

FRONT PAGE SUMMARY										Tour Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS					OP RM				
License No: 32951 Well Name: ARCREZ HZ PARKLAND E11-04-081-16										PREC465 20170308 2A		RMS 2016.8.30874		2017		03		08		(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Posted If Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Baked (6) BOP Tests Performed (7) Visually Inspected BOPs-Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (once/week/month) (9) CAADC Rig Safety Inspection Checklist (once/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Vibs Checked					AL CT AL CT AL CT CT CT				
Contractor: Precision Drilling, div of PDC										Surface Location: 11-4-81-16 W6		Prov: BC		Loc Type: DLS		Unique Well ID: 105/16-06-081-16W6		Rig No: 465		Well Type: HORIZ		Re-Entry: <input type="checkbox"/>		Squid Date Time		Rig Release Date Time		(1) Fuel Burning (2) FUEL @ 08:00 HRS (3) Rig 23581 (4) Meter 2139 (5) Time 05:30 (6) Temp 23 (7) Wind Direction (8) Wind Strength (9) Road Condition	
Company: ARC Resources Ltd.										Contractor's Job No: 50										Signature of Operator's Representative: ALLAN LUNGA		Signature of Contractor's Rig Manager: CECIL TROWBRIDGE		Katy Billing: 4255		Top Fuel: 4255			



Code	Hours																									TOTAL	WEATHER
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Cag & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other		
Tour 1																											
Tour 2	0.75																				0.25						
Tour 3	1.50																				1.75	0.75					
TOTAL	2.25																				1.75	1.00					

TOUR: 1	SIGNATURE OF DRILLER: CECIL TROWBRIDGE	START TIME: 0:00	END TIME: 8:00
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BITS	DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG				
Bit Number: [] Size: [] IADC Code: [] Manufacturer: [] Type: [] Serial No: [] Jts: [] Depth Out (m): [] Depth In (m): [] Total Drilled (m): [] Hrs Run Today: [] Cumulative Hrs Run: [] Entry Date: []	No: [] Component: [] OD: [] ID: [] Length: []	Mud Type: <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Other: []	Time: [] Density: [] Funnel Viscosity: [] Fluid Loss: [] pH: [] Location Of Sample: [] Depth: [] PVT: []	Equipment Name: [] Hours Run: [] Intake Density: [] Over Flow Density: [] Under Flow Density: []	From: [] To: [] Elapsed: [] Code: []	Details of Operations In Sequence & Remarks											
CUTTING STRUCTURE	HOLE CONDITION				REDUCED PUMP SPEED				BOILER				SAFETY				
TO: [] MDC: [] LDC: [] BRS: []	Hole Drag: [] Up [] Down [] Torque At Bottom: [] Fill On Bottom: []	Pump #: [] Pressure: [] Strokes/min: [] Depth: []	BoilerNo: [] HoursRun: [] pH: [] StackTemp: []	Safety Topic: [] MEHL: [] MACP: []													

TOUR: 2	SIGNATURE OF DRILLER: DAVE LOEWEN	START TIME: 8:00	END TIME: 20:00
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BITS	DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG				
Bit Number: [] Size: [] IADC Code: [] Manufacturer: [] Type: [] Serial No: [] Jts: [] Depth Out (m): [] Depth In (m): [] Total Drilled (m): [] Hrs Run Today: [] Cumulative Hrs Run: [] Entry Date: []	No: [] Component: [] OD: [] ID: [] Length: []	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: []	Equipment Name: [] Hours Run: [] Intake Density: [] Over Flow Density: [] Under Flow Density: []	From: [] To: [] Elapsed: [] Code: []	Details of Operations In Sequence & Remarks											
CUTTING STRUCTURE	HOLE CONDITION				REDUCED PUMP SPEED				BOILER				SAFETY				
TO: [] MDC: [] LDC: [] BRS: []	Hole Drag: [] Up [] Down [] Torque At Bottom: [] Fill On Bottom: []	Pump #: [] Pressure: [] Strokes/min: [] Depth: []	BoilerNo: [] HoursRun: [] pH: [] StackTemp: []	Safety Topic: [] MEHL: [] MACP: []													

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: 1RR Size: 279 IADC Code: [] Manufacturer: SICOTTE Type: SS516GB Serial No: 12692 Jts: 14.3 14.3 14.3 Depth Out (m): [] Depth In (m): [] Total Drilled (m): [] Hrs Run Today: [] Cumulative Hrs Run: 0.00 Entry Date: 08-Mar-2017	No: [] Component: [] OD: [] ID: [] Length: []	Mud Type: <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Other: []	Time: [] Density: [] Funnel Viscosity: [] Fluid Loss: [] pH: [] Location Of Sample: [] Depth: [] PVT: []	Equipment Name: [] Hours Run: [] Intake Density: [] Over Flow Density: [] Under Flow Density: []	From: [] To: [] Elapsed: [] Code: []	Details of Operations In Sequence & Remarks											
CUTTING STRUCTURE	HOLE CONDITION				REDUCED PUMP SPEED				BOILER				SAFETY				
TO: [] MDC: [] LDC: [] BRS: []	Hole Drag: [] Up [] Down [] Torque At Bottom: [] Fill On Bottom: []	Pump #: [] Pressure: [] Strokes/min: [] Depth: []	BoilerNo: [] HoursRun: [] pH: [] StackTemp: []	Safety Topic: [] MEHL: [] MACP: []													

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170309 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 09	DAILY CHECKS		OP RM
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 105/167-06-081-16W6	<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		AL	CT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No. 50	Rig No 465	Well Type HORIZ	ReEntry <input type="checkbox"/>	<input type="checkbox"/> (1) Rig Site Health & Safety Meeting (once/crew/month) <input type="checkbox"/> (2) CAODC Rig Safety Inspection Checklist (once/monthly) <input type="checkbox"/> (3) Mast Inspection before Raising or Lowering <input type="checkbox"/> (4) Crown Saver Checked <input type="checkbox"/> (5) Motor Vibs Checked		AL	CT
Operator's Representative ALLAN LUNGL	Signature of Contractor's Rig Manager CECIL TROWBRIDGE	Squad Date Time 09-Mar-2017	Rig Release Date Time 00:00					CT	CT



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	FUEL @ 08:00 HRS
Tour 1		3.50				4.25																				8.00	18971 2139
Tour 2						1.25	3.25	0.25						5.25												12.00	05:30 Temp 1:25
Tour 3														0.50	3.25											4.00	Wind Direction Wind Strength
TOTAL		3.50				5.50	3.25	0.25						5.75	3.25											24.00	Road Condition

TOUR 1 SIGNATURE OF DRILLER RYAN NEWTON START TIME 0:00 END TIME 8:00



BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG			
Bit Number 1RR	Size 279	No 1	Component 279MM BIT	OD 279	ID 1.028	Mud Type Water	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	Other <input type="checkbox"/>		
IADC Code	Manufacturer SICOTTE	Type SS516GB	Serial No 12692	JMS 14.3 14.3 14.3	Depth Out (m) 466.00	Time 04:30	Pressure 1150	Strokes/min 35	Depth 05:30		
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	Circulation		MUD MATERIALS ADDED		MUD MATERIALS ADDED		SAFETY		
From To D-R-C RPM WOB	Hole Drag Up Down	Pump # Pressure Strokes/min Depth	Pump # Type Liner Size SPM Pressure Hrs Run	Product Amount Type	Product Amount Type	BoilerNo HoursRun pH StackTemp	SAFETY		HANDLING BHA		
0.00 466.00 DRILL 50 10	2 2	1 6500	1 PARALLEL 152 106 21500 8.00	GEL 10 SXS	KWIKSEAL 8 SXS	1 8.00 10.5 340	MEHL		MACP		
0.00 466.00	466.00	6500	2 PARALLEL 152 106 21500 8.00	CELLOFLAKE 4 SXS	SAWDUST 75 SXS	2 8.00 10.5 340	MEHL		MACP		
0.00 466.00	466.00	6500	13 Drill Pipe Stands 363.63	REMARKS FIT TEST TRAVEL STOPS, CROWN SAVER AND MCWS. INSPECT ALL RIG FLOOR EQUIPMENT. INSPECT DRILL LINE, BRAKES AND ANCHOR. HAZARD ID WALKWAY PADS NOT PINNED PROPERLY, PINNED TO AVOID DAMAGE FROM WIND		MEHL		MACP		START TIME 8:00 END TIME 20:00	

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

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG			
Bit Number 1RR	Size 279	No 1	Component 279MM BIT	OD 279	ID 1.028	Mud Type Water	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	Other <input type="checkbox"/>		
IADC Code	Manufacturer SICOTTE	Type SS516GB	Serial No 12692	JMS 14.3 14.3 14.3	Depth Out (m) 466.00	Time 08:30	Pressure 1150	Strokes/min 35	Depth 240.1		
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	Circulation		MUD MATERIALS ADDED		MUD MATERIALS ADDED		SAFETY		
From To D-R-C RPM WOB	Hole Drag Up Down	Pump # Pressure Strokes/min Depth	Pump # Type Liner Size SPM Pressure Hrs Run	Product Amount Type	Product Amount Type	BoilerNo HoursRun pH StackTemp	SAFETY		RUNNING CASING		
0.00 466.00	2 2	1 6500	1 PARALLEL 152 105 23000 3.00	GEL 10 SXS	KWIKSEAL 8 SXS	1 12.00 11 340	MEHL		MACP		
0.00 466.00	466.00	6500	2 PARALLEL 152 105 23000 3.00	CELLOFLAKE 4 SXS	SAWDUST 75 SXS	2 12.00 11 340	MEHL		MACP		
0.00 466.00	466.00	6500	13 Drill Pipe Stands 363.63	REMARKS FIT TEST TRAVEL STOPS, CROWN SAVER AND MCWS. INSPECT ALL RIG FLOOR EQUIPMENT. INSPECT DRILL LINE, BRAKES AND ANCHOR. ELEVATOR CERT # P10702		MEHL		MACP		START TIME 20:00 END TIME 24:00	

TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON START TIME 20:00 END TIME 24:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG			
Bit Number 1RR	Size 279	No 1	Component 279MM BIT	OD 279	ID 1.028	Mud Type Water	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	Other <input type="checkbox"/>		
IADC Code	Manufacturer SICOTTE	Type SS516GB	Serial No 12692	JMS 14.3 14.3 14.3	Depth Out (m) 466.00	Time 20:00	Pressure 1150	Strokes/min 35	Depth 340		
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	Circulation		MUD MATERIALS ADDED		MUD MATERIALS ADDED		SAFETY		
From To D-R-C RPM WOB	Hole Drag Up Down	Pump # Pressure Strokes/min Depth	Pump # Type Liner Size SPM Pressure Hrs Run	Product Amount Type	Product Amount Type	BoilerNo HoursRun pH StackTemp	SAFETY		NIPPLE UP BOPS		
0.00 466.00	2 2	1 6500	1 PARALLEL 152 105 23000 3.00	GEL 10 SXS	KWIKSEAL 8 SXS	1 4.00 10.5 340	MEHL		MACP		
0.00 466.00	466.00	6500	2 PARALLEL 152 105 23000 3.00	CELLOFLAKE 4 SXS	SAWDUST 75 SXS	2 4.00 10.5 340	MEHL		MACP		
0.00 466.00	466.00	6500	13 Drill Pipe Stands 363.63	REMARKS FIT TEST TRAVEL STOPS, CROWN SAVER AND MCWS. INSPECT ALL RIG FLOOR EQUIPMENT. INSPECT DRILL LINE, BRAKES AND ANCHOR. ELEVATOR CERT # P10702		MEHL		MACP		START TIME 20:00 END TIME 24:00	

FRONT PAGE SUMMARY										Tour Sheet Serial Number PREC465 20170309 1A		Vendor Software Version RMS 2016.8.30.38074		Year 2017	Month 03	Day 09	DAILY CHECKS		OP RM	
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16			Surface Location 11-4-81-16 W6			Prov BC	Loc Type DLS	Unique Well ID 105/167-06-081-16W6	ReEntry <input type="checkbox"/>		<input type="checkbox"/> (1) Daily Walk Around Inspection <input type="checkbox"/> (2) Detailed Inspection - Weekly (Using Check List) <input type="checkbox"/> (3) H2S Signs Posted if Required <input type="checkbox"/> (4) Well Licence & Stick Diagram Posted <input type="checkbox"/> (5) Flare Lines Staked <input type="checkbox"/> (6) BOP Tests Performed <input type="checkbox"/> (7) Visually Inspected BOPs-Flare Lines & Degasser Lines <input type="checkbox"/> (8) Rig Site Health & Safety Meeting (on/crow/month) <input type="checkbox"/> (9) CAODC Rig Safety Inspection Checklist (on/crow/month) <input type="checkbox"/> (10) Mast Inspection before Raising or Lowering <input type="checkbox"/> (11) Crown Saver Checked <input type="checkbox"/> (12) Motor Vibs Checked		<input type="checkbox"/> AL <input type="checkbox"/> CT <input type="checkbox"/> CT <input type="checkbox"/> CT						
Company Name ARC Resources Ltd.				Contractor Precision Drilling, div of PDC				Rig No 465		Well Type HORIZ		Spud Date Time 09-Mar-2017		Rig Release Date Time 00:00		 				
Contractor's Job No 50				Signature of Contractor's Rig Manager ALLAN LUNGL				Signature of Operator's Representative CECIL TROWBRIDGE												

Code	HOURS																									TOTAL	FUEL @ 08:00 HRS		
	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Dring Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other		By	Time	
Tour 1		3.50			4.25																						8.00	18971	2139
Tour 2					1.25	3.25	0.25						5.25									1.25					12.00	05:30	1:25
Tour 3													0.50		3.25												4.00		
TOTAL		3.50			5.50	3.25	0.25						5.75		3.25							1.25					24.00		

TOUR 1	SIGNATURE OF DRILLER RYAN NEWTON	START TIME 0:00	END TIME 8:00
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BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG							
Bit Number 1RR	Size 279	No 1	Component 279MM BIT	OD 279	ID 1.028	Mud Type Water	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	Other <input type="checkbox"/>	Time 06:45	Depth 383.37	Deviation 1.50	Direction 250	From 07:00	To 07:15	Elapsed 15	Code 243.4	Details of Operations In Sequence & Remarks			
IADC Code	Manufacturer SICOTTE	Type SS516GB	Serial No 12692	JMS 14.3 14.3 14.3	JMS 14.3 14.3 14.3	Time 07:00	Density 411.29	Funnel Viscosity 1.50	Fluid Loss 242	Depth 07:15	pH 439.33	Location Of Sample 1.20	Direction 243.4	Remarks							
Depth Out (m) 466.00	Depth In (m) 0.00	Total Drilled (m) 466.00	Hrs Run Today 3.50	Cumulative Hrs Run 3.50	Entry Date 08-Mar-2017	SOLIDS CONTROL				MUD MATERIALS ADDED				Remarks F/T TEST TRAVEL STOPS, CROWN SAVER AND MCWS. INSPECT ALL RIG FLOOR EQUIPMENT. INSPECT DRILL LINE, BRAKES AND ANCHOR. HAZARD ID WALKWAY PADS NOT PINNED PROPERLY, PINNED TO AVOID DAMAGE FROM WIND							
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	Product	Amount	Type								
TO 2 Gage 0 MDL CT Ream Filter NO LCL H Tail Run Inch TD BRG X 133.14		Kelly Down -0.09 Total 466.00 Weight of DC 10.00 Weight of String 48.00		Pump # 1 Pressure 152 Strokes/min 106 Depth 21500 2 Pressure 152 Strokes/min 106 Depth 21500		Centrifuge #1 8.00 Intake Density 1150 Over Flow Density 1120 Under Flow Density 1600 Centrifuge #2 8.00 Intake Density 1150 Over Flow Density 1120 Under Flow Density 1600				Product PARALLEL Amount 152 Type 106 Product PARALLEL Amount 152 Type 106				BOILER BoilerNo 45 HoursRun 45 pH 45 StackTemp 45							
TOUR 2		SIGNATURE OF DRILLER DAVE LOEWEN		START TIME 8:00		END TIME 20:00															

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG							
Bit Number 1RR	Size 279	No 1	Component 279MM BIT	OD 279	ID 1.028	Mud Type Water	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	Other <input type="checkbox"/>	Time 06:45	Depth 383.37	Deviation 1.50	Direction 250	From 07:00	To 07:15	Elapsed 15	Code 243.4	Details of Operations In Sequence & Remarks			
IADC Code	Manufacturer SICOTTE	Type SS516GB	Serial No 12692	JMS 14.3 14.3 14.3	JMS 14.3 14.3 14.3	Time 07:00	Density 411.29	Funnel Viscosity 1.50	Fluid Loss 242	Depth 07:15	pH 439.33	Location Of Sample 1.20	Direction 243.4	Remarks							
Depth Out (m) 466.00	Depth In (m) 0.00	Total Drilled (m) 466.00	Hrs Run Today 0.00	Cumulative Hrs Run 0.00	Entry Date 08-Mar-2017	SOLIDS CONTROL				MUD MATERIALS ADDED				Remarks F/T TEST TRAVEL STOPS, CROWN SAVER AND MCWS. INSPECT ALL RIG FLOOR EQUIPMENT. INSPECT DRILL LINE, BRAKES AND ANCHOR. ELEVATOR CERT # P10702							
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	Product	Amount	Type								
TO 2 Gage 0 MDL CT Ream Filter NO LCL H Tail Run Inch TD BRG X 133.14		Kelly Down -0.09 Total 466.00 Weight of DC 10.00 Weight of String 48.00		Pump # 1 Pressure 152 Strokes/min 105 Depth 23000 2 Pressure 152 Strokes/min 105 Depth 23000		Centrifuge #1 8.00 Intake Density 1150 Over Flow Density 1120 Under Flow Density 1600 Centrifuge #2 8.00 Intake Density 1150 Over Flow Density 1120 Under Flow Density 1600				Product PARALLEL Amount 152 Type 105 Product PARALLEL Amount 152 Type 105				BOILER BoilerNo 45 HoursRun 45 pH 45 StackTemp 45							
TOUR 3		SIGNATURE OF DRILLER RYAN NEWTON		START TIME 20:00		END TIME 24:00															

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG							
Bit Number 1RR	Size 279	No 1	Component 279MM BIT	OD 279	ID 1.028	Mud Type Water	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	Other <input type="checkbox"/>	Time 06:45	Depth 383.37	Deviation 1.50	Direction 250	From 07:00	To 07:15	Elapsed 15	Code 243.4	Details of Operations In Sequence & Remarks			
IADC Code	Manufacturer SICOTTE	Type SS516GB	Serial No 12692	JMS 14.3 14.3 14.3	JMS 14.3 14.3 14.3	Time 07:00	Density 411.29	Funnel Viscosity 1.50	Fluid Loss 242	Depth 07:15	pH 439.33	Location Of Sample 1.20	Direction 243.4	Remarks							
Depth Out (m) 466.00	Depth In (m) 0.00	Total Drilled (m) 466.00	Hrs Run Today 0.00	Cumulative Hrs Run 0.00	Entry Date 08-Mar-2017	SOLIDS CONTROL				MUD MATERIALS ADDED				Remarks F/T TEST TRAVEL STOPS, CROWN SAVER AND MCWS. INSPECT ALL RIG FLOOR EQUIPMENT. INSPECT DRILL LINE, BRAKES AND ANCHOR. ELEVATOR CERT # P10702							
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	Product	Amount	Type								
TO 2 Gage 0 MDL CT Ream Filter NO LCL H Tail Run Inch TD BRG X 133.14		Kelly Down -0.09 Total 466.00 Weight of DC 10.00 Weight of String 48.00		Pump # 1 Pressure 152 Strokes/min 105 Depth 23000 2 Pressure 152 Strokes/min 105 Depth 23000		Centrifuge #1 8.00 Intake Density 1150 Over Flow Density 1120 Under Flow Density 1600 Centrifuge #2 8.00 Intake Density 1150 Over Flow Density 1120 Under Flow Density 1600				Product PARALLEL Amount 152 Type 105 Product PARALLEL Amount 152 Type 105				BOILER BoilerNo 45 HoursRun 45 pH 45 StackTemp 45							
TOUR 3		SIGNATURE OF DRILLER RYAN NEWTON		START TIME 20:00		END TIME 24:00															

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170311 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 11	DAILY CHECKS	OP RM
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well Id 105/167-06-081-16W6	Re-Entry <input type="checkbox"/>	(1) Daily Walk Around Inspection (2) Detailed Inspection - Weighly (Using Check List) (3) H2S Signs Postcard If Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Scaled (6) BOP Tests Performed (7) Visually Inspected BOPs-Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (on/crow/month) (9) CADCOC Rig Safety Inspection Checklist (on/crow/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Vibs Checked	AL CT AL CT AL CT AL CT CT CT
Company ARC Resources Ltd. Contractor's PSE 17DR0046 Signature of Operator's Representative ALLAN LUNGA	Contractor Precision Drilling, div of PDC Contractor's Job No 50 Signature of Contractor's Rig Manager CECIL TROWBRIDGE	Rig No 465	Well Type HORIZ	Squad Date Time 09-Mar-2017	Rig Release Date Time 00:00			



Code	TOUR 1																	TOTAL	FUEL @ 08:00 HRS	WEATHER													
	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Dring Line	Dev Survey	Wireline Logs	Run Cag & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back				Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other					
Tour 1	2.00				0.75	0.25	0.25			0.50																	8.00	34928	5139	05:45	1:20		
Tour 2	9.25				2.00		0.25																				12.00						
Tour 3	3.00				0.75		0.25																				4.00						
TOTAL	14.25				3.50	0.25	0.75			0.50																	24.00						

TOUR 1 SIGNATURE OF DRILLER: RYAN NEWTON START TIME: 0:00 END TIME: 8:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 127.00 Hrs Run Today: 1.00 Cumulative Hrs Run: 1.00 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2" SEALED TB 3.2810 MOTOR 126 1 8.43 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.33 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 73 107.45 3 Drill Pipe Stands 87.90 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 12500 3.00	Time Depth Deviation Direction Type 10:45 753.70 6.30 253.1 11:00 782.56 7.40 244.3 11:30 811.54 5.00 237.2 12:00 840.79 4.20 250.5 12:30 869.69 3.40 242.1 13:00 898.71 2.50 234.1	From To Elapsed Code Remarks F/T TRAVEL STOPS, CROWN SAVER & MCWS. INSPECT ALL FLOOR EQUIPMENT. F/T CHOKES 1&2 AND FLARE STACK IGNITER. CHECK OVER MANIFOLD AND BOP VALVE ALIGNMENT. INSPECT BRAKES, DRILL LINE AND ANCHOR OBSERVATION: THIRD PARTY HAND ABOUT TO HAMMER OVER HOLE CENTER, STOPPED JOB COVERED ANY OPENINGS IN SLIPS REMINDED HAND OF HAZARDS HE AGREED TO PAY MORE ATTENTION TO HIS WORK ENVIRONMENT
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
Kelly Down: -0.51 Total: 593.00 Weight of DC: 0.00 Weight of String: 46.00	Hole Drag Up: 0 Down: 0 Torque At Bottom: 3000 Fill On Bottom	Pump # Pressure Strokes/min Depth 2 3950 @ 56 @ 495.00	BoilerNo HoursRun pH StackTemp	MEHL MACP

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

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 834.00 Hrs Run Today: 9.25 Cumulative Hrs Run: 10.25 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2" SEALED TB 3.2810 MOTOR 126 1 8.43 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.33 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 73 107.45 28 Drill Pipe Stands 816.67 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 15000 12.00	Time Depth Deviation Direction Type 10:45 753.70 6.30 253.1 11:00 782.56 7.40 244.3 11:30 811.54 5.00 237.2 12:00 840.79 4.20 250.5 12:30 869.69 3.40 242.1 13:00 898.71 2.50 234.1	From To Elapsed Code Remarks F/T TRAVEL STOPS, CROWN SAVER & MCWS. INSPECT ALL FLOOR EQUIPMENT. F/T CHOKES 1&2 AND FLARE STACK IGNITER. CHECK OVER MANIFOLD AND BOP VALVE ALIGNMENT. INSPECT BRAKES, DRILL LINE AND ANCHOR. HAZARD ID - DURING SOUR BOP DRILL AFTER DRILL OUT DRILLER NOTICED THERE WAS NO CLEAR LINE OF SIGHT TO MUSTER AREA TO SIGNAL THAT THE WELL WAS SECURE AND HOW MANY WORKERS WERE PRESENT ON RIG FLOOR. TALKED OVER WITH
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
Kelly Down: -22.28 Total: 1300.00 Weight of DC: 81.37	Hole Drag Up: 1 Down: 1 Torque At Bottom: 6000 Fill On Bottom	Pump # Pressure Strokes/min Depth 2 3800 @ 56 @ 534.00 2 4150 @ 56 @ 789.00 2 3800 @ 56 @ 854.00	BoilerNo HoursRun pH StackTemp	MEHL MACP

TOUR 3 SIGNATURE OF DRILLER: RYAN NEWTON START TIME: 20:00 END TIME: 24:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 1008.00 Hrs Run Today: 3.00 Cumulative Hrs Run: 13.25 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2" SEALED TB 3.2810 MOTOR 126 1 8.43 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.33 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 73 107.45 34 Drill Pipe Stands 990.97 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 79 9750 4.00	Time Depth Deviation Direction Type 4:00 1155 1145 1640 4:00 1155 1145 1640	From To Elapsed Code Remarks F/T TRAVEL STOPS, CROWN SAVER & MCWS. INSPECT ALL FLOOR EQUIPMENT. F/T CHOKES 1&2 AND FLARE STACK IGNITER. CHECK OVER MANIFOLD AND BOP VALVE ALIGNMENT. INSPECT BRAKES, DRILL LINE AND ANCHOR.
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
Kelly Down: -22.58 Total: 1474.00 Weight of DC: 76.08	Hole Drag Up: 1 Down: 1 Torque At Bottom: 3100 Fill On Bottom	Pump # Pressure Strokes/min Depth 1 2530 @ 40 @ 1499.00	BoilerNo HoursRun pH StackTemp	MEHL MACP

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170311 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 11	DAILY CHECKS	OP RM
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well Id 105/167-06-081-16W6	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 Baked (6) BOP Tests Performed (7) Visually Inspected BOPs-Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (on/crow/month) (9) CADC Rig Safety Inspection Checklist (on/crow/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Vibs Checked	AL CT AL CT AL CT AL CT CT CT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No 50	Rig No 465	Well Type HORIZ	Squad Date Time 09-Mar-2017	Rig Release Date Time 00:00		
Operator 17DR0046	Signature of Operator's Representative ALLAN LUNGL	Signature of Contractor's Rig Manager CECIL TROWBRIDGE						



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	Other
Tour 1		2.00				0.75	0.25	0.25			0.50															8.00	
Tour 2		9.25				2.00		0.25																		12.00	
Tour 3		3.00				0.75		0.25																		4.00	
TOTAL		14.25				3.50	0.25	0.75			0.50															24.00	

FUEL @ 08:00 HRS	34928	5139
Time	05:45	1:20
Wind Direction		
Wind Strength		

TOUR 1 SIGNATURE OF DRILLER RYAN NEWTON START TIME 0:00 END TIME 8:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 127.00 Hrs Run Today: 1.00 Cumulative Hrs Run: 1.00 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2 RESEALED TB 3.2810 MOTOR 126 1 8.43 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 1 4.75" NON MAG FLEX MODEL 118 70 28.33 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 73 107.45 3 Drill Pipe Stands 87.90 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 12500 3.00	Time Depth Deviation Direction Type 13:30 927.91 2.30 233.2 13:45 957.21 2.00 230.1 14:15 986.39 1.40 230 14:45 1015.62 1.20 249.5 15:15 1044.80 0.90 236.8 15:30 1073.92 0.70 269.1	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	
Kelly Down: -0.51 Total: 593.00 Weight of DC: 0.00 Weight of String: 46.00	Hole Drag Up 0 Down 0 Torque At Bottom 3000 Fill On Bottom	Pump # Pressure Strokes/min Depth 2 3950 @ 56 @ 495.00	BoilerNo HoursRun pH StackTemp SAFETY HANDLE DIRECTIONAL TOOLS 3223 MACP	

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

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 834.00 Hrs Run Today: 9.25 Cumulative Hrs Run: 10.25 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2 RESEALED TB 3.2810 MOTOR 126 1 8.43 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 1 4.75" NON MAG FLEX MODEL 118 70 28.33 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 73 107.45 28 Drill Pipe Stands 816.67 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 15000 12.00	Time Depth Deviation Direction Type 13:30 927.91 2.30 233.2 13:45 957.21 2.00 230.1 14:15 986.39 1.40 230 14:45 1015.62 1.20 249.5 15:15 1044.80 0.90 236.8 15:30 1073.92 0.70 269.1	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	
Kelly Down: -22.28 Total: 1300.00 Weight of DC: 81.37	Hole Drag Up 1 Down 1 Torque At Bottom 6000 Fill On Bottom	Pump # Pressure Strokes/min Depth 2 3800 @ 56 @ 534.00 2 4150 @ 56 @ 789.00 2 3800 @ 56 @ 854.00	BoilerNo HoursRun pH StackTemp SAFETY KICK WARNING SIGNS 55 MEHL MACP	

TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON START TIME 20:00 END TIME 24:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 1008.00 Hrs Run Today: 3.00 Cumulative Hrs Run: 13.25 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2 RESEALED TB 3.2810 MOTOR 126 1 8.43 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 1 4.75" NON MAG FLEX MODEL 118 70 28.33 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 73 107.45 34 Drill Pipe Stands 990.97 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 79 9750 4.00	Time Depth Deviation Direction Type 4:00 1155 1145 1640 4:00 1155 1145 1640	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	
Kelly Down: -22.58 Total: 1474.00 Weight of DC: 76.08	Hole Drag Up 1 Down 1 Torque At Bottom 3100 Fill On Bottom	Pump # Pressure Strokes/min Depth 1 2530 @ 40 @ 1493.00	BoilerNo HoursRun pH StackTemp SAFETY DERRICK CONNECTIONS 64 MEHL 3223 MACP	

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170311 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 11	DAILY CHECKS	OP RM
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well Id 105/167-06-081-16W6	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 & 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) CADCOC Rig Safety Inspection Checklist (on/crow/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Vibs Checked	AL CT AL CT AL CT AL CT CT CT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No 50	Rig No 465	Well Type HORIZ	Squad Date Time 09-Mar-2017	Rig Release Date Time 00:00		
Operator 17DR0046	Signature of Operator's Representative ALLAN LUNGL	Signature of Contractor's Rig Manager CECIL TROWBRIDGE						



Code	Rig Log																	TOTAL	FUEL @ 08:00 HRS	WEATHER													
	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Dring Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back				Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other					
Tour 1		2.00			0.75	0.25	0.25			0.50																	8.00	Fuel 34928	Water 5139	Temp 05:45	Pressure -	Wind Direction -	Wind Strength -
Tour 2		9.25			2.00		0.25																				12.00						
Tour 3		3.00			0.75		0.25																				4.00						
TOTAL		14.25			3.50	0.25	0.75			0.50																	24.00						

TOUR 1 SIGNATURE OF DRILLER RYAN NEWTON START TIME 0:00 END TIME 8:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 127.00 Hrs Run Today: 1.00 Cumulative Hrs Run: 1.00 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2" SEALED TB 3.2810 MOTOR 126 1 8.43 1 4.75" NON MAG PONY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.33 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 73 107.05 3 Drill Pipe Stands 87.90 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 12500 3.00	Time Depth Deviation Direction Type 16:00 1103.20 0.70 265.4 16:45 1132.41 0.50 245.7 17:15 1161.68 0.60 237.5 18:00 1190.99 0.50 209.6 18:30 1220.35 0.40 182.5 19:00 1249.50 0.60 194.7	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
Kelly Down: -0.51 Total: 593.00 Weight of DC: 0.00 Weight of String: 46.00	Hole Drag Up: 0 Down: 0 Torque At Bottom: 3000 Fill On Bottom	Pump # Pressure Strokes/min Depth 2 3950 @ 56 @ 495.00	BoilerNo HoursRun pH StackTemp	MEHL MACP

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

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 834.00 Hrs Run Today: 9.25 Cumulative Hrs Run: 10.25 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2" SEALED TB 3.2810 MOTOR 126 1 8.43 1 4.75" NON MAG PONY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.33 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 73 107.05 28 Drill Pipe Stands 816.67 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 15000 12.00	Time Depth Deviation Direction Type 16:00 1103.20 0.70 265.4 16:45 1132.41 0.50 245.7 17:15 1161.68 0.60 237.5 18:00 1190.99 0.50 209.6 18:30 1220.35 0.40 182.5 19:00 1249.50 0.60 194.7	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
Kelly Down: -22.28 Total: 1300.00 Weight of DC: 81.37	Hole Drag Up: 1 Down: 1 Torque At Bottom: 6000 Fill On Bottom	Pump # Pressure Strokes/min Depth 2 3800 @ 56 @ 534.00 2 4150 @ 56 @ 789.00 2 3800 @ 56 @ 854.00	BoilerNo HoursRun pH StackTemp	MEHL MACP

TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON START TIME 20:00 END TIME 24:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 1008.00 Hrs Run Today: 3.00 Cumulative Hrs Run: 13.25 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2" SEALED TB 3.2810 MOTOR 126 1 8.43 1 4.75" NON MAG PONY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.33 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 73 107.05 34 Drill Pipe Stands 990.97 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time Density Funnel Viscosity Fluid Loss pH Location Of Sample Depth PVT Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 79 9750 4.00	Time Depth Deviation Direction Type 4:00 1155 1145 1640 4:00 1155 1145 1640	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
Kelly Down: -22.58 Total: 1474.00 Weight of DC: 76.08	Hole Drag Up: 1 Down: 1 Torque At Bottom: 3100 Fill On Bottom	Pump # Pressure Strokes/min Depth 1 2530 @ 40 @ 1499.00	BoilerNo HoursRun pH StackTemp	MEHL MACP

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170312 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 12	DAILY CHECKS	OP RM
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 105/167-06-081-16W6	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 & Block Diagram Posted (5) Flare Lines Staked (6) BOP Tests Performed (7) Visually Inspected BOPs-Flare Lines & Degasser Lines	AL CT CT CT CT CT CT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No 50	Rig No 465	Well Type HORIZ	Spool Date Time 09-Mar-2017	Rig Release Date Time 00:00	(1) Rig Site Health & Safety Meeting (once/week/month) (2) CAODC Rig Safety Inspection Checklist (once/week/month) (3) Mast Inspection before Raising or Lowering (4) Cover Sliver Checked (5) Motor Vibs Checked	CT CT CT CT CT CT
Signature of Operator's Representative ALLAN LUNGL	Signature of Contractor's Rig Manager CECIL TROWBRIDGE							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																											31559
Tour 1		6.25				1.25		0.25																			4199
Tour 2		10.50				0.75		0.25																			05:30
Tour 3		2.75				1.00		0.25																			-18
TOTAL		19.50				3.00		0.75																			05:30

TOUR **1** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **0:00** END TIME **8:00**

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 2	Size 159	No 1	Component BIT	OD 159.1	ID 126.1	Mud Type Water	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	From 0:00
IADC Code	Manufacturer HALIBURTON	1	2	3	4	Time 02:30	Depth 02:30	Deviation 05:00	To 3:00
Type MMD64DR	Type 1 5" GAP SUB	1	2	3	4	Density 1155	Direction 17.2	Type 2	Elapsed 3:00
Serial No 12872222	Jct 7.9 7.9 7.9	1	2	3	4	Funnel Viscosity 30	Direction 12.7	Code 2	Code 2
Depth Out (m) 466.00	Depth In (m) 1172.00	1	2	3	4	Fluid Loss 0.0	Direction 17.2	Code 2	Code 2
Total Drilled (m) 1172.00	Hrs Run Today 6.25	1	2	3	4	pH 10.5	Direction 12.7	Code 2	Code 2
Cumulative Hrs Run 19.50	Entry Date 11-Mar-2017	1	2	3	4	Location of Sample SHAKERS SHAKERS	Direction 12.7	Code 2	Code 2
CUTTING STRUCTURE	HOLE CONDITION	1	2	3	4	Depth 1530.00	Direction 12.7	Code 2	Code 2
From 1474.00	Hole Drag 2	1	2	3	4	PVT 82	Direction 12.7	Code 2	Code 2
To 1638.00	Up 2	1	2	3	4	Pressure 1600.00	Direction 12.7	Code 2	Code 2
D-R-C 40	Down 2	1	2	3	4	Remarks	Direction 12.7	Code 2	Code 2
RPM 40	Fill On Bottom	1	2	3	4		Direction 12.7	Code 2	Code 2
WOB 8		1	2	3	4		Direction 12.7	Code 2	Code 2

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

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 2	Size 159	No 1	Component BIT	OD 159.1	ID 126.1	Mud Type Water	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	From 8:00
IADC Code	Manufacturer HALIBURTON	1	2	3	4	Time 09:00	Depth 13:30	Deviation 0.30	To 8:15
Type MMD64DR	Type 1 5" GAP SUB	1	2	3	4	Density 1150	Direction 181	Type 2	Elapsed 8:15
Serial No 12872222	Jct 7.9 7.9 7.9	1	2	3	4	Funnel Viscosity 30	Direction 259.2	Code 2	Code 2
Depth Out (m) 466.00	Depth In (m) 13.90	1	2	3	4	Fluid Loss 0.0	Direction 181	Code 2	Code 2
Total Drilled (m) 13.90	Hrs Run Today 10.00	1	2	3	4	pH 10.5	Direction 181	Code 2	Code 2
Cumulative Hrs Run 29.50	Entry Date 11-Mar-2017	1	2	3	4	Location of Sample SHAKERS SHAKERS	Direction 181	Code 2	Code 2
CUTTING STRUCTURE	HOLE CONDITION	1	2	3	4	Depth 1890.00	Direction 181	Code 2	Code 2
From 1638.00	Hole Drag 1	1	2	3	4	PVT 90	Direction 181	Code 2	Code 2
To 1856.00	Up 1	1	2	3	4	Pressure 1570.00	Direction 181	Code 2	Code 2
D-R-C 50	Down 1	1	2	3	4	Remarks	Direction 181	Code 2	Code 2
RPM 50	Fill On Bottom	1	2	3	4		Direction 181	Code 2	Code 2
WOB 10		1	2	3	4		Direction 181	Code 2	Code 2

TOUR **3** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **20:00** END TIME **24:00**

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 2	Size 159	No 1	Component BIT	OD 159.1	ID 126.1	Mud Type Water	Water <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	From 20:00
IADC Code	Manufacturer HALIBURTON	1	2	3	4	Time 22:30	Depth 23:45	Deviation 14.40	To 20:30
Type MMD64DR	Type 1 5" GAP SUB	1	2	3	4	Density 1170	Direction 258.9	Type 2	Elapsed 20:30
Serial No 12872222	Jct 7.9 7.9 7.9	1	2	3	4	Funnel Viscosity 30	Direction 259.2	Code 2	Code 2
Depth Out (m) 466.00	Depth In (m) 1443.00	1	2	3	4	Fluid Loss 0.0	Direction 259.2	Code 2	Code 2
Total Drilled (m) 1443.00	Hrs Run Today 2.75	1	2	3	4	pH 10.5	Direction 259.2	Code 2	Code 2
Cumulative Hrs Run 32.25	Entry Date 11-Mar-2017	1	2	3	4	Location of Sample SUCTION SUCTION	Direction 259.2	Code 2	Code 2
CUTTING STRUCTURE	HOLE CONDITION	1	2	3	4	Depth 1890.00	Direction 259.2	Code 2	Code 2
From 1856.00	Hole Drag 6	1	2	3	4	PVT 85	Direction 259.2	Code 2	Code 2
To 1909.00	Up 8	1	2	3	4	Pressure 10350.250	Direction 259.2	Code 2	Code 2
D-R-C 40	Down 8	1	2	3	4	Remarks	Direction 259.2	Code 2	Code 2
RPM 40	Fill On Bottom	1	2	3	4		Direction 259.2	Code 2	Code 2
WOB 11		1	2	3	4		Direction 259.2	Code 2	Code 2

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170312 1A	Vender Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 12	DAILY CHECKS	OP RM
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 105/167-06-081-16W6	Well Type HORIZ	<input type="checkbox"/> (1) Daily Walk Around Inspection <input type="checkbox"/> (2) Detailed Inspection - Weibly (Using Check List) <input type="checkbox"/> (3) H2S Signs Postcard 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 (on/crow/month) <input type="checkbox"/> (9) CADCDC Rig Safety Inspection Checklist (on/crow/month) <input type="checkbox"/> (10) Mast Inspection before Raising or Lowering <input type="checkbox"/> (11) Cover Sliver Checked <input type="checkbox"/> (12) Major Vibs Checked	AL CT AL CT AL CT AL CT AL CT CT CT CT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor Job No 50	Spool Date Time 09-Mar-2017	Rig Release Date Time 00:00	(1) Rig Site Health & Safety Meeting (on/crow/month) (2) CADCDC Rig Safety Inspection Checklist (on/crow/month) (3) Mast Inspection before Raising or Lowering (4) Cover Sliver Checked (5) Major Vibs Checked			
Signature of Operator's Representative ALLAN LUNGA	Signature of Contractor's Rig Manager CECIL TROWBRIDGE							Kelly Sliding Top Fuel 3369



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	FUEL @ 08:00 HRS
Hours	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other		
Tour 1		6.25			1.25		0.25														0.25					8.00	Rig 31559 Tower 4199
Tour 2		10.50			0.75		0.25														0.50					12.00	Time 05:30 Event 18
Tour 3		2.75			1.00		0.25																			4.00	Wind Direction Wind Strength
TOTAL		19.50			3.00		0.75														0.75					24.00	Road Condition

TOUR 1 SIGNATURE OF DRILLER RYAN NEWTON START TIME 0:00 END TIME 8:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: 159 Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 1172.00 Hrs Run Today: 6.25 Cumulative Hrs Run: 19.50 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2 REPALED TB 3.2810 MOTOR 126 1 8.43 1 4.75" NON MAG FLEX MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.31 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 73 107.45 39 Drill Pipe Stands 1136.56 0 Drill Pipe Singles 0.00	Mud Type: Water Time: 06:15 Density: 1160 Funnel Viscosity: 30 Fluid Loss: 11 pH: 11 Location Of Sample: SHAKERS Depth: 1613.00 PVT: 73 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 79 10300 8.00	Time Depth Deviation Direction Type 15:30 1782.80 1.00 49.8 16:00 1792.53 0.90 292.2 16:45 1802.27 2.80 275 17:15 1812.03 4.90 268.7 18:00 1821.69 6.90 265.5 19:00 1831.41 9.30 262.6	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
Kelly Down: -4.17 Total: 1638.00 Weight of DC: 0.00 Weight of String: 70.00	Hole Drag Up: 2 Down: 2 Torque At Bottom: 5500 Fill On Bottom	Pump # Pressure Strokes/min Depth 1 2480 @ 40 @ 1582.80 2 4500 @ 56 @ 1812.03	BoilerNo HoursRun pH StackTemp	MEHL 3132 MACP
METRES DRILLED	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
From To D-R-C RPM WOB	Hole Drag Up: 1 Down: 1 Torque At Bottom: 5500 Fill On Bottom	Pump # Pressure Strokes/min Depth 2 3350 @ 40 @ 1641.00 2 4500 @ 56 @ 1812.03	BoilerNo HoursRun pH StackTemp	MEHL 3177 MACP
METRES DRILLED	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
From To D-R-C RPM WOB	Hole Drag Up: 6 Down: 8 Torque At Bottom: 6000 Fill On Bottom	Pump # Pressure Strokes/min Depth 1 2670 @ 40 @ 1873.90 2 2700 @ 40 @ 1873.90	BoilerNo HoursRun pH StackTemp	MEHL 3177 MACP

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

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: 159 Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 13.90 Hrs Run Today: 10.00 Cumulative Hrs Run: 29.50 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2 REPALED TB 3.2810 MOTOR 126 1 8.43 1 4.75" NON MAG FLEX MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.31 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 73 107.45 47 Drill Pipe Stands 1369.54 0 Drill Pipe Singles 0.00	Mud Type: Water Time: 17:30 Density: 1195 Funnel Viscosity: 30 Fluid Loss: 10.5 pH: 10.5 Location Of Sample: SHAKERS Depth: 1613.00 PVT: 73 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 15700 12.00	Time Depth Deviation Direction Type 15:30 1782.80 1.00 49.8 16:00 1792.53 0.90 292.2 16:45 1802.27 2.80 275 17:15 1812.03 4.90 268.7 18:00 1821.69 6.90 265.5 19:00 1831.41 9.30 262.6	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
Kelly Down: -19.15 Total: 1856.00 Weight of DC: 0.47 Weight of String: 75.00	Hole Drag Up: 1 Down: 1 Torque At Bottom: 5500 Fill On Bottom	Pump # Pressure Strokes/min Depth 2 3350 @ 40 @ 1641.00 2 4500 @ 56 @ 1812.03	BoilerNo HoursRun pH StackTemp	MEHL 3177 MACP
METRES DRILLED	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
From To D-R-C RPM WOB	Hole Drag Up: 6 Down: 8 Torque At Bottom: 6000 Fill On Bottom	Pump # Pressure Strokes/min Depth 1 2670 @ 40 @ 1873.90 2 2700 @ 40 @ 1873.90	BoilerNo HoursRun pH StackTemp	MEHL 3177 MACP

TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON START TIME 20:00 END TIME 24:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: 159 Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 1443.00 Hrs Run Today: 2.75 Cumulative Hrs Run: 32.25 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2 REPALED TB 3.2810 MOTOR 126 1 8.43 1 4.75" NON MAG FLEX MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.31 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 73 107.45 48 Drill Pipe Stands 1398.60 1 Drill Pipe Singles 9.57	Mud Type: Water Time: 17:30 Density: 1195 Funnel Viscosity: 30 Fluid Loss: 10.5 pH: 10.5 Location Of Sample: SHAKERS Depth: 1613.00 PVT: 73 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 78 10350 2.50	Time Depth Deviation Direction Type 4:00 1190 1180 1760 4:00 1190 1180 1760	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
Kelly Down: -4.78 Total: 1909.00 Weight of DC: 44.74 Weight of String: 75.00	Hole Drag Up: 6 Down: 8 Torque At Bottom: 6000 Fill On Bottom	Pump # Pressure Strokes/min Depth 1 2670 @ 40 @ 1873.90 2 2700 @ 40 @ 1873.90	BoilerNo HoursRun pH StackTemp	MEHL 3177 MACP
METRES DRILLED	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
From To D-R-C RPM WOB	Hole Drag Up: 6 Down: 8 Torque At Bottom: 6000 Fill On Bottom	Pump # Pressure Strokes/min Depth 1 2670 @ 40 @ 1873.90 2 2700 @ 40 @ 1873.90	BoilerNo HoursRun pH StackTemp	MEHL 3177 MACP

TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON START TIME 20:00 END TIME 24:00

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170312 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 12	DAILY CHECKS	OP RM
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Prov DLS	Loc Type 105/167-06-081-16W6	Well Type HORIZ	ReEntry <input type="checkbox"/>	(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well License & Stick Diagram Posted (5) Flare Lines Staked (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (on/crow/month) (9) CADCDC Rig Safety Inspection Checklist (on/crow/month) (10) Mast Inspection before Raising or Lowering (11) Cover Sliver Checked (12) Major Vibs Checked	AL CT AL CT AL CT AL CT CT CT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No. 50	Squad Date Time 09-Mar-2017	00:00	Signature of Operator's Representative ALLAN LUNGA Signature of Contractor's Rig Manager CECIL TROWBRIDGE			CAADC CADCDC

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
Code	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drilling Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other		Rig
Tour 1		6.25			1.25		0.25														0.25					8.00	31559
Tour 2		10.50			0.75		0.25														0.50					12.00	05:30
Tour 3		2.75			1.00		0.25																			4.00	-18
TOTAL		19.50			3.00		0.75														0.75					24.00	

TOUR 1 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **0:00** END TIME **8:00**

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 1172.00 Hrs Run Today: 6.25 Cumulative Hrs Run: 19.50 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2" SEALED TB 3.7810 MOTOR 126 1 8.43 1 4.75" NON MAG FLEX MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.31 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 73 107.45 39 Drill Pipe Stands 1136.56 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: [] Density: [] Funnel Viscosity: [] Fluid Loss: [] pH: [] Location Of Sample: [] Depth: [] PVT: [] Circulation: [] Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 79 10300 8.00	Time: [] Depth: [] Deviation: [] Direction: [] Type: [] Solids Control: Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 8.00 1155 1145 1660 Centrifuge #2 8.00 1155 1145 1660	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
Kelly Down: -4.17 Total: 1638.00 Weight of DC: 0.00 Weight of String: 70.00	Hole Drag Up: 2 Down: 2 Torque At Bottom: 5500 Fill On Bottom: []	Pump # Pressure Strokes/min Depth 1 2480 @ 40 @ 192.00	BoilerNo HoursRun pH StackTemp	MEHL 3132 MACP
METRES DRILLED	REMARKS	BOILER	SAFETY	TRAINING AND TICKETS (WEEKLY FOCUS)
From To D-R-C RPM WOB	F/T TRAVEL STOPS, CROWN SAVER & MCWS. INSPECT ALL FLOOR EQUIPMENT. F/T CHOKES 1&2 AND FLARE STACK IGNITER. CHECK OVER MANIFOLD AND BOP VALVE ALIGNMENT. INSPECT BRAKES, DRILL LINE AND ANCHOR. HAZARD ID	BoilerNo HoursRun pH StackTemp	MEHL 3132 MACP	75

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

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 13.90 Hrs Run Today: 10.00 Cumulative Hrs Run: 29.50 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2" SEALED TB 3.7810 MOTOR 126 1 8.43 1 4.75" NON MAG FLEX MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.31 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 73 107.45 47 Drill Pipe Stands 1369.54 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: [] Density: [] Funnel Viscosity: [] Fluid Loss: [] pH: [] Location Of Sample: [] Depth: [] PVT: [] Circulation: [] Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 15700 12.00	Time: 19:45 Depth: 1841.19 Deviation: 11.80 Direction: 260.5 Type: [] Solids Control: Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 12.00 1195 1170 1660 Centrifuge #2 12.00 1195 1170 1660	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
Kelly Down: -19.15 Total: 1856.00 Weight of DC: 0.47 Weight of String: 75.00	Hole Drag Up: 1 Down: 1 Torque At Bottom: 5500 Fill On Bottom: []	Pump # Pressure Strokes/min Depth 2 3350 @ 40 @ 164.00 2 4500 @ 56 @ 191.00	BoilerNo HoursRun pH StackTemp	MEHL 3177 MACP
METRES DRILLED	REMARKS	BOILER	SAFETY	HANDLING TUBULARS
From To D-R-C RPM WOB	F/T TRAVEL STOPS, CROWN SAVER & MCWS. INSPECT ALL FLOOR EQUIPMENT. F/T CHOKES 1&2 AND FLARE STACK IGNITER. CHECK OVER MANIFOLD AND BOP VALVE ALIGNMENT. INSPECT BRAKES, DRILL LINE AND ANCHOR. OBSERVATION OBSERVED WORKER BACKING A TRUCK UP INTO A TIGHT SPOT USING CLEAR COMMUNICATION DISCUSSED THE IMPORTANCE OF THIS AND THANKED WORKER	BoilerNo HoursRun pH StackTemp	MEHL 3177 MACP	72

TOUR 3 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **20:00** END TIME **24:00**

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 2 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jts: 7.9 7.9 7.9 Depth Out (m): 7.9 7.9 Depth In (m): 466.00 Total Drilled (m): 1443.00 Hrs Run Today: 2.75 Cumulative Hrs Run: 32.25 Entry Date: 11-Mar-2017	1 BIT 159 1 0.21 1 2" SEALED TB 3.7810 MOTOR 126 1 8.43 1 4.75" NON MAG FLEX MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.31 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 73 107.45 48 Drill Pipe Stands 1398.60 1 Drill Pipe Singles 9.57	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: [] Density: [] Funnel Viscosity: [] Fluid Loss: [] pH: [] Location Of Sample: [] Depth: [] PVT: [] Circulation: [] Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 78 10350 2.50 2 SINGLE 127 78 10350 1.50	Time: [] Depth: [] Deviation: [] Direction: [] Type: [] Solids Control: Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 4.00 1190 1180 1760 Centrifuge #2 4.00 1190 1180 1760	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	BOILER	SAFETY
Kelly Down: -4.78 Total: 1909.00 Weight of DC: 44.74 Weight of String: 75.00	Hole Drag Up: 6 Down: 8 Torque At Bottom: 6000 Fill On Bottom: []	Pump # Pressure Strokes/min Depth 1 2670 @ 40 @ 187.00 2 2700 @ 40 @ 187.00	BoilerNo HoursRun pH StackTemp	MEHL 3177 MACP
METRES DRILLED	REMARKS	BOILER	SAFETY	DERRICK CONNECTIONS
From To D-R-C RPM WOB	F/T TRAVEL STOPS, CROWN SAVER & MCWS. INSPECT ALL FLOOR EQUIPMENT. F/T CHOKES 1&2 AND FLARE STACK IGNITER. CHECK OVER MANIFOLD AND BOP VALVE ALIGNMENT. INSPECT BRAKES, DRILL LINE AND ANCHOR. HAZARD ID: FOUND 2 WRENCHES RESTING ON AN I BEAM IN SUB TENTIAL TO FALL ON SOMEONE/ PUT WRENCHES AWAY AND DISCUSSED WITH OTHER HANDS IMPORTANCE OF HAVING ALL TOOLS ACCOUNTED FOR	BoilerNo HoursRun pH StackTemp	MEHL 3177 MACP	76

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170313 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 13	DAILY CHECKS		OP RM
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Flow BC	Log Type DLS	Unique Well ID 105/167-06-081-16W6	<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 Baked <input type="checkbox"/> (6) BOP Tests Performed <input type="checkbox"/> (7) Visually Inspected BOPs Flare Lines & Degasser Lines		AL	CT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Company Job No. 50	465	Well Type HORIZ	ReEntry <input type="checkbox"/>	<input type="checkbox"/> (1) Rig Site Health & Safety Meeting (once/week/month) <input type="checkbox"/> (2) CADC Rig Safety Inspection Checklist (once/week/month) <input type="checkbox"/> (3) Mast Inspection before Raising or Lowering <input type="checkbox"/> (4) Cover Slab Checked <input type="checkbox"/> (5) Motor Vibs Checked		AL	CT
Signature of Operator's Representative ALLAN LUNGL	Signature of Contractor's Rig Manager CECIL TROWBRIDGE	Start Date Time 09-Mar-2017	00:00	Rig Release Date Time				CT	CT



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	FUEL @ 08:00 HRS
Tour 1		2.25				1.25	3.25	0.25																		8.00	27836
Tour 2		5.00				2.00	3.25	0.25																		12.00	05:15
Tour 3		3.00				0.75	0.25																			4.00	-13
TOTAL		10.25				4.00	6.50	0.75																		24.00	

TOUR 1 SIGNATURE OF DRILLER RYAN NEWTON START TIME 0:00 END TIME 8:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG													
Bit Number 2	Size 159	No 1	Component BIT	OD 159	ID 121	Length 1.021	Mud Type Water	Time 00:30	Depth 1899.23	Deviation 28.60	Direction 254.2	Type 2	From 0:00	To 2:00	Elapsed 2:00	Code 2	Details of Operations In Sequence & Remarks				
IADC Code 159		Manufacturer HALIBURTON		Type MMD64DR		Serial No 12872222		Time 01:00		Depth 1908.96		Deviation 30.50		Direction 253.6		Type 2		DRILL 159MM HOLE FROM 1908 TO 1933M			
Jct's 7.9 7.9 7.9		1 5" GAP SUB		1 5" UBHO SUB		1 4.5" HWDP		Time 02:00		Depth 1918.71		Deviation 32.00		Direction 255		Type 2		DRILL 159MM HOLE FROM 1933M TO 1943M			
Depth Out (m) 1943.00		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 03:00		Depth 1928.35		Deviation 32.00		Direction 255.9		Type 2		ACCUMULATIVE TIME TO WORK STRING MAKE CONNECTIONS AND FOR TOOL FACE ORIENTATION			
Depth In (m) 466.00		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 3:15		Depth 3:45		Deviation 3:45		Direction 3:45		Type 2		CONDITION MUD & CIRCULATE			
Total Drilled (m) 1477.00		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 3:45		Depth 7:00		Deviation 7:15		Direction 7:15		Type 2		TRIP OUT OF HOLE FROM 1943M TO 0M. FLOW CHECK @ 1943M, 1845M, 970M, 466M, 0M. HOLE FILL VOL.: CAL=9.20M3 ACT.=10.68M3 DIFF.=1.48M3.			
Hrs Run Today 2.25		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 7:00		Depth 7:15		Deviation 7:45		Direction 7:45		Type 2		SAFETY MEETING WITH DISCOVERY DIRECTIONAL			
Cumulative Hrs Run 34.50		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 7:15		Depth 7:45		Deviation 8:00		Direction 8:00		Type 2		HANDLE DIRECTIONAL TOOLS			
Entry Date 11-Mar-2017		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 7:45		Depth 8:00		Deviation 8:00		Direction 8:00		Type 2		CREW CHANGE HANDOVER SAFETY MEETING WITH RIG MANAGER/ARC REPRESENTATIVES/CREWS			
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		BOILER		SAFETY		TRIPPING OUT OF HOLE		MEHL		3086		MACP			

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

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG													
Bit Number 3	Size 159	No 1	Component BIT	OD 159	ID 121	Length 1.021	Mud Type Water	Time 13:45	Depth 1937.27	Deviation 31.40	Direction 255	Type 2	From 8:00	To 9:00	Elapsed 1:00	Code 20D	Details of Operations In Sequence & Remarks				
IADC Code 159		Manufacturer HALIBURTON		Type MMD64DR		Serial No 12864408		Time 14:30		Depth 1947.01		Deviation 32.60		Direction 256.2		Type 2		HANDLE DIRECTIONAL TOOLS. LAY DOWN & PICK UP NEW MUD MOTOR. CHANGE OUT PULSE TOOL.			
Jct's 7.9 7.9 7.9		1 5" GAP SUB		1 5" UBHO SUB		1 4.5" HWDP		Time 15:15		Depth 1956.81		Deviation 36.20		Direction 255.6		Type 2		SAFETY MEETING HELD PRIOR TO TRIPPING PIPE IN HOLE			
Depth Out (m) 1942.00		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 16:00		Depth 1966.57		Deviation 38.70		Direction 256.2		Type 2		TRIP IN HOLE. FLOW CHECK @ 1006M. FILL PIPE EVERY 500M. TEST PULSE TOOL @ 1006M. WASH LAST STAND TO BOTTOM			
Depth In (m) 102.00		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 16:45		Depth 1976.30		Deviation 41.20		Direction 256.6		Type 2		RIG SERVICE. GREASE AND SERVICE TOP DRIVE. F/T UPPER PIPERAMS (6SECS TO CLOSE).			
Total Drilled (m) 102.00		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 17:30		Depth 1986.05		Deviation 43.60		Direction 257.7		Type 2		DRILL 159MM BUILD SECTION FROM 1943M - 2044M			
Hrs Run Today 5.00		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 17:45		Depth 19:45		Deviation 2:00		Direction 2:00		Type 5		ACCUMULATED TIME WORKING PIPE AND CONNECTIONS			
Cumulative Hrs Run 5.00		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 19:45		Depth 20:00		Deviation 0:25		Direction 2:1		Type 21		CREW CHANGE HANDOVER SAFETY MEETING WITH RIG MANAGER/ARC REPRESENTATIVES/CREWS			
Entry Date 13-Mar-2017		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 19:45		Depth 20:00		Deviation 0:25		Direction 2:1		Type 21					
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		BOILER		SAFETY		HANDLING BHA		MEHL		3086		MACP			

TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON START TIME 20:00 END TIME 24:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG													
Bit Number 3	Size 159	No 1	Component BIT	OD 159	ID 121	Length 1.021	Mud Type Water	Time 20:15	Depth 2034.28	Deviation 57.30	Direction 254.6	Type 2	From 20:00	To 21:45	Elapsed 1:45	Code 2	Details of Operations In Sequence & Remarks				
IADC Code 159		Manufacturer HALIBURTON		Type MMD64DR		Serial No 12864408		Time 21:15		Depth 2044.04		Deviation 60.50		Direction 254.5		Type 5		ACCUMULATIVE TIME TO WORK STRING MAKE CONNECTIONS AND FOR TOOLFACE ORIENTATION			
Jct's 7.9 7.9 7.9		1 5" GAP SUB		1 5" UBHO SUB		1 4.5" HWDP		Time 22:30		Depth 22:45		Deviation 0:25		Direction 0:25		Type 7		RIG SERVICE. FUNCTION LOWER PIPE RAMS 7 SEC TO CLOSE			
Depth Out (m) 1942.00		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 22:45		Depth 24:00		Deviation 1:25		Direction 1:25		Type 2		DRILL 159MM HOLE FROM 2078M TO 2101M			
Depth In (m) 159.00		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 22:30		Depth 22:45		Deviation 0:25		Direction 0:25		Type 7					
Total Drilled (m) 159.00		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 22:45		Depth 24:00		Deviation 1:25		Direction 1:25		Type 2					
Hrs Run Today 3.00		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 23:15		Depth 2073.02		Deviation 69.60		Direction 256.1		Type 2					
Cumulative Hrs Run 8.00		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 23:15		Depth 2073.02		Deviation 69.60		Direction 256.1		Type 2					
Entry Date 13-Mar-2017		1 4.5" HWDP		1 4.5" CROSSOVER SUB		1 4.5" CROSSOVER SUB		Time 23:15		Depth 2073.02		Deviation 69.60		Direction 256.1		Type 2					
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		BOILER		SAFETY		DERRICK CONNECTIONS		MEHL		3132		MACP			

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170313 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 13	DAILY CHECKS	OP RM
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well Id 105/167-06-081-16W6	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 Baked (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (on/crow/month) (9) CADCDC Rig Safety Inspection Checklist (on/crow/month) (10) Major Jobs Checked (11) Mast Inspection before Raising or Lowering (12) Crown Saver Checked (13) Motor Vibs Checked	AL CT AL CT AL CT AL CT CT CT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No. 50	Rig No 465	Well Type HORIZ	Squad Date Time 09-Mar-2017	00:00		
Signature of Operator's Representative ALLAN LUNGL	Signature of Contractor's Rig Manager CECIL TROWBRIDGE							



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	FUEL @ 08:00 HRS
Tour 1		2.25					1.25	3.25	0.25																	8.00	27336
Tour 2		5.00					2.00	3.25	0.25																	12.00	05:15
Tour 3		3.00					0.75	0.25																		4.00	-13
TOTAL		10.25					4.00	6.50	0.75																	24.00	

TOUR 1 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **0:00** END TIME **8:00**

BITS Bit Number: 2 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12872222 Jct: 7.9 7.9 7.9 Depth Out (m): 1943.00 Depth In (m): 466.00 Total Drilled (m): 1477.00 Hrs Run Today: 2.25 Cumulative Hrs Run: 34.50 Entry Date: 11-Mar-2017	DRILLING ASSEMBLY No. Component OD ID Length 1 BIT 159 1 0.21 1 2" SEALED TB 3.7810 MOTOR 126 1 8.63 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.31 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 73 127.65 49 Drill Pipe Stands 1427.60 0 Drill Pipe Singles 0.00	MUD RECORD Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time: [] Density: [] Funnel Viscosity: [] Fluid Loss: [] pH: [] Location Of Sample: [] Depth: [] PVT: [] Circulation: [] Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 78 10000 8.00	DEVIATION SURVEYS Time Depth Deviation Direction Type 18:00 1995.57 47.20 256.7 18:30 2005.32 50.50 254.7 19:45 2024.70 55.50 255	TIME LOG From To Elapsed Code Details Of Operations In Sequence & Remarks Remarks F/T TRAVEL STOPS, CROWN SAVER & MCWS. INSPECT ALL FLOOR EQUIPMENT. F/T CHOKES 1&2 AND FLARE STACK IGNITER. CHECK OVER MANIFOLD AND BOP VALVE ALIGNMENT. INSPECT BRAKES, DRILL LINE AND ANCHOR. HAZARD ID : HEAVY SNOW BUILD UP ON MUSTER AREA AIR PACK TENT CAUSING IT TO COLLAPSE/ CLEANED OFF SNOW AND PUT TENT BACK IN PLACE				
					CUTTING STRUCTURE TO: 1 FROM: 1 MDC: WT LDC: S BRG: X Kelly Down: 0 Up: 0 Total: 1933.21 Weight of DC: 75.00	HOLE CONDITION Hole Drag Up 6 Down 8 Torque At Bottom 6000 Fill On Bottom	REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 2640 @ 40 @ 1933.00	BOILER BoilerNo HoursRun pH StackTemp SAFETY TRIPPING OUT OF HOLE 80 3086 MACP

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

BITS Bit Number: 3 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12864408 Jct: 7.9 7.9 7.9 Depth Out (m): 1942.00 Depth In (m): 102.00 Total Drilled (m): 102.00 Hrs Run Today: 5.00 Cumulative Hrs Run: 5.00 Entry Date: 13-Mar-2017	DRILLING ASSEMBLY No. Component OD ID Length 1 BIT 159 1 0.21 1 2" SEALED TB 3.7810 MOTOR 126 1 8.63 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.31 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 73 127.65 53 Drill Pipe Stands 1543.97 0 Drill Pipe Singles 0.00	MUD RECORD Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time: [] Density: [] Funnel Viscosity: [] Fluid Loss: [] pH: [] Location Of Sample: [] Depth: [] PVT: [] Circulation: [] Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 95 12700 8.00	DEVIATION SURVEYS Time Depth Deviation Direction Type 18:00 1995.57 47.20 256.7 18:30 2005.32 50.50 254.7 19:45 2024.70 55.50 255	TIME LOG From To Elapsed Code Details Of Operations In Sequence & Remarks Remarks F/T TRAVEL STOPS, CROWN SAVER & MCWS. INSPECT ALL FLOOR EQUIPMENT. F/T CHOKES 1&2 AND FLARE STACK IGNITER. CHECK OVER MANIFOLD AND BOP VALVE ALIGNMENT. INSPECT BRAKES, DRILL LINE AND ANCHOR. F/T BLINDRAMS OUT OF HOLE (6SECS TO CLOSE). HAZARD ID : HAND WAS WORKING TOO CLOSE WITHIN THE DRAWWORKS DANGER ZONE WHILE CLEANING RIG FLOOR. ASKED WORKER TO STAY OUT OF DANGER ZONE WHILE DRAWWORKS WAS IN OPERATION.				
					CUTTING STRUCTURE TO: 1 FROM: 1 MDC: WT LDC: S BRG: X Kelly Down: -5.78 Up: 0 Total: 2044.00 Weight of DC: 75.00	HOLE CONDITION Hole Drag Up 6 Down 8 Torque At Bottom 7900 Fill On Bottom	REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 2 3750 @ 50 @ 1942.00	BOILER BoilerNo HoursRun pH StackTemp SAFETY HANDLING BHA

TOUR 3 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **20:00** END TIME **24:00**

BITS Bit Number: 3 Size: 159 IADC Code: [] Manufacturer: HALIBURTON Type: MMD64DR Serial No: 12864408 Jct: 7.9 7.9 7.9 Depth Out (m): 1942.00 Depth In (m): 159.00 Total Drilled (m): 159.00 Hrs Run Today: 3.00 Cumulative Hrs Run: 8.00 Entry Date: 13-Mar-2017	DRILLING ASSEMBLY No. Component OD ID Length 1 BIT 159 1 0.21 1 2" SEALED TB 3.7810 MOTOR 126 1 8.63 1 4.75" NON MAG POLY MODEL 121 70 1.95 1 4.75" NON MAG FLEX MODEL 118 70 9.49 1 5" GAP SUB 130 68 1.72 1 5" UBHO SUB 116 64 0.80 3 4.75" NON MAG FLEX MODEL 118 70 28.31 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 73 127.65 55 Drill Pipe Stands 1602.07 0 Drill Pipe Singles 0.00	MUD RECORD Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time: [] Density: [] Funnel Viscosity: [] Fluid Loss: [] pH: [] Location Of Sample: [] Depth: [] PVT: [] Circulation: [] Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 15500 4.00	DEVIATION SURVEYS Time Depth Deviation Direction Type 4.00 1160 1150 1650 4.00 1160 1150 1650	TIME LOG From To Elapsed Code Details Of Operations In Sequence & Remarks Remarks FUNCTION HIGH/LOW TRAVEL STOPS/LIMITS,FUNCTION CROWN SAVER INSPECT TOP DRIVE,DRAWWORKS,DRILL LINE AND DRILL LINE ANCHORS,INSPECT FLOORHEAD, TONGS,SLIPS,ELEVATORS,DOG COLLARS,FUNCTION FLARE STACK AND CHOKES, ISBPECT ALL WELL CONTROL EQUIPMENT AND CHECK BOP AND MANIFOLD VALVE ALIGNMENT				
					CUTTING STRUCTURE TO: 1 FROM: 1 MDC: WT LDC: S BRG: X Kelly Down: -6.88 Up: 0 Total: 2101.00 Weight of DC: 76.00	HOLE CONDITION Hole Drag Up 7 Down 9 Torque At Bottom 6800 Fill On Bottom	REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 2 4300 @ 56 @ 2078.00	BOILER BoilerNo HoursRun pH StackTemp SAFETY DERRICK CONNECTIONS 81 3132 MACP

FRONT PAGE SUMMARY										Tour Sheet Serial Number PREC465 20170314 1A		Vendor Software Version RMS 2016.8.30.38074		Year 2017		Month 03		Day 14		DAILY CHECKS					OP RM																									
License No 32951										Well Name ARCRES HZ PARKLAND E11-04-081-16										Surface Location 11-4-81-16 W6		Prov BC		Loc Type DLS		Unique Well ID 105/167-06-081-16W6		<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 Licence & Stick Diagram Posted <input type="checkbox"/> (5) Flare Lines Scaled <input type="checkbox"/> (6) BOP Tests Performed <input type="checkbox"/> (7) Visually Inspected BOPs Flare Lines & Degasser Lines <input type="checkbox"/> (8) Rig Site Health & Safety Meeting (on/crow/month) <input type="checkbox"/> (9) CAODC Rig Safety Inspection Checklist (on/crow/month) <input type="checkbox"/> (10) Mast Inspection before Raising or Lowering <input type="checkbox"/> (11) Cover Saver Checked <input type="checkbox"/> (12) Major Risks Checked					<table border="1"> <tr><td>AL</td><td>CT</td></tr> <tr><td>AL</td><td>CT</td></tr> <tr><td>AL</td><td>CT</td></tr> <tr><td>AL</td><td>CT</td></tr> <tr><td>AL</td><td>CT</td></tr> <tr><td>AL</td><td>CT</td></tr> <tr><td>CT</td><td>CT</td></tr> <tr><td>CT</td><td>CT</td></tr> </table>		AL	CT	AL	CT	AL	CT	AL	CT	AL	CT	AL	CT	CT	CT	CT	CT
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Company Name ARC Resources Ltd.										Contractor Precision Drilling, div of PDC										Contractor's Job No 465		Well Type HORIZ		Re-Entry <input type="checkbox"/>																										
Contractor's PSE 17DR0046										Contractor's Job No 50										Spud Date Time 09-Mar-2017		00:00																												
Signature of Operator's Representative ALLAN LUNGA										Signature of Contractor's Rig Manager CECIL TROWBRIDGE																																								



Code	HOURS																									TOTAL	FUEL @ 08:00 HRS	WEATHER					
	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Cag & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other								
Tour 1		3.50				1.75	2.50																				8.00	24882	4199	06:00	-1		
Tour 2						7.25	0.25			0.75											2.50	1.25					12.00						
Tour 3		0.25				3.50	0.25																				4.00						
TOTAL		3.75				1.75	13.25	0.50		0.75											2.50	1.50					24.00						

TOUR **1** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **0:00** END TIME **8:00**

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG										
Bit Number 3	Size 159	IADC Code	Manufacturer HALLIBURTON	Type MMD64DR	Serial No 12864408	Jts 7.9 7.9 7.9 7.9	Depth Out (m) 2165.00	Depth In (m) 1942.00	Total Drilled (m) 223.00	Hrs Run Today 3.50	Cumulative Hrs Run 11.50	Entry Date 13-Mar-2017	Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>				Time 03:30 2130.86 87.00 256.4 04:15 2140.44 88.40 256.8 04:45 2150.19 89.60 256.3				From To Elapsed Code 03:30 2130.86 87.00 256.4 04:15 2140.44 88.40 256.8 04:45 2150.19 89.60 256.3			
CUTTING STRUCTURE		Kelly Down 0.00				REDUCED PUMP SPEED				MUD MATERIALS ADDED				SAFETY										
METRES DRILLED		HOLE CONDITION				PUMP #				BOILER				TRIPPING OUT OF HOLE										
From To D-R-C RPM WOB		Hole Drag Up 7 Down 9				Torque At Bottom 6800				BoilerNo HoursRun pH StackTemp				Safety Topic MEHL 3132 MACP										
TOUR 2		SIGNATURE OF DRILLER DAVE LOEWEN				START TIME 8:00				END TIME 20:00														

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG										
Bit Number 4	Size 159	IADC Code	Manufacturer REED	Type SK413M-A1G-Z	Serial No ES32413	Jts 9.5 9.5	Depth Out (m) 2165.00	Depth In (m)	Total Drilled (m)	Hrs Run Today	Cumulative Hrs Run	Entry Date 14-Mar-2017	Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>				Time				From To Elapsed Code			
CUTTING STRUCTURE		Kelly Down				REDUCED PUMP SPEED				MUD MATERIALS ADDED				SAFETY										
METRES DRILLED		HOLE CONDITION				PUMP #				BOILER				HANDLING BHA										
From To D-R-C RPM WOB		Hole Drag Up Down				Torque At Bottom				BoilerNo HoursRun pH StackTemp				Safety Topic MEHL 3040 MACP										
TOUR 3		SIGNATURE OF DRILLER RYAN NEWTON				START TIME 20:00				END TIME 24:00														

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG										
Bit Number 4	Size 159	IADC Code	Manufacturer REED	Type SK413M-A1G-Z	Serial No ES32413	Jts 9.5 9.5	Depth Out (m) 2165.00	Depth In (m)	Total Drilled (m) 11.00	Hrs Run Today 0.25	Cumulative Hrs Run 0.25	Entry Date 14-Mar-2017	Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>				Time				From To Elapsed Code			
CUTTING STRUCTURE		Kelly Down -12.26				REDUCED PUMP SPEED				MUD MATERIALS ADDED				SAFETY										
METRES DRILLED		HOLE CONDITION				PUMP #				BOILER				PICKING UP DRILL PIPE FROM CATWALK										
From To D-R-C RPM WOB		Hole Drag Up 5 Down 6				Torque At Bottom 5500				BoilerNo HoursRun pH StackTemp				Safety Topic MEHL 3040 MACP										
TOUR 3		SIGNATURE OF DRILLER RYAN NEWTON				START TIME 20:00				END TIME 24:00														

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170315 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 15	DAILY CHECKS		OP RM
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Plot BC	Loc Type DLS	Unique Well ID 105/167-06-081-16W6	<input type="checkbox"/> (1) Daily Walk Around Inspection <input type="checkbox"/> (2) Detailed Inspection - Weekly (Using Check List) <input type="checkbox"/> (3) H2S Signs Postcard 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) CAADC Rig Safety Inspection Checklist (once/week/month) <input type="checkbox"/> (10) Mast Inspection before Raising or Lowering <input type="checkbox"/> (11) Cover Sliver Checked <input type="checkbox"/> (12) Major Vibs Checked		AL	CT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No 50	Rig No 465	Well Type HORIZ	Spud Date Time 09-Mar-2017	00:00	Re-Entry <input type="checkbox"/>	AL	CT
Signature of Operator's Representative ALLAN LUNGLAL	Signature of Contractor's Rig Manager CECIL TROWBRIDGE								



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	FUEL @ 08:00 HRS
Hours																										8.00	21276
Tour 1																										4.75	4199
Tour 2																										6.75	0
Tour 3																										2.75	0
TOTAL																										14.25	0

TOUR 1 SIGNATURE OF DRILLER RYAN NEWTON START TIME 0:00 END TIME 8:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 4	Size 159	No 1	Component BIT	OD 159	ID 10.21	Mud Type Water	Time 03:30	Depth 1190	Deviation 89.10
IADC Code REED	Manufacturer REED	1	1 REELED BY ELECTRIC MOTOR	130	1 9.15	Other <input type="checkbox"/>	04:45	2172.76	258.4
Type SK413M-A1G-Z	Serial No ES32413	1	1 4.75" NON MAG FLEX MONEL	118	70 9.52		01:00	2201.66	259.9
Jets 9.5 9.5	Depth Out (m) 2165.00	1	1 5" GAP SUB	130	68 1.66		01:30	2216.16	263.4
Depth In (m) 333.00	Total Drilled (m) 4.75	2	2 4.75" NON MAG FLEX MONEL	118	70 18.81		01:45	2230.44	266.1
Hrs Run Today 5.00	Cumulative Hrs Run 14-Mar-2017	1	1 4.75" SLIDE REAMER	130	58 1.30		02:15	2244.94	268.2
Entry Date 14-Mar-2017	Cutting Structure -0.22	1	1 4.75" CROSSOVER SUB	133	63 0.94		SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 8.00 1190 1170 1760		
TOUR 2 SIGNATURE OF DRILLER DAVE LOEWEN	Hole Condition 8200	1	1 5" HYDMECH JARS	130	58 5.20		MUD MATERIALS ADDED Product Amount Type CES SECONDARY 1 BBL CES WETTER 1 BBL LIME 15 SXS ENERMUL P-100 1 BBL		
TOUR 2 SIGNATURE OF DRILLER DAVE LOEWEN	Reduced Pump Speed 8200	1	1 4.75" CROSSOVER SUB	133	63 0.78		BOILER BoilerNo HoursRun pH StackTemp 1 8.00 10.5 340 2 8.00 10.5 340		
TOUR 2 SIGNATURE OF DRILLER DAVE LOEWEN	Remarks FUNCTION HIGH/LOW TRAVEL STOPS/LIMITS,FUNCTION CROWN SAVER INSPECT TOP DRIVE,DRAWWORKS,DRILL LINE AND DRILL LINE ANCHORS,INSPECTFLOORHARD, TONGS,SLIPS,ELEVATORS,DOG COLLARS,FUNCTION FLARE STACK AND CHOKES, INSPECT ALL WELL CONTROL EQUIPMENT AND CHECK BOP AND MANIFOLD VALVE ALIGNMENT HAZARD ID NOTICED LOOSE HAMMER UNIONS ON MUD ROW ON SUITCASES PIPER TO SAFETY								

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

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 4	Size 159	No 1	Component BIT	OD 159	ID 10.21	Mud Type Water	Time 10:00	Depth 1175	Deviation 89.20
IADC Code REED	Manufacturer REED	1	1 REELED BY ELECTRIC MOTOR	130	1 9.15	Other <input type="checkbox"/>	14:15	2493.07	292.7
Type SK413M-A1G-Z	Serial No ES32413	1	1 4.75" NON MAG FLEX MONEL	118	70 9.52		08:30	2522.29	292.4
Jets 9.5 9.5	Depth Out (m) 2165.00	1	1 5" GAP SUB	130	68 1.66		09:00	2551.43	292.7
Depth In (m) 1059.00	Total Drilled (m) 7.75	2	2 4.75" NON MAG FLEX MONEL	118	70 18.81		09:15	2580.56	292.4
Hrs Run Today 12.75	Cumulative Hrs Run 14-Mar-2017	1	1 4.75" SLIDE REAMER	130	58 1.30		09:45	2609.77	292.3
Entry Date 14-Mar-2017	Cutting Structure 5.51	1	1 4.75" CROSSOVER SUB	133	63 0.94		10:15	2637.72	292.5
TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON	Hole Condition 11000	1	1 5" HYDMECH JARS	130	58 5.20		SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 12.00 1185 1175 1740		
TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON	Reduced Pump Speed 11000	2	2 4.75" CROSSOVER SUB	133	63 0.78		MUD MATERIALS ADDED Product Amount Type CES WETTER 1 BBL CES SECONDARY 1 BBL ENERMUL P-100 1 BBL LIME 15 BAGS BARITE 20 BAGS		
TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON	Remarks FUNCTION HIGH/LOW TRAVEL STOPS/LIMITS,FUNCTION CROWN SAVER INSPECT TOP DRIVE,DRAWWORKS,DRILL LINE AND DRILL LINE ANCHORS,INSPECTFLOORHARD, TONGS,SLIPS,ELEVATORS,DOG COLLARS,FUNCTION FLARE STACK AND CHOKES, INSPECT ALL WELL CONTROL EQUIPMENT AND CHECK BOP AND MANIFOLD VALVE ALIGNMENT. HAZARD ID - NOTICED WORKER WHEN USING MANRIDER DID NOT HAVE HIS SHOCK								

TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON START TIME 20:00 END TIME 24:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 4	Size 159	No 1	Component BIT	OD 159	ID 10.21	Mud Type Water	Time 23:30	Depth 1180	Deviation 89.20
IADC Code REED	Manufacturer REED	1	1 REELED BY ELECTRIC MOTOR	130	1 9.15	Other <input type="checkbox"/>	23:30	3232.22	289.8
Type SK413M-A1G-Z	Serial No ES32413	1	1 4.75" NON MAG FLEX MONEL	118	70 9.52		21:00	3261.47	291
Jets 9.5 9.5	Depth Out (m) 2165.00	1	1 5" GAP SUB	130	68 1.66		21:30	3290.58	291.8
Depth In (m) 1285.00	Total Drilled (m) 2.75	2	2 4.75" NON MAG FLEX MONEL	118	70 18.81		22:00	3319.34	292.4
Hrs Run Today 15.50	Cumulative Hrs Run 14-Mar-2017	1	1 4.75" SLIDE REAMER	130	58 1.30		22:45	3348.20	292.5
Entry Date 14-Mar-2017	Cutting Structure -0.83	1	1 4.75" CROSSOVER SUB	133	63 0.94		23:15	3377.18	293.4
TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON	Hole Condition 11000	1	1 5" HYDMECH JARS	130	58 5.20		SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 4.00 1180 1160 1720		
TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON	Reduced Pump Speed 11000	1	1 4.75" CROSSOVER SUB	133	63 0.78		MUD MATERIALS ADDED Product Amount Type BARITE 22 EACH LIME 15 EACH GRAPHITE 20 EACH LIQUID SLIDE 1 EACH ENERTONE-D 1 EACH CES WETTER 1 EACH		
TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON	Remarks FUNCTION HIGH/LOW TRAVEL STOPS/LIMITS,FUNCTION CROWN SAVER INSPECT TOP DRIVE,DRAWWORKS,DRILL LINE AND DRILL LINE ANCHORS,INSPECTFLOORHARD, TONGS,SLIPS,ELEVATORS,DOG COLLARS,FUNCTION FLARE STACK AND CHOKES, INSPECT ALL WELL CONTROL EQUIPMENT AND CHECK BOP AND MANIFOLD VALVE ALIGNMENT								

TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON START TIME 24:00 END TIME 30:00

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170315 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 15	DAILY CHECKS	OP RM	
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 105/167-06-081-16W6	Re-Entry <input type="checkbox"/>	(1) Daily Walk Around Inspection (2) Detailed Inspection - Weedy (Using Check List) (3) H2S Signs Posted if Required (4) Well Licence and Stick Diagram Posted (5) Flare Lines Scaled (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines	AL CT AL CT AL CT AL CT	
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No. 50	465	Well Type HORIZ	Spud Date Time 09-Mar-2017	00:00	(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 Saver Checked (5) Major Vibs Checked	CT CT CT	
Signature of Operator's Representative ALLAN LUNGLAL	Signature of Contractor's Rig Manager CECIL TROWBRIDGE								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	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drilling 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	Waiting On	Rig Watch	Other		21276	4199	05:30	0
Tour 1		4.75			2.75		0.25																			8.00				
Tour 2		6.75			4.50		0.25																			12.00				
Tour 3		2.75			1.00		0.25																			4.00				
TOTAL		14.25			8.25		0.75																			24.00				

TOUR 1 SIGNATURE OF DRILLER RYAN NEWTON START TIME 0:00 END TIME 8:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: ES32413 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2165.00 Total Drilled (m): 333.00 Hrs Run Today: 4.75 Cumulative Hrs Run: 5.00 Entry Date: 14-Mar-2017	1 BIT 159 1 0.21 1 1 REAMER BIT 130 1 9.15 1 1 4.75" NON MAG FLEX MONEL 118 70 9.52 1 1 5" GAP SUB 130 68 1.66 2 1 4.75" NON MAG FLEX MONEL 118 70 18.81 1 1 4.75" SLIDE REAMER 130 58 1.30 1 1 4.75" CROSSOVER SUB 133 63 0.94 1 1 4.5" DP 135 80 38.70 1 1 4.75" CROSSOVER SUB 133 63 0.78 1 1 5" HYDMECH JARS 130 58 5.20 1 1 4.75" CROSSOVER SUB 133 63 0.78 57 4.5" DP 135 80 38.44 1 1 4.75" CROSSOVER SUB 133 63 0.78 0 Drill Pipe Stands 0.00 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 18:15 Density: 1185 Funnel Viscosity: 56 Fluid Loss: 3130.00 pH: 87 Location Of Sample: SHAKER Depth: 3130.00 PVT: 87 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 31000 8.00	Time Depth Deviation Direction Type 02:30 2259.52 88.80 271.6 03:15 2274.02 89.30 272.8 03:30 2288.72 90.80 273.3 03:45 2303.22 90.90 273.8 04:00 2317.90 89.20 274 04:30 2332.40 89.00 275	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	SOLIDS CONTROL	MUD MATERIALS ADDED
Kelly Down: -0.22 Total: 2498.00 Weight of DC: 66.60 Weight of String: 70.00	Hole Drag Up: 7 Down: 9 Torque At Bottom: 8200 Fill On Bottom:	Pump # Pressure Strokes/min Depth 1 7250 @ 56 @ 2322.00	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 8.00 1190 1170 1760	Product Amount Type
METRES DRILLED	BOILER	REMARKS	SAFETY	DERRICK CONNECTIONS
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	FUNCTION HIGH/LOW TRAVEL STOPS/LIMITS,FUNCTION CROWN SAVER INSPECT TOP DRIVE,DRAWWORKS,DRILL LINE AND DRILL LINE ANCHORS,INSPECT FLOORHARD, TONGS,SLIPS,ELEVATORS,DOG COLLARS,FUNCTION FLARE STACK AND CHOKES, INSPECT ALL WELL CONTROL EQUIPMENT AND CHECK BOP AND MANIFOLD VALVE ALIGNMENT HAZARD ID NOTICED LOOSE HAMMER UNIONS ON MUD ROW ON SUITCASES PIPER TO	MEHL 3040 MACP	65 3040

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

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: ES32413 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2165.00 Total Drilled (m): 1059.00 Hrs Run Today: 7.75 Cumulative Hrs Run: 12.75 Entry Date: 14-Mar-2017	1 BIT 159 1 0.21 1 1 REAMER BIT 130 1 9.15 1 1 4.75" NON MAG FLEX MONEL 118 70 9.52 1 1 5" GAP SUB 130 68 1.66 2 1 4.75" NON MAG FLEX MONEL 118 70 18.81 1 1 4.75" SLIDE REAMER 130 58 1.30 1 1 4.75" CROSSOVER SUB 133 63 0.94 1 1 4.5" DP 135 80 38.70 1 1 4.75" CROSSOVER SUB 133 63 0.78 1 1 5" HYDMECH JARS 130 58 5.20 1 1 4.75" CROSSOVER SUB 133 63 0.78 57 4.5" DP 135 80 38.44 1 1 4.75" CROSSOVER SUB 133 63 0.78 5 Drill Pipe Stands 146.24 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 18:15 Density: 1185 Funnel Viscosity: 56 Fluid Loss: 3130.00 pH: 87 Location Of Sample: SHAKER Depth: 3130.00 PVT: 87 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 26000 12.00	Time Depth Deviation Direction Type 10:30 2665.81 88.90 292.1 11:00 2693.73 88.10 292.9 11:30 2721.61 89.40 290.9 12:00 2749.62 86.80 291.8 12:45 2777.23 87.80 294.6 13:15 2805.15 90.40 292.9	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	SOLIDS CONTROL	MUD MATERIALS ADDED
Kelly Down: 5.51 Total: 3224.00 Weight of DC: 83.06 Weight of String: 71.00	Hole Drag Up: 11 Down: 19 Torque At Bottom: 11000 Fill On Bottom:	Pump # Pressure Strokes/min Depth 2 7180 @ 65 @ 2460.00 2 7340 @ 65 @ 3095.00 2 7740 @ 65 @ 3730.00	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 12.00 1185 1175 1740	Product Amount Type
METRES DRILLED	BOILER	REMARKS	SAFETY	DERRICK CONNECTIONS
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	FUNCTION HIGH/LOW TRAVEL STOPS/LIMITS,FUNCTION CROWN SAVER INSPECT TOP DRIVE,DRAWWORKS,DRILL LINE AND DRILL LINE ANCHORS,INSPECT FLOORHARD, TONGS,SLIPS,ELEVATORS,DOG COLLARS,FUNCTION FLARE STACK AND CHOKES, INSPECT ALL WELL CONTROL EQUIPMENT AND CHECK BOP AND MANIFOLD VALVE ALIGNMENT. HAZARD ID - NOTICED WORKER WHEN USING MANRIDER DID NOT HAVE HIS SHOCK	MEHL 3040 MACP	65 3040

TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON START TIME 20:00 END TIME 24:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: ES32413 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2165.00 Total Drilled (m): 1285.00 Hrs Run Today: 2.75 Cumulative Hrs Run: 15.50 Entry Date: 14-Mar-2017	1 BIT 159 1 0.21 1 1 REAMER BIT 130 1 9.15 1 1 4.75" NON MAG FLEX MONEL 118 70 9.52 1 1 5" GAP SUB 130 68 1.66 2 1 4.75" NON MAG FLEX MONEL 118 70 18.81 1 1 4.75" SLIDE REAMER 130 58 1.30 1 1 4.75" CROSSOVER SUB 133 63 0.94 1 1 4.5" DP 135 80 38.70 1 1 4.75" CROSSOVER SUB 133 63 0.78 1 1 5" HYDMECH JARS 130 58 5.20 1 1 4.75" CROSSOVER SUB 133 63 0.78 57 4.5" DP 135 80 38.44 1 1 4.75" CROSSOVER SUB 133 63 0.78 13 Drill Pipe Stands 378.58 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 18:15 Density: 1185 Funnel Viscosity: 56 Fluid Loss: 3130.00 pH: 87 Location Of Sample: SHAKER Depth: 3130.00 PVT: 87 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 27000 4.00	Time Depth Deviation Direction Type 14:00 2665.81 88.90 292.1 14:30 2693.73 88.10 292.9 15:00 2721.61 89.40 290.9 15:30 2749.62 86.80 291.8 16:00 2777.23 87.80 294.6 16:30 2805.15 90.40 292.9	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	SOLIDS CONTROL	MUD MATERIALS ADDED
Kelly Down: -0.83 Total: 3450.00 Weight of DC: 82.90 Weight of String: 71.00	Hole Drag Up: 12 Down: 20 Torque At Bottom: 11000 Fill On Bottom:	Pump # Pressure Strokes/min Depth 1 8423 @ 56 @ 3334.00	Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 4.00 1180 1160 1720	Product Amount Type
METRES DRILLED	BOILER	REMARKS	SAFETY	DERRICK CONNECTIONS
From To D-R-C RPM WOB	BoilerNo HoursRun pH StackTemp	FUNCTION HIGH/LOW TRAVEL STOPS/LIMITS,FUNCTION CROWN SAVER INSPECT TOP DRIVE,DRAWWORKS,DRILL LINE AND DRILL LINE ANCHORS,INSPECT FLOORHARD, TONGS,SLIPS,ELEVATORS,DOG COLLARS,FUNCTION FLARE STACK AND CHOKES, INSPECT ALL WELL CONTROL EQUIPMENT AND CHECK BOP AND MANIFOLD VALVE ALIGNMENT	MEHL 3040 MACP	90 3040

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170315 1A	Vender Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 15	DAILY CHECKS	OP RM	
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 105/167-06-081-16W6	Re-Entry <input type="checkbox"/>	(1) Daily Walk Around Inspection (2) Detailed Inspection - Weedy (Using Check List) (3) H2S Signs Posted if Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Baked (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines	AL CL CT CT CT CT CT CT	
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No. 50	465	Squad Date Time 09-Mar-2017		00:00	(1) Rig Site Health & Safety Meeting (on/crow/month) (2) CADC Rig Safety Inspection Checklist (on/crow/month) (3) Mast Inspection before Raising or Lowering (4) Cover Saver Checked (5) Motor Vibs Checked	CT CT	
Operator 17DR0046	Signature of Operator's Representative ALLAN LUNGL	Signature of Contractor's Rig Manager CECIL TROWBRIDGE							



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	Other	
Hours																												
Tour 1		4.75			2.75		0.25																				8.00	
Tour 2		6.75			4.50		0.25																				12.00	
Tour 3		2.75			1.00		0.25																				4.00	
TOTAL		14.25			8.25		0.75																				24.00	

Fuel @ 08:00 HRS	21276	4199
Time	05:30	0
Wind Direction		
Wind Strength		
Road Condition		

TOUR **1** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **0:00** END TIME **8:00**

BITS Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: ES32413 Serial No: ES32413 JMS: 9.5 9.5 Depth Out (m): 2165.00 Total Drilled (m): 333.00 Hrs Run Today: 4.75 Cumulative Hrs Run: 5.00 Entry Date: 14-Mar-2017	DRILLING ASSEMBLY No: 1 Component: BIT OD: 159 ID: 1.21 Length: 1.30 1 1/2 SEaled 67 1/2 ESTIC MOTOR: 130 1 9.15 1 4.75" NON MAG FLEX WHEEL: 118 70 9.52 1 5" GAP SUB: 130 68 1.66 2 4.75" NON MAG FLEX WHEEL: 118 70 18.81 1 4.75" SLIDE REAMER: 130 58 1.30 1 4.75" CROSSOVER SUB: 133 63 0.94 1 4.45" DP: 135 80 38.70 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 57 4.5" DP: 135 80 38.44 1 4.75" CROSSOVER SUB: 133 63 0.78 0 Drill Pipe: Stands: 0.00 0 Drill Pipe: Singles: 0.00	MUD RECORD Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time: 05:00 2347.05 89.50 276.6 05:15 2361.55 89.00 280 05:45 2376.29 89.60 281.5 06:15 2390.79 90.10 283.1 06:30 2405.46 89.60 286.3 06:45 2419.96 88.40 286.6 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 31000 8.00	DEVIATION SURVEYS Time Depth Deviation Direction Type 05:00 2347.05 89.50 276.6 05:15 2361.55 89.00 280 05:45 2376.29 89.60 281.5 06:15 2390.79 90.10 283.1 06:30 2405.46 89.60 286.3 06:45 2419.96 88.40 286.6 SOILS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 8.00 1190 1170 1760	TIME LOG From To Elapsed Code Details Of Operations In Sequence & Remarks MUD MATERIALS ADDED Product Amount Type BOILER BoilerNo HoursRun pH StackTemp DERRICK CONNECTIONS Safety Topic MEHL MACP
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TOUR **2** SIGNATURE OF DRILLER **DAVE LOEWEN** START TIME **8:00** END TIME **20:00**

BITS Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: ES32413 Serial No: ES32413 JMS: 9.5 9.5 Depth Out (m): 2165.00 Total Drilled (m): 1059.00 Hrs Run Today: 7.75 Cumulative Hrs Run: 12.75 Entry Date: 14-Mar-2017	DRILLING ASSEMBLY No: 1 Component: BIT OD: 159 ID: 1.21 Length: 1.30 1 1/2 SEaled 67 1/2 ESTIC MOTOR: 130 1 9.15 1 4.75" NON MAG FLEX WHEEL: 118 70 9.52 1 5" GAP SUB: 130 68 1.66 2 4.75" NON MAG FLEX WHEEL: 118 70 18.81 1 4.75" SLIDE REAMER: 130 58 1.30 1 4.75" CROSSOVER SUB: 133 63 0.94 1 4.45" DP: 135 80 38.70 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 57 4.5" DP: 135 80 38.44 1 4.75" CROSSOVER SUB: 133 63 0.78 5 Drill Pipe: Stands: 146.24 0 Drill Pipe: Singles: 0.00	MUD RECORD Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time: 13:45 2833.25 90.30 291.3 14:15 2861.11 89.60 292.4 14:45 2889.08 88.40 291.7 15:15 2917.11 88.40 291.7 15:30 2945.03 88.90 292.7 16:00 2973.07 88.80 293.3 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 2 SINGLE 127 112 26000 12.00	DEVIATION SURVEYS Time Depth Deviation Direction Type 13:45 2833.25 90.30 291.3 14:15 2861.11 89.60 292.4 14:45 2889.08 88.40 291.7 15:15 2917.11 88.40 291.7 15:30 2945.03 88.90 292.7 16:00 2973.07 88.80 293.3 SOILS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 12.00 1185 1175 1740	TIME LOG From To Elapsed Code Details Of Operations In Sequence & Remarks MUD MATERIALS ADDED Product Amount Type BOILER BoilerNo HoursRun pH StackTemp FIRE TRIANGLE Safety Topic MEHL MACP
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TOUR **3** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **20:00** END TIME **24:00**

BITS Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: ES32413 Serial No: ES32413 JMS: 9.5 9.5 Depth Out (m): 2165.00 Total Drilled (m): 1285.00 Hrs Run Today: 2.75 Cumulative Hrs Run: 15.50 Entry Date: 14-Mar-2017	DRILLING ASSEMBLY No: 1 Component: BIT OD: 159 ID: 1.21 Length: 1.30 1 1/2 SEaled 67 1/2 ESTIC MOTOR: 130 1 9.15 1 4.75" NON MAG FLEX WHEEL: 118 70 9.52 1 5" GAP SUB: 130 68 1.66 2 4.75" NON MAG FLEX WHEEL: 118 70 18.81 1 4.75" SLIDE REAMER: 130 58 1.30 1 4.75" CROSSOVER SUB: 133 63 0.94 1 4.45" DP: 135 80 38.70 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 57 4.5" DP: 135 80 38.44 13 Drill Pipe: Stands: 378.58 0 Drill Pipe: Singles: 0.00	MUD RECORD Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time: 18:23 3423.05 89.50 276.6 18:40 3437.55 89.00 280 19:10 3452.29 89.60 281.5 19:40 3466.79 90.10 283.1 20:10 3481.46 89.60 286.3 20:40 3496.06 88.40 286.6 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 112 27000 4.00	DEVIATION SURVEYS Time Depth Deviation Direction Type 18:23 3423.05 89.50 276.6 18:40 3437.55 89.00 280 19:10 3452.29 89.60 281.5 19:40 3466.79 90.10 283.1 20:10 3481.46 89.60 286.3 20:40 3496.06 88.40 286.6 SOILS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 4.00 1180 1160 1720	TIME LOG From To Elapsed Code Details Of Operations In Sequence & Remarks MUD MATERIALS ADDED Product Amount Type BOILER BoilerNo HoursRun pH StackTemp INVERT EXPOSURE Safety Topic MEHL MACP
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FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170315 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 15	DAILY CHECKS	OP RM	
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 105/167-06-081-16W6	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 Baked (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines	AL CT AL CT AL CT AL CT	
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Contractor's Job No 50	Rig No 465	Well Type HORIZ	Spoil Date Time 09-Mar-2017	Rig Release Date Time 00:00	(1) Rig Site Health & Safety Meeting (on/crow/month) (2) CADCOC Rig Safety Inspection Checklist (on/crow/month) (3) Mast Inspection before Raising or Lowering (4) Cover Slaver Checked (5) Major Risks Checked	CT CT CT CT	
Operator's Representative ALLAN LUNGL	Signature of Contractor's Rig Manager CECIL TROWBRIDGE								



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	Other
Tour 1		4.75				2.75		0.25																		8.00	
Tour 2		6.75				4.50		0.25																		12.00	
Tour 3		2.75				1.00		0.25																		4.00	
TOTAL		14.25				8.25		0.75																		24.00	

Kelly Blocking	Top Fuel
	3606
FUEL @ 08:00 HRS	
Flow	Power
21276	4199
Temp	
05:30	0
Wind Direction	Wind Strength
Road Condition	

TOUR 1 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **0:00** END TIME **8:00**

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: ES32413 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2165.00 Depth In (m): 333.00 Total Drilled (m): 4.75 Hrs Run Today: 5.00 Cumulative Hrs Run: 14-Mar-2017	1 BIT 159 1 0.21 1 130 1 9.15 1 118 70 9.52 1 130 68 1.66 2 118 70 1.81 1 130 58 1.30 1 133 63 0.94 1 135 80 38.70 1 133 63 0.78 1 130 58 5.20 1 133 63 0.78 57 4.5" DP 135 80 354.4 1 133 63 0.78 0 Drill Pipe Stands 0.00 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time: 07:15 2434.71 88.20 288.5 07:45 2463.91 88.80 292.4 Density: 1.19 Funnel Viscosity: 100 Fluid Loss: 0.0 pH: 10.0 Location of Sample: 130 Depth: 130 PVT: 130 Circulation: Pump # 1 Type SINGLE Liner Size 127 SPM 112 Pressure 31000 Hrs Run 8.00	Time: 07:15 2434.71 88.20 288.5 07:45 2463.91 88.80 292.4 Type: 292.7 292.3 293.2 291.9 291.6	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	MUD MATERIALS ADDED	BOILER
Kelly Down: -0.22 Total: 2498.00 Weight of DC: 66.60 Weight of String: 70.00	Hole Drag Up 7 Down 9 Torque At Bottom 8200 Fill On Bottom	Pump # 1 Pressure 7250 Strokes/min 56 @ 2322.00	Product Amount Type	BoilerNo HoursRun pH StackTemp
METRES DRILLED	HOLE CONDITION	REDUCED PUMP SPEED	MUD MATERIALS ADDED	BOILER
From To D-R-C RPM WOB	Hole Drag Up 11 Down 19 Torque At Bottom 11000 Fill On Bottom	Pump # 2 Pressure 7180 Strokes/min 65 @ 2460.00 2 7340 @ 65 @ 2695.00 2 7740 @ 65 @ 2720.00	Product Amount Type	BoilerNo HoursRun pH StackTemp

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

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: ES32413 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2165.00 Depth In (m): 1059.00 Total Drilled (m): 7.75 Hrs Run Today: 12.75 Cumulative Hrs Run: 14-Mar-2017	1 BIT 159 1 0.21 1 130 1 9.15 1 118 70 9.52 1 130 68 1.66 2 118 70 1.81 1 130 58 1.30 1 133 63 0.94 1 135 80 38.70 1 133 63 0.78 1 130 58 5.20 1 133 63 0.78 57 4.5" DP 135 80 354.4 1 133 63 0.78 5 Drill Pipe Stands 146.24 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time: 16:30 3000.87 88.50 292.7 17:00 3028.90 88.20 292.3 17:30 3056.75 90.40 293.2 17:45 3085.99 91.30 291.9 18:15 3115.34 90.40 291.6 19:00 3144.65 88.10 290.5	Time: 16:30 3000.87 88.50 292.7 17:00 3028.90 88.20 292.3 17:30 3056.75 90.40 293.2 17:45 3085.99 91.30 291.9 18:15 3115.34 90.40 291.6 19:00 3144.65 88.10 290.5	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	MUD MATERIALS ADDED	BOILER
Kelly Down: 5.51 Total: 3224.00 Weight of DC: 83.06 Weight of String: 71.00	Hole Drag Up 11 Down 19 Torque At Bottom 11000 Fill On Bottom	Pump # 2 Pressure 7180 Strokes/min 65 @ 2460.00 2 7340 @ 65 @ 2695.00 2 7740 @ 65 @ 2720.00	Product Amount Type	BoilerNo HoursRun pH StackTemp
METRES DRILLED	HOLE CONDITION	REDUCED PUMP SPEED	MUD MATERIALS ADDED	BOILER
From To D-R-C RPM WOB	Hole Drag Up 12 Down 20 Torque At Bottom 11000 Fill On Bottom	Pump # 1 Pressure 8423 Strokes/min 56 @ 3334.00	Product Amount Type	BoilerNo HoursRun pH StackTemp

TOUR 3 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **20:00** END TIME **24:00**

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: ES32413 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 2165.00 Depth In (m): 1285.00 Total Drilled (m): 2.75 Hrs Run Today: 15.50 Cumulative Hrs Run: 14-Mar-2017	1 BIT 159 1 0.21 1 130 1 9.15 1 118 70 9.52 1 130 68 1.66 2 118 70 1.81 1 130 58 1.30 1 133 63 0.94 1 135 80 38.70 1 133 63 0.78 1 130 58 5.20 1 133 63 0.78 57 4.5" DP 135 80 354.4 1 133 63 0.78 13 Drill Pipe Stands 378.58 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time: 16:30 3000.87 88.50 292.7 17:00 3028.90 88.20 292.3 17:30 3056.75 90.40 293.2 17:45 3085.99 91.30 291.9 18:15 3115.34 90.40 291.6 19:00 3144.65 88.10 290.5	Time: 16:30 3000.87 88.50 292.7 17:00 3028.90 88.20 292.3 17:30 3056.75 90.40 293.2 17:45 3085.99 91.30 291.9 18:15 3115.34 90.40 291.6 19:00 3144.65 88.10 290.5	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	MUD MATERIALS ADDED	BOILER
Kelly Down: -0.83 Total: 3450.00 Weight of DC: 82.90 Weight of String: 71.00	Hole Drag Up 12 Down 20 Torque At Bottom 11000 Fill On Bottom	Pump # 1 Pressure 8423 Strokes/min 56 @ 3334.00	Product Amount Type	BoilerNo HoursRun pH StackTemp
METRES DRILLED	HOLE CONDITION	REDUCED PUMP SPEED	MUD MATERIALS ADDED	BOILER
From To D-R-C RPM WOB	Hole Drag Up 12 Down 20 Torque At Bottom 11000 Fill On Bottom	Pump # 1 Pressure 8423 Strokes/min 56 @ 3334.00	Product Amount Type	BoilerNo HoursRun pH StackTemp

FRONT PAGE SUMMARY

Tour Sheet Serial Number: PREC465 20170315 1A
Vendor Software Version: RMS 2016.8.30.38074
Year: 2017
Month: 03
Day: 15
Surface Location: 11-4-81-16 W6
Prov: BC
Lic Type: DLS
Unique Well Id: 105/167-06-081-16W6

DAILY CHECKS

- (1) Daily Walk Around Inspection
(2) Detailed Inspection - Weekly (Using Check List)
(3) H2S Signs Postcard if Required
(4) Well Licence & Stick Diagram Posted
(5) Flare Lines Baked
(6) BOP Tests Performed
(7) Visually Inspected BOPs Flare Lines & Degasser Lines
(8) Rig Site Health & Safety Meeting (on/crow/month)
(9) CAODC Rig Safety Inspection Checklist (on/crow/month)
(10) Mast Inspection before Raising or Lowering
(11) Cover Sliver Checked
(12) Motor Vibs Checked



License No: 32951
Well Name: ARGRES HZ PARKLAND E11-04-081-16
Contractor: Precision Drilling, div of PDC
Company Job No: 50
Signature of Operator's Representative: ALLAN LUNGA
Signature of Contractor's Rig Manager: CECIL TROWBRIDGE

Table with 25 columns (Code 1-25) and 4 rows (Tour 1-3, TOTAL). Columns include Rig Up, Drill Actual, Reaming, Coring, Core Mud & Circ, Trips, Rig Services, Repair Rig, Cut Off Drill Line, Dev Survey, Wireline Logs, Run Cag & Cement, Wait On Cement, Night/BOP, Test BOP, Drift/Ann Test, Plug Back, Squeeze Cement, Fishing, Dir Work, Safety Meeting, Tear Down, Walking On, Rig Watch, Other. Includes FUEL @ 08:00 HRS and WEATHER data.

TOUR 1 SIGNATURE OF DRILLER: RYAN NEWTON START TIME: 0:00 END TIME: 8:00

TOUR 1 Data Section: BITS (4, 159), DRILLING ASSEMBLY (1 BIT, 15" GAP SUB, 4.5" DP), MUD RECORD (1 SINGLE, 127 112 31000 8.00), DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE (Total 2498.00), METRES DRILLED (Total 333.00), HOLE CONDITION (7 Down, 9 Up), REDUCED PUMP SPEED (1 SINGLE, 127 112 31000 8.00), MUD MATERIALS ADDED, BOILER, DERRICK CONNECTIONS.

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

TOUR 2 Data Section: BITS (4, 159), DRILLING ASSEMBLY (1 BIT, 15" GAP SUB, 4.5" DP), MUD RECORD (2 SINGLE, 127 112 26000 12.00), DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE (Total 3224.00), METRES DRILLED (Total 1059.00), HOLE CONDITION (11 Down, 19 Up), REDUCED PUMP SPEED (2 SINGLE, 127 112 26000 12.00), MUD MATERIALS ADDED, BOILER, FIRE TRIANGLE.

TOUR 3 SIGNATURE OF DRILLER: RYAN NEWTON START TIME: 20:00 END TIME: 24:00

TOUR 3 Data Section: BITS (4, 159), DRILLING ASSEMBLY (1 BIT, 15" GAP SUB, 4.5" DP), MUD RECORD (1 SINGLE, 127 112 27000 4.00), DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE (Total 3450.00), METRES DRILLED (Total 1285.00), HOLE CONDITION (12 Down, 20 Up), REDUCED PUMP SPEED (1 SINGLE, 127 112 27000 4.00), MUD MATERIALS ADDED, BOILER, INVERT EXPOSURE.

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170316 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 16	DAILY CHECKS		OP RM
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Plow BC	Log Type DLS	Unique Well ID 105/167-06-081-16W6	(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Postcard If Required (4) Well License & Block Diagram Posted (5) Flare Lines Staked (6) BOP Tests Performed (7) Visually Inspected BOPs-Flare Lines & Degasser Lines		AL	CT
Company ARC Resources Ltd.	Contractor Precision Drilling, div of PDC	Company Job No 50	Rig No 465	Well Type HORIZ	Re-Entry <input type="checkbox"/>	(1) Rig Site Health & Safety Meeting (once/week/month) (2) CAODC Rig Safety Inspection Checklist (once/week/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Vibs Checked		AL	CT
Signature of Operator's Representative ALLAN LUNGLAL	Signature of Contractor's Rig Manager CECIL TROWBRIDGE	Squad Date Time 09-Mar-2017	Rig Release Date Time 00:00					CT	CT



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																										8.00	43793
Tour 1																										12.00	4199
Tour 2																										4.00	05:30
Tour 3																										24.00	15
TOTAL																											

TOUR 1 SIGNATURE OF DRILLER RYAN NEWTON START TIME 0:00 END TIME 8:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 4	Size 159	No 1	Component BIT	OD 159	ID 10.21	Mud Type Water	Time 00:00	Depth 3435.33	Deviation 88.00
IADC Code REED	Manufacturer REED	No 1	Component 1 5" GAP SUB	OD 130	ID 68	Water <input type="checkbox"/>	Time 00:30	Depth 3464.35	Deviation 87.70
Type SK413M-A1G-Z	Serial No ES32413	No 1	Component 4.45" DP	OD 130	ID 80	Oil <input type="checkbox"/>	Time 01:00	Depth 3493.55	Deviation 89.40
Jct 9.5 9.5	Depth Out (m) 3888.00	No 1	Component 4.45" DP	OD 130	ID 80	Other <input type="checkbox"/>	Time 01:30	Depth 3522.85	Deviation 90.10
Depth In (m) 2165.00	Total Drilled (m) 1723.00	No 1	Component 4.45" DP	OD 130	ID 80		Time 02:00	Depth 3552.03	Deviation 90.90
Hrs Run Today 5.75	Cumulative Hrs Run 21.25	No 1	Component 4.45" DP	OD 130	ID 80		Time 02:30	Depth 3581.26	Deviation 89.30
Entry Date 14-Mar-2017		No 1	Component 4.45" DP	OD 130	ID 80				
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		SAFETY	
Kelly Down -0.92		Hole Drag Up 13 Down 20		Pump # Pressure Strokes/min Depth 1 8730 @ 56 @ 3890.00		GRAPHITE 20 EACH		MEHL 3040 MACP	
Total 3888.00		Torque At Bottom 12000				ENERMUL P-100 1 EACH			
Weight of DC 0.00		Fill On Bottom				CES SECONDARY 1 EACH			
Weight of String 70.00						ENERSLIDE C 1 EACH			

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

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 4	Size 159	No 1	Component BIT	OD 159	ID 10.21	Mud Type Water	Time 08:30	Depth 3902.50	Deviation 88.80
IADC Code REED	Manufacturer REED	No 1	Component 1 5" GAP SUB	OD 130	ID 68	Water <input type="checkbox"/>	Time 09:00	Depth 3931.35	Deviation 88.50
Type SK413M-A1G-Z	Serial No ES32413	No 1	Component 4.45" DP	OD 130	ID 80	Oil <input type="checkbox"/>	Time 09:30	Depth 3960.58	Deviation 88.40
Jct 9.5 9.5	Depth Out (m) 4470.00	No 1	Component 4.45" DP	OD 130	ID 80	Other <input type="checkbox"/>	Time 10:00	Depth 3989.58	Deviation 87.80
Depth In (m) 2165.00	Total Drilled (m) 2305.00	No 1	Component 4.45" DP	OD 130	ID 80		Time 10:30	Depth 4018.61	Deviation 88.60
Hrs Run Today 7.50	Cumulative Hrs Run 28.75	No 1	Component 4.45" DP	OD 130	ID 80		Time 11:15	Depth 4077.05	Deviation 89.20
Entry Date 14-Mar-2017		No 1	Component 4.45" DP	OD 130	ID 80				
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		SAFETY	
Kelly Down -0.85		Hole Drag Up 15 Down 28		Pump # Pressure Strokes/min Depth 2 8880 @ 56 @ 3916.00		LIQUID SLIDE 3 EACH		MEHL 3040 MACP	
Total 4470.00		Torque At Bottom 13300				GRAPHITE 30 EACH			
Weight of DC 0.00		Fill On Bottom				BARITE 138 EACH			
Weight of String 70.00									

TOUR 3 SIGNATURE OF DRILLER RYAN NEWTON START TIME 20:00 END TIME 24:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 4	Size 159	No 1	Component BIT	OD 159	ID 10.21	Mud Type Water	Time 20:00	Depth 2145.00	Deviation 1.75
IADC Code REED	Manufacturer REED	No 1	Component 1 5" GAP SUB	OD 130	ID 68	Water <input type="checkbox"/>	Time 21:45	Depth 2245.00	Deviation 2.25
Type SK413M-A1G-Z	Serial No ES32413	No 1	Component 4.45" DP	OD 130	ID 80	Oil <input type="checkbox"/>			
Jct 9.5 9.5	Depth Out (m) 4470.00	No 1	Component 4.45" DP	OD 130	ID 80	Other <input type="checkbox"/>			
Depth In (m) 2165.00	Total Drilled (m) 2305.00	No 1	Component 4.45" DP	OD 130	ID 80				
Hrs Run Today 28.75	Cumulative Hrs Run 28.75	No 1	Component 4.45" DP	OD 130	ID 80				
Entry Date 14-Mar-2017		No 1	Component 4.45" DP	OD 130	ID 80				
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		SAFETY	
Kelly Down -0.85		Hole Drag Up 15 Down 28		Pump # Pressure Strokes/min Depth 2 9230 @ 56 @ 4220.00		BARITE 30 SX		MEHL 3040 MACP	
Total 4470.00		Torque At Bottom 13300				GRAPHITE 20 SX			
Weight of DC 0.00		Fill On Bottom				ENERSLIDE C 20 SX			
Weight of String 70.00						LIQUID SLIDE 1 BBL			

FRONT PAGE SUMMARY										Tour Sheet Serial Number PREC465 20170316 1A		Vendor Software Version RMS 2016.8.30.38074		Year 2017		Month 03		Day 16		DAILY CHECKS					OP RM																					
License No 32951										Well Name ARCRES HZ PARKLAND E11-04-081-16										Surface Location 11-4-81-16 W6		Prov BC		Lic Type DLS		Unique Well Id 105/167-06-081-16W6		<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 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) Wellhead Safety Meeting (once/week/month) <input type="checkbox"/> (9) CADCOC Rig Safety Inspection Checklist (once/week/month) <input type="checkbox"/> (10) Mast Inspection before Raising or Lowering <input type="checkbox"/> (11) Cover Saver Checked <input type="checkbox"/> (12) Motor Vibs Checked					<table border="1"> <tr><td>AL</td><td>CT</td></tr> <tr><td>AL</td><td>CT</td></tr> <tr><td>AL</td><td>CT</td></tr> <tr><td>AL</td><td>CT</td></tr> <tr><td>CT</td><td>CT</td></tr> <tr><td>CT</td><td>CT</td></tr> </table>		AL	CT	AL	CT	AL	CT	AL	CT	CT	CT	CT	CT
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Contractor ARC Resources Ltd.										Precision Drilling, div of PDC										Contractor Job No 465		Well Type HORIZ		Re-Entry <input type="checkbox"/>																						
Contractor's PSE 17DR0046										Signature of Contractor's Rig Manager ALLAN LUNGL										50		Squad Date Time 09-Mar-2017		00:00																						
Signature of Operator's Representative ALLAN LUNGL										Signature of Contractor's Rig Manager CECIL TROWBRIDGE																																				



Code	Hours																				TOTAL	FUEL @ 08:00 HRS	WEATHER			
	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drilling Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work				Safety Meeting	Tear Down	Walking On
Tour 1	5.75				1.75	0.25															0.25					8.00
Tour 2	7.50				3.75	0.25															0.50					12.00
Tour 3					1.75	2.25																			4.00	
TOTAL	13.25				7.25	2.25	0.50														0.75					24.00

TOUR **1** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **0:00** END TIME **8:00**

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG						
Bit Number 4	Size 159	No 1	Component BIT	OD 159	ID 10.21	Mud Type Water	Other <input type="checkbox"/>	Time 03:00	Depth 3610.44	Deviation 89.80	Direction 291.9	Type 291.9	From 03:00	To 03:30	Elapsed 3639.56	Code 90.60	Details Of Operations In Sequence & Remarks			
IADC Code REED	Manufacturer REED	Type SK413M-A1G-Z	Serial No ES32413	Jets 9.5 9.5	Depth Out (m) 3888.00	Depth In (m) 2165.00	Total Drilled (m) 1723.00	Hrs Run Today 5.75	Cumulative Hrs Run 21.25	Entry Date 14-Mar-2017	CUTTING STRUCTURE				METRES DRILLED					
		HOLE CONDITION				REDUCED PUMP SPEED				BOILER				SAFETY						
		Kelly Down -0.92				Pump # Pressure Strokes/min Depth 1 8730 @ 56 @ 399.00				BoilerNo HoursRun pH StackTemp				Safety Topic MEHL MACP						
		Total 3888.00				Torque At Bottom 12000				BoilerNo HoursRun pH StackTemp				DERRICK CONNECTIONS 90 3040						
		Weight of DC 0.00				Torque On Bottom				BoilerNo HoursRun pH StackTemp				START TIME 8:00 END TIME 20:00						
		Weight of String 70.00				Fill On Bottom				BoilerNo HoursRun pH StackTemp										

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

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG						
Bit Number 4	Size 159	No 1	Component BIT	OD 159	ID 10.21	Mud Type Water	Other <input type="checkbox"/>	Time 11:45	Depth 4106.36	Deviation 90.00	Direction 293.8	Type 293.8	From 11:45	To 12:30	Elapsed 4135.40	Code 87.30	Details Of Operations In Sequence & Remarks			
IADC Code REED	Manufacturer REED	Type SK413M-A1G-Z	Serial No ES32413	Jets 9.5 9.5	Depth Out (m) 4470.00	Depth In (m) 2165.00	Total Drilled (m) 2305.00	Hrs Run Today 7.50	Cumulative Hrs Run 28.75	Entry Date 14-Mar-2017	CUTTING STRUCTURE				METRES DRILLED					
		HOLE CONDITION				REDUCED PUMP SPEED				BOILER				SAFETY						
		Kelly Down -0.85				Pump # Pressure Strokes/min Depth 2 8880 @ 56 @ 3916.00				BoilerNo HoursRun pH StackTemp				Safety Topic MEHL MACP						
		Total 4470.00				Torque At Bottom 13300				BoilerNo HoursRun pH StackTemp				DERRICK CONNECTIONS 100 3040						
		Weight of DC 0.00				Torque On Bottom				BoilerNo HoursRun pH StackTemp				START TIME 20:00 END TIME 24:00						
		Weight of String 70.00				Fill On Bottom				BoilerNo HoursRun pH StackTemp										

TOUR **3** SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **20:00** END TIME **24:00**

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG						
Bit Number 4	Size 159	No 1	Component BIT	OD 159	ID 10.21	Mud Type Water	Other <input type="checkbox"/>	Time 14:30	Depth 4134.38	Deviation 88.20	Direction 292.3	Type 292.3	From 14:30	To 15:00	Elapsed 4193.31	Code 87.90	Details Of Operations In Sequence & Remarks			
IADC Code REED	Manufacturer REED	Type SK413M-A1G-Z	Serial No ES32413	Jets 9.5 9.5	Depth Out (m) 4470.00	Depth In (m) 2165.00	Total Drilled (m) 2305.00	Hrs Run Today 7.50	Cumulative Hrs Run 28.75	Entry Date 14-Mar-2017	CUTTING STRUCTURE				METRES DRILLED					
		HOLE CONDITION				REDUCED PUMP SPEED				BOILER				SAFETY						
		Kelly Down -0.85				Pump # Pressure Strokes/min Depth 2 9000 @ 56 @ 4976.00				BoilerNo HoursRun pH StackTemp				Safety Topic MEHL MACP						
		Total 4470.00				Torque At Bottom 13300				BoilerNo HoursRun pH StackTemp				DERRICK CONNECTIONS 95 3040						
		Weight of DC 0.00				Torque On Bottom				BoilerNo HoursRun pH StackTemp				START TIME 20:00 END TIME 24:00						
		Weight of String 70.00				Fill On Bottom				BoilerNo HoursRun pH StackTemp										

FRONT PAGE SUMMARY										Tour Sheet Serial Number PREC465 20170316 1A		Vendor Software Version RMS 2016.8.30.38074		Year 2017		Month 03		Day 16		DAILY CHECKS					OP RM																					
License No 32951										Well Name ARCRES HZ PARKLAND E11-04-081-16										Surface Location 11-4-81-16 W6		Prov BC		Lic Type DLS		Unique Well Id 105/167-06-081-16W6		<input type="checkbox"/> (1) Daily Walk Around Inspection <input type="checkbox"/> (2) Detailed Inspection - Weibity (Using Check List) <input type="checkbox"/> (3) H2S Signs Posted if Required <input type="checkbox"/> (4) Well Licence & Stick Diagram Posted <input type="checkbox"/> (5) Flare Lines Staked <input type="checkbox"/> (6) BOP Tests Performed <input type="checkbox"/> (7) Visually Inspected BOPs Flare Lines & Degasser Lines <input type="checkbox"/> (8) Rig Site Health & Safety Meeting (once/week/month) <input type="checkbox"/> (9) CADCOC Rig Safety Inspection Checklist (once/week/month) <input type="checkbox"/> (10) Mast Inspection before Raising or Lowering <input type="checkbox"/> (11) Cover Saver Checked <input type="checkbox"/> (12) Major Risks Checked					<table border="1"> <tr><td>AL</td><td>CT</td></tr> <tr><td>AL</td><td>CT</td></tr> <tr><td>AL</td><td>CT</td></tr> <tr><td>AL</td><td>CT</td></tr> <tr><td>CT</td><td>CT</td></tr> <tr><td>CT</td><td>CT</td></tr> </table>		AL	CT	AL	CT	AL	CT	AL	CT	CT	CT	CT	CT
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Company ARC Resources Ltd.										Contractor Precision Drilling, div of PDC										Contractor Job No 465		Well Type HORIZ		Re-Entry <input type="checkbox"/>																						
Operator's Ref 17DR0046										Contractor's Job No 50										Spud Date Time 09-Mar-2017		Rig Release Date Time 00:00																								
Signature of Operator's Representative ALLAN LUNGL										Signature of Contractor's Rig Manager CECIL TROWBRIDGE																																				



Code	TOUR 1 SIGNATURE OF DRILLER RYAN NEWTON START TIME 0:00 END TIME 8:00																									
	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drilling Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other	TOTAL
Tour 1	5.75				1.75	0.25															0.25					8.00
Tour 2	7.50				3.75	0.25															0.50					12.00
Tour 3					1.75	2.25																				4.00
TOTAL	13.25				7.25	2.25	0.50														0.75					24.00

Fuel @ 08:00 HRS	Rig Fuel	43793	4199
Time	Temp	05:30	-5
Wind Direction	Wind Strength		
Road Condition			

TOUR 1 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **0:00** END TIME **8:00**

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG							
Bit Number 4	Size 159	No 1	Component BIT	OD 159	ID 10.21	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks			
IADC Code	Manufacturer REED	1	SEALING BIT	130	1	1			06:30	3785.99	89.20	292.9						Remarks FUNCTION HIGH/LOW TRAVEL STOPS/LIMITS,FUNCTION CROWN SAVER INSPECT TOP DRIVE,DRAWWORKS,DRILL LINE AND DRILL LINE ANCHORS,INSPECT FLOORHAND, TONGS,SLIPS,ELEVATORS,DOG COLLARS,FUNCTION FLARE STACK AND CHOKES, INSPECT ALL WELL CONTROL EQUIPMENT AND CHECK BOP AND MANIFOLD VALVE ALIGNMENT			
Type SK413M-A1G-Z	Serial No ES32413	1	NON MAG FLEX MODEL	118	70	1			06:45	3815.14	89.70	293									
Jets 9.5 9.5		1	5" GAP SUB	130	68	1			07:30	3844.41	88.20	293.2									
Depth Out (m) 3888.00		2	NON MAG FLEX MODEL	118	70	1			08:00	3873.42	87.80	292.8									
Depth In (m) 2165.00		1	4.75" SLIDE REAMER	130	58	1															
Total Drilled (m) 1723.00		1	4.75" CROSSOVER SUB	133	63	1															
Hrs Run Today 5.75		1	5" HYDMECH JARS	130	58	1															
Cumulative Hrs Run 21.25		1	4.75" CROSSOVER SUB	133	63	1															
Entry Date 14-Mar-2017		1	4.75" CROSSOVER SUB	133	63	1															
CUTTING STRUCTURE		Kelly Down		Total		Weight of DC		Weight of String		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		SAFETY					
		-0.92		3888.00		0.00		70.00		13 Down 20		Pump # Pressure Strokes/min Depth		Product Amount Type		MEHL 3040 MACP					
										Torque At Bottom		1 8730 @ 56 @ 399.00				DERRICK CONNECTIONS					
										Fill On Bottom						90 3040					

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

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG							
Bit Number 4	Size 159	No 1	Component BIT	OD 159	ID 10.21	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks			
IADC Code	Manufacturer REED	1	SEALING BIT	130	1	1			15:30	4280.82	87.80	292.3						Remarks FUNCTION HIGH/LOW TRAVEL STOPS/LIMITS,FUNCTION CROWN SAVER INSPECT TOP DRIVE,DRAWWORKS,DRILL LINE AND DRILL LINE ANCHORS,INSPECT FLOORHAND, TONGS,SLIPS,ELEVATORS,DOG COLLARS,FUNCTION FLARE STACK AND CHOKES, INSPECT ALL WELL CONTROL EQUIPMENT AND CHECK BOP AND MANIFOLD VALVE ALIGNMENT. HAZARD ID- WORKER WALKED BETWEEN ELEVATORS AND STUMP WHEN DRILLER WAS ABOUT TO FLOAT. STOPPED			
Type SK413M-A1G-Z	Serial No ES32413	1	NON MAG FLEX MODEL	118	70	1			16:15	4309.60	89.60	292.6									
Jets 9.5 9.5		1	5" GAP SUB	130	68	1			16:30	4338.74	91.00	293.4									
Depth Out (m) 4470.00		2	NON MAG FLEX MODEL	118	70	1			17:15	4047.72	88.60	292.7									
Depth In (m) 2165.00		1	4.75" SLIDE REAMER	130	58	1			17:30	4367.91	89.30	292.2									
Total Drilled (m) 2305.00		1	4.75" CROSSOVER SUB	133	63	1			17:45	4397.05	90.70	292.6									
Hrs Run Today 7.50		1	5" HYDMECH JARS	130	58	1															
Cumulative Hrs Run 28.75		1	4.75" CROSSOVER SUB	133	63	1															
Entry Date 14-Mar-2017		1	4.75" CROSSOVER SUB	133	63	1															
CUTTING STRUCTURE		Kelly Down		Total		Weight of DC		Weight of String		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		SAFETY					
		-0.85		4470.00		0.00		70.00		15 Down 28		Pump # Pressure Strokes/min Depth		Product Amount Type		MEHL 3040 MACP					
										Torque At Bottom		2 8880 @ 56 @ 391.00				DERRICK CONNECTIONS					
										Fill On Bottom						100 3040					

TOUR 3 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME **20:00** END TIME **24:00**

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG							
Bit Number 4	Size 159	No 1	Component BIT	OD 159	ID 10.21	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks			
IADC Code	Manufacturer REED	1	SEALING BIT	130	1	1			15:30	4280.82	87.80	292.3						Remarks FUNCTION HIGH/LOW TRAVEL STOPS/LIMITS,FUNCTION CROWN SAVER INSPECT TOP DRIVE,DRAWWORKS,DRILL LINE AND DRILL LINE ANCHORS,INSPECT FLOORHAND, TONGS,SLIPS,ELEVATORS,DOG COLLARS,FUNCTION FLARE STACK AND CHOKES, INSPECT ALL WELL CONTROL EQUIPMENT AND CHECK BOP AND MANIFOLD VALVE ALIGNMENT OBSERVATION: OBSERVED WORKER MIXING CHEMICALSWEARING ALL PPE FULL FACE MASK ETC. THANKED WORKER FOR HIS			
Type SK413M-A1G-Z	Serial No ES32413	1	NON MAG FLEX MODEL	118	70	1			16:15	4309.60	89.60	292.6									
Jets 9.5 9.5		1	5" GAP SUB	130	68	1			16:30	4338.74	91.00	293.4									
Depth Out (m) 4470.00		2	NON MAG FLEX MODEL	118	70	1			17:15	4047.72	88.60	292.7									
Depth In (m) 2165.00		1	4.75" SLIDE REAMER	130	58	1			17:30	4367.91	89.30	292.2									
Total Drilled (m) 2305.00		1	4.75" CROSSOVER SUB	133	63	1			17:45	4397.05	90.70	292.6									
Hrs Run Today 7.50		1	5" HYDMECH JARS	130	58	1															
Cumulative Hrs Run 28.75		1	4.75" CROSSOVER SUB	133	63	1															
Entry Date 14-Mar-2017		1	4.75" CROSSOVER SUB	133	63	1															
CUTTING STRUCTURE		Kelly Down		Total		Weight of DC		Weight of String		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		SAFETY					
		-0.85		4470.00		0.00		70.00		15 Down 28		Pump # Pressure Strokes/min Depth		Product Amount Type		MEHL 3040 MACP					
										Torque At Bottom		2 9000 @ 56 @ 497.00				DERRICK CONNECTIONS					
										Fill On Bottom						95 3040					

FRONT PAGE SUMMARY		Tour Sheet Serial Number PREC465 20170316 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 16	DAILY CHECKS	OP RM
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 105/167-06-081-16W6	Re-Entry <input type="checkbox"/>	(1) Daily Walk Around Inspection (2) Detailed Inspection - Weibly (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	AL CT AL CT AL CT CT CT
Company ARC Resources Ltd. Contractor's PSE 17DR0046	Contractor Precision Drilling, div of PDC Contractor's Job No. 50	Contractor's Representative ALLAN LUNGA	Well Type 465	Well Type HORIZ	Spool Date Time 09-Mar-2017	00:00	(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 Saver Checked (5) Motor Vibs Checked	CT CT



Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	FUEL @ 08:00 HRS
Hours	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drilling Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other		Rig Fuel
Tour 1		5.75				1.75		0.25																		8.00	43793
Tour 2		7.50				3.75		0.25																		12.00	4199
Tour 3						1.75	2.25																			4.00	5
TOTAL		13.25				7.25	2.25	0.50																		24.00	

TOUR 1 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME 0:00 END TIME 8:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: ES32413 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 3888.00 Depth In (m): 2165.00 Total Drilled (m): 1723.00 Hrs Run Today: 5.75 Cumulative Hrs Run: 21.25 Entry Date: 14-Mar-2017	1 BIT 159 1 0.21 1 2" SEALED 67 4.85 TO MOTOR 130 1 9.15 1 4.75" NON MAG FLEX WHEEL 118 70 9.52 1 5" GAP SUB 130 68 1.66 2 4.75" NON MAG FLEX WHEEL 118 70 18.81 1 4.75" SLIDE REAMER 130 58 1.30 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.75" CROSSOVER SUB 133 80 38.70 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 57 4.5" DP 135 80 35.40 1 4.75" CROSSOVER SUB 133 63 0.78 28 Drill Pipe Stands 816.67 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 8.00 Density: 1190 Funnel Viscosity: 1170 Fluid Loss: 1740 pH: 1170 Location of Sample: 1740 Depth: 1740 PVT: 1740 Circulation: 1 SINGLE 127 112 28000 8.00 Pump # 1 Pressure 8730 Strokes/min 56 @ 3998.00 Torque At Bottom 12000	Time: 18:30 4426.29 89.70 292.7 19:00 4455.00 89.60 293 SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 8.00 1190 1170 1740 Centrifuge #2 3.00 1190 1170 1740	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	MUD MATERIALS ADDED	BOILER
Kelly Down: -0.92 Total: 3888.00 Weight of DC: 0.00 Weight of String: 70.00	Hole Drag Up 13 Down 20 Torque At Bottom 12000 Fill On Bottom	Pump # 1 Pressure 8730 Strokes/min 56 @ 3998.00	Product Amount Type	BoilerNo HoursRun pH StackTemp
METRES DRILLED	HOLE CONDITION	REDUCED PUMP SPEED	MUD MATERIALS ADDED	BOILER
From To D-R-C RPM WOB	Hole Drag Up 13 Down 20 Torque At Bottom 12000 Fill On Bottom	Pump # 1 Pressure 8730 Strokes/min 56 @ 3998.00	Product Amount Type	BoilerNo HoursRun pH StackTemp

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

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: ES32413 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 4470.00 Depth In (m): 2165.00 Total Drilled (m): 2305.00 Hrs Run Today: 7.50 Cumulative Hrs Run: 28.75 Entry Date: 14-Mar-2017	1 BIT 159 1 0.21 1 2" SEALED 67 4.85 TO MOTOR 130 1 9.15 1 4.75" NON MAG FLEX WHEEL 118 70 9.52 1 5" GAP SUB 130 68 1.66 2 4.75" NON MAG FLEX WHEEL 118 70 18.81 1 4.75" SLIDE REAMER 130 58 1.30 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.75" CROSSOVER SUB 133 80 38.70 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 57 4.5" DP 135 80 35.40 1 4.75" CROSSOVER SUB 133 63 0.78 48 Drill Pipe Stands 1398.60 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 12.00 Density: 1200 Funnel Viscosity: 1180 Fluid Loss: 1700 pH: 1700 Location of Sample: 1700 Depth: 1700 PVT: 1700 Circulation: 2 SINGLE 127 112 28000 12.00 Pump # 2 Pressure 8880 Strokes/min 56 @ 3916.00 Torque At Bottom 13300	Time: 18:30 4426.29 89.70 292.7 19:00 4455.00 89.60 293 SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 11.00 1200 1180 1700	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	MUD MATERIALS ADDED	BOILER
Kelly Down: -0.85 Total: 4470.00 Weight of DC: 0.00 Weight of String: 70.00	Hole Drag Up 15 Down 28 Torque At Bottom 13300 Fill On Bottom	Pump # 2 Pressure 8880 Strokes/min 56 @ 3916.00 Pump # 2 Pressure 9000 Strokes/min 56 @ 4978.00 Pump # 2 Pressure 9230 Strokes/min 56 @ 4728.00	Product Amount Type	BoilerNo HoursRun pH StackTemp
METRES DRILLED	HOLE CONDITION	REDUCED PUMP SPEED	MUD MATERIALS ADDED	BOILER
From To D-R-C RPM WOB	Hole Drag Up 15 Down 28 Torque At Bottom 13300 Fill On Bottom	Pump # 2 Pressure 8880 Strokes/min 56 @ 3916.00 Pump # 2 Pressure 9000 Strokes/min 56 @ 4978.00 Pump # 2 Pressure 9230 Strokes/min 56 @ 4728.00	Product Amount Type	BoilerNo HoursRun pH StackTemp

TOUR 3 SIGNATURE OF DRILLER **RYAN NEWTON** START TIME 20:00 END TIME 24:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: SK413M-A1G-Z Type: ES32413 Serial No: 9.5 9.5 JMS: 9.5 9.5 Depth Out (m): 4470.00 Depth In (m): 2165.00 Total Drilled (m): 2305.00 Hrs Run Today: 28.75 Entry Date: 14-Mar-2017	1 BIT 159 1 0.21 1 2" SEALED 67 4.85 TO MOTOR 130 1 9.15 1 4.75" NON MAG FLEX WHEEL 118 70 9.52 1 5" GAP SUB 130 68 1.66 2 4.75" NON MAG FLEX WHEEL 118 70 18.81 1 4.75" SLIDE REAMER 130 58 1.30 1 4.75" CROSSOVER SUB 133 63 0.94 1 4.75" CROSSOVER SUB 133 80 38.70 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 57 4.5" DP 135 80 35.40 1 4.75" CROSSOVER SUB 133 63 0.78 48 Drill Pipe Stands 1398.60 0 Drill Pipe Singles 0.00	Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other: <input type="checkbox"/> Time: 2.00 Density: 27000 Funnel Viscosity: 2.00 Fluid Loss: 2.00 pH: 2.00 Location of Sample: 2.00 Depth: 2.00 PVT: 2.00 Circulation: 2 SINGLE 127 112 27000 2.00 Pump # 2 Pressure 8880 Strokes/min 56 @ 3916.00 Torque At Bottom 13300	Time: 18:30 4426.29 89.70 292.7 19:00 4455.00 89.60 293 SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density Centrifuge #1 11.00 1200 1180 1700	From To Elapsed Code Details Of Operations In Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	MUD MATERIALS ADDED	BOILER
Kelly Down: -0.85 Total: 4470.00 Weight of DC: 0.00 Weight of String: 70.00	Hole Drag Up 15 Down 28 Torque At Bottom 13300 Fill On Bottom	Pump # 2 Pressure 8880 Strokes/min 56 @ 3916.00 Pump # 2 Pressure 9000 Strokes/min 56 @ 4978.00 Pump # 2 Pressure 9230 Strokes/min 56 @ 4728.00	Product Amount Type	BoilerNo HoursRun pH StackTemp
METRES DRILLED	HOLE CONDITION	REDUCED PUMP SPEED	MUD MATERIALS ADDED	BOILER
From To D-R-C RPM WOB	Hole Drag Up 15 Down 28 Torque At Bottom 13300 Fill On Bottom	Pump # 2 Pressure 8880 Strokes/min 56 @ 3916.00 Pump # 2 Pressure 9000 Strokes/min 56 @ 4978.00 Pump # 2 Pressure 9230 Strokes/min 56 @ 4728.00	Product Amount Type	BoilerNo HoursRun pH StackTemp

TRIPPING OUT OF HOLE 95 MEHL 3040 MACP

FRONT PAGE SUMMARY				Tour Sheet Serial Number PREC465 20170317 1A	Vendor Software Version RMS 2016.8.30.38074	Year 2017	Month 03	Day 17	DAILY CHECKS		OP RM		
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16	Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 105/167-06-081-16W6			<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) CADCDC Rig Safety Inspection Checklist (once/week/month) <input type="checkbox"/> (10) Mast Inspection before Raising or Lowering <input type="checkbox"/> (11) Crown Saver Checked <input type="checkbox"/> (12) Motor Vibs Checked		AL	RT		
Contractor ARC Resources Ltd.		Precision Drilling, div of PDC		Contractor Job No 465	Well Type HORIZ	Re-Entry <input type="checkbox"/>		Squad Date Time 09-Mar-2017		Rig Release Date Time 00:00		AL	RT
Operator's Representative DOUG SHEA		Signature of Contractor's Rig Manager ROD TOMPKINS										AL	RT



Code	TOUR 1																									TOTAL	FUEL @ 08:00 HRS	WEATHER				
	Rig Up	Drill Actual	Reaming	Coiling	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Dring Line	Dev Survey	Wireline Logs	Rig Cap & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Walking On	Rig Watch	Other							
Tour 1						5.25	0.50																			8.00	38651	4199	05:30	-10		
Tour 2													11.25													12.00						
Tour 3						1.00																			4.00							
TOTAL						1.00	5.25	0.50					12.25												24.00							

TOUR 1	SIGNATURE OF DRILLER RYAN NEWTON	START TIME 0:00	END TIME 8:00
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BITS Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: REED Type: SK413M-A1G-Z Serial No: ES32413 Jct: 9.5 9.5 Jct: 9.5 9.5 Depth Out (m): 4470.00 Depth In (m): 2165.00 Total Drilled (m): 2305.00 Hrs Run Today: 28.75 Cumulative Hrs Run: 28.75 Entry Date: 14-Mar-2017	DRILLING ASSEMBLY No. Component OD ID Length 1 BIT 159 1 0.21 1 2" BEARER OF RATED MOTOR 159 1 9.15 1 4.75" NON MAG FLEX MODEL 118 70 9.52 1 5" GAP SUB 130 68 1.66 2 4.75" NON MAG FLEX MODEL 118 70 18.81 1 4.75" SLIDE REAMER 130 58 1.30 1 4.75" CROSSOVER SUB 133 63 0.94 4 4.5" DP 135 80 38.70 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 57 4.5" DP 135 80 38.45 1 4.75" CROSSOVER SUB 133 63 0.78 48 Drill Pipe Stands 1398.60 0 Drill Pipe Singles 0.00	MUD RECORD Mud Type: <input type="checkbox"/> Water <input checked="" 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	DEVIATION SURVEYS Time Depth Deviation Direction Type	TIME LOG From To Elapsed Code 0:00 5:00 5:00 6B TRIP OUT OF HOLE FROM 2911M TO 0M WITH FLOW CHECKS @ 2200M,465M,0M FILL VOLUMES CALC:17.60M3 ACT: 18.50M3 DIFF:0.70 M3 FUNCTION BLIND RAMS OUT OF HOLE 5:00 5:15 0:25 21 SAFETY MEETING WITH DISCOVERY DIRECTIONAL 5:15 6:15 1:00 20D HANDLE DIRECTIONAL TOOLS 6:15 6:30 0:25 6H PULL WEAR BUSHING 6:30 7:00 0:50 7A CLEAN RIG FLOOR 7:00 7:45 0:75 12A RIG IN TONG HAND 7:45 8:00 0:25 21 CREW CHANGE HANDOVER SAFETY MEETING WITH RIG MANAGER/ARC REPRESENTATIVES/CREWS
CUTTING STRUCTURE TO: WT ER MID: WT TD LCL: S BSG: X Kelly Down: 0.00 Total: 4470.85 Weight of DC: 80.17 Weight of String:				
METRES DRILLED From To D-R-C RPM WOB Hole Drag Up Down Torque At Bottom Fill On Bottom				
REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth BOILER BoilerNo HoursRun pH StackTemp 1 8.00 10.5 340 2 8.00 10.5 340				
REMARKS FUNCTION HIGH/LOW TRAVEL STOPS/LIMITS,FUNCTION CROWN SAVER INSPECT TOP DRIVE,DRAWWORKS,DRILL LINE AND DRILL LINE ANCHORS,INSPECT FLOORHAND, TONGS,SLIPS,ELEVATORS,DOG COLLARS,FUNCTION FLARE STACK AND CHOKES, INSPECT ALL WELL CONTROL EQUIPMENT AND CHECK BOP AND MANIFOLD VALVE ALIGNMENT. ELEVATOR CERT #DCE 409				

TOUR 2	SIGNATURE OF DRILLER DAVE LOEWEN	START TIME 8:00	END TIME 20:00
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BITS Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: REED Type: SK413M-A1G-Z Serial No: ES32413 Jct: 9.5 9.5 Jct: 9.5 9.5 Depth Out (m): 4470.00 Depth In (m): 2165.00 Total Drilled (m): 2305.00 Hrs Run Today: 28.75 Cumulative Hrs Run: 28.75 Entry Date: 14-Mar-2017	DRILLING ASSEMBLY No. Component OD ID Length 1 BIT 159 1 0.21 1 2" BEARER OF RATED MOTOR 159 1 9.15 1 4.75" NON MAG FLEX MODEL 118 70 9.52 1 5" GAP SUB 130 68 1.66 2 4.75" NON MAG FLEX MODEL 118 70 18.81 1 4.75" SLIDE REAMER 130 58 1.30 1 4.75" CROSSOVER SUB 133 63 0.94 4 4.5" DP 135 80 38.70 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 57 4.5" DP 135 80 38.45 1 4.75" CROSSOVER SUB 133 63 0.78 48 Drill Pipe Stands 1398.60 0 Drill Pipe Singles 0.00	MUD RECORD Mud Type: <input type="checkbox"/> Water <input checked="" 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	DEVIATION SURVEYS Time Depth Deviation Direction Type	TIME LOG From To Elapsed Code 8:00 8:15 0:25 21 SAFETY MEETING HELD PRIOR TO RUNNING CASING. REVIEWED CTA SECTION 4-1 8:15 15:15 7:00 12 Ran 137 joints 114.3mm 20.09 kg/m P110 LT&C casing Set from 0.00m to 1784.85m, 29 Joints 114.3mm, 20.09kg/m, P110 VAROUGHNECK Thread casing Set from 1784.85m to 2149.48m, 178 joints 114.3mm 20.09 kg/m P110 LT&C casing set from 2149.48m to 4469.0m Interra StrataJet Toe Port Subs @ 4442.13m @ 4415.14m F.C. @ 4455.23m. Total length: 4470.03m Landed @ 4469.0m FLOW CHECK @ 2036M. 15:15 15:30 0:25 21 SAFETY MEETING HELD WITH NEW TONGHAND REGARDING RUNNING CASING 15:30 19:45 4:25 12 Ran 137 joints 114.3mm 20.09 kg/m P110 LT&C casing Set from 0.00m to 1784.85m, 29 Joints 114.3mm, 20.09kg/m, P110 VAROUGHNECK Thread casing Set from 1784.85m to 2149.48m, 178 joints 114.3mm 20.09 kg/m P110 LT&C casing set from 2149.48m to 4469.0m Interra StrataJet Toe Port Subs @ 4442.13m @ 4415.14m F.C. @ 4455.23m. Total length: 4470.03m Landed @ 4469.0m FLOW CHECK @ 2036M. 19:45 20:00 0:25 21 SAFETY MEETING CREW CHANGE
CUTTING STRUCTURE TO: WT ER MID: WT TD LCL: S BSG: X Kelly Down: 0.00 Total: 4470.85 Weight of DC: 80.17 Weight of String:				
METRES DRILLED From To D-R-C RPM WOB Hole Drag Up Down Torque At Bottom Fill On Bottom				
REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth BOILER BoilerNo HoursRun pH StackTemp 1 12.00 10.5 340 2 12.00 10.5 340				
REMARKS FUNCTION HIGH/LOW TRAVEL STOPS/LIMITS,FUNCTION CROWN SAVER INSPECT TOP DRIVE,DRAWWORKS,DRILL LINE AND DRILL LINE ANCHORS,INSPECT FLOORHAND, TONGS,SLIPS,ELEVATORS,DOG COLLARS,FUNCTION FLARE STACK AND CHOKES, INSPECT ALL WELL CONTROL EQUIPMENT AND CHECK BOP AND MANIFOLD VALVE ALIGNMENT. ELEVATOR CERT #DCE 409				

TOUR 3	SIGNATURE OF DRILLER RYAN NEWTON	START TIME 20:00	END TIME 24:00
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BITS Bit Number: 4 Size: 159 IADC Code: REED Manufacturer: REED Type: SK413M-A1G-Z Serial No: ES32413 Jct: 9.5 9.5 Jct: 9.5 9.5 Depth Out (m): 4470.00 Depth In (m): 2165.00 Total Drilled (m): 2305.00 Hrs Run Today: 28.75 Cumulative Hrs Run: 28.75 Entry Date: 14-Mar-2017	DRILLING ASSEMBLY No. Component OD ID Length 1 BIT 159 1 0.21 1 2" BEARER OF RATED MOTOR 159 1 9.15 1 4.75" NON MAG FLEX MODEL 118 70 9.52 1 5" GAP SUB 130 68 1.66 2 4.75" NON MAG FLEX MODEL 118 70 18.81 1 4.75" SLIDE REAMER 130 58 1.30 1 4.75" CROSSOVER SUB 133 63 0.94 4 4.5" DP 135 80 38.70 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 57 4.5" DP 135 80 38.45 1 4.75" CROSSOVER SUB 133 63 0.78 48 Drill Pipe Stands 1398.60 0 Drill Pipe Singles 0.00	MUD RECORD Mud Type: <input type="checkbox"/> Water <input checked="" 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 86 7500 4.00	DEVIATION SURVEYS Time Depth Deviation Direction Type	TIME LOG From To Elapsed Code 20:00 20:15 0:25 12A RIG OUT TONG HAND 20:15 21:15 1:00 5 CONDITION MUD & CIRCULATE 21:15 24:00 2:75 23A W/O TRICAM CENTERER
CUTTING STRUCTURE TO: WT ER MID: WT TD LCL: S BSG: X Kelly Down: 0.00 Total: 4470.85 Weight of DC: 80.17 Weight of String:				
METRES DRILLED From To D-R-C RPM WOB Hole Drag Up Down Torque At Bottom Fill On Bottom				
REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth BOILER BoilerNo HoursRun pH StackTemp 1 4.00 10.5 340 2 4.00 10.5 340				
REMARKS FUNCTION HIGH/LOW TRAVEL STOPS/LIMITS,FUNCTION CROWN SAVER INSPECT TOP DRIVE,DRAWWORKS,DRILL LINE AND DRILL LINE ANCHORS,INSPECT FLOORHAND, TONGS,SLIPS,ELEVATORS,DOG COLLARS,FUNCTION FLARE STACK AND CHOKES, INSPECT ALL WELL CONTROL EQUIPMENT AND CHECK BOP AND MANIFOLD VALVE ALIGNMENT. ELEVATOR CERT #DCE 409				

FRONT PAGE SUMMARY										Tour Sheet Serial Number PREC465 20170318 1A		Vendor Software Version RMS 2016.8.30.38074		Year 2017	Month 03	Day 18	DAILY CHECKS			OP RM	
License No 32951	Well Name ARCRES HZ PARKLAND E11-04-081-16									Surface Location 11-4-81-16 W6	Prov BC	Loc Type DLS	Unique Well ID 105/167-06-081-16W6	(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 Baked (6) H2S Tests Performed (7) Visually Inspected BOP's Flare Lines & Degasser Lines (8) Major Vibs Checked (9) Rig Site Health & Safety Meeting (on/crow/month) (10) CADCOC Rig Safety Inspection Checklist (on/crow/month) (11) Mast Inspection before Raising or Lowering (12) Crown Saver Checked (13) Major Vibs Checked			DS	RT			
Company ARC Resources Ltd.										Contractor Precision Drilling, div of PDC		Rig No 465	Well Type HORIZ	Re-Entry <input type="checkbox"/>	DS	RT	DS	RT			
Contractor's Job No 50										Spud Date Time 09-Mar-2017	00:00	DS	RT	DS	RT						
Signature of Operator's Representative DOUG SHEA										Signature of Contractor's Rig Manager ROD TOMPKINS	Rig Release Date Time 18-Mar-2017	08:00	RT	RT	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 Dring Line	Dev Survey	Wireline Logs	Run Cag & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work				Safety Meeting	Tear Down	Walking On	Rig Watch	Other							
Tour 1																										8.00	35460	4199	06:00	14	OVERCAST	Wind Direction E	Wind Strength UP TO 19 KM/H	Temp FAIR	
Tour 2																										2.00									
Tour 3																																			
TOTAL																										10.00									

TOUR 1	SIGNATURE OF DRILLER RYAN NEWTON	START TIME 0:00	END TIME 8:00
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BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG	Details Of Operations In Sequence & Remarks														
					From	To	Elapsed Code												
Bit Number 1	No. Component 127 69 5111 3.00	Mud Type Water	Time 3:00 3:15 2:45 2:25 2:15 2:45 3:00 0:25 12A	From 3:00	To 3:15	Elapsed 0:25	Code 12A												
W/O CEMENTER SAFETY MEETING WITH TRICAN CEMENTERS RIG UP CEMENTERS Cementing Details: 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 27 Tonne, 27m ³ TAC 1600 0.25%TDH-2, 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 separation water + 29.73m ³ of water 5% Tricorr 134, 2% DF-2W, 40% excess used for cementing calculations. 9.0 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 05:25hrs March 18 / 2017																			
REDUCED PUMP SPEED BOILER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>BoilerNo</th> <th>HoursRun</th> <th>pH</th> <th>StackTemp</th> </tr> <tr> <td>1</td> <td>8.00</td> <td>10.5</td> <td>340</td> </tr> <tr> <td>2</td> <td>8.00</td> <td>10.5</td> <td>340</td> </tr> </table>								BoilerNo	HoursRun	pH	StackTemp	1	8.00	10.5	340	2	8.00	10.5	340
BoilerNo	HoursRun	pH	StackTemp																
1	8.00	10.5	340																
2	8.00	10.5	340																
SAFETY <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Safety Topic</th> <th>MEHL</th> <th>MACP</th> </tr> <tr> <td>CEMENTING CASING</td> <td>60</td> <td>3040</td> </tr> </table>								Safety Topic	MEHL	MACP	CEMENTING CASING	60	3040						
Safety Topic	MEHL	MACP																	
CEMENTING CASING	60	3040																	
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TOUR 2	SIGNATURE OF DRILLER DAVE LOEWEN	START TIME 8:00	END TIME 20:00
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BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG	Details Of Operations In Sequence & Remarks														
					From	To	Elapsed Code												
Bit Number 1	No. Component 127 69 5111 3.00	Mud Type Water	Time 8:00 9:00 1:00 2:2	From 8:00	To 9:00	Elapsed 1:00	Code 22												
PREP RIG TO WALK INSTALL WELLHEAD																			
REDUCED PUMP SPEED BOILER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>BoilerNo</th> <th>HoursRun</th> <th>pH</th> <th>StackTemp</th> </tr> <tr> <td>1</td> <td>2.00</td> <td>10</td> <td>340</td> </tr> <tr> <td>2</td> <td>2.00</td> <td>10</td> <td>340</td> </tr> </table>								BoilerNo	HoursRun	pH	StackTemp	1	2.00	10	340	2	2.00	10	340
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TOUR 3	SIGNATURE OF DRILLER ROD TOMPKINS	START TIME 20:00	END TIME 24:00
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BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG	Details Of Operations In Sequence & Remarks								
					From	To	Elapsed Code						
Bit Number 1	No. Component 127 69 5111 3.00	Mud Type Water	Time	From	To	Elapsed	Code						
SAFETY <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Safety Topic</th> <th>MEHL</th> <th>MACP</th> </tr> <tr> <td>CEMENTING CASING</td> <td>60</td> <td>3040</td> </tr> </table>								Safety Topic	MEHL	MACP	CEMENTING CASING	60	3040
Safety Topic	MEHL	MACP											
CEMENTING CASING	60	3040											
REMARKS 													