER SUB 133 63 0.94 4 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 93 4.5" DP 135 80 39.20 1 4.75" CROSSOVER SUB 133 63 0.78 39 Drill Pipe Stands 1135.69 0 Drill Pipe Singles 0.00	Mud Type: Water Time: 08:45 11:45 Density: 1180 1170 Funnel Viscosity: 57 57 Fluid Loss: pH Location of Sample: SHAKER SHAKER Depth: 3754.00 3922.00 PVT: 85 75 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 36200 8.00 2 SINGLE 127 112 36200 3.50	Time: 08:15 3698.01 88.10 114.8 08:45 3727.28 89.90 113.2 09:15 3756.59 89.80 112.9 09:45 3785.95 89.10 114 10:00 3815.10 91.10 114.4 10:30 3844.37 90.60 113.5	From: 8:00 To: 14:00 Elapsed: 6:00 Code: 2 Details of Operations In Sequence & Remarks 8:00 14:00 6:00 2 DRILL 159MM LATERAL SECTION FROM 3698M TO 4262M 14:00 17:00 3:00 5 ACCUMULATED TIME WORKING PIPE AND CONNECTIONS 17:00 17:15 0:25 7 RIG SERVICE, GREASE AND SERVICE TOP DRIVE, FUNCTION UPPER PIPE RAMS, (6 SECS TO CLOSE) 17:15 19:00 1:75 2 DRILL 159MM LATERAL SECTION FROM 4262M - 4383M 19:00 19:45 0:75 5 ACCUMULATED TIME WORKING PIPE AND CONNECTIONS 19:45 20:00 0:25 21 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>BOILER</b>	<b>SAFETY</b>
Kelly Down: -0.37 Total: 4383.00 Weight of DC: 85.75 Weight of String: 68.00	Hole Drag Up: 14 Down: 28 Torque At Bottom: 12000 Fill On Bottom:	Pump # Pressure Strokes/min Depth 2 8780 @ 56 @ 371.80 1 9080 @ 56 @ 394.00 2 9370 @ 56 @ 470.00	BoilerNo HoursRun pH StackTemp 1 4.00 10.5 340 2 4.00 10.5 340	WORKING WITH HYDRAULIC CATWALK: 94 MEHL 2943 MACP

TOUR 3 SIGNATURE OF DRILLER **DAVE LOEWEN** 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: 3 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: E232846 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2175.00 Total Drilled (m): 2412.00 Hrs Run Today: 2.75 Cumulative Hrs Run: 28.50 Entry Date: 31-Mar-2017	1 BIT 159 1 0.21 1 4" REAMER BIT ASSTG MOTOR 130 60 9.08 1 4.75" NON MAG FLEX MONEL 118 70 9.49 1 5" GAP SUB 130 68 1.66 2 4.75" NON MAG FLEX MONEL 118 70 18.99 1 4.75" SLIDE REAMER 130 58 1.17 1 4.75" CROSSOVER SUB 133 63 0.94 4 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 93 4.5" DP 135 80 39.20 1 4.75" CROSSOVER SUB 133 63 0.78 46 Drill Pipe Stands 1339.54 0 Drill Pipe Singles 0.00	Mud Type: Water Time: 21:30 23:30 Density: 1190 1185 Funnel Viscosity: 53 54 Fluid Loss: pH Location of Sample: SHAKER SHAKER Depth: 4445.00 4552.00 PVT: 4445.00 4552.00 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 37200 4.00	Time: 20:00 4367.87 88.40 116 20:45 4397.01 88.00 115.6 21:00 4426.25 89.20 114.4 22:00 4455.31 88.80 114.4 22:30 4484.31 88.70 116.2 23:00 4513.41 90.10 115.1	From: 20:00 To: 22:45 Elapsed: 2:75 Code: 2 Details of Operations In Sequence & Remarks 20:00 22:45 2:75 2 DRILL 159MM HOLE FROM 4383M - 4587M 22:45 23:45 1:00 5 ACCUMULATED TIME WORKING PIPE AND CONNECTIONS 23:45 24:00 0:25 7 RIG SERVICE, GREASE AND SERVICE TOP DRIVE. FIT LOWER PIPERAMS (6SECS TO CLOSE).
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>BOILER</b>	<b>SAFETY</b>
Kelly Down: -0.22 Total: 4587.00 Weight of DC: 84.63 Weight of String: 68.00	Hole Drag Up: 15 Down: 30 Torque At Bottom: 13000 Fill On Bottom:	Pump # Pressure Strokes/min Depth 1 9470 @ 56 @ 433.00 2 9600 @ 56 @ 451.00	BoilerNo HoursRun pH StackTemp 1 4.00 11 340 2 4.00 11 340	HANDLING CHEMICALS: 92 MEHL MACP

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number PREC465 20170401 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 04	Day 01	<b>DAILY CHECKS</b>	OP RM
License No 32949	Well Name ARCRES HZ PARKLAND G11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well Id 100/09-34-80-16W6	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 AL RT AL RT AL RT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor Job No 52	Rig No 465	Well Type HORIZ	Spoil Date Time 28-Mar-2017	Rig Release Date Time 00:15	(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 Stair Checked (5) Motor Vibs Checked	RT RT RT RT
Signature of Operator's Representative PAUL BOUTILLIER	Signature of Contractor's Rig Manager ROD TOMPKINS							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 Drilling 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	Year Down	Walking On	Rig Watch	Other	Hours	Rate	Temp	Wind Direction	Wind Strength		
Tour 1		5.25			2.25		0.25														0.25					8.00	26950	4566	06:00	0		
Tour 2		7.75			3.75		0.25														0.25					12.00	06:00	0	OVERCAST			
Tour 3		2.75			1.00		0.25																			4.00	06:00	0	OVERCAST			
TOTAL		15.75			7.00		0.75														0.50					24.00	26950	4566	06:00	0	FAIR	

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: 3 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: E232846 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2175.00 Total Drilled (m): 1523.00 Hrs Run Today: 5.25 Cumulative Hrs Run: 18.00 Entry Date: 31-Mar-2017	1 BIT 159 1 0.21 1 REAMER 130 60 9.08 1 4.75" NON MAG FLEX MONEL 118 70 9.49 1 5" GAP SUB 130 68 1.66 2 4.75" NON MAG FLEX MONEL 118 70 18.99 1 4.75" SLIDE REAMER 130 58 1.17 1 4.75" CROSSOVER SUB 133 63 0.94 4 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 93 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 16 Drill Pipe Stands 465.83 0 Drill Pipe Singles 0.00	Mud Type: Water Time: 05:30 Density: 1180 Funnel Viscosity: 55 Fluid Loss: 0 pH: 11.17 Location of Sample: SHAKERS Depth: 3554.00 PVT: 70 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 3550 3.00 2 SINGLE 127 112 3550 5.00	Time Depth Deviation Direction Type 03:45 3464.31 90.60 113.5 04:30 3493.51 91.20 113.2 05:00 3522.81 90.20 116.1 05:45 3551.99 89.80 115.5 06:15 3581.22 87.90 113.4 06:45 3610.40 89.50 113	From To Elapsed Code 03:45 04:30 45:00 04:30 05:00 30:00 05:00 05:45 45:00 05:45 06:15 30:00 06:15 06:45 30:00
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOLIDS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
Kelly Down: -15.51 Total: 3698.00 Weight of DC: 84.61 Weight of String: 68.00	Hole Drag Up: 11 Down: 20 Torque At Bottom: 11000 Fill On Bottom	Pump # Pressure Strokes/min Depth 1 8450 @ 56 @ 382.00 2 8600 @ 56 @ 350.00	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 8.00 1180 1070 1800	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>SAFETY</b>	<b>REMARKS</b>	
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	MEHL 2943 MACP	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 - METAL MATS HAD A BIT OF OIL ON THEM CREATING A SLIPPERY SURFACE. CLEANED UP TO AVOID SLIPS.	

TOUR 2 SIGNATURE OF DRILLER **ERIC OBRIEN** 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: 3 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: E232846 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2175.00 Total Drilled (m): 2208.00 Hrs Run Today: 7.75 Cumulative Hrs Run: 25.75 Entry Date: 31-Mar-2017	1 BIT 159 1 0.21 1 REAMER 130 60 9.08 1 4.75" NON MAG FLEX MONEL 118 70 9.49 1 5" GAP SUB 130 68 1.66 2 4.75" NON MAG FLEX MONEL 118 70 18.99 1 4.75" SLIDE REAMER 130 58 1.17 1 4.75" CROSSOVER SUB 133 63 0.94 4 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 93 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 39 Drill Pipe Stands 1135.69 0 Drill Pipe Singles 0.00	Mud Type: Water Time: 12:30 Density: 1180 Funnel Viscosity: 53 Fluid Loss: 0 pH: 11.17 Location of Sample: SHAKER SHAKER Depth: 3975.00 PVT: 75 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 36200 8.00 2 SINGLE 127 112 36200 3.50	Time Depth Deviation Direction Type 11:00 3873.38 89.10 114.8 11:45 3902.46 88.70 111 12:00 3931.31 88.50 111 12:30 3960.54 89.80 111.2 13:00 3989.54 89.20 112.7 13:30 4018.57 89.40 112	From To Elapsed Code 11:00 11:45 45:00 11:45 12:00 15:00 12:00 12:30 30:00 12:30 13:00 30:00 13:00 13:30 30:00
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOLIDS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
Kelly Down: -0.37 Total: 4383.00 Weight of DC: 85.75 Weight of String: 68.00	Hole Drag Up: 14 Down: 28 Torque At Bottom: 12000 Fill On Bottom	Pump # Pressure Strokes/min Depth 2 8780 @ 56 @ 371.00 2 9080 @ 56 @ 394.00 1 9370 @ 56 @ 470.00	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 12.00 1180 1110 1720 Centrifuge #2 12.00 1180 1110 1720	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>SAFETY</b>	<b>REMARKS</b>	
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	MEHL 2943 MACP	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 - FOUND NAIL STICKING OUT OF BOARD, THREW AWAY BOARD.	

TOUR 3 SIGNATURE OF DRILLER **DAVE LOEWEN** 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: 3 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: E232846 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2175.00 Total Drilled (m): 2412.00 Hrs Run Today: 2.75 Cumulative Hrs Run: 28.50 Entry Date: 31-Mar-2017	1 BIT 159 1 0.21 1 REAMER 130 60 9.08 1 4.75" NON MAG FLEX MONEL 118 70 9.49 1 5" GAP SUB 130 68 1.66 2 4.75" NON MAG FLEX MONEL 118 70 18.99 1 4.75" SLIDE REAMER 130 58 1.17 1 4.75" CROSSOVER SUB 133 63 0.94 4 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 93 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 46 Drill Pipe Stands 1339.54 0 Drill Pipe Singles 0.00	Mud Type: Water Time: 23:30 Density: 1180 Funnel Viscosity: 56 Fluid Loss: 0 pH: 11.17 Location of Sample: SHAKER SHAKER Depth: 3975.00 PVT: 75 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 37200 4.00	Time Depth Deviation Direction Type 23:30 4542.70 90.00 114.3	From To Elapsed Code 23:30 23:30 00:00
<b>CUTTING STRUCTURE</b>	<b>HOLE CONDITION</b>	<b>REDUCED PUMP SPEED</b>	<b>SOLIDS CONTROL</b>	<b>MUD MATERIALS ADDED</b>
Kelly Down: -0.22 Total: 4587.00 Weight of DC: 84.63 Weight of String: 68.00	Hole Drag Up: 15 Down: 30 Torque At Bottom: 13000 Fill On Bottom	Pump # Pressure Strokes/min Depth 2 9470 @ 56 @ 433.00 2 9600 @ 56 @ 451.00	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 6.00 1180 1110 1720	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>SAFETY</b>	<b>REMARKS</b>	
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	MEHL 2943 MACP	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 - BOOM LINE WAS HOOKED UP ON A LADDER ON THE SIDE OF THE SUB INSTEAD OF ITS PROPER PLACE ON THE SKID, COULD CAUSE EQUIPMENT	

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number <b>PREC465 20170401 1A</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>04</b>	Day <b>01</b>	<b>DAILY CHECKS</b>	<b>OP RM</b>	
License No <b>32949</b>	Well Name <b>ARCRES HZ PARKLAND G11-04-081-16</b>	Surface Location <b>11-4-81-16 W6</b>	Plow <b>BC</b>	Loc Type <b>DLS</b>	Unique Well ID <b>100/09-34-80-16W6</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) CADCDC Rig Safety Inspection Checklist (over/nightly) (9) Mast Inspection before Raising or Lowering (10) Cover Stowed Checked (11) Motor Vibs Checked		AL RT AL RT AL RT RT RT	
Company <b>ARC Resources Ltd.</b>	Contractor <b>Precision Drilling, div of PDC</b>	Contractor Job No. <b>52</b>	Rig No. <b>465</b>	Well Type <b>HORIZ</b>	Spud Date Time <b>28-Mar-2017</b>	00:15	(1) Rig Site Health & Safety Meeting (over/crew/month) (2) CADCDC Rig Safety Inspection Checklist (over/nightly) (3) Mast Inspection before Raising or Lowering (4) Cover Stowed Checked (5) Motor Vibs Checked		
Operator <b>17DR0048</b>	Signature of Operator's Representative <b>PAUL BOUTILLIER</b>	Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>							Kelly Sliding Top Fuel <b>4787</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	26950 06:00 0
Tour 2		7.75					3.75			0.25																12.00	06:00 0
Tour 3		2.75					1.00			0.25																4.00	OVERCAST Wind Direction Wind Strength CALM
TOTAL		15.75					7.00			0.75																24.00	WEATHER Fair

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>3</b> Size: <b>159</b> IADC Code: <b>REED</b> Manufacturer: <b>REED</b> Type: <b>SK413M-A1G-Z</b> Serial No: <b>E232846</b> JMS: <b>9.5 9.5</b> Depth Out (m): <b>2175.00</b> Total Drilled (m): <b>1523.00</b> Hrs Run Today: <b>5.25</b> Cumulative Hrs Run: <b>18.00</b> Entry Date: <b>31-Mar-2017</b>	No. Component OD ID Length <b>1 BIT 159 1 0.21</b> <b>1 4" SEALER BIT ASSTG MOTOR 130 60 9.08</b> <b>1 4.75" NON MAG FLEX MONEL 118 70 9.49</b> <b>1 5" GAP SUB 130 68 1.66</b> <b>2 4.75" NON MAG FLEX MONEL 118 70 18.90</b> <b>1 4.75" SLIDE REAMER 130 58 1.17</b> <b>1 4.75" CROSSOVER SUB 133 63 0.94</b> <b>1 4.5" DP 135 80 39.00</b> <b>1 4.75" CROSSOVER SUB 133 63 0.78</b> <b>1 5" HYDMECH JARS 130 58 5.20</b> <b>1 4.75" CROSSOVER SUB 133 63 0.78</b> <b>93 4.5" DP 135 80 362.20</b> <b>1 4.75" CROSSOVER SUB 133 63 0.78</b> <b>16 Drill Pipe Stands 465.83</b> <b>0 Drill Pipe Singles 0.00</b>	Mud Type: <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Water Time: <b>07:15 3639.52 90.50 113.4</b> <b>07:45 3668.80 89.30 113</b> Density: <b>9.49</b> Funnel Viscosity: <b>1.66</b> Fluid Loss: <b>1.17</b> pH: <b>0.94</b> Location of Sample: <b>39.00</b> Depth: <b>0.94</b> PVT: <b>39.00</b> Circulation: <b>5.20</b> Pump # Type Liner Size SPM Pressure Hrs Run <b>1 SINGLE 127 112 35500 3.00</b> <b>2 SINGLE 127 112 35500 5.00</b>	Time Depth Deviation Direction Type <b>07:15 3639.52 90.50 113.4</b> <b>07:45 3668.80 89.30 113</b> SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density <b>Centrifuge #1 8.00 1180 1070 1800</b> <b>Centrifuge #2 12.00 1180 1110 1720</b> 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 - METAL MATS HAD A BIT OF OIL ON THEM CREATING A SLIPPERY SURFACE. CLEANED UP TO AVOID SLIPS. SAFETY Safety Topic MEHL 2943 MACP LOCKOUTS 90 2943

TOUR **2** SIGNATURE OF DRILLER **ERIC OBRIEN** 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>3</b> Size: <b>159</b> IADC Code: <b>REED</b> Manufacturer: <b>REED</b> Type: <b>SK413M-A1G-Z</b> Serial No: <b>E232846</b> JMS: <b>9.5 9.5</b> Depth Out (m): <b>2175.00</b> Total Drilled (m): <b>2208.00</b> Hrs Run Today: <b>7.75</b> Cumulative Hrs Run: <b>25.75</b> Entry Date: <b>31-Mar-2017</b>	No. Component OD ID Length <b>1 BIT 159 1 0.21</b> <b>1 4" SEALER BIT ASSTG MOTOR 130 60 9.08</b> <b>1 4.75" NON MAG FLEX MONEL 118 70 9.49</b> <b>1 5" GAP SUB 130 68 1.66</b> <b>2 4.75" NON MAG FLEX MONEL 118 70 18.90</b> <b>1 4.75" SLIDE REAMER 130 58 1.17</b> <b>1 4.75" CROSSOVER SUB 133 63 0.94</b> <b>1 4.5" DP 135 80 39.00</b> <b>1 4.75" CROSSOVER SUB 133 63 0.78</b> <b>1 5" HYDMECH JARS 130 58 5.20</b> <b>1 4.75" CROSSOVER SUB 133 63 0.78</b> <b>93 4.5" DP 135 80 362.20</b> <b>1 4.75" CROSSOVER SUB 133 63 0.78</b> <b>39 Drill Pipe Stands 1135.69</b> <b>0 Drill Pipe Singles 0.00</b>	Mud Type: <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Water Time: <b>14:00 4047.68 89.80 111.9</b> <b>14:15 4077.01 89.10 112.6</b> <b>15:00 4106.32 88.60 113.5</b> <b>15:15 4135.36 88.50 113.7</b> <b>15:45 4164.34 88.20 113.3</b> <b>16:15 4193.27 89.10 113.5</b> Density: <b>9.49</b> Funnel Viscosity: <b>1.66</b> Fluid Loss: <b>1.17</b> pH: <b>0.94</b> Location of Sample: <b>39.00</b> Depth: <b>0.94</b> PVT: <b>39.00</b> Circulation: <b>5.20</b> Pump # Type Liner Size SPM Pressure Hrs Run <b>1 SINGLE 127 112 36200 8.00</b> <b>2 SINGLE 127 112 36200 3.50</b>	Time Depth Deviation Direction Type <b>14:00 4047.68 89.80 111.9</b> <b>14:15 4077.01 89.10 112.6</b> <b>15:00 4106.32 88.60 113.5</b> <b>15:15 4135.36 88.50 113.7</b> <b>15:45 4164.34 88.20 113.3</b> <b>16:15 4193.27 89.10 113.5</b> SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density <b>Centrifuge #1 12.00 1180 1110 1720</b> <b>Centrifuge #2 12.00 1180 1110 1720</b> 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 - FOUND NAIL STICKING OUT OF BOARD, THREW AWAY BOARD. SAFETY Safety Topic MEHL 2943 MACP WORKING WITH HYDRAULIC CATWALK 94 2943

TOUR **3** SIGNATURE OF DRILLER **DAVE LOEWEN** 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>3</b> Size: <b>159</b> IADC Code: <b>REED</b> Manufacturer: <b>REED</b> Type: <b>SK413M-A1G-Z</b> Serial No: <b>E232846</b> JMS: <b>9.5 9.5</b> Depth Out (m): <b>2175.00</b> Total Drilled (m): <b>2412.00</b> Hrs Run Today: <b>2.75</b> Cumulative Hrs Run: <b>28.50</b> Entry Date: <b>31-Mar-2017</b>	No. Component OD ID Length <b>1 BIT 159 1 0.21</b> <b>1 4" SEALER BIT ASSTG MOTOR 130 60 9.08</b> <b>1 4.75" NON MAG FLEX MONEL 118 70 9.49</b> <b>1 5" GAP SUB 130 68 1.66</b> <b>2 4.75" NON MAG FLEX MONEL 118 70 18.90</b> <b>1 4.75" SLIDE REAMER 130 58 1.17</b> <b>1 4.75" CROSSOVER SUB 133 63 0.94</b> <b>1 4.5" DP 135 80 39.00</b> <b>1 4.75" CROSSOVER SUB 133 63 0.78</b> <b>1 5" HYDMECH JARS 130 58 5.20</b> <b>1 4.75" CROSSOVER SUB 133 63 0.78</b> <b>93 4.5" DP 135 80 362.20</b> <b>1 4.75" CROSSOVER SUB 133 63 0.78</b> <b>46 Drill Pipe Stands 1339.54</b> <b>0 Drill Pipe Singles 0.00</b>	Mud Type: <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Water Time: <b>2: 9470 433.00</b> <b>2 9600 451.00</b> Density: <b>9.49</b> Funnel Viscosity: <b>1.66</b> Fluid Loss: <b>1.17</b> pH: <b>0.94</b> Location of Sample: <b>39.00</b> Depth: <b>0.94</b> PVT: <b>39.00</b> Circulation: <b>5.20</b> Pump # Type Liner Size SPM Pressure Hrs Run <b>2 SINGLE 127 112 37200 4.00</b>	Time Depth Deviation Direction Type <b>2: 9470 433.00</b> <b>2 9600 451.00</b> SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density <b>Centrifuge #1 6.00 1180 1110 1720</b> 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 - BOOM LINE WAS HOOKED UP ON A LADDER ON THE SIDE OF THE SUB INSTEAD OF ITS PROPER PLACE ON THE SKID, COULD CAUSE EQUIPMENT SAFETY Safety Topic MEHL 2943 MACP HANDLING CHEMICALS 92

<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number <b>PREC465 20170401 1A</b>	Vendor Software Version <b>RMS 2016.8.30.38074</b>	Year <b>2017</b>	Month <b>04</b>	Day <b>01</b>	<b>DAILY CHECKS</b>	<b>OP RM</b>	
License No <b>32949</b>	Well Name <b>ARCRES HZ PARKLAND G11-04-081-16</b>	Surface Location <b>11-4-81-16 W6</b>	Prov <b>BC</b>	Loc Type <b>DLS</b>	Unique Well ID <b>100/09-34-80-16W6</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) CADCDC Rig Safety Inspection Checklist (over/nightly) (9) Mast Inspection before Raising or Lowering (10) Cover Slides Checked (11) Motor Vibs Checked		AL RT AL RT AL RT RT RT	
Company <b>ARC Resources Ltd.</b>	Contractor <b>Precision Drilling, div of PDC</b>	Contractor Job No <b>465</b>	Well Type <b>HORIZ</b>	Spud Date Time <b>28-Mar-2017</b>	00:15	(1) Rig Site Health & Safety Meeting (on/crew/month) (2) CADCDC Rig Safety Inspection Checklist (over/nightly) (3) Mast Inspection before Raising or Lowering (4) Cover Slides Checked (5) Motor Vibs Checked		RT RT RT RT	
Operator <b>17DR0048</b>	Signature of Operator's Representative <b>PAUL BOUTILLIER</b>	Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>						(1) Kelly Casing (2) Top Fuel	



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																										8.00	26950	4566
Tour 2																										12.00	06:00	0
Tour 3																										4.00	OVERCAST	0
TOTAL																										24.00	FAIR	0

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>3</b> Size: <b>159</b> IADC Code: <b>REED</b> Manufacturer: <b>REED</b> Type: <b>SK413M-A1G-Z</b> Serial No: <b>E232846</b> JMS: <b>9.5 9.5</b> Depth Out (m): <b>2175.00</b> Total Drilled (m): <b>1523.00</b> Hrs Run Today: <b>5.25</b> Cumulative Hrs Run: <b>18.00</b> Entry Date: <b>31-Mar-2017</b>	1 BIT 159 1 0.21 1 5" GAP SUB 130 68 1.66 1 4.75" SLIDE REAMER 130 58 1.17 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 93 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 16 Drill Pipe Stands 465.83 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: <b>3.00</b> Density: <b>127</b> Funnel Viscosity: <b>112</b> Fluid Loss: <b>3550</b> pH: <b>3.00</b> Location of Sample: <b>3.00</b> Depth: <b>3.00</b> PVT: <b>3.00</b> Circulation: <b>3.00</b> Pump # 1 Pressure 127 112 3550 3.00 2 Pressure 127 112 3550 5.00	Time: <b>16:45</b> Depth: <b>4222.35</b> Deviation: <b>88.90</b> Direction: <b>113.6</b> <b>17:45</b> <b>4280.78</b> <b>91.10</b> <b>113.7</b> <b>18:45</b> <b>4309.56</b> <b>90.90</b> <b>114.3</b> <b>19:15</b> <b>4338.70</b> <b>87.60</b> <b>114.6</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>-15.51</b> Total: <b>3698.00</b> Weight of DC: <b>84.61</b> Weight of String: <b>68.00</b>	Hole Drag Up: <b>11</b> Down: <b>20</b> Torque At Bottom: <b>11000</b> Fill On Bottom:	Pump # 1 Pressure 127 112 3550 3.00 2 Pressure 127 112 3550 5.00	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 8.00 1180 1070 1800 Centrifuge #2	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>SAFETY</b>	<b>REMARKS</b>	<b>LOCKOUTS</b>
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp 90 2943	MEHL MACP	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 - METAL MATS HAD A BIT OF OIL ON THEM CREATING A SLIPPERY SURFACE. CLEANED UP TO AVOID SLIPS.	

TOUR **2** SIGNATURE OF DRILLER **ERIC OBRIEN** 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>3</b> Size: <b>159</b> IADC Code: <b>REED</b> Manufacturer: <b>REED</b> Type: <b>SK413M-A1G-Z</b> Serial No: <b>E232846</b> JMS: <b>9.5 9.5</b> Depth Out (m): <b>2175.00</b> Total Drilled (m): <b>2208.00</b> Hrs Run Today: <b>7.75</b> Cumulative Hrs Run: <b>25.75</b> Entry Date: <b>31-Mar-2017</b>	1 BIT 159 1 0.21 1 5" GAP SUB 130 68 1.66 1 4.75" SLIDE REAMER 130 58 1.17 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 93 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 39 Drill Pipe Stands 1135.69 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: <b>8.00</b> Density: <b>127</b> Funnel Viscosity: <b>112</b> Fluid Loss: <b>36200</b> pH: <b>8.00</b> Location of Sample: <b>8.00</b> Depth: <b>8.00</b> PVT: <b>8.00</b> Circulation: <b>8.00</b> Pump # 1 Pressure 127 112 36200 8.00 2 Pressure 127 112 36200 3.50	Time: <b>16:45</b> Depth: <b>4222.35</b> Deviation: <b>88.90</b> Direction: <b>113.6</b> <b>17:45</b> <b>4280.78</b> <b>91.10</b> <b>113.7</b> <b>18:45</b> <b>4309.56</b> <b>90.90</b> <b>114.3</b> <b>19:15</b> <b>4338.70</b> <b>87.60</b> <b>114.6</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>-0.37</b> Total: <b>4383.00</b> Weight of DC: <b>85.75</b> Weight of String: <b>68.00</b>	Hole Drag Up: <b>14</b> Down: <b>28</b> Torque At Bottom: <b>12000</b> Fill On Bottom:	Pump # 1 Pressure 127 112 36200 8.00 2 Pressure 127 112 36200 3.50	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 12.00 1180 1110 1720 Centrifuge #2 12.00 1180 1110 1720	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>SAFETY</b>	<b>REMARKS</b>	<b>LOCKOUTS</b>
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp 94 2943	MEHL MACP	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 - FOUND NAIL STICKING OUT OF BOARD, THREW AWAY BOARD.	

TOUR **3** SIGNATURE OF DRILLER **DAVE LOEWEN** 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>3</b> Size: <b>159</b> IADC Code: <b>REED</b> Manufacturer: <b>REED</b> Type: <b>SK413M-A1G-Z</b> Serial No: <b>E232846</b> JMS: <b>9.5 9.5</b> Depth Out (m): <b>2175.00</b> Total Drilled (m): <b>2412.00</b> Hrs Run Today: <b>2.75</b> Cumulative Hrs Run: <b>28.50</b> Entry Date: <b>31-Mar-2017</b>	1 BIT 159 1 0.21 1 5" GAP SUB 130 68 1.66 1 4.75" SLIDE REAMER 130 58 1.17 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 1 5" HYDMECH JARS 130 58 5.20 1 4.75" CROSSOVER SUB 133 63 0.78 93 4.5" DP 135 80 39.00 1 4.75" CROSSOVER SUB 133 63 0.78 46 Drill Pipe Stands 1339.54 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: <b>4.00</b> Density: <b>127</b> Funnel Viscosity: <b>112</b> Fluid Loss: <b>37200</b> pH: <b>4.00</b> Location of Sample: <b>4.00</b> Depth: <b>4.00</b> PVT: <b>4.00</b> Circulation: <b>4.00</b> Pump # 1 Pressure 127 112 37200 4.00 2 Pressure 127 112 37200 4.00	Time: <b>6:00</b> Depth: <b>4222.35</b> Deviation: <b>88.90</b> Direction: <b>113.6</b> <b>17:45</b> <b>4280.78</b> <b>91.10</b> <b>113.7</b> <b>18:45</b> <b>4309.56</b> <b>90.90</b> <b>114.3</b> <b>19:15</b> <b>4338.70</b> <b>87.60</b> <b>114.6</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>-0.22</b> Total: <b>4587.00</b> Weight of DC: <b>84.63</b> Weight of String: <b>68.00</b>	Hole Drag Up: <b>15</b> Down: <b>30</b> Torque At Bottom: <b>13000</b> Fill On Bottom:	Pump # 1 Pressure 127 112 37200 4.00 2 Pressure 127 112 37200 4.00	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 6.00 1180 1110 1720	Product Amount Type
<b>METRES DRILLED</b>	<b>BOILER</b>	<b>SAFETY</b>	<b>REMARKS</b>	<b>LOCKOUTS</b>
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp 92 2943	MEHL MACP	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 - BOOM LINE WAS HOOKED UP ON A LADDER ON THE SIDE OF THE SUB INSTEAD OF ITS PROPER PLACE ON THE SKID, COULD CAUSE EQUIPMENT	





<b>FRONT PAGE SUMMARY</b>		Tour Sheet Serial Number PREC465 20170402 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 04	Day 02	<b>DAILY CHECKS</b>	<b>OP RM</b>												
License No 32949	Well Name ARCRES HZ PARKLAND G11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well Id 100/09-34-80-16W6	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 Staked (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/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Vibs Checked	<table border="1"> <tr><td>PE</td><td>RT</td></tr> <tr><td>PE</td><td>RT</td></tr> <tr><td>PE</td><td>RT</td></tr> <tr><td>PE</td><td>RT</td></tr> <tr><td>RT</td><td>RT</td></tr> <tr><td>RT</td><td>RT</td></tr> </table>	PE	RT	PE	RT	PE	RT	PE	RT	RT	RT	RT	RT
PE	RT																			
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PE	RT																			
RT	RT																			
RT	RT																			
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No 465	Rig No 465	Well Type HORIZ	Squad Date Time 28-Mar-2017	Rig Release Date Time 00:15														
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						
Tour 1		2.50				3.75	1.00	0.25																		8.00	21276	4566	06:00	0	OVERCAST	Wind Direction	Wind Strength	Cloud Condition
Tour 2							8.75	0.25					1.75	0.25												12.00								
Tour 3													4.00													4.00								
TOTAL		2.50				3.75	9.75	0.50					5.75	0.25												24.00								

TOUR 1	SIGNATURE OF DRILLER DAVE LOEWEN	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: 3 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: E232846 Serial No: 9.5 9.5 Jct: 9.5 9.5 Depth Out (m): 2175.00 Depth In (m): 2572.00 Total Drilled (m): 2572.00 Hrs Run Today: 2.50 Cumulative Hrs Run: 31.00 Entry Date: 31-Mar-2017	<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 407 E-ASTO MOTOR</td><td>130</td><td>60</td><td>9.08</td></tr> <tr><td>1</td><td>4.75" NON WAG FLEX MONEL</td><td>118</td><td>70</td><td>9.49</td></tr> <tr><td>1</td><td>5" GAP SUB</td><td>130</td><td>68</td><td>1.66</td></tr> <tr><td>2</td><td>4.75" NON WAG FLEX MONEL</td><td>118</td><td>70</td><td>18.90</td></tr> <tr><td>1</td><td>4.75" SLIDE REAMER</td><td>130</td><td>58</td><td>1.17</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>133</td><td>63</td><td>0.94</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>135</td><td>80</td><td>39.00</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>133</td><td>63</td><td>0.78</td></tr> <tr><td>1</td><td>5" HYDMECH JARS</td><td>130</td><td>58</td><td>5.20</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>133</td><td>63</td><td>0.78</td></tr> <tr><td>93</td><td>4.5" DP</td><td>135</td><td>80</td><td>262.20</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>133</td><td>63</td><td>0.78</td></tr> <tr><td>51</td><td>Drill Pipe</td><td>Standards</td><td></td><td>1484.41</td></tr> <tr><td>2</td><td>Drill Pipe</td><td>Singles</td><td></td><td>19.48</td></tr> </table>	No	Component	OD	ID	Length	1	BIT	159	1	0.21	1	SEALER 407 E-ASTO MOTOR	130	60	9.08	1	4.75" NON WAG FLEX MONEL	118	70	9.49	1	5" GAP SUB	130	68	1.66	2	4.75" NON WAG FLEX MONEL	118	70	18.90	1	4.75" SLIDE REAMER	130	58	1.17	1	4.75" CROSSOVER SUB	133	63	0.94	1	4.75" CROSSOVER SUB	135	80	39.00	1	4.75" CROSSOVER SUB	133	63	0.78	1	5" HYDMECH JARS	130	58	5.20	1	4.75" CROSSOVER SUB	133	63	0.78	93	4.5" DP	135	80	262.20	1	4.75" CROSSOVER SUB	133	63	0.78	51	Drill Pipe	Standards		1484.41	2	Drill Pipe	Singles		19.48	<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> </table> <p>Time: 03:45 4732.00 90.10 110.8 03:45 4251.59 90.60 113.6</p> <p>Density: 1.02 Funnel Viscosity: 100 Fluid Loss: 0 pH: 10.0 Location Of Sample: 1170</p> <p>Depth: 1170 PVT: 1740</p> <p>SOLIDS CONTROL Equipment Name: Hours Run: Intake Density: Over Flow Density: Under Flow Density Centrifuge #1: 6.00 1180 1170 1740 Centrifuge #2: 3.00 1180 1170 1730</p> <p>MUD MATERIALS ADDED Product: Amount: Type</p> <p>Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 3800 8.00</p> <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 - METAL MATS HAD A BIT OF OIL ON THEM CREATING A SLIPPERY SURFACE. CLEANED UP TO AVOID SLIPS.</p>	Mud Type	Water	Oil	Other		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <tr><th>From</th><th>To</th><th>Elapsed</th><th>Code</th></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> <p>Details Of Operations In Sequence &amp; Remarks</p>	From	To	Elapsed	Code					<table border="1"> <tr><th>BoilerNo</th><th>HoursRun</th><th>pH</th><th>StackTemp</th></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> <p>SAFETY</p> <table border="1"> <tr><th>Safety Topic</th><th>MEHL</th><th>MACP</th></tr> <tr><td>LAYING DOWN DRILL PIPE</td><td>93</td><td>3444</td></tr> </table>	BoilerNo	HoursRun	pH	StackTemp					Safety Topic	MEHL	MACP	LAYING DOWN DRILL PIPE	93	3444
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TOUR 2	SIGNATURE OF DRILLER ERIC OBRIEN	START TIME 8:00	END TIME 20:00
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TOUR 3	SIGNATURE OF DRILLER DAVE LOEWEN	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: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: E232846 Serial No: 9.5 9.5 Jct: 9.5 9.5 Depth Out (m): 4747.00 Depth In (m): 2175.00 Total Drilled (m): 2572.00 Hrs Run Today: 0.00 Cumulative Hrs Run: 31.00 Entry Date: 31-Mar-2017	<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 407 E-ASTO MOTOR</td><td>130</td><td>60</td><td>9.08</td></tr> <tr><td>1</td><td>4.75" NON WAG FLEX MONEL</td><td>118</td><td>70</td><td>9.49</td></tr> <tr><td>1</td><td>5" GAP SUB</td><td>130</td><td>68</td><td>1.66</td></tr> <tr><td>2</td><td>4.75" NON WAG FLEX MONEL</td><td>118</td><td>70</td><td>18.90</td></tr> <tr><td>1</td><td>4.75" SLIDE REAMER</td><td>130</td><td>58</td><td>1.17</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>133</td><td>63</td><td>0.94</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>135</td><td>80</td><td>39.00</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>133</td><td>63</td><td>0.78</td></tr> <tr><td>1</td><td>5" HYDMECH JARS</td><td>130</td><td>58</td><td>5.20</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>133</td><td>63</td><td>0.78</td></tr> <tr><td>93</td><td>4.5" DP</td><td>135</td><td>80</td><td>262.20</td></tr> <tr><td>1</td><td>4.75" CROSSOVER SUB</td><td>133</td><td>63</td><td>0.78</td></tr> <tr><td>51</td><td>Drill Pipe</td><td>Standards</td><td></td><td>1484.41</td></tr> <tr><td>2</td><td>Drill Pipe</td><td>Singles</td><td></td><td>19.48</td></tr> </table>	No	Component	OD	ID	Length	1	BIT	159	1	0.21	1	SEALER 407 E-ASTO MOTOR	130	60	9.08	1	4.75" NON WAG FLEX MONEL	118	70	9.49	1	5" GAP SUB	130	68	1.66	2	4.75" NON WAG FLEX MONEL	118	70	18.90	1	4.75" SLIDE REAMER	130	58	1.17	1	4.75" CROSSOVER SUB	133	63	0.94	1	4.75" CROSSOVER SUB	135	80	39.00	1	4.75" CROSSOVER SUB	133	63	0.78	1	5" HYDMECH JARS	130	58	5.20	1	4.75" CROSSOVER SUB	133	63	0.78	93	4.5" DP	135	80	262.20	1	4.75" CROSSOVER SUB	133	63	0.78	51	Drill Pipe	Standards		1484.41	2	Drill Pipe	Singles		19.48	<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> </table> <p>Time: 03:45 4732.00 90.10 110.8 03:45 4251.59 90.60 113.6</p> <p>Density: 1.02 Funnel Viscosity: 100 Fluid Loss: 0 pH: 10.0 Location Of Sample: 1170</p> <p>Depth: 1170 PVT: 1740</p> <p>SOLIDS CONTROL Equipment Name: Hours Run: Intake Density: Over Flow Density: Under Flow Density Centrifuge #1: 6.00 1180 1170 1740 Centrifuge #2: 3.00 1180 1170 1730</p> <p>MUD MATERIALS ADDED Product: Amount: Type</p> <p>Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 152 60 0 1.00 2 SINGLE 152 60 0 1.00</p> <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 - WHEN LAYING DOWN HWDP, THE LONG TOOL JOINT WAS CLOSE TO CONTACTING THE TOP DRIVE GRABBER LEG SO WE DID A STEP BACK AND</p>	Mud Type	Water	Oil	Other		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <tr><th>From</th><th>To</th><th>Elapsed</th><th>Code</th></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> <p>Details Of Operations In Sequence &amp; Remarks</p>	From	To	Elapsed	Code					<table border="1"> <tr><th>BoilerNo</th><th>HoursRun</th><th>pH</th><th>StackTemp</th></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> <p>SAFETY</p> <table border="1"> <tr><th>Safety Topic</th><th>MEHL</th><th>MACP</th></tr> <tr><td>RUNNING CASING</td><td>45</td><td>3444</td></tr> </table>	BoilerNo	HoursRun	pH	StackTemp					Safety Topic	MEHL	MACP	RUNNING CASING	45	3444
No	Component	OD	ID	Length																																																																																																														
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FRONT PAGE SUMMARY				Tour Sheet Serial Number				Vendor Software Version				Year				Month				Day				DAILY CHECKS				OP RM			
License No <b>32949</b>				Well Name <b>ARCRES HZ PARKLAND G11-04-081-16</b>				PREC465 20170403_1A				RMS 2016.8.30.38074				2017				04				03				<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 & Stick 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 (once/week/month) <input type="checkbox"/> (9) CAODC Rig Safety Inspection Checklist (once/monthly) <input type="checkbox"/> (10) Mast Inspection before Raising or Lowering <input type="checkbox"/> (11) Crown Saver Checked <input type="checkbox"/> (12) Major Vibs Checked		PB RT PB RT PB RT PB RT RT RT	
Contractor <b>ARC Resources Ltd.</b>				Precision Drilling, div of PDC				BC				DLS				100/09-34-80-16W6				465				Re-Entry <input type="checkbox"/>		RT RT					
Contractor's Job No <b>17DR10048</b>				52				28-Mar-2017				03-Apr-2017				15:00				00:00				RT RT							
Signature of Operator's Representative <b>PAUL BOUTILLIER</b>				Signature of Contractor's Rig Manager <b>ROD TOMPKINS</b>																				RT RT							



Code	Hours																									TOTAL	FUEL @ 08:00 HRS	WEATHER							
	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	Waiting On	Rig Watch	Other										
Tour 1					0.50																						7.25	8.00	18085	4566	06:00	0	OVERCAST	Wind Direction E	Wind Strength UP TO 19 KM/H
Tour 2					1.75																						3.50	12.00							
Tour 3					2.25																						2.00	4.00							
TOTAL																											10.75	24.00							

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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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
Size																0:00	7:00	7:00	12B
IADC Code																Details Of Operations In Sequence & Remarks			
Manufacturer																Run 139 joints 114.3mm 20.09 kg/m P110 LT&C casing Set from 0.00m to 1833.92m, 27 Joints 114.3mm, 20.09kg/m, P110 VAROUGHNECK Thread casing. Set from 1833.92m to 2175.81m, 196 joints 114.3mm 20.09 kg/m P110 LT&C casing set from 2175.81m to 4746m			
Type																Interra StrataJet Toe Port Subs @ 4690.47m @ 4717.95m F.C. @ 4731.90m, Casing total length: 4746.53m Landed @ 4746.0m			
Serial No																7:00	7:15	0:25	12
Jets																7:15	7:45	0:50	5
Depth Out (m)																7:45	8:00	0:25	21
Depth In (m)																RIG UP TO CIRCULATE			
Total Drilled (m)																CIRCULATE CASING			
Hrs Run Today																CREW CHANGE HANDOVER SAFETY MEETING WITH RIG MANAGER, ARC REPRESENTATIVES & RIG CREWS			
Cumulative Hrs Run																			
Entry Date																			
CUTTING STRUCTURE		HOLE CONDITION				REDUCED PUMP SPEED				MUD MATERIALS ADDED				SAFETY					
TO	Uggs	Hole Drag	Up	Down	Pump #	Pressure	Strokes/min	Depth	BoilerNo	HoursRun	pH	StackTemp	RUNNING CASING						
MDC	DOC								1	8.00	11	340	85	MEHL	2930	MACP			
LOC	Ream Pads								2	8.00	11	340							
BRG	Tool Run In/Out																		

TOUR <b>2</b>	SIGNATURE OF DRILLER <b>ERIC OBRIEN</b>	START TIME <b>8:00</b>	END TIME <b>20:00</b>
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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
Size																8:00	9:45	1:75	5
IADC Code																Details Of Operations In Sequence & Remarks			
Manufacturer																CIRCULATE CASING			
Type																SAFETY MEETING WITH CEMENTERS			
Serial No																CEMENT CASING Pump 5.0m 3 Optiflush with S-4W & M-S8 & TWR-2 @ 1320kg/m 3. Pump 1.46 Tonne 2.50m 3 Scavenger TAC 1600 @ 1350kg/m 3, Pump 25.5 Tonne, 25.5m 3 TAC 1600 0.25%TDH-2, 0.2% AFA-6, 1600 Kg/m 3 Cement. Followed by 42.5 Tonne (42.5m 3) TAC 1600, 0.2% AFA-6, 0.2% CFR-12, 0.25% TDH-2, 0.3% TWR-4, @ 1600kg/m 3 Tail Cement. Clean out lines. Launch wiper plug and displace with 5m 3 of inhibited retarded water + 32.35m3 of water 5% Tricorr 134, 2% DF-2W, 40% excess used for cementing calculations. 10 m 3 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 12:40hrs April 3 / 2017			
Jets																10:00	13:00	3:00	12C
Depth Out (m)																13:00	13:30	0:50	12A
Depth In (m)																13:30	14:30	1:00	14B
Total Drilled (m)																14:30	15:00	0:50	14E
Hrs Run Today																FLUSH STACK, RIG OUT CEMENTERS			
Cumulative Hrs Run																NIPPLE DOWN BOPs, REMOVE FLOW LINE AND FLOW TEE CLEAN MUD TANKS			
Entry Date																SET CASING SLIPS @ 4800DAN, CUT CASING(RIG RELEASED APRIL 3 2017 @ 15:00HR)			
CUTTING STRUCTURE		HOLE CONDITION				REDUCED PUMP SPEED				MUD MATERIALS ADDED				SAFETY					
TO	Uggs	Hole Drag	Up	Down	Pump #	Pressure	Strokes/min	Depth	BoilerNo	HoursRun	pH	StackTemp	NIPPLE DOWN BOPs						
MDC	DOC								1	12.00	10	340	25	MEHL	2930	MACP			
LOC	Ream Pads								2	12.00	10	340							
BRG	Tool Run In/Out																		

TOUR <b>3</b>	SIGNATURE OF DRILLER <b>DAVE LOEWEN</b>	START TIME <b>20:00</b>	END TIME <b>24:00</b>
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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
Size																20:00	22:00	2:00	14D
IADC Code																Details Of Operations In Sequence & Remarks			
Manufacturer																OPEN RAM DOORS AND CLEAN OUT BOPs, CHANGE OUT BLINDRAM & PIPE RAM ELEMENTS, LAY DOWN BOP			
Type																RIG OUT KICKER HOSES, AND TRANSFER LINES ON SUITCASES, RIG OUT FLOOR.			
Serial No																			
Jets																			
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				SAFETY					
TO	Uggs	Hole Drag	Up	Down	Pump #	Pressure	Strokes/min	Depth	BoilerNo	HoursRun	pH	StackTemp	LAYING DOWN BOP STACK						
MDC	DOC								1	4.00	10	340							
LOC	Ream Pads								2	4.00	10	340							
BRG	Tool Run In/Out																		

FRONT PAGE SUMMARY				Tour Sheet Serial Number		Vendor Software Version		Year	Month	Day	DAILY CHECKS					OP	RM		
License No: 32949				Well Name: ARCREZ HZ PARKLAND G11-04-081-16		PREC465 20170404 1A		RMS 2016.8.30.38074		2017	04	04	<input type="checkbox"/> (1) Daily Walk Around Inspection <input type="checkbox"/> (2) Detailed Inspection - Weedy (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 (one/crew/month) <input type="checkbox"/> (9) CAADC Rig Safety Inspection Checklist (one/crew/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						
Contractor: Precision Drilling, div of PDC				Surface Location: 11-4-81-16 W6		Prov: BC		Lic Type: DLS		Unique Well Id: 100/09-34-80-16W6		Rig No: 465		Well Type: HORIZ		Re-Entry: <input type="checkbox"/>			
Company's PSE: 17DR0048				Contractor's Job No: 52		Spud Date Time: 28-Mar-2017		Rig Release Date Time: 00:15											



Code																					TOTAL		FUEL @ 08:00 HRS		WEATHER				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Rig	Blower	Temp	Wind
Tour 1																										14184	3379	-3	CLEAR
Tour 2																													
Tour 3																													
TOTAL																										8.00		06:00	CALM

TOUR **1** SIGNATURE OF DRILLER: \_\_\_\_\_ 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
Size								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						0:00	7:45	7:75	22
IADC Code																Details Of Operations In Sequence & Remarks			
Manufacturer																RIG OUT MUD TANKS, SUIT CASE HOSES, SET UP TRAVEL BEAMS IN SUB FOR TRANSPORT			
Type																SAFETY CREW CHANGE MEETING W/CREWS_RM,ARC REP			
Serial No																			
Jets																			
Depth Out (m)																			
Depth In (m)																			
Total Drilled (m)																			
Hrs Run Today																			
Cumulative Hrs Run																			
Entry Date																			
CUTTING STRUCTURE		HOLE CONDITION				REDUCED PUMP SPEED				BOILER									
TO	Uggs	Hole Drag	Up	Down	Pump #	Pressure	Strokes/min	Depth	BoilerNo	HoursRun	pH	StackTemp	SAFETY						
MDC	CCC								1	8.00	10	340	Safety Topic						
LOC	Ream Poles								2	8.00	10	340	MEHL						
BRG	Tool Run (inch)												MACP						

TOUR **2** SIGNATURE OF DRILLER: \_\_\_\_\_ 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
Size								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
IADC Code																Details Of Operations In Sequence & Remarks			
Manufacturer																			
Type																			
Serial No																			
Jets																			
Depth Out (m)																			
Depth In (m)																			
Total Drilled (m)																			
Hrs Run Today																			
Cumulative Hrs Run																			
Entry Date																			
CUTTING STRUCTURE		HOLE CONDITION				REDUCED PUMP SPEED				BOILER									
TO	Uggs	Hole Drag	Up	Down	Pump #	Pressure	Strokes/min	Depth	BoilerNo	HoursRun	pH	StackTemp	SAFETY						
MDC	CCC												Safety Topic						
LOC	Ream Poles												MEHL						
BRG	Tool Run (inch)												MACP						

TOUR **3** SIGNATURE OF DRILLER: \_\_\_\_\_ 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
Size								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
IADC Code																Details Of Operations In Sequence & Remarks			
Manufacturer																			
Type																			
Serial No																			
Jets																			
Depth Out (m)																			
Depth In (m)																			
Total Drilled (m)																			
Hrs Run Today																			
Cumulative Hrs Run																			
Entry Date																			
CUTTING STRUCTURE		HOLE CONDITION				REDUCED PUMP SPEED				BOILER									
TO	Uggs	Hole Drag	Up	Down	Pump #	Pressure	Strokes/min	Depth	BoilerNo	HoursRun	pH	StackTemp	SAFETY						
MDC	CCC												Safety Topic						
LOC	Ream Poles												MEHL						
BRG	Tool Run (inch)												MACP						