

FRONT PAGE SUMMARY										Vender Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																																																	
License No: 32315 Well Name: ARCREZ HZ PARKLAND B12-07-081-16 Contractor: ARC Resources Ltd. 17DR0009 Signature of Operator's Representative: Dan Meyer										BEAV15AC 20161231 2A Surface Location: 12-7-81-16 W6 Prov: BC Loc Type: DLS Unique Well Id: 103/13-12-081-17W6/00 Rg No: 15AC Well Type: HORIZ Spud Date Time: 31-Dec-2016 08:00										(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 Sealed (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (1) Rig Site Health & Safety Meeting (once/week/month) (2) CADC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Kils Checked										 																																																																																																																																															
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Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Other	TOTAL	FUEL @ 08:00 HRS																																																																																																																																																	
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TOUR 1										SIGNATURE OF DRILLER: Stefan Polny										START TIME: 0:00										END TIME: 8:00									
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BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number: 1A Size: 279 IADC Code: S 2 2 3 Manufacturer: Scitote Type: SS516GB Serial No: 12692 Jars: 14.3 14.3 14.3 Depth Out (m): 459.00 Depth In (m): 6.60 Total Drilled (m): 452.40 Hrs Run Today: 2.25 Cumulative Hrs Run: 2.25 Entry Date: 31-Dec-2016										No: 1 Component: Mud Motor OD: 203 ID: 165 Length: 9.14 Time: 09:30 Density: 1080 Funnel Viscosity: 35 Fluid Loss: 10 pH: 10 Location Of Sample: Shakers Depth: 1.00 PVT: 29.61										Mud Type: Water Other: <input type="checkbox"/> Time: 06:30 Density: 1080 Funnel Viscosity: 35 Fluid Loss: 10 pH: 10 Location Of Sample: Shakers Depth: 1.00 PVT: 29.61										Time: 09:15 Depth: 45.89 Deviation: 0.50 Direction: 149.2 Type: DIRECTIONAL 09:45 74.10 0.30 139.2 10:00 103.90 0.50 124.7 10:30 131.85 0.70 118.2 10:45 160.24 0.70 244.4 11:15 188.66 0.70 221.1										From: 8:00 To: 10:15 Elapsed: 2:15 Code: 2 Details Of Operations In Sequence & Remarks Review JSA & visually inspect rig prior to walking to next well. Walk Beaver Rig#15AC 10m from C12-07-081-16W6M to B12-07-081-15W6M. 4:30 6:30 2:00 1 Rig up Beaver Rig#15AC to Spud. Adjust suitcases & cable festoon. Rig up PipeCat & casing racks for drilling operations. Rig up cellar trash pumps & circulating system. Install mast under catch tank & spot shale bin. Prepare rig floor for drilling operations. 6:30 6:45 0:15 21F Pre-Spud rig inspection, hazard hunt & correct all deficiencies. 6:45 7:00 0:15 21D Pre-Spud safety meeting, discuss ERP & stick diagram. STARS site# 3187. 7:00 7:15 0:15 21 Crew hand-over meeting. Discuss hazard id's & daily events 7:15 7:30 0:15 21D Safety meeting & review JSA with Dynamic directional drilling. 7:30 8:00 0:30 20D Handle Dynamic directional tools. Make up PDC Bit #1A. Break monels & install MWD tool. Warm up Top Drive, mudline & BHA with steam.									
CUTTING STRUCTURE TO: 1 MD: 1 LDC: 1 BSG: 1										Kelly Down: 1 Total: 1 Weight of DC: 1 Weight of String: 1										Circulation Pump # 1 Type: PARALLEL Liner Size: 152 SPM: 15 Pressure: 0 Hrs Run: 2.00 Pump # 2 Type: PARALLEL Liner Size: 152 SPM: 15 Pressure: 0 Hrs Run: 2.00										SOLIDS CONTROL Equipment Name: Hours Run: Intake Density: Over Flow Density: Under Flow Density:										MUD MATERIALS ADDED Product: Amount: Type:									
METRES DRILLED From: 6.60 To: 459.00 D-R-C: DRILL RPM: 160 WOB: 10										HOLE CONDITION Hole Drag: Up 2 Down 2 Torque At Bottom: 15000 Fill On Bottom: 0.00										REDUCED PUMP SPEED Pump # Pressure: Strokes/min Depth:										BOILER BoilerNo: HoursRun: pH: StackTemp:										SAFETY Safety Topic: MEHL: MACP:									

TOUR 2										SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 8:00										END TIME: 16:00									
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CUTTING STRUCTURE TO: 1 MD: 1 LDC: 1 BSG: 1										Kelly Down: 1 Total: 1 Weight of DC: 1 Weight of String: 1										Circulation Pump # 1 Type: PARALLEL Liner Size: 152 SPM: 110 Pressure: 8.00 Hrs Run: 8.00 Pump # 2 Type: PARALLEL Liner Size: 152 SPM: 110 Pressure: 8.00 Hrs Run: 8.00										SOLIDS CONTROL Equipment Name: Hours Run: Intake Density: Over Flow Density: Under Flow Density:										MUD MATERIALS ADDED Product: Amount: Type:									
METRES DRILLED From: 6.60 To: 459.00 D-R-C: DRILL RPM: 160 WOB: 10										HOLE CONDITION Hole Drag: Up 2 Down 2 Torque At Bottom: 15000 Fill On Bottom: 0.00										REDUCED PUMP SPEED Pump # Pressure: Strokes/min Depth:										BOILER BoilerNo: HoursRun: pH: StackTemp:										SAFETY Safety Topic: MEHL: MACP:									

TOUR 3										SIGNATURE OF DRILLER: Stefan Polny										START TIME: 16:00										END TIME: 24:00									
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Bit Number: 1A Size: 279 IADC Code: S 2 2 3 Manufacturer: Scitote Type: SS516GB Serial No: 12692 Jars: 14.3 14.3 14.3 Depth Out (m): 459.00 Depth In (m): 6.60 Total Drilled (m): 452.40 Hrs Run Today: 0.00 Cumulative Hrs Run: 2.25 Entry Date: 31-Dec-2016										No: 1 Component: Mud Motor OD: 203 ID: 165 Length: 9.14 Time: 21:00 Density: 1200 Funnel Viscosity: 1200 Fluid Loss: 16 pH: 10 Location Of Sample: Shakers Shakers Depth: 459.00 PVT: 100.45										Mud Type: Water Other: <input type="checkbox"/> Time: 21:00 Density: 1200 Funnel Viscosity: 1200 Fluid Loss: 16 pH: 10 Location Of Sample: Shakers Shakers Depth: 459.00 PVT: 100.45										Time: 16:00 Depth: 16.15 Deviation: 0.25 Direction: 6M 16:15 17:45 1:30 3A Wash to bottom from 200m to 459m MD. Pump Rate- 3.0 m3/min, Rotary- 140 RPM. 17:45 18:15 0:30 5D Circulate and condition well prior to pulling out to run surface casing. 18:15 19:00 0:45 6B Review JSA. Trip out of hole from 459m to 175m MD @ 30m/min. 19:00 19:30 0:30 21D Crew hand-over & safety discussion. Discuss hazard id's and daily events. 19:30 20:00 0:30 6B Review JSA. Continue to trip out of hole from 175m to 34m MD @ 30m/min. 20:00 20:15 0:15 21B Safety meeting & JSA review with Dynamic Directional Drilling prior to handling directional tools. 20:15 20:45 0:30 20D Handle directional tools. Break off 4H90 - 4 1/2 X/H X/O and lay down Drilling Jars. Break apart monels and lay down MWD tool. Break off 279mm Scitote PDC Bit #1A and rack back stand of directional tools in derrick. 20:45 21:15 0:30 7A Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Visual inspection & service of PS-21 slips & inserts. Conducted level 1 visual inspection of mast & all over-head equipment. 21:15 22:00 0:45 12A Review JSA. Rig up to run 219.1mm Surface Casing. Remove BX4-500 hydraulic elevators. Install bail extensions and 219.1mm side door casing elevators Cert # 100995. Pick up and install Copperhead power tongs. 22:00 22:15 0:15 21D Safety meeting & JSA review with Copperhead prior to running 219.1mm Surface Casing. 22:15 24:00 1:45 12B Make up float, shoe and run 8 joints of 219.1mm 41.7kg/m J55 surface casing at																			
CUTTING STRUCTURE TO: 1 MD: 1 LDC: 1 BSG: 1										Kelly Down: 1 Total: 1 Weight of DC: 1 Weight of String: 1										Circulation Pump # 1 Type: COINTEGRATED Liner Size: 152 SPM: 110 Pressure: 8.00 Hrs Run: 8.00 Pump # 2 Type: COINTEGRATED Liner Size: 152 SPM: 110 Pressure: 8.00 Hrs Run: 8.00										SOLIDS CONTROL Equipment Name: Hours Run: Intake Density: Over Flow Density: Under Flow Density:										MUD MATERIALS ADDED Product: Amount: Type:									
METRES DRILLED From: 6.60 To: 459.00 D-R-C: DRILL RPM: 160 WOB: 10										HOLE CONDITION Hole Drag: Up 3 Down 1 Torque At Bottom: 0 Fill On Bottom: 0.00										REDUCED PUMP SPEED Pump # Pressure: Strokes/min Depth:										BOILER BoilerNo: HoursRun: pH: StackTemp:										SAFETY Safety Topic: MEHL: MACP:									

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License No: 32315 Well Name: ARCREZ HZ PARKLAND B12-07-081-16 Tour Sheet Serial Number: BEAV15AC 20161231 2A RMS 2016.6.14.37064 Surface Location: 12-7-81-16 W6 Prov: BC Loc Type: DLS Unique Well ID: 103/13-12-081-17W6/00 Contractor: Beaver Drilling Ltd. Rg No: 15AC Well Type: HORIZ Re Entry: <input type="checkbox"/>										(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines & Slick Diagram Posted (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (once/monthly) (9) CADC Rig Safety Inspection Checklist (weekly/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Block Checked (12) Motor Vibs Checked										CADC NOV																																																																																																																																																																	
Operator's Key: 17DR10009 Signature of Operator's Representative: Dan Meyer Signature of Contractor's Rig Manager: Shaun Low										Spool Date Time: 31-Dec-2016 Rig Release Date Time: 08:00												Kelly Bitting: 6.6 Top Fuel: 7100 FUEL @ 08:00 HRS 19321 7100 Time: 05:00 Temp: -3 OVERCAST Wind Direction: W Wind Strength: UP TO 25 KM/H Road Condition: FAIR																																																																																																																																																															
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TOUR 1										SIGNATURE OF DRILLER: Stefan Polny										START TIME: 0:00					END TIME: 8:00				
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Bit Number: 1A Size: 279 IADC Code: S 2 2 3 Manufacturer: Sicotte Type: SS516GB Serial No: 12692 Jars: 14.3 14.3 14.3 Depth Out (m): 459.00 Depth In (m): 6.60 Total Drilled (m): 452.40 Hrs Run Today: 2.25 Cumulative Hrs Run: 2.25 Entry Date: 31-Dec-2016										No: 1 Component: 279mm PDC Bit OD: 279 ID: 1.027 1 Mud Motor 203 1 9.14 1 X/O 165 71 0.80 1 UBHO Sub 165 63 0.75 2 NM Slick 155 71 17.75 1 Jars 163 60 5.41 1 x/o 4.5XH - 4"H90 165 57 0.46 6 1/2" Drill Collar 167 59 56.54 1 X/O SUB 165 57 0.79 39 4" CDS40 HWDP 101 65 29.22										Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other Time: 13:45 Density: 1100 Funnel Viscosity: 77 Fluid Loss: 10 pH: 10 Location Of Sample: shaker Depth: 404.00 PVT: 111.8 Circulation: Pump # 1 Type PARALLEL Liner Size 152 SPM 15 Pressure 0 Hrs Run 2.00 2 PARALLEL 152 15 0 2.00										Time: 11:45 Depth: 217.16 Deviation: 0.50 Direction: 261.8 Type: DIRECTIONAL 12:00 245.69 0.40 299.2 DIRECTIONAL 12:15 274.24 0.80 268.3 DIRECTIONAL 12:45 302.65 0.60 354.9 DIRECTIONAL 13:00 331.22 0.50 14.7 DIRECTIONAL 13:30 359.71 0.50 352.2 DIRECTIONAL										From: To: Elapsed: Code: Details Of Operations In Sequence & Remarks Remarks: Boiler #2 fuel @ 05:00hrs = 4932 litres. Hazard ID. = Hooking up chains to secure the shale bin. / Asked excavator operator not to disturb the bin until I was clear.									
CUTTING STRUCTURE TO: 1 Gage: 1 MD: 3 COT: WT LOC: CT TD BRG: S 201.07										Kelly Down: Total: 459.00 Weight of DC: 28.00 Weight of String: 45.00										REDUCED PUMP SPEED Pump # 1 Pressure @ Strokes/min @ Depth 2 Pressure @ Strokes/min @ Depth										BOILER BoilerNo: HoursRun: pH: StackTemp:										SAFETY Safety Topic: MEHL: MACP:									
TOUR 2										SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 8:00					END TIME: 16:00																								

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number: 1A Size: 279 IADC Code: S 2 2 3 Manufacturer: Sicotte Type: SS516GB Serial No: 12692 Jars: 14.3 14.3 14.3 Depth Out (m): 459.00 Depth In (m): 6.60 Total Drilled (m): 452.40 Hrs Run Today: 2.25 Cumulative Hrs Run: 2.25 Entry Date: 31-Dec-2016										No: 1 Component: 279mm PDC Bit OD: 279 ID: 1.027 1 Mud Motor 203 1 9.14 1 X/O 165 71 0.80 1 UBHO Sub 165 63 0.75 2 NM Slick 155 71 17.75 1 Jars 163 60 5.41 1 x/o 4.5XH - 4"H90 165 57 0.46 6 1/2" Drill Collar 167 59 56.54 1 X/O SUB 165 57 0.79 39 4" CDS40 HWDP 101 65 29.22										Mud Type: Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other Time: 13:45 Density: 1100 Funnel Viscosity: 77 Fluid Loss: 10 pH: 10 Location Of Sample: shaker Depth: 404.00 PVT: 111.8 Circulation: Pump # 1 Type PARALLEL Liner Size 152 SPM 15 Pressure 0 Hrs Run 2.00 2 PARALLEL 152 15 0 2.00										Time: 11:45 Depth: 217.16 Deviation: 0.50 Direction: 261.8 Type: DIRECTIONAL 12:00 245.69 0.40 299.2 DIRECTIONAL 12:15 274.24 0.80 268.3 DIRECTIONAL 12:45 302.65 0.60 354.9 DIRECTIONAL 13:00 331.22 0.50 14.7 DIRECTIONAL 13:30 359.71 0.50 352.2 DIRECTIONAL										From: To: Elapsed: Code: Details Of Operations In Sequence & Remarks Remarks: Hazard id: During rig service a worker was about to grease the wash pipe while there was pressure on the stand pipe / stopped him immediately and reminded him that he is to wait until the pump is shut down and the pressure bled off.									
CUTTING STRUCTURE TO: 1 Gage: 1 MD: 3 COT: WT LOC: CT TD BRG: S 201.07										Kelly Down: Total: 459.00 Weight of DC: 28.00 Weight of String: 45.00										REDUCED PUMP SPEED Pump # 1 Pressure @ Strokes/min @ Depth 2 Pressure @ Strokes/min @ Depth										BOILER BoilerNo: HoursRun: pH: StackTemp:										SAFETY Safety Topic: MEHL: MACP:									
TOUR 3										SIGNATURE OF DRILLER: Stefan Polny										START TIME: 16:00					END TIME: 24:00																								

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
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CUTTING STRUCTURE TO: 1 Gage: 1 MD: 3 COT: WT LOC: CT TD BRG: S 201.07										Kelly Down: Total: 459.00 Weight of DC: 28.00 Weight of String: 45.00										REDUCED PUMP SPEED Pump # 1 Pressure @ Strokes/min @ Depth 2 Pressure @ Strokes/min @ Depth										BOILER BoilerNo: HoursRun: pH: StackTemp:										SAFETY Safety Topic: MEHL: MACP:									
TOUR 3										SIGNATURE OF DRILLER: Stefan Polny										START TIME: 16:00					END TIME: 24:00																								

[illegible]

32315

ARCRES HZ PARKLAND B12-07-081-16

Operator

ARC Resources Ltd.

Operator's AFE

17DRLO009

Signature Of Operator's Representative

Dan Meyer

Tour Sheet Serial Number

BEAV15AC 20170103 2A

Vendor Software Version

RMS 2016.6.14.37064

Year

2017

Month

01

Day

03

Surface Location

12-7-81-16 W6

Prov

BC

Loc Type

DLS

Unique Well ID

103/13-12-081-17W6/00

Rig No

15AC

Well Type

HORIZ

Re-Entry

☐

Soud Date Time

31-Dec-2016

Rig Release Date Time

08:00

DAILY CHECKS

(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 Drills Performed

(7) Visually Inspected BOPs/Flare Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (one/crow/month)

(2) CAODC Rig Safety Inspection Checklist (one/rig/month)

(3) Mast Inspection before Raising or Lowering

(4) Crown Saver Checked

(5) Motor Kolls Checked

OP

RM

DM

SL

DM

SL

SL

SL

SL

SL

CAODC

NOV

Contractor

Beaver Drilling Ltd.

Contractor's Job No

0X47

Signature Of Contractor's Rig Manager

Shaun Low

Code

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

TOTAL

Rig Up

Drill Actual

Reaming

Coring

Cond Mud & Circ

Trips

Rig Service

Repair Rig

Cut Off Drilling Line

Dev Survey

Wireline Logs

Run Ctg & Cement

Wait On Cement

Nipple BOP

Test BOP

Drillstem Test

Plug Back

Squeeze Cement

Fishing

Dr Work

Safety Meeting

Tear Down

Waiting On

Rig Watch

Other

Tour 1

Tour 2

Tour 3

5.50

1.50

TOTAL

5.50

1.50

8.00

TOUR

1

SIGNATURE OF DRILLER

Shaun Low

START TIME

0:00

END TIME

8:00

BITS

Bit Number

Size

IADC Code

Manufacturer

Type

Serial No

Jets

Depth Out (m)

Depth In (m)

Total Drilled (m)

Hrs Run Today

Cumulative Hrs Run

Entry Date

CUTTING STRUCTURE

Legs

TO

MD

LOC

BRG

Reason Pulled

Total Run (hrs)

METRES DRILLED

From

To

D-R-C

RPM

WOB

DRILLING ASSEMBLY

No

Component

OD

ID

Length

Hole Drag

Up

Down

Torque At Bottom

Fill On Bottom

MUD RECORD

Mud Type

Water

☒

Oil

☐

Other

Time

Density

Funnel Viscosity

Fluid Loss

pH

Location Of Sample

Depth

PVT

Circulation

Pump #

Type

Liner Size

SPM

Pressure

Hrs Run

Remarks

REDUCED PUMP SPEED

Pump #

Pressure

Strokes/min

Depth

☒

@

☒

@

☒

@

☒

@

DEVIATION SURVEYS

Time

Depth

Deviation

Direction

Type

SOLIDS CONTROL

Equipment Name

Hours Run

Intake Density

Over Flow Density

Under Flow Density

MUD MATERIALS ADDED

Product

Amount

Type

BOILER

BoilerNo

HoursRun

pH

StackTemp

SAFETY

Safety Topic

MEHL

MACP

TIME LOG

From

To

Elapsed

Code

Details Of Operations In Sequence & Remarks

TOUR

2

SIGNATURE OF DRILLER

Jordan Cawsey

START TIME

8:00

END TIME

16:00

BITS

Bit Number

Size

IADC Code

Manufacturer

Type

Serial No

Jets

Depth Out (m)

Depth In (m)

Total Drilled (m)

Hrs Run Today

Cumulative Hrs Run

Entry Date

CUTTING STRUCTURE

Legs

TO

MD

LOC

BRG

Reason Pulled

Total Run (hrs)

METRES DRILLED

From

To

D-R-C

RPM

WOB

DRILLING ASSEMBLY

No

Component

OD

ID

Length

Hole Drag

Up

Down

Torque At Bottom

Fill On Bottom

MUD RECORD

Mud Type

Water

☒

Oil

☐

Other

Time

Density

Funnel Viscosity

Fluid Loss

pH

Location Of Sample

Depth

PVT

Circulation

Pump #

Type

Liner Size

SPM

Pressure

Hrs Run

Remarks

REDUCED PUMP SPEED

Pump #

Pressure

Strokes/min

Depth

☒

@

☒

@

☒

@

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@

DEVIATION SURVEYS

Time

Depth

Deviation

Direction

Type

SOLIDS CONTROL

Equipment Name

Hours Run

Intake Density

Over Flow Density

Under Flow Density

MUD MATERIALS ADDED

Product

Amount

Type

BOILER

BoilerNo

HoursRun

pH

StackTemp

SAFETY

Safety Topic

MEHL

MACP

TIME LOG

From

To

Elapsed

Code

Details Of Operations In Sequence & Remarks

TOUR

3

SIGNATURE OF DRILLER

Stefan Polny

START TIME

16:00

END TIME

24:00

BITS

Bit Number

Size

IADC Code

Manufacturer

Type

Serial No

Jets

Depth Out (m)

Depth In (m)

Total Drilled (m)

Hrs Run Today

Cumulative Hrs Run

Entry Date

CUTTING STRUCTURE

Legs

TO

MD

LOC

BRG

Reason Pulled

Total Run (hrs)

METRES DRILLED

From

To

D-R-C

RPM

WOB

DRILLING ASSEMBLY

No

Component

OD

ID

Length

Hole Drag

Up

Down

Torque At Bottom

Fill On Bottom

MUD RECORD

Mud Type

Water

☒

Oil

☐

Other

Time

Density

Funnel Viscosity

Fluid Loss

pH

Location Of Sample

Depth

PVT

Circulation

Pump #

Type

Liner Size

SPM

Pressure

Hrs Run

Remarks

REDUCED PUMP SPEED

Pump #

Pressure

Strokes/min

Depth

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DEVIATION SURVEYS

Time

Depth

Deviation

Direction

Type

FRONT PAGE SUMMARY										DAILY CHECKS										OP RM																																																																																																																																						
License No: 32315 Well Name: ARCSRES HZ PARKLAND B12-07-081-16 Operator: ARC Resources Ltd. 17DR10009 Signature of Operator's Representative:										Tour Sheet Serial Number: BEAV15AC 20170104 1A Surface Location: 12-7-81-16 W6 Prov: BC Loc Type: DLS Unique Well Id: 103/13-12-081-17W6/00 Rg No: 15AC Well Type: HORIZ Spud Date Time: 31-Dec-2016 08:00 Rg Release Date Time:										RMS 2016.6.14.37064 Year: 2017 Month: 01 Day: 04		(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Staked (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (1) Rig Site Health & Safety Meeting (once/crow/month) (2) CADCDC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Vibs Checked		 																																																																																																																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Code</th> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>19</th><th>20</th><th>21</th><th>22</th><th>23</th><th>24</th><th>25</th> </tr> </thead> <tbody> <tr> <td>Tour 1</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.50</td><td></td><td></td><td></td> </tr> <tr> <td>Tour 2</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.00</td><td>5.75</td><td></td><td></td><td></td><td></td><td></td><td>0.25</td><td></td><td></td><td></td> </tr> <tr> <td>Tour 3</td> <td></td><td></td><td></td><td></td><td></td><td>1.00</td><td>0.50</td><td></td><td></td><td>0.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3.50</td><td>1.75</td><td></td><td></td><td>0.75</td> </tr> <tr> <td>TOTAL</td> <td></td><td></td><td></td><td></td><td></td><td>1.00</td><td>0.50</td><td></td><td></td><td>0.50</td><td></td><td></td><td></td><td></td><td>9.50</td><td>5.75</td><td></td><td></td><td></td><td>3.50</td><td>2.50</td><td></td><td></td><td>0.75</td> </tr> </tbody> </table>																									Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Tour 1															7.50							0.50				Tour 2															2.00	5.75						0.25				Tour 3						1.00	0.50			0.50										3.50	1.75			0.75	TOTAL						1.00	0.50			0.50					9.50	5.75				3.50	2.50			0.75	FUEL @ 08:00 HRS 33638 7100 06:00 -7 LIGHT SNOW Wind Direction: SW Wind Strength: UP TO 15 KM/H Road Condition: FAIR	
Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25																																																																																																																																	
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BITS Bit Number: 2 Size: 200 IADC Code: Manufacturer: Baker Hughes Type: T507FX Serial No: 7161192 Jaws: 7.94 7.94 7.1 7.1 7.1 7.1 7.1 7.1 Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date: 04-Jan-2017										DRILLING ASSEMBLY No: Component: OD: ID: Length: 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 1 650 Motor 164 1 8.91 1 NM Slick 155 71 8.90 1 Gap Sub 161 79 1.61 1 NM Slick 155 71 8.83 1 x/o 4.5XH - 4"H90 165 57 0.46 6 1/2" Drill Collar 167 59 36.54 1 X/O SUB 165 57 0.78 2 4" CDS40 HWDP 101 65 18.36 1 DS40 Jars 165 57 5.24 34 4" CDS40 HWDP 101 65 227.47										MUD RECORD 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 1 127 1 0 0.00 2 127 1 0 0.00										DEVIATION SURVEYS Time Depth Deviation Direction Type 16:00 16:30 0.50 7 Rig & Top Drive Service. Function test Rig Smart Crown Saver, MCWS, ZMS, high & low travel stops / limits, ok. Performed visual inspection and service of PS-21 hydraulic slips and inserts, ok. Performed level I visual inspection of mast and all over-head equipment, ok. BOP & valves inspected by Shaun Low and Dan Mayer. 16:30 17:00 0.50 21F Perform Pre-Drill out hazard hunt and Pre-Drill out Rig Inspection, all deficiencies corrected. 17:00 17:30 0.50 21A Pre-Drill out Safety meeting and BOP Drill. Crew members simulated shutting the well in and practiced crew positioning. Well secure in 39 seconds. Functioned Swaco electric choke and lift flare, ok. Review kick warning signs, causes, ERP, Stars #3187, Stick Diagram, and First Aid Transportation Plan. Visual inspection of BOP and all components, ok. 17:30 18:15 0.75 25 Install wear bushing @ 6.4m 18:15 18:30 0.25 21D Safety meeting with Dynamic Directional Drilling. 18:30 18:00 0.50 20D Handle Directional Tools. Pickup mud motor (Preset @ 1.5degrees). 19:00 19:30 0.50 21 Crew hand-over meeting and safety discussion. Discuss hazard id's and daily events. Review JSA with Dynamic. 19:30 22:30 3.00 20D Handle Directional Tools. Makeup monels to motor. Break monels, pickup Gap sub and EM tool, Program Em tool, Makeup Gap sub. Laydown 4" FH DP, remove x/o & install corrosion ring. Scribe motor. Make up PDC bit #1. Run in 6 - 6 1/2" DC's with x/o, 3 - 101.6mm HWDP & Jars. 22:30 23:30 1.00 6A Trip in hole at 40m/min from 110m to 408m MD. Tag cement @ 430m.										TIME LOG From To Elapsed Code 16:00 16:30 0.50 7 16:30 17:00 0.50 21F 17:00 17:30 0.50 21A 17:30 18:15 0.75 25 18:15 18:30 0.25 21D 18:30 18:00 0.50 20D 19:00 19:30 0.50 21 19:30 22:30 3.00 20D 22:30 23:30 1.00 6A					Details of Operations In Sequence & Remarks Rig & Top Drive Service. Function test Rig Smart Crown Saver, MCWS, ZMS, high & low travel stops / limits, ok. Performed visual inspection and service of PS-21 hydraulic slips and inserts, ok. Performed level I visual inspection of mast and all over-head equipment, ok. BOP & valves inspected by Shaun Low and Dan Mayer. Perform Pre-Drill out hazard hunt and Pre-Drill out Rig Inspection, all deficiencies corrected. Pre-Drill out Safety meeting and BOP Drill. Crew members simulated shutting the well in and practiced crew positioning. Well secure in 39 seconds. Functioned Swaco electric choke and lift flare, ok. Review kick warning signs, causes, ERP, Stars #3187, Stick Diagram, and First Aid Transportation Plan. Visual inspection of BOP and all components, ok. Install wear bushing @ 6.4m Safety meeting with Dynamic Directional Drilling. Handle Directional Tools. Pickup mud motor (Preset @ 1.5degrees). Crew hand-over meeting and safety discussion. Discuss hazard id's and daily events. Review JSA with Dynamic. Handle Directional Tools. Makeup monels to motor. Break monels, pickup Gap sub and EM tool, Program Em tool, Makeup Gap sub. Laydown 4" FH DP, remove x/o & install corrosion ring. Scribe motor. Make up PDC bit #1. Run in 6 - 6 1/2" DC's with x/o, 3 - 101.6mm HWDP & Jars. Trip in hole at 40m/min from 110m to 408m MD. Tag cement @ 430m.																																																																																																													
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FRONT PAGE SUMMARY										Tour Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																																																													
License No 32315										Well Name ARCRES HZ PARKLAND B12-07-081-16										Surface Location 12-7-81-16 W6										Prov BC		Lic Type DLS		Unique Well Id 103/13-12-081-17W6/00		<div style="display: flex; justify-content: space-between;"> <div> (1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Scaled (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines </div> <div> (1) Rig Site Health & Safety Meeting (one/crow/month) (2) CADC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Vibs Checked </div> </div>										<div style="display: flex; align-items: center;"> </div>																																																																																																																																													
Contractor ARC Resources Ltd.										Contractor's License No. Beaver Drilling Ltd.										Run Cap & Cement 15AC		Well Type HORIZ		Re Entry <input type="checkbox"/>																																																																																																																																																																			
Operator's # 17DR10009										Signature of Operator's Representative										Contractor's Signature 0X47		Spud Date Time 31-Dec-2016		Rig Release Date Time 08:00																																																																																																																																																																			
<table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>Code</th> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>19</th><th>20</th><th>21</th><th>22</th><th>23</th><th>24</th><th>25</th> </tr> <tr> <th></th> <th>Rig Up</th><th>Drill Actual</th><th>Reaming</th><th>Coring</th><th>Core Mud & Circ</th><th>Trips</th><th>Rig Service</th><th>Repair Rig</th><th>Cut Off Drill Line</th><th>Dev Survey</th><th>Wireline Logs</th><th>Run Cap & Cement</th><th>Wait On Cement</th><th>Wait On Cement</th><th>Nipple BOP</th><th>Test BOP</th><th>Drillstem Test</th><th>Plug Back</th><th>Squeeze Cement</th><th>Fishing</th><th>Dr Work</th><th>Safety Meeting</th><th>Tear Down</th><th>Waiting On</th><th>Rig Watch</th><th>Other</th> </tr> </thead> <tbody> <tr> <td>Tour 1</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.50</td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Tour 2</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.00</td><td>5.75</td><td></td><td></td><td></td><td></td><td></td><td>0.25</td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Tour 3</td> <td></td><td></td><td></td><td></td><td></td><td>1.00</td><td>0.50</td><td></td><td>0.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3.50</td><td>1.75</td><td></td><td></td><td></td><td>0.75</td><td>8.00</td> </tr> <tr> <td>TOTAL</td> <td></td><td></td><td></td><td></td><td></td><td>1.00</td><td>0.50</td><td></td><td>0.50</td><td></td><td></td><td></td><td></td><td></td><td>9.50</td><td>5.75</td><td></td><td></td><td></td><td></td><td>3.50</td><td>2.50</td><td></td><td></td><td></td><td>0.75 24.00</td> </tr> </tbody> </table>																									Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		Rig Up	Drill Actual	Reaming	Coring	Core Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Cap & Cement	Wait On Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dr Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	Tour 1															7.50							0.50					Tour 2															2.00	5.75						0.25					Tour 3						1.00	0.50		0.50											3.50	1.75				0.75	8.00	TOTAL						1.00	0.50		0.50						9.50	5.75					3.50	2.50				0.75 24.00	Kelly Blocking 6.6 Fuel @ 08:00 HRS 33638 FUEL 7100 Time 06:00 Temp -7 WEATHER LIGHT SNOW Wind Direction SW Wind Strength UP TO 19 KM/H Road Condition FAIR	
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License No: 32315 Well Name: ARCRCRES HZ PARKLAND B12-07-081-16 Contractor: Beaver Drilling Ltd. Operator's REP: 17DR10009 Signature of Operator's Representative: Dan Meyer Signature of Contractor's Rig Manager: Shaun Low										BEAV15AC 20170105 1A Surface Location: 12-7-81-16 W6 Prov: BC Loc Type: DLS Unique Well ID: 103/13-12-081-17W6/00 Rig No: 15AC Well Type: HORIZ Spud Date Time: 31-Dec-2016 Rig Release Date Time: 08:00										RMS 2016.6.14.37064 Year: 2017 Month: 01 Day: 05										(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) HOS Signs Posted if Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Sealed (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (1) Rig Site Health & Safety Meeting (once/crowmonth) (2) CADC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Mast Ribs Checked										 																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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TOUR: 1	SIGNATURE OF DRILLER: Stefan Polny	START TIME: 0:00	END TIME: 8:00
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BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: T507FX Type: 7161192 Serial No: 7.94 7.94 7.1 7.1 JMS: 7.94 7.1 7.1 Depth Out (m): 459.00 Depth In (m): 278.00 Total Drilled (m): 2.50 Hrs Run Today: 2.50 Cumulative Hrs Run: 2.50 Entry Date: 04-Jan-2017										No: 1 Component: 200mm PDC Bit OD: 200 ID: 164 Length: 1.891 1 650 Motor 1 NM Slick 1 Gap Sub 1 NM Slick 1 x/o 4.5XH - 4"H90 6 1/2" Drill Collar 1 X/O SUB 2 4" CDS40 HWDP 1 DS40 Jars 46 4" CDS40 HWDP Kelly Casing: -4.19 Total: 737.00 Weight of DC: 28.00 Weight of String: 44.00										Mud Type: Water Time: 03:15 Density: 1210 Funnel Viscosity: 39 Fluid Loss: 10 pH: 10 Location Of Sample: Shakers Depth: 494.00 PVT: 26.87 Circulation: 1 PARALLEL 127 100 23000 7.00 2 PARALLEL 127 100 23000 7.00										Time: 03:45 Depth: 481.85 Deviation: 0.70 Direction: 273.9 Type: DIRECTIONAL 05:00 541.57 0.30 256.7 05:30 570.97 0.60 237.3 06:45 628.78 0.35 179.6 SOLIDS CONTROL Equipment Name: Hours Run: Intake Density: Over Flow Density: Under Flow Density: 5.00 1210 1190 1600 5.00 1210 1195 1580 MUD MATERIALS ADDED Product: Amount: Type: Enter Hib C Corrosion Inhibitor 2 bbls										From: 0:00 To: 0:15 Elapsed: 0:25 Code: 9A Details Of Operations In Sequence & Remarks Continue to slip & cut 13.86m of drilling line @ 8903.6mJ. Deadman anchor bolts retorqued to 360 ftlbs. Performed full block height calibration. Brake capacity test, ok. Greased Crown & Travelling Blocks. 0:15 0:45 0:50 7 Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Serviced hydraulic I-BOP & functioned lower manual I-BOP. Visual inspection & service of PS-21 slips & inserts. Functioned Annular preventer, 16 seconds to close. Conducted level 1 visual inspection of mast & all over-head equipment. Visual inspection of BOP & valves completed by Luke Hardy & Chris Baehli. 0:45 1:00 0:25 21A BOP drill & discussion while drilling. Simulated a hard shut in. Crew assumed CAODC designated positions. Well secured in 90 seconds. Verified BOP & choke manifold valve alignment. Functioned both chokes & flare igniter. 1:00 2:00 1:00 2C Drill out cement, float & shoe. Pump Rate - 1.3 m3/min, WOB - 8 kdaN, Rotary - 20 RPM, Pump Pressure - 9,000 kPa, Torque - 4,000 ftlbs, Diff Pressure - 500 kPa. Float at 446m & shoe at 459m MD. 2:00 4:30 2:50 2 Drill vertical section of 200mm intermediate hole from 459m to 737m MD. Pump Rate - 2.1 m3/min, WOB - 10 kdaN, Rotary - 60 RPM, Pump Pressure - 23,000 kPa, Torque - 5,000 ftlbs, Diff Pressure - 4,000 kPa. 4:30 7:30 3:00 20A Accumulated time on reciprocating drill string, directional surveys & connections. 7:30 8:00 0:50 21 Crew hand-over meeting. Discuss hazard id's & daily events. Remarks Boiler #2 Fuel @ 05:00 Hrs = 6732 litres. Hazard ID: Moving a 4" hose on mud tank was a difficult task for one person. / Sought assistance prior to task.									
METRES DRILLED From: 459.00 To: 737.00 D-R-C: 70 13 RPM: 70 WOB: 13										HOLE CONDITION Hole Drag: Up 1 Down 1 Torque At Bottom: 9300 Fill On Bottom: 0.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 7000 @ 100 @ 515.00 2 7000 @ 100 @ 515.00										SAFETY Safety Topic: MEHL MACP: 60 3040																			
TOUR: 2										SIGNATURE OF DRILLER: Jordan Cawsey										START TIME: 8:00										END TIME: 16:00																			

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: T507FX Type: 7161192 Serial No: 7.94 7.94 7.1 7.1 JMS: 7.94 7.1 7.1 Depth Out (m): 459.00 Depth In (m): 621.00 Total Drilled (m): 3.25 Hrs Run Today: 5.75 Cumulative Hrs Run: 5.75 Entry Date: 04-Jan-2017										No: 1 Component: 200mm PDC Bit OD: 200 ID: 164 Length: 1.891 1 650 Motor 1 NM Slick 1 Gap Sub 1 NM Slick 1 x/o 4.5XH - 4"H90 6 1/2" Drill Collar 1 X/O SUB 2 4" CDS40 HWDP 1 DS40 Jars 46 4" CDS40 HWDP Kelly Casing: -0.88 Total: 1080.00 Weight of DC: 108.00 Weight of String: 53.00										Mud Type: Water Time: 08:00 Density: 1210 Funnel Viscosity: 39 Fluid Loss: 10 pH: 10.5 Location Of Sample: shaker shaker Depth: 683.13 PVT: 42.3 Circulation: 1 COVERED 127 100 26000 8.00 2 COVERED 127 100 26000 8.00										Time: 08:15 Depth: 687.00 Deviation: 0.40 Direction: 93.1 Type: DIRECTIONAL 08:15 687.40 0.40 93.1 08:30 687.40 0.04 93.1 08:45 716.48 0.60 63.5 09:15 745.61 0.00 107.6 09:45 774.74 0.40 80.3 SOLIDS CONTROL Equipment Name: Hours Run: Intake Density: Over Flow Density: Under Flow Density: 8.00 1210 1170 1730 8.00 1210 1170 1730 MUD MATERIALS ADDED Product: Amount: Type: Caustic Soda 1 SX Lime 8 SX Limestone 0 grade 23 SX Limestone 325 8 SX Sawdust 8 SX EnerPac Regular 2 SX EnerCure 1 SX Enerhib C 1 bbl EnerScav C 1 bbl										From: 8:00 To: 9:00 Elapsed: 1:00 Code: 2 Details Of Operations In Sequence & Remarks Drill vertical section of 200mm intermediate hole from 737m to 906m MD. Pump Rate - 2.1 m3/min, WOB - 14 kdaN, Rotary - 70 RPM, Pump Pressure - 25,000 kPa, Torque - 8,000 ftlbs, Diff Pressure - 5,000 kPa. 9:00 12:00 3:00 20A Accumulated MWD survey & connection time. 12:00 12:30 0:50 7 Rig & Top Drive Service. Function test Rig Smart Crown Saver, MCWS, ZMS, high & low travel stops / limits, ok. Performed visual inspection and service of PS-21 hydraulic slips and inserts, ok. Performed level 1 visual inspection of mast and all over-head equipment, ok. Grease I-BOP and function kelly cock, ok. Function test Upper Pipe Rams, 6 seconds to close, ok. BOP & valves inspected by Shaun Low and Dan Meyer. 12:30 14:45 2:25 2 Drill vertical section of 200mm intermediate hole from 906m to 1080m MD. Pump Rate - 2.1 m3/min, WOB - 14 kdaN, Rotary - 70 RPM, Pump Pressure - 26,000 kPa, Torque - 10,000 ftlbs, Diff Pressure - 5,600 kPa. Reduce Pump Rate to 1.8 m3/min and WOB to 10 kdaN for Bluesky formation. 14:45 16:00 1:25 20A Accumulated MWD survey & connection time. Remarks Hazard ID: Worker was climbing the v-door stairs during a connection and the pipe cat operator was trying to bring up a drill pipe / the operator shut off the pipe cat and waited for the other worker to get off the stairs.									
METRES DRILLED From: 737.00 To: 1080.00 D-R-C: 70 13 RPM: 70 WOB: 13										HOLE CONDITION Hole Drag: Up 2 Down 2 Torque At Bottom: 10000 Fill On Bottom: 0.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 2690 @ 60 @ 914.00 2 2690 @ 60 @ 914.00										SAFETY Safety Topic: MEHL MACP: 58 3490																			
TOUR: 3										SIGNATURE OF DRILLER: Stefan Polny										START TIME: 16:00										END TIME: 24:00																			

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number: 2 Size: 200 IADC Code: Baker Hughes Manufacturer: T507FX Type: 7161192 Serial No: 7.94 7.94 7.1 7.1 JMS: 7.94 7.1 7.1 Depth Out (m): 459.00 Depth In (m): 767.00 Total Drilled (m): 2.00 Hrs Run Today: 7.75 Cumulative Hrs Run: 7.75 Entry Date: 04-Jan-2017										No: 1 Component: 200mm PDC Bit OD: 200 ID: 164 Length: 1.891 1 650 Motor 1 NM Slick 1 Gap Sub 1 NM Slick 1 x/o 4.5XH - 4"H90 6 1/2" Drill Collar 1 X/O SUB 2 4" CDS40 HWDP 1 DS40 Jars 46 4" CDS40 HWDP Kelly Casing: -19.90 Total: 1226.00 Weight of DC: 28.00 Weight of String: 61.00										Mud Type: Water Time: 16:45 Density: 1150 Funnel Viscosity: 37 Fluid Loss: 10.5 pH: 10.5 Location Of Sample: trough suction #1 Depth: 1128.00 PVT: 54.33 Circulation: 1 COVERED 127 88 21000 4.00 2 COVERED 127 88 21000 4.00										Time: 16:00 Depth: 1065.88 Deviation: 0.10 Direction: 270.6 Type: DIRECTIONAL 16:45 1094.98 0.70 65.4 17:15 1124.10 0.40 71.3 18:15 1153.23 0.40 11.4 18:30 1182.35 0.50 338.7 SOLIDS CONTROL Equipment Name: Hours Run: Intake Density: Over Flow Density: Under Flow Density: 8.00 1145 1130 1670 8.00 1145 1130 1670 MUD MATERIALS ADDED Product: Amount: Type: Waste management.										From: 16:00 To: 18:00 Elapsed: 2:00 Code: 2 Details Of Operations In Sequence & Remarks Drill vertical section of 200mm intermediate hole from 1080m to 1226m MD. Pump Rate - 1.8 m3/min, WOB - 14 kdaN, Rotary - 70 RPM, Pump Pressure - 21,000 kPa, Torque - 10,000 ftlbs, Diff Pressure - 5,600 kPa. 18:00 19:00 1:00 20A Accumulated MWD survey & connection time. 19:00 19:30 0:50 21 Crew hand-over meeting. Discuss hazard id's & daily events. 19:30 20:45 1:25 20A Troubleshoot MWD EM tool failure. 20:45 21:15 0:50 5 Reciprocate drill string & circulate the hole clean. Reviewed JSA. 21:15 24:00 2:75 6B Trip out of hole at 30m/min from 1226m to 1060m MD, 45m/min from 1060m to 605m MD & 60m/min from 605m to 150m MD. Flow check at 1225m, 1061m & 605m, 150m MD. Remarks Hazard ID : Miscommunication on the radio while switching mud pump valves. / Did not proceed with engaging the pump until the message was clarified.									
METRES DRILLED From: 1080.00 To: 1226.00 D-R-C: 70 14 RPM: 70 WOB: 14										HOLE CONDITION Hole Drag: Up 1 Down 1 Torque At Bottom: 10000 Fill On Bottom: 0.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 1 4000 @ 80 @ 1226.00 2 4000 @ 80 @ 1226.00										SAFETY Safety Topic: MEHL MACP: 69 3490																			

[illegible]

FRONT PAGE SUMMARY										Tour Sheet Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																																																				
32315 ARCRCRES HZ PARKLAND B12-07-081-16										BEAV15AC 20170108 1A		RMS 2016.6.14.37064		2017		01		08		(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) HSE Signs Posted if Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Sealed (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (once/monthly) (9) CADCRC Rig Safety Inspection Checklist (weekly/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Master Valve Checked										 																																																																																																																																																				
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Operator's Name: 17DR10009										Signature of Contractor's Rig Manager: Shaun Low		31-Dec-2016		08:00																																																																																																																																																																				
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Jordan Casway										8:00										16:00																			

TOUR 3										SIGNATURE OF DRILLER										START TIME										END TIME									
Stefan Polny										16:00										24:00																			
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Pump Rate - 1.27 m3/min, WOB - 8 kdaN, Rotary - 65 RPM, Pump Pressure - 36,000 kPa, Torque - 10,000 ft/lbs, Diff Pressure - 5,700 kPa.</td> </tr> <tr> <td>0:45</td> <td>1:00</td> <td>0:25</td> <td>20A</td> <td>Accumulated time on reciprocating drill string, directional surveys & connections.</td> </tr> <tr> <td>1:00</td> <td>1:30</td> <td>0:50</td> <td>7</td> <td>Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Visual inspection & service of PS-21 slips & inserts. Functioned Annular preventer, 16 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. Visual inspection of BOP & valves completed by Shaun Low & Chris Baehl.</td> </tr> <tr> <td>1:30</td> <td>5:00</td> <td>3:50</td> <td>5</td> <td>Reciprocate drill string & circulate the hole clean (3 X bottoms up). Pumped 20m3 lubriglide pill and displaced to lateral section. Flow check at 3365m. 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0:00	0:45	0:45	2	Drill lateral section of 159mm main hole from 3335m to 3391m MD(TD). Pump Rate - 1.27 m3/min, WOB - 8 kdaN, Rotary - 65 RPM, Pump Pressure - 36,000 kPa, Torque - 10,000 ft/lbs, Diff Pressure - 5,700 kPa.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
0:45	1:00	0:25	20A	Accumulated time on reciprocating drill string, directional surveys & connections.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1:00	1:30	0:50	7	Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Visual inspection & service of PS-21 slips & inserts. Functioned Annular preventer, 16 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. Visual inspection of BOP & valves completed by Shaun Low & Chris Baehl.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1:30	5:00	3:50	5	Reciprocate drill string & circulate the hole clean (3 X bottoms up). Pumped 20m3 lubriglide pill and displaced to lateral section. Flow check at 3365m. Pumped a 3.5m3 1410kg/m3 weighted pill with a recovery of 0.7m3.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
5:00	7:30	2:50	6B	Trip out of hole to run production casing at 30m/min from 3391m to 2401m MD. Flow check at 3276m.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
7:30	8:00	0:50	21	Crew hand-over meeting. Discuss hazard id's & daily events.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
CUTTING STRUCTURE TO 1 0 MD WT NO LOC A TD BRG K 81.09										HOLE CONDITION Hole Drag Up 9 Down 16 Torque At Bottom 10000 Fill On Bottom 0.00										REDUCED PUMP SPEED Pump # 2 9000 @ 60 @ 3391.00 Pressure @ @ @ @ Strokes/min @ @ @ @ Depth @ @ @ @										BOILER <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>BoilerNo</th> <th>HoursRun</th> <th>pH</th> <th>StackTemp</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8.00</td> <td>10.5</td> <td>450</td> </tr> <tr> <td>2</td> <td>8.00</td> <td>10.5</td> <td>450</td> </tr> </tbody> </table>										BoilerNo	HoursRun	pH	StackTemp	1	8.00	10.5	450	2	8.00	10.5	450																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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BITS Bit Number 6 Size 159 IADC Code Reed Manufacturer SK413M-A1G-Z Type E232849 Serial No 9.5 9.5 Jaws 9.5 9.5 Depth Out (m) 3391.00 Depth In (m) 2053.00 Total Drilled (m) 1338.00 Hrs Run Today 0.00 Cumulative Hrs Run 16.50 Entry Date 11-Jan-2017										DRILLING ASSEMBLY <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>No</th> <th>Component</th> <th>OD</th> <th>ID</th> <th>Length</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>159mm Reed PDC</td> <td>159</td> <td>1</td> <td>0.22</td> </tr> <tr> <td>1</td> <td>4.75" motor</td> <td>124</td> <td>1</td> <td>9.16</td> </tr> <tr> <td>1</td> <td>4.75" Flex monel</td> <td>121</td> <td>68</td> <td>9.49</td> </tr> <tr> <td>1</td> <td>Gap sub</td> <td>121</td> <td>62</td> <td>1.72</td> </tr> <tr> <td>2</td> <td>4.75" Flex monel</td> <td>121</td> <td>68</td> <td>18.72</td> </tr> <tr> <td>1</td> <td>CD540B-3 SFP x/o</td> <td>128</td> <td>57</td> <td>0.82</td> </tr> <tr> <td>1</td> <td>Slide reamer</td> <td>127</td> <td>58</td> <td>1.36</td> </tr> <tr> <td>5</td> <td>4" CD540 Drill Pipe</td> <td>102</td> <td>64</td> <td>48.52</td> </tr> <tr> <td>1</td> <td>Slim Jars</td> <td>126</td> <td>60</td> <td>6.18</td> </tr> <tr> <td>58</td> <td>4" CD540 Drill Pipe</td> <td>102</td> <td>64</td> <td>58.52</td> </tr> <tr> <td>1</td> <td>Agitator</td> <td>120</td> <td>58</td> <td>7.97</td> </tr> <tr> <td>86</td> <td>4" CD540 Drill Pipe</td> <td>102</td> <td>64</td> <td>58.52</td> </tr> <tr> <td>48</td> <td>4" CD540 HWDP</td> <td>101</td> <td>65</td> <td>48.52</td> </tr> <tr> <td>49</td> <td>Drill Pipe</td> <td>Standards</td> <td>1427</td> <td>20</td> </tr> <tr> <td>1</td> <td>Drill Pipe</td> <td>Singles</td> <td>9.70</td> <td></td> </tr> </tbody> </table>										No	Component	OD	ID	Length	1	159mm Reed PDC	159	1	0.22	1	4.75" motor	124	1	9.16	1	4.75" Flex monel	121	68	9.49	1	Gap sub	121	62	1.72	2	4.75" Flex monel	121	68	18.72	1	CD540B-3 SFP x/o	128	57	0.82	1	Slide reamer	127	58	1.36	5	4" CD540 Drill Pipe	102	64	48.52	1	Slim Jars	126	60	6.18	58	4" CD540 Drill Pipe	102	64	58.52	1	Agitator	120	58	7.97	86	4" CD540 Drill Pipe	102	64	58.52	48	4" CD540 HWDP	101	65	48.52	49	Drill Pipe	Standards	1427	20	1	Drill Pipe	Singles	9.70		MUD RECORD Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Time 09:00 12:30 Density 1160 1160 Funnel Viscosity 70 70 Fluid Loss 0 0 pH Location Of Sample Suction Suction Depth 3391.00 3391.00 PVT 43.16 43.43 Circulation Pump # 1 2 127 1 0 0.00 Type SINGLE SINGLE Liner Size 127 1 0 0.00 Pressure Hrs Run Remarks 										DEVIATION SURVEYS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>Depth</th> <th>Deviation</th> <th>Direction</th> <th>Type</th> </tr> </thead> <tbody> </tbody> </table>										Time	Depth	Deviation	Direction	Type	TIME LOG <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>From</th> <th>To</th> <th>Elapsed</th> <th>Code</th> <th>Details Of Operations In Sequence & Remarks</th> </tr> </thead> <tbody> <tr> <td>8:00</td> <td>11:15</td> <td>3:25</td> <td>6B</td> <td>Trip out of hole to run production casing at 30m/min from 2401m to 426m MD. Flow check at 1708m, 426m MD.</td> </tr> <tr> <td>11:15</td> <td>12:00</td> <td>0:45</td> <td>9A</td> <td>Reviewed JSA. Slip & cut 35.6m of drilling line @ 13.368mJ. Deadman anchor bolts retorqued to 360 ft/lbs. Performed full block height calibration. Brake capacity test, ok. Greased Crown Block & Travelling Block.</td> </tr> <tr> <td>12:00</td> <td>12:30</td> <td>0:50</td> <td>7</td> <td>Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Visual inspection & service of PS-21 slips & inserts. Functioned Upper Pipe Rams, 6 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. 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Remove PS-21 Hydraulic Slips & install Master Bushings to table. Remove BX4-500 hydraulic elevators & rotator.</td> </tr> </tbody> </table>										From	To	Elapsed	Code	Details Of Operations In Sequence & Remarks	8:00	11:15	3:25	6B	Trip out of hole to run production casing at 30m/min from 2401m to 426m MD. Flow check at 1708m, 426m MD.	11:15	12:00	0:45	9A	Reviewed JSA. Slip & cut 35.6m of drilling line @ 13.368mJ. Deadman anchor bolts retorqued to 360 ft/lbs. Performed full block height calibration. Brake capacity test, ok. Greased Crown Block & Travelling Block.	12:00	12:30	0:50	7	Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Visual inspection & service of PS-21 slips & inserts. Functioned Upper Pipe Rams, 6 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. 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1	CD540B-3 SFP x/o	128	57	0.82																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1	Slide reamer	127	58	1.36																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
5	4" CD540 Drill Pipe	102	64	48.52																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1	Slim Jars	126	60	6.18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
58	4" CD540 Drill Pipe	102	64	58.52																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1	Agitator	120	58	7.97																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
86	4" CD540 Drill Pipe	102	64	58.52																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
48	4" CD540 HWDP	101	65	48.52																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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8:00	11:15	3:25	6B	Trip out of hole to run production casing at 30m/min from 2401m to 426m MD. Flow check at 1708m, 426m MD.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
11:15	12:00	0:45	9A	Reviewed JSA. Slip & cut 35.6m of drilling line @ 13.368mJ. Deadman anchor bolts retorqued to 360 ft/lbs. Performed full block height calibration. Brake capacity test, ok. Greased Crown Block & Travelling Block.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
12:00	12:30	0:50	7	Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Visual inspection & service of PS-21 slips & inserts. Functioned Upper Pipe Rams, 6 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. Visual inspection of BOP & valves completed by Shaun Low & Dean Boehnert.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
12:30	13:15	0:45	6B	Trip out of hole to run production casing at 30m/min from 426m to 42m MD.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
13:15	13:30	0:25	21	Safety meeting with Dynamic prior to handling directional tools.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
13:30	14:45	1:25	20D	Handle Dynamic directional tools; Lay down 1- Slide Reamer, 1- x/o sub, 1- Gap sub, EM tool. Rack back 1- stand of Monels. Drain & break PDC Bit #6. Lay down Mud Motor. Function Blind Rams, open to Close 6 seconds. Trip Record: Calculate 12.73m3. Measure 13.83m3. Difference 1.10m3.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
14:45	15:15	0:50	25	Retrieve Wear Bushing @ 6.6m.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
15:15	16:00	0:45	12A	Organize & clean up rig floor, rig up to run tapered production casing string. Remove PS-21 Hydraulic Slips & install Master Bushings to table. Remove BX4-500 hydraulic elevators & rotator.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
CUTTING STRUCTURE TO 1 0 MD WT NO LOC A TD BRG K 81.09										HOLE CONDITION Hole Drag Up 1 Down 0 Torque At Bottom 0 Fill On Bottom 0.00										REDUCED PUMP SPEED Pump # 1 9000 @ 60 @ 3391.00 Pressure @ @ @ @ Strokes/min @ @ @ @ Depth @ @ @ @										BOILER <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>BoilerNo</th> <th>HoursRun</th> <th>pH</th> <th>StackTemp</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8.00</td> <td>10.5</td> <td>450</td> </tr> <tr> <td>2</td> <td>8.00</td> <td>10.5</td> <td>450</td> </tr> </tbody> </table>										BoilerNo	HoursRun	pH	StackTemp	1	8.00	10.5	450	2	8.00	10.5	450																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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FRONT PAGE SUMMARY										Tour Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																			
License No 32315										Well Name ARCRES HZ PARKLAND B12-07-081-16										BEAV15AC 20170113 1B										RMS 2016.6.14.37064										2017		01		13		<div style="display: flex; justify-content: space-between;"> <div> (1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well Licence & Stick Diagram Posted (5) Flare Lines Staked (6) BOP Tests Performed (7) Visually Inspected BOPs Flare Lines & Degasser Lines </div> <div> (1) Rig Site Health & Safety Meeting (once/week/month) (2) CADC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Crown Block Checked (5) Motor Vibs Checked </div> </div>										 									
Contractor ARC Resources Ltd.										Contractor Beaver Drilling Ltd.										Pro BC										Lic Type DLS										Unique Well Id 103/13-12-081-17W6/00										15AC		HORIZ		<input type="checkbox"/>											
Operator's #/E 17DR10009										Contractor's License No 0047										Spud Date Time 31-Dec-2016										Rig Release Date Time 08:00																																			
Signature of Operator's Representative Dean Boehner										Signature of Contractor's Rig Manager Shaun Low																																																							

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	Heavy Lifting	Top Fuel
	Rig Up	Drill Actual	Reaming	Coring	Core Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Cag & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dr Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL	FUEL @ 08:00 HRS
Tour 1		0.75			3.50	2.50	0.50														0.25	0.50				8.00	31414
Tour 2					4.00	0.50		0.75				0.75									1.25	0.25			0.50	8.00	06:00
Tour 3												7.25										0.75				8.00	PARTLY CLOUDY
TOTAL		0.75			3.50	6.50	1.00	0.75				8.00									1.50	1.50			0.50	24.00	WEATHER SW Wind Direction UP TO 35 KM/H Road Condition FAIR

TOUR 1										SIGNATURE OF DRILLER Stefan Polny										START TIME 0:00										END TIME 8:00									
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BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number 6 Size 159 IADC Code Manufacturer Reed Type SK413M-A1G-Z Serial No E232849 Jts 9.5 9.5 Depth Out (m) 2053.00 Depth In (m) 1338.00 Total Drilled (m) 0.75 Hrs Run Today 16.50 Cumulative Hrs Run 11-Jan-2017 Entry Date										No Component OD ID Length 1 159mm Reed PDC 159 1 0.22 1 4.75" motor 124 1 9.16 1 4.75" Flex monel 121 68 9.49 1 Gap sub 121 62 1.72 2 4.75" Flex monel 121 68 18.72 1 CDS408-3-SFP x/o 128 57 0.82 1 Slide reamer 127 58 1.36 5 4" CDS40 Drill Pipe 102 64 48.52 1 Slim Jars 126 60 6.18 58 4" CDS40 Drill Pipe 102 64 55.82 1 Agitator 120 58 7.97 86 4" CDS40 Drill Pipe 102 64 54.30 48 4" CDS40 HWDP 101 65 45.53 49 Drill Pipe Stands 1427.20 1 Drill Pipe Singles 9.70										Mud Type <input type="checkbox"/> Water <input checked="" type="checkbox"/> Oil Time 04:00 05:45 Density 1150 1150 Funnel Viscosity 63 63 Fluid Loss 0 0 pH Location Of Sample Trough Tank 4 Depth 3391.00 3391.00 PVT 56.2 52.45 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 120 36000 5.00 2 SINGLE 127 1 36000 0.00										SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 2.00 1150 1050 2100 2.00 1150 1050 2100 MUD MATERIALS ADDED Product Amount Type										Details Of Operations In Sequence & Remarks Remarks Boiler #2 Fuel @ 05:00hrs : 6804 litres Hazard ID: Excessive chatter over the 2-way radios. / Asked personnel to limit use to critical information.									
CUTTING STRUCTURE TO 0 0 MDC 0 0 LOC 0 0 BSG 81.09										Kelly Casing -3.17 Total 3391.00 Weight of DC 0.00 Weight of String 69.00										HOLE CONDITION Hole Drag Up 9 Down 16 Torque At Bottom 10000 Fill On Bottom 0.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 2 9000 60 @ 3391.00										SAFETY Safety Topic MEHL MACP Waste Management 78 3130									
TOUR 2										SIGNATURE OF DRILLER Luke Hardy										START TIME 8:00										END TIME 16:00																			

BITS										DRILLING ASSEMBLY										MUD RECORD										DEVIATION SURVEYS										TIME LOG									
Bit Number 6 Size 159 IADC Code Manufacturer Reed Type SK413M-A1G-Z Serial No E232849 Jts 9.5 9.5 Depth Out (m) 3391.00 Depth In (m) 2053.00 Total Drilled (m) 1338.00 Hrs Run Today 0.00 Cumulative Hrs Run 16.50 Entry Date 11-Jan-2017										No Component OD ID Length 1 159mm Reed PDC 159 1 0.22 1 4.75" motor 124 1 9.16 1 4.75" Flex monel 121 68 9.49 1 Gap sub 121 62 1.72 2 4.75" Flex monel 121 68 18.72 1 CDS408-3-SFP x/o 128 57 0.82 1 Slide reamer 127 58 1.36 5 4" CDS40 Drill Pipe 102 64 48.52 1 Slim Jars 126 60 6.18 58 4" CDS40 Drill Pipe 102 64 55.82 1 Agitator 120 58 7.97 86 4" CDS40 Drill Pipe 102 64 54.30 48 4" CDS40 HWDP 101 65 45.53 49 Drill Pipe Stands 1427.20 1 Drill Pipe Singles 9.70										Mud Type <input type="checkbox"/> Water <input checked="" type="checkbox"/> Oil Time 15:30 Density 1160 Funnel Viscosity 70 Fluid Loss pH Location Of Sample Suction Depth 3391.00 PVT 43.23 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 1 0 0.00 2 SINGLE 127 1 0 0.00										SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 0.00 0 0 0 0 0.00 0 0 0 0 MUD MATERIALS ADDED Product Amount Type										Details Of Operations In Sequence & Remarks Remarks Hazard ID: Worker was being very aggressive with his tongs & hit the ST-100 controls with them... Told the worker to calm down, there is no reason to throw equipment around. It will only cause damage or injury.									
CUTTING STRUCTURE TO 1 0 MDC 1 NO LOC WT TD BSG A 81.09										Kelly Casing -3.17 Total 3391.00 Weight of DC 0.00 Weight of String 69.00										HOLE CONDITION Hole Drag Up 1 Down 0 Torque At Bottom 0 Fill On Bottom 0.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 0 0 0 0										SAFETY Safety Topic MEHL MACP Invert Exposure Plan 72 3130									
TOUR 3										SIGNATURE OF DRILLER Stefan Polny										START TIME 16:00										END TIME 24:00																			

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 1 159mm Reed PDC 159 1 0.22 1 4.75" motor 124 1 9.16 1 4.75" Flex monel 121 68 9.49 1 Gap sub 121 62 1.72 2 4.75" Flex monel 121 68 18.72 1 CDS408-3-SFP x/o 128 57 0.82 1 Slide reamer 127 58 1.36 5 4" CDS40 Drill Pipe 102 64 48.52 1 Slim Jars 126 60 6.18 58 4" CDS40 Drill Pipe 102 64 55.82 1 Agitator 120 58 7.97 86 4" CDS40 Drill Pipe 102 64 54.30 48 4" CDS40 HWDP 101 65 45.53 49 Drill Pipe Stands 1427.20 1 Drill Pipe Singles 9.70										Mud Type <input type="checkbox"/> Water <input checked="" type="checkbox"/> Oil Time 23:45 Density 1160 Funnel Viscosity 70 Fluid Loss 0 pH Location Of Sample Catch Tank Depth 3391.00 PVT 45.6 Circulation Pump # Type Liner Size SPM Pressure Hrs Run 1 SINGLE 127 1 0 0.00 2 SINGLE 127 1 0 0.00										SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density 0.00 0 0 0 0 0.00 0 0 0 0 MUD MATERIALS ADDED Product Amount Type										Details Of Operations In Sequence & Remarks Remarks Hazard ID : Door stop was out of place on gas trailer / reinstalled, the door was swinging in the wind against gas lines.									
CUTTING STRUCTURE TO 1 0 MDC 1 NO LOC WT TD BSG A 81.09										Kelly Casing -3.17 Total 3391.00 Weight of DC 0.00 Weight of String 69.00										HOLE CONDITION Hole Drag Up 0 Down 0 Torque At Bottom 0 Fill On Bottom 0.00										REDUCED PUMP SPEED Pump # Pressure Strokes/min Depth 0 0 0 0										SAFETY Safety Topic MEHL MACP Running Casing 50 3130									

FRONT PAGE SUMMARY										Tour Sheet Serial Number		Vendor Software Version		Year		Month		Day		DAILY CHECKS										OP RM																																																																																																																																																								
32315 ARCSRES HZ PARKLAND B12-07-081-16										BEAV15AC 20170114 1B		RMS 2016.6.14.37064		2017		01		14		(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) H2S Tests Performed (7) Visually Inspected BOP's Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (once/week/month) (9) CADC Rig Safety Inspection Checklist (weekly/monthly) (10) Mast Inspection before Raising or Lowering (11) Crown Block Checked (12) Motor Vibs Checked										OP RM																																																																																																																																																								
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Dean Boehner										Shaun Low		14-Jan-2017		18:00																																																																																																																																																																								
<table><tr><th>Code</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>19</th><th>20</th><th>21</th><th>22</th><th>23</th><th>24</th><th>25</th></tr><tr><td></td><td>Rig Up</td><td>Drill Actual</td><td>Reaming</td><td>Coring</td><td>Cond Mud & Circ</td><td>Trips</td><td>Rig Service</td><td>Repair Rig</td><td>Cut Off Drill Line</td><td>Dev Survey</td><td>Wireline Logs</td><td>Rig Run & Cement</td><td>Wait On Cement</td><td>Nipple BOP</td><td>Test BOP</td><td>Drillstem Test</td><td>Plug Back</td><td>Squeeze Cement</td><td>Fishing</td><td>Dir Work</td><td>Safety Meeting</td><td>Tear Down</td><td>Waiting On</td><td>Rig Watch</td><td>Other</td></tr><tr><td>Tour 1</td><td></td><td></td><td></td><td></td><td>2.00</td><td></td><td>0.50</td><td></td><td></td><td></td><td></td><td>5.00</td><td></td><td></td><td>4.50</td><td></td><td></td><td></td><td></td><td>0.50</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Tour 2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3.25</td><td></td><td></td><td>1.00</td><td></td><td></td><td></td><td></td><td>0.25</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Tour 3</td><td>4.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.50</td><td>2.50</td><td></td><td></td><td></td><td></td></tr><tr><td>TOTAL</td><td>4.00</td><td></td><td></td><td></td><td>2.00</td><td></td><td>0.50</td><td></td><td></td><td></td><td></td><td>8.25</td><td></td><td></td><td>5.50</td><td></td><td></td><td></td><td></td><td>1.25</td><td>2.50</td><td></td><td></td><td></td><td></td></tr></table>																									Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Rig Run & Cement	Wait On Cement	Nipple BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	Tour 1					2.00		0.50					5.00			4.50					0.50						Tour 2												3.25			1.00					0.25						Tour 3	4.00																			0.50	2.50					TOTAL	4.00				2.00		0.50					8.25			5.50					1.25	2.50					FUEL @ 08:00 HRS	
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TOUR 1		SIGNATURE OF DRILLER		Stefan Polny		START TIME		0:00		END TIME		8:00	
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BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG		Details Of Operations In Sequence & Remarks	
Bit Number		No Component OD ID Length		Mud Type Water Oil		Time Depth Deviation Direction Type		From To Elapsed Code		7	
Size				Other				0:00 0:30 0:50		Rig & Top Drive Service. Functioned Rig Smart crown saver, high & low travel stops / limits, MCWS & ZMS. Visual inspection & service of PS-21 slips & inserts. Functioned Annular preventer, 16 seconds to close. Conducted level 1 visual inspection of Drawworks, PipeCat, Mast & all over-head equipment. Visual inspection of BOP & valves completed by Shaun Low & Chris Baele.	
IADC Code				Time 02:00 04:00				0:30 5:30 5:00		12B	
Manufacturer				Density 1160 1160				5:30 7:30 2:00		5	
Type				Funnel Viscosity 70 71				7:30 8:00 0:50		21	
Serial No				Fluid Loss 0 0							
Jets				pH							
				Location Of Sample Catch Tank Catch Tank							
				Depth 3391.00 3391.00							
				PVT 46.91 47.38							
				Circulation							
				Pump # Type Liner Size SPM Pressure Hrs Run							
				1 SINGLE 127 96 4300 2.00							
				2 SINGLE 127 1 4300 0.00							
				Remarks							
				CUTTING STRUCTURE							
				Kelly Down							
				Total							
				Weight of DC							
				Weight of String							
				REDUCED PUMP SPEED							
				Pump # Pressure Strokes/min Depth							
				1 2000 50 3385.00							
				Torque At Bottom 0							
				Fill On Bottom 0.00							
				HOLE CONDITION							
				Hole Drag Up 4 Down 6							
				Torque At Bottom 0							
				Fill On Bottom 0.00							
				BOILER							
				BoilerNo HoursRun pH StackTemp							
				1 8.00 10.5 450							
				2 8.00 10.5 450							
				MUD MATERIALS ADDED							
				Product Amount Type							
				EnerBar 42 sxs							
				Remarks							
				CUTTING STRUCTURE							
				Kelly Down							
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