





**FRONT PAGE SUMMARY**

License No 31603 Well Name ARCREZ HZ PARKLAND 5-9-81-16  
 Tour Sheet Serial Number 052529\_20160331\_1B Vendor Software Version Pason Year 2016 Month 03 Day 31  
 Surface Location 05-09-081-16W6 Prov BC Loc DLS Unique Well Id 100/14-08-081-16W6/00  
 Operator ARC RESOURCES Contractor PRECISION DRILLING, DIV OF PDCLP Rig No 529 Well Type HORIZ  
 Operator's AFE 16DRLO033 Contractor's Job No 81 Spud Date Time 2016/03/31 12:00  
 Signature of Operator Representative Maddison Mike Signature of Contractor's Rig Manager Sheldon Sievert Rig Release Date Time

**DAILY CHECKS**

1) Daily Walk Around Inspection  
 2) Detailed Inspection - Weekly (Using Check List)  
 3) H2S Signs Posted if Required  
 4) Well License & Stick Diagram Posted  
 5) Flare Lines Staked  
 6) BOP Drills Performed  
 7) Visually Inspected BOPs - Flare Lines & Degasser Lines

1) Rig Site Health & Safety Meeting (one/crew/month)  
 2) CAODC Rig Safety Inspection Checklist (one/rig/month)  
 3) Mast Inspection before Raising or Lowering  
 4) Crown Saver Checked  
 5) Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1	8.00																									8.00
Tour 2	1.00	2.75				2.25	0.25														4.25	0.75				7.75
Tour 3		2.75					0.25														1.00					4.00
Total	9.00	5.50				2.25	0.50														5.25	0.75				24.00

**FUEL @ 08:00 HOURS**

Rig 13000.00 Meter 0.00  
 Fuel 05.00 Temp -2.00  
 Wind Direction SE Wind Strength UP TO 19 KM/H  
 Wind Condition FAIR

**TOUR 1 SIGNATURE OF DRILLER** SYLVAIN ARSENAULT **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG													
Bit Number 1	Size 279	IADC Code	Manufacturer KING DREAM	No. 1	Component	OD 1D	Length	Mud Type	Water	Oil	Time 06:00	Density 1000	Funnel Viscosity 29s/l	Fluid Loss	pH	Location of Sample T4	Depth 0m	PVT 24m3	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks	
Serial No MLO1100	Jets 15.9 15.9 15.9	Depth Out (m) 130	Depth In (m) 0	Total Drilled (m) 130	Hrs Run Today	Cumulative Hrs Run 2.25	Entry Date 2016/03/31	Drill Pipe	Stands	Drill Pipe	Singles	Kelly Down	Total	Weight of DC	Weight of String	Hole Drag	Up	Down	00:00	07:45	7:75	HB	RIG UP TOP DRIVE, PIN TORQUE TUBE, INSTALL ALL POWER CORD KELLY	00:00	07:45	7:75	HB	HOSE HYDRAULIC HOSE BAILS, INSTALL I-BOP, INSTALL NEW SAVER SUB, INSPECT TOP DRIVE WITH TOP DRIVE HAND PRESSURE TEST HYDRAULIC SYSTEM CHANGE OUT A FEW FITTINGS, INSPECT GRABBER BOX	
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>CIRCULATION</b>				<b>SOLIDS CONTROL</b>				<b>MUD MATERIALS ADDED</b>													
TI	TO	MDC	LOC	BRG	Reason Pulled	Total Run (m/hr) 57.78	Drill Pipe	Stands	Drill Pipe	Singles	Kelly Down	Total	Weight of DC	Weight of String	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	Product	Amount	Type
<b>METRES DRILLED</b>				<b>REDUCED PUMP SPEED</b>				<b>BOILER</b>				<b>SAFETY</b>																	
From	To	D-R-C	RPM	WOB	Hole Drag	Up	Down	Torque at Bottom	Fill on Bottom	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	396	0	11	260	Safety Topic	MEHL	MACP	WORK ON CASING	16.00kdaN	0kPa		

**TOUR 2 SIGNATURE OF DRILLER** JOSH GILBERT **START TIME** 08:00 **END TIME** 20:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG													
Bit Number 2	Size 279	IADC Code	Manufacturer SICOTTE	No. 1	Component	OD 1D	Length	Mud Type	Water	Oil	Time 14:00	Density 1040	Funnel Viscosity 31s/l	Fluid Loss	pH	Location of Sample SHAKERS	Depth 73m	PVT 25m3	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks	
Serial No 12806	Jets 14.3 14.3 14.3 14.3	Depth Out (m) 14.3	Depth In (m) 129	Total Drilled (m) 55	Hrs Run Today 0.50	Cumulative Hrs Run 0.50	Entry Date 2016/03/31	Drill Pipe	Stands	Drill Pipe	Singles	Kelly Down	Total	Weight of DC	Weight of String	Hole Drag	Up	Down	08:00	09:00	1:00	1	RIG UP FLOOR/TONGS ELEVATORS/	08:00	09:00	1:00	1	PRESPUD INSPECTION/ CAODC CHECKLIST	
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>CIRCULATION</b>				<b>SOLIDS CONTROL</b>				<b>MUD MATERIALS ADDED</b>													
TI	TO	MDC	LOC	BRG	Reason Pulled	Total Run (m/hr)	Drill Pipe	Stands	Drill Pipe	Singles	Kelly Down	Total	Weight of DC	Weight of String	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	Product	Amount	Type
<b>METRES DRILLED</b>				<b>REDUCED PUMP SPEED</b>				<b>BOILER</b>				<b>SAFETY</b>																	
From	To	D-R-C	RPM	WOB	Hole Drag	Up	Down	Torque at Bottom	Fill on Bottom	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	396	0	11	260	Safety Topic	MEHL	MACP	MAKING UP BHA	50.00kdaN	0kPa		

**TOUR 3 SIGNATURE OF DRILLER** SYLVAIN ARSENAULT **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG													
Bit Number 2	Size 279	IADC Code	Manufacturer SICOTTE	No. 1	Component	OD 1D	Length	Mud Type	Water	Oil	Time 22:00	Density 1000	Funnel Viscosity 34s/l	Fluid Loss	pH	Location of Sample SHAKERS	Depth	PVT	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks	
Serial No 12806	Jets 14.3 14.3 14.3 14.3	Depth Out (m) 14.3	Depth In (m) 129	Total Drilled (m) 281	Hrs Run Today 2.25	Cumulative Hrs Run 2.75	Entry Date 2016/03/31	Drill Pipe	Stands	Drill Pipe	Singles	Kelly Down	Total	Weight of DC	Weight of String	Hole Drag	Up	Down	20:00	22:45	2:75	2	DRILL 279MM HOLE FROM 184M TO 410M	20:00	22:45	2:75	2	DIRECTIONAL SURVEYS, CONNECTION TIME	
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>CIRCULATION</b>				<b>SOLIDS CONTROL</b>				<b>MUD MATERIALS ADDED</b>													
TI	TO	MDC	LOC	BRG	Reason Pulled	Total Run (m/hr)	Drill Pipe	Stands	Drill Pipe	Singles	Kelly Down	Total	Weight of DC	Weight of String	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density	Product	Amount	Type
<b>METRES DRILLED</b>				<b>REDUCED PUMP SPEED</b>				<b>BOILER</b>				<b>SAFETY</b>																	
From	To	D-R-C	RPM	WOB	Hole Drag	Up	Down	Torque at Bottom	Fill on Bottom	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	396	0	11	280	Safety Topic	MEHL	MACP	CONNECTION	32.00kdaN	0kPa		

FRONT PAGE SUMMARY

License No 31603 Well Name ARCRES HZ PARKLAND 5-9-81-16 Surface Location 05-09-081-16W6

Year 2016 Month 04 Day 01 Vendor Software Version Pason Prov BC Loc DLS Unique Well Id 100/14-08-081-16W6/00

DAILY CHECKS

- 1) Daily Walk Around Inspection
2) Detailed Inspection - Weekly (Using Check List)
3) H2S Signs Posted if Required
4) Well License & Stick Diagram Posted
5) Flare Lines Staked
6) BOP Drills Performed
7) Visually Inspected BOPs - Flare Lines & Degasser Lines

OP. RM

Table with columns for MRM, SS, and other status indicators.



Operator ARC RESOURCES
Operator's AFE 16DRLO033
Signature of Operator Representative Maddison Mike

Contractor PRECISION DRILLING, DIV OF PDCLP
Contractor's Job No 81
Signature of Contractor's Rig Manager Sheldon Sievert

Rig No 529
Well Type HORIZ
Spud Date Time 2016/03/31 12:00
Rig Release Date Time

Table with 25 columns (CODE 1-25) and 10 rows (Tour 1-3, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, etc.

TOUR 1 SIGNATURE OF DRILLER SYLVAIN ARSENAULT START TIME 00:00 END TIME 08:00

Table with columns: 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.

Table with columns: No, Component, OD, ID, Length. Lists components like BIT, MOTOR, BIT BELL SUB, etc.

Table with columns: Mud Type, Water, Oil, Time, Density, Funnel Viscosity, Fluid Loss, pH, Location of Sample, Depth, PVT.

Table with columns: Time, Depth, Deviation, Direction, Type. Includes SOLIDS CONTROL section with Equipment Name, Hours Run, Intake Density, etc.

Table with columns: From, To, Elapsed, Code. Details of Operations in Sequence & Remarks.

Table with columns: TI, TO, MDC, LOC, BRG, Gage, ODC, Reason Pulled, Total Run (m/hr).

Table with columns: No, Component, OD, ID, Length. Lists Drill Pipe, Stands, etc.

Table with columns: Pump# Type, Liner Size, SPM, Pressure, Hours Run. Includes CIRCULATION and REDUCED PUMP SPEED sections.

Table with columns: Product, Amount, Type. Includes MUD MATERIALS ADDED and Boiler sections.

Table with columns: From, To, Elapsed, Code. Details of Operations in Sequence & Remarks.

TOUR 2 SIGNATURE OF DRILLER JOSH GILBERT START TIME 08:00 END TIME 20:00

Table with columns: 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.

Table with columns: No, Component, OD, ID, Length. Lists Drill Pipe, Stands, etc.

Table with columns: Mud Type, Water, Oil, Time, Density, Funnel Viscosity, Fluid Loss, pH, Location of Sample, Depth, PVT.

Table with columns: Time, Depth, Deviation, Direction, Type. Includes SOLIDS CONTROL section.

Table with columns: From, To, Elapsed, Code. Details of Operations in Sequence & Remarks.

Table with columns: TI, TO, MDC, LOC, BRG, Gage, ODC, Reason Pulled, Total Run (m/hr).

Table with columns: No, Component, OD, ID, Length. Lists Drill Pipe, Stands, etc.

Table with columns: Pump# Type, Liner Size, SPM, Pressure, Hours Run. Includes CIRCULATION and REDUCED PUMP SPEED sections.

Table with columns: Product, Amount, Type. Includes MUD MATERIALS ADDED and Boiler sections.

Table with columns: From, To, Elapsed, Code. Details of Operations in Sequence & Remarks.

TOUR 3 SIGNATURE OF DRILLER JASON GILES START TIME 20:00 END TIME 24:00

Table with columns: 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.

Table with columns: No, Component, OD, ID, Length. Lists Drill Pipe, Stands, etc.

Table with columns: Mud Type, Water, Oil, Time, Density, Funnel Viscosity, Fluid Loss, pH, Location of Sample, Depth, PVT.

Table with columns: Time, Depth, Deviation, Direction, Type. Includes SOLIDS CONTROL section.

Table with columns: From, To, Elapsed, Code. Details of Operations in Sequence & Remarks.

Table with columns: TI, TO, MDC, LOC, BRG, Gage, ODC, Reason Pulled, Total Run (m/hr).

Table with columns: No, Component, OD, ID, Length. Lists Drill Pipe, Stands, etc.

Table with columns: Pump# Type, Liner Size, SPM, Pressure, Hours Run. Includes CIRCULATION and REDUCED PUMP SPEED sections.

Table with columns: Product, Amount, Type. Includes MUD MATERIALS ADDED and Boiler sections.

Table with columns: From, To, Elapsed, Code. Details of Operations in Sequence & Remarks.



FRONT PAGE SUMMARY

License No 31603 Well Name ARCREES HZ PARKLAND 5-9-81-16
Tour Sheet Serial Number 052529\_20160402\_1A
Pason Vendor Software Version 2016 04 02
Surface Location 05-09-081-16W6
Prov BC Loc Type DLS Unique Well Id 100/14-08-081-16W6/00
Operator ARC RESOURCES
Contractor PRECISION DRILLING, DIV OF PDCLP
Contractor's Job No 81
Signature of Operator Representative Maddison Mike
Signature of Contractor's Rig Manager Sheldon Sievert

DAILY CHECKS

- 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 Drills Performed
7) Visually Inspected BOPs - Flare Lines & Degasser Lines
1) Rig Site Health & Safety Meeting (one/crew/month)
2) CAODC Rig Safety Inspection Checklist (one/rig/month)
3) Mast Inspection before Raising or Lowering
4) Crown Saver Checked
5) Motor Killis Checked



Table with 25 columns (CODE 1-25) and 10 rows (TOUR 1-3, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, Mud, Trips, Rig Service, Repair, Cut Off, Dev Survey, Wireline, Run Csg, Wait On, Nipple Up, Test, Drillstem, Plug Back, Squeeze, Fishing, Dir Work, Safety Meeting, Tear Down, Waiting On, Rig Watch, Other, TOTAL. Includes FUEL @ 08:00 HOURS and WEATHER summary.

TOUR 1 SIGNATURE OF DRILLER JASON GILES START TIME 00:00 END TIME 08:00

TOUR 1 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, Boiler. Includes detailed logs for bit runs, mud properties, survey data, and pump parameters.

TOUR 2 SIGNATURE OF DRILLER SYLVAIN ARSENAULT START TIME 08:00 END TIME 20:00

TOUR 2 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, Boiler. Includes detailed logs for bit runs, mud properties, survey data, and pump parameters.

TOUR 3 SIGNATURE OF DRILLER JASON GILES START TIME 20:00 END TIME 24:00

TOUR 3 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, Boiler. Includes detailed logs for bit runs, mud properties, survey data, and pump parameters.

FRONT PAGE SUMMARY

License No 31603 Well Name ARCREH HZ PARKLAND 5-9-81-16 Surface Location 05-09-081-16W6

Year 2016 Month 04 Day 03 Vendor Software Version Pason Prov BC Loc Type Unique Well Id 100/14-08-081-16W6/00

DAILY CHECKS

- 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 Drills Performed
7) Visually Inspected BOPs - Flare Lines & Degasser Lines



Operator ARC RESOURCES Contractor PRECISION DRILLING, DIV OF PDCLP Rig No 529 Well Type HORIZ
Signature of Operator Representative Maddison Mike Signature of Contractor's Rig Manager Sheldon Sievert

Table with 25 columns (CODE 1-25) and 10 rows (Tour 1-3, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, Concl Mud & Circ, Trips, Rig Service, Repair Rig, Cut Off Drill Log, Dev Survey, Wireline Logs, Run Csg & Cement, Wait On Cement, Nipple Up BOP, Test BOP, Drillstem Test, Plug Back, Squeeze Cement, Fishing, Dir Work, Safety Meeting, Tear Down, Waiting On, Rig Watch, Other, TOTAL.

TOUR 1 SIGNATURE OF DRILLER JASON GILES START TIME 00:00 END TIME 08:00

TOUR 1 data section including BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 2 SIGNATURE OF DRILLER SYLVAIN ARSENAULT START TIME 08:00 END TIME 20:00

TOUR 2 data section including BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 3 SIGNATURE OF DRILLER JASON GILES START TIME 20:00 END TIME 24:00

TOUR 3 data section including BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

FRONT PAGE SUMMARY

License No 31603 Well Name ARCREZ HZ PARKLAND 5-9-81-16 Tour Sheet Serial Number 05-09-081-16W6 Vendor Software Version Pason Year 2016 Month 04 Day 04

DAILY CHECKS

- 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 Drills Performed
7) Visually Inspected BOPs - Flare Lines & Degasser Lines



Operator ARC RESOURCES Contractor PRECISION DRILLING, DIV OF PDCLP
Operator's AFE 16DRLO033 Contractor's Job No 81
Signature of Operator Representative Maddison Mike Signature of Contractor's Rig Manager MARC RAYMOND

OP RM
SDK MR
SDK MR
SDK MR
SDK MR
SDK MR
SDK MR
SDK MR

Table with 25 columns (CODE 1-25) and 10 rows (TOUR 1-3, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, etc. Total hours: 24.00.

TOUR 1 SIGNATURE OF DRILLER JASON GILES START TIME 00:00 END TIME 08:00

TOUR 1 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 2 SIGNATURE OF DRILLER SYLVAIN ARSENAULT START TIME 08:00 END TIME 20:00

TOUR 2 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 3 SIGNATURE OF DRILLER JASON GILES START TIME 20:00 END TIME 24:00

TOUR 3 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.



FRONT PAGE SUMMARY

License No 31603 Well Name ARGRES HZ PARKLAND 5-9-81-16 Tour Sheet Serial Number 052529\_20160405\_1A Vendor Software Version Pason Year 2016 Month 04 Day 05

DAILY CHECKS

- 1) Daily Walk Around Inspection
2) Detailed Inspection - Weekly (Using Check List)
3) H2S Signs Posted if Required
4) Well License & Stick Diagram Posted
5) Flare Lines Staked
6) BOP Drills Performed
7) Visually Inspected BOPs - Flare Lines & Degasser Lines



Operator ARC RESOURCES Contractor PRECISION DRILLING, DIV OF PDCLP
Operator's AFE 16DRLO033 Contractor's Job No 81
Signature of Operator Representative Paul Boutlier Signature of Contractor's Rig Manager MARC RAYMOND

Table with 25 columns for hours (1-25) and rows for Tour 1, 2, 3, and Total. Includes a 'WEATHER' section with conditions like 'PARTLY CLOUDY'.

TOUR 1 SIGNATURE OF DRILLER JASON GILES START TIME 00:00 END TIME 08:00

TOUR 1 data section including: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 2 SIGNATURE OF DRILLER SYLVAIN ARSENAULT START TIME 08:00 END TIME 20:00

TOUR 2 data section including: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 3 SIGNATURE OF DRILLER JASON GILES START TIME 20:00 END TIME 24:00

TOUR 3 data section including: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.



**FRONT PAGE SUMMARY**

License No 31603 Well Name ARCRESS HZ PARKLAND 5-9-81-16  
 Tour Sheet Serial Number 05-09-081-16W6  
 Surface Location 05-09-081-16W6  
 Contractor PRECISION DRILLING, DIV OF PDCLP  
 Contractor's Job No 81  
 Signature of Operator Representative Paul Boutlier  
 Signature of Contractor's Rig Manager MARC RAYMOND

Vendor Software Version Pason  
 Year 2016 Month 04 Day 06  
 Prov BC Loc Type DLS Unique Well Id 100/14-08-081-16W6/00  
 Re-Entry

**OP RM**

1) Daily Walk Around Inspection  
 2) Detailed Inspection - Weekly (Using Check List)  
 3) H2S Signs Posted if Required  
 4) Well License & Stick Diagram Posted  
 5) Flare Lines Staked  
 6) BOP Drills Performed  
 7) Visually Inspected BOPs - Flare Lines & Degasser Lines

1) Rig Site Health & Safety Meeting (one/crew/month)  
 2) CAODC Rig Safety Inspection Checklist (one/rig/month)  
 3) Mast Inspection before Raising or Lowering  
 4) Crown Saver Checked  
 5) Motor Kills Checked

CAODC  
 Pason

CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
Hours		2.25			1.25	3.25	0.25																			8.00
Tour 1		0.25				8.00				0.25																12.00
Tour 2		2.50					0.25																			4.00
Tour 3		5.00			1.25	11.25	0.50																			24.00

Kelly Busting 6.50 On Feet 2731.00  
 Fuel @ 08:00 HOURS  
 12664.00  
 Meter 0.00  
 Meter 2.00  
 Meter 12.00  
 Meter 4.00  
 Meter 24.00

WEATHER  
 Wind Direction SW  
 Wind Strength 15-19 KM/H  
 Cloud Condition GOOD

**TOUR 1 SIGNATURE OF DRILLER** JASON GILES **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG									
Bit Number 4	Size 171	No 1	Component BIT	OD 171	ID 0	Length 0.24m	Mud Type Water	Time 01:00	Depth 123.73m	Deviation 70.3	Direction 298.7	Type	From 00:00	To 02:15	Elapsed 2:15	Code 2.25B	Details of Operations in Sequence & Remarks
IADC Code	Manufacturer SMITH	No 2	Component MOTOR	OD 126	ID 0	Length 8.69m	Other	Time 02:30	Depth 136.88m	Deviation 71.9	Direction 299.2	Type	From 02:15	To 03:00	Elapsed 0:45	Code 0.75DA	ACCUMULATED DIRECTIONAL SURVEYS, WORK PIPE AND CONNECTIONS
Type MDSIR71	Serial No J8293	No 3	Component NON MAG SLICK MONIE	OD 120	ID 69	Length 9.32m	Density						From 03:00	To 04:15	Elapsed 1:15	Code 1.25BB	DISPLACE WELL TO OIL BASE
Jets 7.9	7.9	7.9	7.9	No 4	Component GAP SUB	OD 126	ID 69	Length 1.69m	Funnel Viscosity				From 04:15	To 04:30	Elapsed 0:15	Code 0.25BB	REVIEW COP 2-4 - TRIP OUT OF HOLE FROM 2140m TO 2031m, 10min. FLOW CHECKS @ 2140m, 2031m
Depth Out (m) 2140	Depth In (m) 1709	No 5	Component 1NM FLEX MONEL	OD 120	ID 69	Length 9.27m	Fluid Loss						From 04:30	To 04:45	Elapsed 0:15	Code 0.257A	RIG SERVICE - INSPECT/GREASE TOP DRIVE & DRAW WORKS, FUNCTION ANNULAR-19sec./T/C
Total Drilled (m) 431	Hrs Run Today 2.25	No 6	Component 1NM FLEX MONEL	OD 117	ID 69	Length 9.26m	pH						From 04:45	To 07:45	Elapsed 3:00	Code 3.00BB	TRIP OUT OF HOLE FROM 2031m TO 400m, 10 min. FLOW CHECKS @ 1069m, 690m
Cumulative Hrs Run 38.50	Entry Date 2016/04/03	No 7	Component 1X/O	OD 134	ID 61	Length 0.94m	Location of Sample						From 07:45	To 08:00	Elapsed 0:15	Code 0.2521	CREW CHANGE SAFETY MEETING/PLAN FORWARD
<b>CUTTING STRUCTURE</b>		<b>HOLE CONDITION</b>		<b>CIRCULATION</b>		<b>REDUCED PUMP SPEED</b>		<b>Boiler</b>									
TI 3	TO 4	Gage 0	Reason Pulled BHA	Standards 1725.75m	Pressure 6500.00Nm	Strokes/min 60	Depth 2119	Boiler # 396	Hours Run 8	pH 11	Stack Temp 300						
MDC LT	LOC T	BRG X	Total Run (m/hr) 11.19	Singles 19.50m	Fill on Bottom 0.00m												
Remarks: FUNCTION TRAVEL STOPS/LIMITS & CROWN SAVER		Torque at Bottom 6500.00Nm		Remarks:		Pump No. 2		Safety Topic		MEHL MACP							
INSPECT TOP DRIVE/ELEVATORS/BALES/ALL OVERHEAD EQUIPMENT-INSPECT NOV ST-80 & ALL DRILL FLOOR EQUIPMENT		Fill on Bottom 0.00m		Kelly Down 0.27m		Pressure 2		Connections/Transfer/Displace/Trip		77.00kdaN 2901KPa							
INSPECT CHOKE LINES/HCR SKILL LINES/ CHECK MANIFOLD VALVE ALIGNMENT-FUNCTION FLARE STACK IGNITER		Weight of DC 72kdaN		Total 2140.00m		Strokes/min 2											
INSPECT ESCAPE BUGGY/MONKEYBOARD SRL		Weight of String 72kdaN		Total 2140.00m		Depth 2											

**TOUR 2 SIGNATURE OF DRILLER** MITCH ARSENAULT **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG									
Bit Number 5	Size 159	No 1	Component BIT	OD 159	ID 0	Length 0.22m	Mud Type Water	Time 20:00	Depth 2146.63m	Deviation 73.9	Direction 298.7	Type	From 20:00	To 22:30	Elapsed 2:30	Code 2.502	DRILL 159mm HOLE FROM 2148m TO 2231m
IADC Code	Manufacturer REED	No 2	Component MOTOR	OD 126	ID 0	Length 9.14m	Other	Time 21:00	Depth 2156.38m	Deviation 77.7	Direction 298.2	Type	From 22:30	To 23:45	Elapsed 1:15	Code 1.25DA	ACCUMULATED DIRECTIONAL SURVEYS, WORK PIPE AND CONNECTIONS
Type SK413M-A1G	Serial No 227014	No 3	Component NON MAG SLICK MONIE	OD 120	ID 69	Length 9.32m	Density						From 23:45	To 24:00	Elapsed 0:15	Code 0.257	RIG SERVICE - INSPECT/GREASE TOP DRIVE & DRAW WORKS, FUNCTION LOWER PIPE RAMS-4sec./T/C
Jets 10.3	10.3	10.3	10.3	No 4	Component GAP SUB	OD 126	ID 69	Length 1.70m	Funnel Viscosity								
Depth Out (m) 2140	Depth In (m) 2140	No 5	Component 1NM FLEX MONEL	OD 120	ID 69	Length 9.27m	Fluid Loss						From 24:00	To 24:00	Elapsed 0:00	Code	
Total Drilled (m) 8	Hrs Run Today 0.50	No 6	Component 1NM FLEX MONEL	OD 117	ID 69	Length 9.26m	pH										
Cumulative Hrs Run 0.50	Entry Date 2016/04/06	No 7	Component 1X/O	OD 134	ID 61	Length 0.94m	Location of Sample										
<b>CUTTING STRUCTURE</b>		<b>HOLE CONDITION</b>		<b>CIRCULATION</b>		<b>REDUCED PUMP SPEED</b>		<b>Boiler</b>									
TI	TO	Gage	Reason Pulled	Standards 146.25m	Pressure 6600.00Nm	Strokes/min 70	Depth 2122	Boiler # 396	Hours Run 0	pH 11	Stack Temp 300						
MDC	LOC	BRG	Total Run (m/hr)	Singles 0.00m	Fill on Bottom 0.00m												
Remarks: FUNCTION TRAVEL STOPS/LIMITS & CROWN SAVER		Torque at Bottom 6600.00Nm		Remarks:		Pump No. 1		Safety Topic		MEHL MACP							
INSPECT TOP DRIVE/ELEVATORS/BALES/ALL OVERHEAD EQUIPMENT-INSPECT NOV ST-80 & ALL DRILL FLOOR EQUIPMENT		Fill on Bottom 0.00m		Kelly Down -3.88m		Pressure 2		Tripping / Handling BHA / Slip and Cut		80.00kdaN 2766KPa							
INSPECT CHOKE LINES/HCR SKILL LINES/ CHECK MANIFOLD VALVE ALIGNMENT-FUNCTION FLARE STACK IGNITER		Weight of DC 75kdaN		Total 2148.00m		Strokes/min 2											
INSPECT ESCAPE BUGGY/MONKEYBOARD SRL		Weight of String 75kdaN		Total 2148.00m		Depth 2											

**TOUR 3 SIGNATURE OF DRILLER** JASON GILES **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG									
Bit Number 5	Size 159	No 1	Component BIT	OD 159	ID 0	Length 0.22m	Mud Type Water	Time 20:00	Depth 2146.63m	Deviation 73.9	Direction 298.7	Type	From 20:00	To 22:30	Elapsed 2:30	Code 2.502	DRILL 159mm HOLE FROM 2148m TO 2231m
IADC Code	Manufacturer REED	No 2	Component MOTOR	OD 126	ID 0	Length 9.14m	Other	Time 21:00	Depth 2156.38m	Deviation 77.7	Direction 298.2	Type	From 22:30	To 23:45	Elapsed 1:15	Code 1.25DA	ACCUMULATED DIRECTIONAL SURVEYS, WORK PIPE AND CONNECTIONS
Type SK413M-A1G	Serial No 227014	No 3	Component NON MAG SLICK MONIE	OD 120	ID 69	Length 9.32m	Density						From 23:45	To 24:00	Elapsed 0:15	Code 0.257	RIG SERVICE - INSPECT/GREASE TOP DRIVE & DRAW WORKS, FUNCTION LOWER PIPE RAMS-4sec./T/C
Jets 10.3	10.3	10.3	10.3	No 4	Component GAP SUB	OD 126	ID 69	Length 1.70m	Funnel Viscosity								
Depth Out (m) 2140	Depth In (m) 2140	No 5	Component 1NM FLEX MONEL	OD 120	ID 69	Length 9.27m	Fluid Loss						From 24:00	To 24:00	Elapsed 0:00	Code	
Total Drilled (m) 91	Hrs Run Today 2.50	No 6	Component 1NM FLEX MONEL	OD 117	ID 69	Length 9.26m	pH										
Cumulative Hrs Run 3.00	Entry Date 2016/04/06	No 7	Component 1X/O	OD 134	ID 61	Length 0.94m	Location of Sample										
<b>CUTTING STRUCTURE</b>		<b>HOLE CONDITION</b>		<b>CIRCULATION</b>		<b>REDUCED PUMP SPEED</b>		<b>Boiler</b>									
TI	TO	Gage	Reason Pulled	Standards 204.75m	Pressure 6900.00Nm	Strokes/min 75	Depth 2231	Boiler # 396	Hours Run 4	pH 11	Stack Temp 300						
MDC	LOC	BRG	Total Run (m/hr)	Singles 19.50m	Fill on Bottom 0.00m												
Remarks: FUNCTION TRAVEL STOPS/LIMITS & CROWN SAVER		Torque at Bottom 6900.00Nm		Remarks:		Pump No. 1		Safety Topic		MEHL MACP							
INSPECT TOP DRIVE/ELEVATORS/BALES/ALL OVERHEAD EQUIPMENT-INSPECT NOV ST-80 & ALL DRILL FLOOR EQUIPMENT		Fill on Bottom 0.00m		Kelly Down 1.12m		Pressure 2		Tripping / Connections		78.00kdaN 2856KPa							
INSPECT CHOKE LINES/HCR SKILL LINES/ CHECK MANIFOLD VALVE ALIGNMENT-FUNCTION FLARE STACK IGNITER		Weight of DC 75kdaN		Total 2231.00m		Strokes/min 2											
INSPECT ESCAPE BUGGY/MONKEYBOARD SRL		Weight of String 75kdaN		Total 2231.00m		Depth 2											

FRONT PAGE SUMMARY

License No 31603 Well Name ARCREES HZ PARKLAND 5-9-81-16 Tour Sheet Serial Number 052529\_20160407\_1C Vendor Software Version Pason Year 2016 Month 04 Day 07

Operator ARC RESOURCES Contractor PRECISION DRILLING, DIV OF PDCLP Surface Location 05-09-081-16W6 Prov BC Loc Type DLS Unique Well Id 100/14-08-081-16W6/00

DAILY CHECKS

- 1) Daily Walk Around Inspection
2) Detailed Inspection - Weekly (Using Check List)
3) H2S Spills Posted if Required
4) Well Licence & Stick Diagram Posted
5) Flare Lines Staked
6) BOP Drills Performed
7) Visually Inspected BOPs - Flare Lines & Degasser Lines



Table with 25 columns (CODE 1-25) and 10 rows (TOUR 1-3, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, Concl Mud & Circ, Trips, Rig Service, Repair Rig, Cut Off Drill Log, Dev Survey, Wireline Logs, Run Csg & Cement, Wait On Cement, Nipple Up BOP, Test BOP, Drilstem Test, Plug Back, Squeeze Cement, Fishing, Dir Work, Safety Meeting, Tear Down, Waiting On, Rig Watch, Other, TOTAL.

TOUR 1 SIGNATURE OF DRILLER JASON GILES START TIME 00:00 END TIME 08:00

TOUR 1 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 2 SIGNATURE OF DRILLER MITCH ARSENAULT START TIME 08:00 END TIME 20:00

TOUR 2 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 3 SIGNATURE OF DRILLER JASON GILES START TIME 20:00 END TIME 24:00

TOUR 3 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

FRONT PAGE SUMMARY

License No 31603 Well Name ARGRES HZ PARKLAND 5-9-81-16 Tour Sheet Serial Number 052529\_20160408\_1A Vendor Software Version Pason Year 2016 Month 04 Day 08

DAILY CHECKS

- 1) Daily Walk Around Inspection
2) Detailed Inspection - Weekly (Using Check List)
3) H2S Signs Posted if Required
4) Well License & Stick Diagram Posted
5) Flare Lines Staked
6) BOP Drills Performed
7) Visually Inspected BOPs - Flare Lines & Degasser Lines



Operator ARC RESOURCES Contractor PRECISION DRILLING, DIV OF PDCLP Rig No 529 Well Type HORIZ
Signature of Operator Representative Paul Boutlier Signature of Contractor's Rig Manager MARC RAYMOND

Table with 25 columns (CODE 1-25) and 10 rows (TOUR 1-3, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, Connd Mud & Circ, Trips, Rig Service, Repair Rig, Cut Off Drill Log, Dev Survey, Wireline Logs, Run Csg & Cement, Wait On Cement, Nipple Up BOP, Test BOP, Drilstem Test, Plug Back, Squeeze Cement, Fishing, Dir Work, Safety Meeting, Tear Down, Waiting On, Rig Watch, Other, TOTAL.

TOUR 1 SIGNATURE OF DRILLER JASON GILES START TIME 00:00 END TIME 08:00

TOUR 1 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 2 SIGNATURE OF DRILLER MITCH ARSENAULT START TIME 08:00 END TIME 20:00

TOUR 2 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 3 SIGNATURE OF DRILLER JASON GILES START TIME 20:00 END TIME 24:00

TOUR 3 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

FRONT PAGE SUMMARY

License No 31603 Well Name ARGRES HZ PARKLAND 5-9-81-16
Tour Sheet Serial Number 052529\_20160409\_1A
Surface Location 05-09-081-16W6
Prov BC Loc Type DLS Unique Well Id 100/14-08-081-16W6/00
Operator ARC RESOURCES
Contractor PRECISION DRILLING, DIV OF PDCLP
Rig No 529
Well Type HORIZ
Signature of Operator Representative Paul Boutlier
Signature of Contractor's Rig Manager MARC RAYMOND
Rig Release Date Time

DAILY CHECKS

1) Daily Walk Around Inspection
2) Detailed Inspection - Weekly (Using Check List)
3) H2S Signs Posted if Required
4) Well License & Stick Diagram Posted
5) Flare Lines Staked
6) BOP Drills Performed
7) Visually Inspected BOPs - Flare Lines & Degasser Lines
1) Rig Site Health & Safety Meeting (one/crew/month)
2) CAODC Rig Safety Inspection Checklist (one/rig/month)
3) Mast Inspection before Raising or Lowering
4) Crown Saver Checked
5) Motor Kills Checked



Table with 25 columns (CODE 1-25) and 10 rows (TOUR 1-4, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, Cond Mud & Circ, Trips, Rig Service, Repair Rig, Cut Off Drill Line, Dev Survey, Wireline Logs, Run Csg & Cement, Wait On Cement, Nipple Up BOP, Test BOP, Drillstem Test, Plug Back, Squeeze Cement, Fishing, Dir Work, Safety Meeting, Tear Down, Waiting On, Rig Watch, Other, TOTAL. Includes FUEL @ 08:00 HOURS and WEATHER summary.

TOUR 1 SIGNATURE OF DRILLER JASON GILES START TIME 00:00 END TIME 08:00

TOUR 1 detailed log including BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, Boiler, SAFETY.

TOUR 2 SIGNATURE OF DRILLER MITCH ARSENAULT START TIME 08:00 END TIME 20:00

TOUR 2 detailed log including BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, Boiler, SAFETY.

TOUR 3 SIGNATURE OF DRILLER JASON GILES START TIME 20:00 END TIME 24:00

TOUR 3 detailed log including BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, Boiler, SAFETY.