







FRONT PAGE SUMMARY

License No 31527 Well Name ARGRES HZ SUNRISE L2-25-78-18 Tour Sheet Serial Number 02-25-078-18W6 Vendor Software Version Pason Year 2016 Month 02 Day 09

DAILY CHECKS 1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly (Using Check List) 3) H2S Signs Posted if Required



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 JOSH GILBERT 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, 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, SAFETY

TOUR 3 SIGNATURE OF DRILLER SYLVAIN ARSENAULT 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, SAFETY

FRONT PAGE SUMMARY

License No 31527 Well Name ARCREES HZ SUNRISE L2-25-78-18 Tour Sheet Serial Number 052529\_20160210\_1B Pason Vendor Software Version 2016 02 10

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
Operator's AFE 16DRLO16 Contractor's Job No 77 Spud Date Time 2016/02/07 04:00
Signature of Operator Representative Maddison Mike Signature of Contractor's Rig Manager MARC RAYMOND Rig Release Date Time 2016/02/21 23:59

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, Drillstem Test, Plug Back, Squeeze Cement, Fishing, Dir Work, Safety Meeting, Tear Down, Waiting On, Rig Watch, Other, TOTAL.

TOUR 1 SIGNATURE OF DRILLER JOSH GILBERT 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 JOSH GILBERT 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 31527 Well Name ARCREES HZ SUNRISE L2-25-78-18

Tour Sheet Serial Number 0252529\_20160211\_1B Surface Location 02-25-07B-18W6

Vendor Software Version Pason Year 2016 Month 02 Day 11

- 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 Operator's AFE 16DRLO016 Signature of Operator Representative Maddison Mike

Contractor PRECISION DRILLING, DIV OF PDCLP Contractor's Job No 77 Signature of Contractor's Rig Manager MARC RAYMOND

Rig No 529 Well Type HORIZ Spud Date Time 2016/02/07 04:00 Rig Release Date Time 2016/02/21 23:59

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, 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 JOSH GILBERT 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, and SAFETY.

TOUR 2 SIGNATURE OF DRILLER ROB STAMP 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, and SAFETY.

TOUR 3 SIGNATURE OF DRILLER JOSH GILBERT 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, and SAFETY.

**FRONT PAGE SUMMARY**

License No 31527 Well Name ARCCRES HZ SUNRISE L2-25-78-18  
 Operator ARC RESOURCES  
 Operator's AFE 16DRLO16  
 Signature of Operator Representative Maddison Mike

Tour Sheet Serial Number 02-25-078-1B  
 Surface Location 02-25-078-1B/W6  
 Contractor PRECISION DRILLING, DIV OF PDCLP  
 Contractor's Job No 77  
 Signature of Contractor's Rig Manager MARC RAYMOND

Vendor Software Version Pason  
 Year 2016 Month 02 Day 12  
 Prov BC Loc Type DLS Unique Well Id 103/08-19-078-17/W6/00

**DAILY CHECKS**

- Daily Walk Around Inspection
- Detailed Inspection - Weekly (Using Check List)
- H2S Signs Posted if Required
- Well Licence & Stick Diagram Posted
- Flare Lines Staked
- BOP Drills Performed
- Visually Inspected BOPs - Flare Lines & Degasser Lines
- Rig Site Health & Safety Meeting (one/crew/month)
- CAODC Rig Safety Inspection Checklist (one/rig/month)
- Most Inspection before Raising or Lowering
- Crown Saver Checked
- 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		7.25					0.25														0.25	0.25				8.00
Tour 2		9.25					0.25														2.25	0.25				12.00
Tour 3		3.75					0.25																			4.00
Total		20.25					0.75														2.50	0.50				24.00

**FUEL @ 08:00 HOURS**

Rig	15250.00	Water	0.00
Temp	06.00	Temp	-1.00
Current Conditions	CLEAR	Wind Direction	N
Wind Strength	0	Wind Strength	CALM
Final Condition	FAIR		

**TOUR 1 SIGNATURE OF DRILLER** JOSH GILBERT **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG									
Bit Number	6	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks				
IADC Code		Manufacturer	HALLIBURTON	1	BIT	200	0	0.20m	Other			01:00	2033.57m	1.8	67.8		00:00	07:15	7.25	2	DRILL 159mm HOLE FROM 1994M-2101M				
Type	MM54R	Serial No	12381792	1	MUD MOTOR	119	69	8.66m	Density	1270	1270	03:15	2032.82m	2	69.9		07:15	07:30	0.25	20A	DIRECTIONAL SURVEYS/CONNECTIONS				
Jets	9.5 9.5 9.5	Jets	9.5 9.5 9.5	1	NON MAG FLEX MONEL	119	69	9.35m	Funnel Viscosity	30s/l	30s/l	05:15	2062.07m	0.5	102.9		07:30	07:45	0.25	17	RIG SERVICE/FUNCTION ANNUAL/ 22 SECONDS TO CLOSE				
Depth Out (m)		Depth In (m)	1853	1	GAP SUB	121	68	1.71m	Fluid Loss			07:30	2091.32m	0.8	103.4		07:45	08:00	0.25	21	SAFETY MEETING/PLAN FORWARD MEETING				
Total Drilled (m)	248	Total Drilled (m)	1853	1	UBHO SUB	120	72	0.80m	pH																
Hrs Run Today	7.25	Hrs Run Today	248	3	NON MAG FLEX MONEL	118	69	27.92m	Location of Sample	SHAKERS	SHAKERS														
Cumulative Hrs Run	15.75	Cumulative Hrs Run	248	1	NON MAG FLEX MONEL	120	72	9.32m	Depth	2010m	2057m														
Entry Date	2016/02/11	Entry Date	2016/02/11	1	X/O	134	61	0.94m	PVT	53m3	53m3														
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>REDUCED PUMP SPEED</b>				<b>Boiler</b>													
TI		Gage		Hole Drag	Up	Down		Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic									
TO		ODC		Torque at Bottom		6500.00Nm		2	4000	@ 50	@ 2045	396	8	10.5	310	MEHL MACP									
MDC		Reason Pulled		Fill on Bottom		0.00m		@	@	@	@					90.00kdaN 2910kPa									
LOC		Total Run (m/hr)						@	@	@	@														
BRG								@	@	@	@														

**TOUR 2 SIGNATURE OF DRILLER** ROB STAMP **START TIME** 08:00 **END TIME** 20:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG									
Bit Number	6	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks				
IADC Code		Manufacturer	HALLIBURTON	1	BIT	200	0	0.20m	Other			09:45	2120.57m	0.8	97.5		08:00	17:15	9.25	2	DRILL 159 MMHOLE FROM 2101M-2225m				
Type	MM54R	Serial No	12381792	1	MUD MOTOR	119	69	8.66m	Density	1270	1280	11:30	2149.82m	1	94.7		17:15	19:30	2.25	20A	DIRECTIONAL SURVEYS/CONNECTIONS				
Jets	9.5 9.5 9.5	Jets	9.5 9.5 9.5	1	NON MAG FLEX MONEL	119	69	9.35m	Funnel Viscosity	31s/l	31s/l	12:45	2169.32m	0.6	82.8		19:30	19:45	0.25	17	RIG SERVICE/FUNCTION UPPER PIPE RAMS 4 SECONDS TO CLOSE				
Depth Out (m)		Depth In (m)	1853	1	GAP SUB	121	68	1.71m	Fluid Loss			13:15	2179.07m	1	83.3		19:45	20:00	0.25	21	SAFETY MEETING/PLAN FORWARD MEETING				
Total Drilled (m)	372	Total Drilled (m)	1853	1	UBHO SUB	120	72	0.80m	pH			15:30	2193.8m	4.1	72.4										
Hrs Run Today	9.25	Hrs Run Today	372	3	NON MAG FLEX MONEL	118	69	27.92m	Location of Sample	SHAKERS	SHAKERS	17:45	2208.32m	6.9	74										
Cumulative Hrs Run	25.00	Cumulative Hrs Run	372	1	NON MAG FLEX MONEL	120	72	9.32m	Depth	2224m	2242m	19:45	2223m	9.5	80.9										
Entry Date	2016/02/11	Entry Date	2016/02/11	1	X/O	134	61	0.94m	PVT																
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>REDUCED PUMP SPEED</b>				<b>Boiler</b>													
TI		Gage		Hole Drag	Up	Down		Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic									
TO		ODC		Torque at Bottom		5200.00Nm		2	2950	@ 50	@ 2222	396	12	10.5	310	MEHL MACP									
MDC		Reason Pulled		Fill on Bottom		0.00m		@	@	@	@					91.00kdaN 2910kPa									
LOC		Total Run (m/hr)						@	@	@	@														
BRG								@	@	@	@														

**TOUR 3 SIGNATURE OF DRILLER** JOSH GILBERT **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG									
Bit Number	6	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks				
IADC Code		Manufacturer	HALLIBURTON	1	BIT	200	0	0.20m	Other			22:00	2237.57m	11.4	83		20:00	23:45	3.75	2	DRILL 159MM HOLE FROM 2225M-2246M				
Type	MM54R	Serial No	12381792	1	MUD MOTOR	119	69	8.66m	Density	1300	1300						23:45	24:00	0.25	17	RIG SERVICE/FUNCTION LOWER PIPE RAMS/ 4 SECONDS TO CLOSE				
Jets	9.5 9.5 9.5	Jets	9.5 9.5 9.5	1	NON MAG FLEX MONEL	119	69	9.35m	Funnel Viscosity	30s/l	30s/l														
Depth Out (m)		Depth In (m)	1853	1	GAP SUB	121	68	1.71m	Fluid Loss																
Total Drilled (m)	393	Total Drilled (m)	1853	1	UBHO SUB	120	72	0.80m	pH																
Hrs Run Today	3.75	Hrs Run Today	393	3	NON MAG FLEX MONEL	118	69	27.92m	Location of Sample	SHAKERS	SHAKERS														
Cumulative Hrs Run	28.75	Cumulative Hrs Run	393	1	NON MAG FLEX MONEL	120	72	9.32m	Depth	2224m	2242m														
Entry Date	2016/02/11	Entry Date	2016/02/11	1	X/O	134	61	0.94m	PVT	58m3	57m3														
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>REDUCED PUMP SPEED</b>				<b>Boiler</b>													
TI		Gage		Hole Drag	Up	Down		Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic									
TO		ODC		Torque at Bottom		6500.00Nm		2	3000	@ 50	@ 2241	396	4	10.5	310	MEHL MACP									
MDC		Reason Pulled		Fill on Bottom		0.00m		@	@	@	@					derrick connections 95.00kdaN 3009kPa									
LOC		Total Run (m/hr)						@	@	@	@														
BRG								@	@	@	@														

FRONT PAGE SUMMARY

License No, Well Name, Tour Sheet Serial Number, Surface Location, Vendor Software Version, Year, Month, Day, Operator, Contractor, Rig No, Well Type, Signature of Operator Representative, Signature of Contractor's Rig Manager

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 1-3, 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, 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.

TOUR 1 SIGNATURE OF DRILLER JOSH GILBERT 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 ROB STAMP 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 JOSH GILBERT 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 31527 Well Name ARCREHS HZ SUNRISE L2-25-78-18  
 Operator ARC RESOURCES  
 Operator's AFE 16DRLO016  
 Signature of Operator Representative Maddison Mike

Tour Sheet Serial Number 052529\_20160214\_1B  
 Surface Location 02-25-07B-18W6  
 Vendor Software Version Pason  
 Year 2016 Month 02 Day 14

- DAILY CHECKS**
- Daily Walk Around Inspection
  - Detailed Inspection - Weekly (Using Check List)
  - H2S Signs Posted if Required
  - Well Licence & Stick Diagram Posted
  - Flare Lines Staked
  - BOP Drills Performed
  - Visually Inspected BOPs - Flare Lines & Degasser Lines
  - Rig Site Health & Safety Meeting (one/crew/month)
  - CAODC Rig Safety Inspection Checklist (one/rig/month)
  - Most Inspection before Raising or Lowering
  - Down Saver Checked
  - 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		6.75					0.25														0.75	0.25				8.00
Tour 1		9.75					0.25														0.75	0.25				12.00
Tour 2		3.50			1.00																0.25					4.00
Tour 3																					1.75	0.50				24.00
Total		20.00			1.00		0.75																			

**FUEL @ 08:00 HOURS**

Rig	28500.00	Water	0.00
Current Conditions	Clear	Wind Direction	N
Wind Speed	0.00	Wind Strength	CALM
Barometric Pressure	95.00kdaN	Relative Humidity	FAIR

**TOUR 1 SIGNATURE OF DRILLER** JOSH GILBERT **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG									
Bit Number	7	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks				
IADC Code		Manufacturer	SMITH	1	MUD MOTOR	119	69	8.68m	Time	02:00	05:00	00:00	2296.44m	24.7	85.3		00:00	06:45	6:75	2	DRILL 159mm BULD SECTION FROM 2297M-2336M				
Type	R613	Serial No	JK7544	1	NEAR BIT SUB	119	69	1.36m	Density	1300	1300	03:15	2311m	27.4	88.4		06:45	07:30	0:75	20A	DIRECTIONAL SURVEYS/CONNECTIONS				
Jets	7.9	7.9	7.9	1	NON MAG FLEX MONEL	119	69	9.35m	Funnel Viscosity	30s/l	30s/l	05:45	2325.69m	30.5	88.3		07:30	07:45	0:25	7	RIG SERVICE/FUNCTION ANNUAL/ 22 SECONDS TO CLOSE				
Depth Out (m)		Depth In (m)	2250	1	GAP SUB	121	68	1.69m	Fluid Loss								07:45	08:00	0:25	21	SAFETY MEETING/CREW CHANGE MEETING				
Total Drilled (m)	86	Hrs Run Today	6.75	1	UBHO SUB	120	72	0.80m	pH																
Cumulative Hrs Run	15.00	Entry Date	2016/02/13	3	NON MAG FLEX MONEL	118	69	27.92m	Location of Sample	SHAKERS	SHAKERS														
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>REDUCED PUMP SPEED</b>				<b>SAFETY</b>													
TI		Gage		63	Drill Pipe	Stands	1842.75m	Hole Drag	Up	8	Down	10	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic				
TO		ODC		0	Drill Pipe	Singles	0.00m	Torque at Bottom				6500.00Nm	1	3000	@ 50	@ 2309	396	8	10.5	310	DERRICK CONNECTIONS				
MDC		Reason Pulled			Kelly Down		-4.69m	Fill on Bottom				0.00m		@	@	@					MEHL MACP				
LOC		Total Run (m/hr)			Total		2336.00m							@	@	@					95.00kdaN 2711kPa				
BRG		Weight of DC			Weight of DC		0kdaN																		
		Weight of String			Weight of String		82kdaN																		

**TOUR 2 SIGNATURE OF DRILLER** ROB STAMP **START TIME** 08:00 **END TIME** 20:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG									
Bit Number	7	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks				
IADC Code		Manufacturer	SMITH	1	MUD MOTOR	119	69	8.68m	Time	10:00	15:00	09:30	2340m	34	86.9		08:00	09:00	1:00	5	CONDITION MUD & CIRCULATE/ DISPLACE WELLBORE TO 1220 KG INVERT				
Type	R613	Serial No	JK7544	1	NEAR BIT SUB	119	69	1.36m	Density	1300	1290	12:45	2354.94m	37.2	86.4		09:00	18:45	9:75	2	DRILL 159 MM BULD SECTION FROM 2336M TO 2393M.				
Jets	7.9	7.9	7.9	1	NON MAG FLEX MONEL	119	69	9.35m	Funnel Viscosity	68s/l	68s/l	15:45	2370m	41.6	87.8		18:45	19:00	0:25	7	RIG SERVICE/FUNCTION UPPER PIPE RAMS 4 SECONDS TO CLOSE				
Depth Out (m)		Depth In (m)	2250	1	GAP SUB	121	68	1.69m	Fluid Loss			18:15	2384.19m	45.6	86.6		19:00	19:45	0:75	20A	DIRECTIONAL SURVEYS/CONNECTIONS				
Total Drilled (m)	143	Hrs Run Today	9.75	1	UBHO SUB	120	72	0.80m	pH								19:45	20:00	0:25	21	SAFETY MEETING/CREW CHANGE HAND OVER				
Cumulative Hrs Run	24.75	Entry Date	2016/02/13	3	NON MAG FLEX MONEL	118	69	27.92m	Location of Sample	SHAKERS	SHAKERS														
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>REDUCED PUMP SPEED</b>				<b>SAFETY</b>													
TI		Gage		63	Drill Pipe	Stands	1901.25m	Hole Drag	Up	5	Down	4	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic				
TO		ODC		0	Drill Pipe	Singles	0.00m	Torque at Bottom				6500.00Nm	1	5400	@ 50	@ 2368	396	12	5	310	DISPLACING HOLE WITH INVERT				
MDC		Reason Pulled			Kelly Down		-6.19m	Fill on Bottom				0.00m		@	@	@					MEHL MACP				
LOC		Total Run (m/hr)			Total		2393.00m							@	@	@					92.00kdaN 2860kPa				
BRG		Weight of DC			Weight of DC		0kdaN																		
		Weight of String			Weight of String		79kdaN																		

**TOUR 3 SIGNATURE OF DRILLER** JOSH GILBERT **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG									
Bit Number	7	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks				
IADC Code		Manufacturer	SMITH	1	MUD MOTOR	119	69	8.68m	Time	20:00	23:00	21:15	2399m	48.3	86.5		20:00	23:30	3:50	2	DRILL 159mm HOLE FROM 2393M-2416M.				
Type	R613	Serial No	JK7544	1	NEAR BIT SUB	119	69	1.36m	Density	1270	1275	23:30	2345	0.25	7		23:30	23:45	0:25	7	RIG SERVICE/FUNCTION LOWER PIPE RAMS/ 4 SECONDS TO CLOSE				
Jets	7.9	7.9	7.9	1	NON MAG FLEX MONEL	119	69	9.35m	Funnel Viscosity	65s/l	63s/l						23:45	24:00	0:25	20A	DIRECTIONAL SURVEYS/CONNECTIONS				
Depth Out (m)		Depth In (m)	2250	1	GAP SUB	121	68	1.69m	Fluid Loss																
Total Drilled (m)	166	Hrs Run Today	3.50	1	UBHO SUB	120	72	0.80m	pH																
Cumulative Hrs Run	28.25	Entry Date	2016/02/13	3	NON MAG FLEX MONEL	118	69	27.92m	Location of Sample	SHAKERS	SHAKERS														
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>REDUCED PUMP SPEED</b>				<b>SAFETY</b>													
TI		Gage		63	Drill Pipe	Stands	1930.50m	Hole Drag	Up	8	Down	12	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic				
TO		ODC		0	Drill Pipe	Singles	0.00m	Torque at Bottom				6500.00Nm	1	5400	@ 50	@ 2379	396	4	10.5	310	DERRICK CONNECTIONS				
MDC		Reason Pulled			Kelly Down		-12.44m	Fill on Bottom				0.00m		@	@	@					MEHL MACP				
LOC		Total Run (m/hr)			Total		2416.00m							@	@	@					95.00kdaN 3109kPa				
BRG		Weight of DC			Weight of DC		0kdaN																		
		Weight of String			Weight of String		79kdaN																		

FRONT PAGE SUMMARY

License No 31527 Well Name ARCREES HZ SUNRISE L2-25-78-18

Tour Sheet Serial Number 052529\_20160215\_1B Pason Vendor Software Version 2016 Month 02 Day 15

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
Operator's AFE 16DRLO016
Signature of Operator Representative Maddison Mike

Contractor PRECISION DRILLING, DIV OF PDCLP
Contractor's Job No 77
Signature of Contractor's Rig Manager MARC RAYMOND

Rig No 529 Well Type HORIZ
Spud Date Time 2016/02/07 04:00
Rig Release Date Time 2016/02/21 23:59

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.

FUEL @ 08:00 HOURS: 25250.00, 0.00
WEATHER: Clear, Wind Direction N, Wind Strength CALM, Cloud Condition FAIR

TOUR 1 SIGNATURE OF DRILLER JOSH GILBERT START TIME 00:00 END TIME 08:00

TOUR 1 BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, SOLIDS CONTROL, MUD MATERIALS ADDED, HOLE CONDITION, REDUCED PUMP SPEED, SAFETY. Includes detailed logs for drilling parameters, mud properties, and safety checks.

TOUR 2 SIGNATURE OF DRILLER ROB STAMP START TIME 08:00 END TIME 20:00

TOUR 2 BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, SOLIDS CONTROL, MUD MATERIALS ADDED, HOLE CONDITION, REDUCED PUMP SPEED, SAFETY. Includes detailed logs for drilling parameters, mud properties, and safety checks.

TOUR 3 SIGNATURE OF DRILLER JOSH GILBERT START TIME 20:00 END TIME 24:00

TOUR 3 BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, SOLIDS CONTROL, MUD MATERIALS ADDED, HOLE CONDITION, REDUCED PUMP SPEED, SAFETY. Includes detailed logs for drilling parameters, mud properties, and safety checks.

**FRONT PAGE SUMMARY**

License No 31527 Well Name ARCCRES HZ SUNRISE L2-25-78-18  
 Tour Sheet Serial Number 052529\_20160216\_1B Vendor Software Version Pason  
 Surface Location 02-25-078-18W6 Prov BC Loc Type DLS Unique Well Id 103/08-19-078-17W/00  
 Operator ARC RESOURCES Contractor PRECISION DRILLING, DIV OF PDCLP Rig No 529 Well Type HORIZ  
 Operator's AFE 16DRLO016 Contractor's Job No 77 Spud Date Time 2016/02/07 04:00  
 Signature of Operator Representative Dean Boehnert Signature of Contractor's Rig Manager MARC RAYMOND Rig Release Date Time 2016/02/21 23:59

**DAILY CHECKS**

- Daily Walk Around Inspection
- Detailed Inspection - Weekly (Using Check List)
- H2S Signs Posted if Required
- Well License & Stick Diagram Posted
- Flare Lines Staked
- BOP Drills Performed
- Visually Inspected BOPs - Flare Lines & Degasser Lines
- Rig Site Health & Safety Meeting (one/crew/month)
- CAODC Rig Safety Inspection Checklist (one/rig/month)
- Most Inspection before Raising or Lowering
- Crown Saver Checked
- 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						5.00															1.25	0.50			0.50	8.00
Tour 2		6.75			1.00		0.25														3.75	0.25				12.00
Tour 3		2.50					0.25														1.25					4.00
Total		9.25			1.00	5.00	0.50														6.25	0.75			0.50	24.00

**FUEL @ 08:00 HOURS**

Rig 22250.00 Fuel 0.00  
 Meter 06:00 Temp -1.00  
 Weather Wind Direction CLEAR Wind Strength CALM  
 Road Condition FAIR

**TOUR 1 SIGNATURE OF DRILLER** JOSH GILBERT **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG									
Bit Number	8	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks				
IADC Code		Manufacturer	REED	1	MUD MOTOR	128	0	9.18m	Funnel Viscosity	62s/l		01:00	10:15	254.61m	80.1	92	00:00	01:15	1:25:20	1:25:20A	DIRECTIONAL WORK/CONTINUE MAKING UP TOOLS/REAMER/MAKE UP BIT/SCRIBE MOTOR				
Type	SK413M-B1G PDC	Serial No	A210816	2	NON MAG FLEX MONEL	119	69	9.35m	Fluid Loss			12:00	11:15	257.00m	85.5	95.3	01:15	02:30	1:25:5A	1:25:5A	TRIP IN HOLE/REVIEW COP 2-5, 0M-596M . FILL PIPE AND FLOWCHECK / 10 MIN/ 596M.				
Jets	8.7 8.7 8.7 8.7	Depth Out (m)	11.1 11.1	3	GAP SUB	121	68	1.71m	Location of Sample	TANKS		12:00	11:30	252.69m	88.6	96	02:30	02:45	0:25:21	0:25:21A	SAFETY MEETING PRIOR TO SLIP CUT/ COP 6-4A				
Depth In (m)	2531	Total Drilled (m)		4	NON MAG FLEX MONEL	118	69	18.57m	Depth	2531m		12:00	12:15	259.77m	90	96.2	02:45	03:30	0:45:25	0:45:25A	SLIP CUTR LINE/ FULL BLOCK CALIBRATION BRAKE CAPACITY TEST. FUNCTION CROWN SAVER/JG				
Hrs Run Today	6.75	Cumulative Hrs Run	0.00	5	HWDP(4.0 IN)	114	72	9.36m	PVT	44m3		12:00	12:45	261.94m	90.7	98.4	03:30	03:45	0:25:25	0:25:25A	RIG SERVICE/FUNCTION ANNUAL 23 SEC TO CLOSE				
Entry Date	2016/02/15	CUTTING STRUCTURE		6	HYD/MECH JARS	136	62	5.20m	CIRCULATION			12:00	13:15	262.77m	90.7	101.1	03:45	04:00	0:25:25	0:25:25A	SAFETY MEETING/ PRIOR TO CHANGE SAVER SUB/				
TI		Gage		7	DRILL PIPE	204.75m	HOLE CONDITION		Pump#	Type	Liner Size	SPM	Pressure	Hours Run	MUD MATERIALS ADDED		04:00	07:45	3:75:5A	3:75:5A	REVIEW COP 2-5 AND TRIP IN HOLE. FILL PIPE FLOWCHECK FOR 10 MIN @ 1241M. FILL PIPE @ 1769M				
TO		ODC		8	DRILL PIPE	0.00m	Hole Drag	Up	Down	1	COMBINED	114	0	0	Product	Amount	Type	07:45	08:00	0:25:21	0:25:21A	SAFETY MEETING/PLAN FORWARD MEETING			
MDC		Reason Pulled		9	DRILL PIPE	0.00m	Torque at Bottom		Fill on Bottom	2	COMBINED	114	0	0	BARITE	504	EACH	REMARKS: INSPECT FLOOR EQUIPMENT.TONG BACK UP SLINGS.DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK							
LOC		Total Run (m/hr)		10	DRILL PIPE	0.00m	Fill on Bottom			2	COMBINED	114	0	0	LIME	10	EACH	INSPECT CATWALK,PIPE RACKS,PIPE RACK PINS/CHAINS,FLARE AND DEGASSER LINES,LOAD LINE.							
BRG				11	DRILL PIPE	0.00m				2	COMBINED	114	0	0	GRAPHITE	5	EACH	FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E- STOPS,CROWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE							
METRES DRILLED				12	DRILL PIPE	0.00m				2	COMBINED	114	0	0	OPTI-WET	2	EACH	INSPECT STABBING VALVE/INSIDE BOP							
From	To	D-R-C	RPM	WOB	REDUCED PUMP SPEED				Boiler	SAFETY															
					Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic		MEHL	MACP									
					1	6100	@	72	@	396	8	11	TRIPPING IN HOLE 2-5,SLIP AND CUT 6-4A		90.00kdaN										

**TOUR 2 SIGNATURE OF DRILLER** ROB STAMP **START TIME** 08:00 **END TIME** 20:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG								
Bit Number	8	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
IADC Code		Manufacturer	REED	1	MUD MOTOR	128	0	9.18m	Funnel Viscosity	63s/l		08:30	10:15	254.61m	81.2	95	08:00	09:00	1:00:5	1:00:5	CIRCULATE BOTTOMS UP .GAS PEAKED AT 3834			
Type	SK413M-B1G PDC	Serial No	A210816	2	NON MAG FLEX MONEL	119	69	9.35m	Location of Sample	SHAKERS SHAKERS		11:45	11:15	257.00m	85.5	95.3	09:00	09:15	0:25:7	0:25:7	RIG SERVICE/FUNCTION UPPER PIPE RAMS 4 SECONDS TO CLOSE			
Jets	8.7 8.7 8.7 8.7	Depth Out (m)	11.1 11.1	3	GAP SUB	121	68	1.71m	Depth	SHAKERS SHAKERS		11:45	11:30	252.69m	88.6	96	09:15	16:00	6:45:2	6:45:2	DRILL 159MM BUILD SECTION FROM 2531M - 2582m (HEEL) DRILL LATERAL SECTION FROM 2582M -2801M.			
Depth In (m)	2531	Total Drilled (m)		4	NON MAG FLEX MONEL	118	69	18.57m	PVT			12:00	12:15	259.77m	90	96.2	16:00	19:45	3:75:20A	3:75:20A	DIRECTIONAL SURVEYS/CONNECTIONS			
Hrs Run Today	6.75	Cumulative Hrs Run	6.75	5	HWDP(4.0 IN)	114	72	9.36m	CIRCULATION			12:00	12:45	261.94m	90.7	98.4	19:45	20:00	0:25:21	0:25:21A	SAFETY MEETING/CREW CHANGE HAND OVER/PLAN FORWARD MEETING			
Entry Date	2016/02/15	CUTTING STRUCTURE		6	HYD/MECH JARS	136	62	5.20m	Pump#	Type	Liner Size	SPM	Pressure	Hours Run	MUD MATERIALS ADDED		07:45	08:00	0:25:21	0:25:21A	SAFETY MEETING/PLAN FORWARD MEETING			
TI		Gage		7	DRILL PIPE	204.75m	HOLE CONDITION		1	COMBINED	114	72	16500	12	Product	Amount	Type	REMARKS: INSPECT FLOOR EQUIPMENT.TONG BACK UP SLINGS.DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK						
TO		ODC		8	DRILL PIPE	0.00m	Hole Drag	Up	Down	2	COMBINED	114	72	16500	12	BARITE	504	EACH	INSPECT CATWALK,PIPE RACKS,PIPE RACK PINS/CHAINS,FLARE AND DEGASSER LINES,LOAD LINE.					
MDC		Reason Pulled		9	DRILL PIPE	0.00m	Torque at Bottom		Fill on Bottom	2	COMBINED	114	72	16500	12	LIME	10	EACH	FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E- STOPS,CROWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE					
LOC		Total Run (m/hr)		10	DRILL PIPE	0.00m				2	COMBINED	114	72	16500	12	GRAPHITE	5	EACH	INSPECT STABBING VALVE/INSIDE BOP					
BRG				11	DRILL PIPE	0.00m				2	COMBINED	114	72	16500	12	OPTI-WET	2	EACH	INSPECT STABBING VALVE/INSIDE BOP					
METRES DRILLED				12	DRILL PIPE	0.00m	REDUCED PUMP SPEED		Boiler	SAFETY														
From	To	D-R-C	RPM	WOB	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic		MEHL	MACP								
2531m	2801m	DRILL	50	12kdaN	1	6100	@	72	@	396	12	11	TRIPPING IN HOLE COP 2-5		93.00kdaN	2611kPa								

**TOUR 3 SIGNATURE OF DRILLER** JOSH GILBERT **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG								
Bit Number	8	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
IADC Code		Manufacturer	REED	1	MUD MOTOR	128	0	9.18m	Funnel Viscosity	62s/l		20:00	20:30	2816.69m	90.4	120.7	20:00	22:30	2:50:2	2:50:2	DRILL 159mm LATERAL SECTION FROM 2801M-2918M.			
Type	SK413M-B1G PDC	Serial No	A210816	2	NON MAG FLEX MONEL	119	69	9.35m	Location of Sample	SHAKERS SHAKERS		21:00	21:00	2831.1m	90	122.3	22:30	23:45	1:25:20A	1:25:20A	DIRECTIONAL SURVEYS/ CONNECTIONS			
Jets	8.7 8.7 8.7 8.7	Depth Out (m)	11.1 11.1	3	GAP SUB	121	68	1.71m	Depth	SHAKERS SHAKERS		21:00	21:15	2845.94m	90.1	124.6	23:45	24:00	0:25:7	0:25:7	RIG SERVICE/FUNCTION LOWER PIPE RAMS / 4 SECONDS TO CLOSE			
Depth In (m)	2531	Total Drilled (m)		4	NON MAG FLEX MONEL	118	69	18.57m	PVT	34m3		22:00	22:15	2861.1m	90.9	126.1	REMARKS: INSPECT FLOOR EQUIPMENT.TONG BACK UP SLINGS.DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK							
Hrs Run Today	2.50	Cumulative Hrs Run	9.25	5	HWDP(4.0 IN)	114	72	9.36m	CIRCULATION			22:00	22:30	2875.19m	90	125.7	INSPECT CATWALK,PIPE RACKS,PIPE RACK PINS/CHAINS,FLARE AND DEGASSER LINES,LOAD LINE.							
Entry Date	2016/02/15	CUTTING STRUCTURE		6	HYD/MECH JARS	136	62	5.20m	Pump#	Type	Liner Size	SPM	Pressure	Hours Run	MUD MATERIALS ADDED		07:45	08:00	0:25:21	0:25:21A	FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E- STOPS,CROWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE			
TI		Gage		7	DRILL PIPE	321.75m	HOLE CONDITION		1	SINGLE	114	78	16500	4	Product	Amount	Type	INSPECT STABBING VALVE/INSIDE BOP						
TO		ODC		8	DRILL PIPE	0.00m	Hole Drag	Up	Down	2	SINGLE	114	78	16500	4	LIME	15	EACH	INSPECT STABBING VALVE/INSIDE BOP					
MDC		Reason Pulled		9	DRILL PIPE	0.00m	Torque at Bottom		Fill on Bottom	2	SINGLE	114	78	16500	4	GRAPHITE	5	EACH	FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E- STOPS,CROWN SAVER,IGNITER AND PASON CHOKE,MANUAL CHOKE					
LOC		Total Run (m/hr)		10	DRILL PIPE	0.00m				2	SINGLE	114	78	16500	4	OPTI-WET	1	EACH	INSPECT STABBING VALVE/INSIDE BOP					
BRG				11	DRILL PIPE	0.00m				2	SINGLE	114	78	16500	4	BARITE	42	EACH	INSPECT STABBING VALVE/INSIDE BOP					
METRES DRILLED				12	DRILL PIPE	0.00m	REDUCED PUMP SPEED		Boiler	SAFETY														
From	To	D-R-C	RPM	WOB	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic		MEHL	MACP								
2801m	2918m	DRILL	50	12kdaN	1	6000	@	70	@	396	4	11	DERRICK CONNECTIONS		95.00kdaN	2416kPa								

**FRONT PAGE SUMMARY**

License No 31527 Well Name ARGRES HZ SUNRISE L2-25-78-18  
 Tour Sheet Serial Number 02-25-078-18W6  
 Surface Location 02-25-078-18W6  
 Vendor Software Version Pason  
 Year 2016 Month 02 Day 17  
 Prov BC Loc Type DLS Unique Well Id 103/08-19-078-17W/600  
 Operator ARC RESOURCES  
 Operator's AFE 16DRLO016  
 Signature of Operator Representative Dean Boehner  
 Contractor PRECISION DRILLING, DIV OF PDCLP  
 Contractor's Job No 77  
 Signature of Contractor's Rig Manager MARC RAYMOND  
 Rig No 529  
 Well Type HORIZ  
 Spud Date Time 2016/02/07 04:00  
 Rig Release Date Time 2016/02/21 23:59  
 Re-Entry

**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 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		4.75					0.25													2.75	0.25					8.00
Tour 2		7.50					0.25													4.00	0.25					12.00
Tour 3		1.50					0.25	1.50												0.75						4.00
Total		13.75					0.75	1.50												7.50	0.50					24.00

**FUEL @ 08:00 HOURS**

Rig	19000.00	Water	0.00
Time	06:00	Temp	-6.00
Current Conditions	LIGHT SNOW	Wind Direction	
Wind Strength		Wind Strength	
Wind Condition	CALM	Wind Condition	
Wind	FAIR	Wind	

**TOUR 1 SIGNATURE OF DRILLER** JOSH GILBERT **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG								
Bit Number	8	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
IADC Code		Manufacturer	REED	1	MUD MOTOR	128	0	9.18m	Time	02:00	04:00	00:15	2919m	88.5	125.7		00:00	04:45	4.75	2	DRILL 159mm HOLE FROM 2918M- 3152M			
Type	SK413M-B1G PDC	Serial No	A210816	2	NON MAG FLEX MONEL	119	69	9.35m	Density	1260	1380	01:15	2948m	88.2	124.8		04:45	07:30	2.75	20A	DIRECTIONAL SURVEYS/CONNECTIONS			
Jets	8.7 8.7 8.7	1	GAP SUB	121	68	1.71m	Funnel Viscosity	60s/l	60s/l	01:45	2962.94m	88.2	123.8		07:30	07:45	0.25	7			RIG SERVICE/FUNCTION ANNUAL/ 22 SECONDS TO CLOSE			
Depth Out (m)	11.1 11.1	2	NON MAG FLEX MONEL	118	69	18.57m	Fluid Loss			02:15	2977m	88.2	124.1		07:45	08:00	0.25	21			SAFETY MEETING/ CREW CHANGE MEETING			
Depth In (m)	2531	3	X/O	134	61	0.94m	pH			02:45	2992.19m	90.2	123.8											
Total Drilled (m)	621	4	X/O	134	68	0.94m	Location of Sample	SHAKERS	SHAKERS	03:15	3007m	89.9	123											
Hrs Run Today	4.75	5	HWDP(4.0 IN)	114	72	9.36m	Depth	2974m	3032m	<b>SOLIDS CONTROL</b>														
Cumulative Hrs Run	14.00	6	X/O	134	75	0.96m	PVT	54.5m3	53m3	<b>EQUIPMENT</b>														
Entry Date	2016/02/15	7	SLIDE REAMER	150	63	1.41m	Pressure	22500	7	<b>CENTRIFUGE</b>														
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>REDUCED PUMP SPEED</b>				<b>Boiler</b>				<b>SAFETY</b>								
TI		Gage		19	Drill Pipe	Stands	555.75m	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic	MEHL	MACP			
TO		ODC		0	Drill Pipe	Singles	0.00m	Torque at Bottom	6500.00Nm	Fill on Bottom	0.00m	1	7500	@	77	@	3063	396	8	10.5	310	DERRICK CONNECTIONS	100.00kdaN	2413kPa
MDC		Reason Pulled		Kelly Down				Total	3152.00m	Remarks:														
LOC		Total Run (m/hr)		Weight of DC				0kdaN																
BRG		Weight of String		Weight of String				76kdaN																

**TOUR 2 SIGNATURE OF DRILLER** ROB STAMP **START TIME** 08:00 **END TIME** 20:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG								
Bit Number	8	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
IADC Code		Manufacturer	REED	1	MUD MOTOR	128	0	9.18m	Time	08:30	12:00	08:30	3153m	89.6	119.8		08:00	08:15	0.25	7	RIG SERVICE FUNCTION UPPER PIPE RAMS 4 SECONDS TO CLOSE (CHANGE OUT WASH PIPE)			
Type	SK413M-B1G PDC	Serial No	A210816	2	NON MAG FLEX MONEL	119	69	9.35m	Density	1390	1370	09:15	3182m	90	120.1		08:15	15:45	7.50	2	DRILL 159MM HOLE FROM 3152M TO 3461M.			
Jets	8.7 8.7 8.7	1	GAP SUB	121	68	1.71m	Funnel Viscosity	62s/l	62s/l	09:45	3196.94m	90.6	119.6		15:45	19:45	4.00	20A			DIRECTIONAL SURVEYS/CONNECTIONS			
Depth Out (m)	11.1 11.1	2	NON MAG FLEX MONEL	118	69	18.57m	Fluid Loss			11:00	3226.19m	90.8	120		19:45	20:00	0.25	21			SAFETY MEETING/CREW CHANGE HAND OVER/ PLAN FORWARD MEETING			
Depth In (m)	2531	3	X/O	134	61	0.94m	pH			11:30	3241m	91.2	119.6											
Total Drilled (m)	930	4	HWDP(4.0 IN)	114	72	9.36m	Location of Sample	SHAKERS	SHAKERS	<b>SOLIDS CONTROL</b>														
Hrs Run Today	7.50	5	X/O	134	68	0.94m	Depth	3460m	3503m	<b>EQUIPMENT</b>														
Cumulative Hrs Run	21.50	6	SLIDE REAMER	150	63	1.41m	PVT	35m3	52m3	<b>CENTRIFUGE</b>														
Entry Date	2016/02/15	7	X/O	134	75	0.96m	Pressure	22300	12	<b>MUD MATERIALS ADDED</b>														
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>REDUCED PUMP SPEED</b>				<b>Boiler</b>				<b>SAFETY</b>								
TI		Gage		30	Drill Pipe	Stands	877.50m	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic	MEHL	MACP			
TO		ODC		0	Drill Pipe	Singles	0.00m	Torque at Bottom	6800.00Nm	Fill on Bottom	0.00m	1	7500	@	77	@	3152	396	12	10.5	310	DERRICK CONNECTIONS	85.00kdaN	2313kPa
MDC		Reason Pulled		Kelly Down				Total	3461.00m	Remarks:														
LOC		Total Run (m/hr)		Weight of DC				0kdaN																
BRG		Weight of String		Weight of String				80kdaN																

**TOUR 3 SIGNATURE OF DRILLER** JOSH GILBERT **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG								
Bit Number	8	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
IADC Code		Manufacturer	REED	1	MUD MOTOR	128	0	9.18m	Time	20:00	23:00	20:30	3475m	88.7	124.8		20:00	21:00	1.00	2	DRILL 159mm HOLE FROM 3461M-3503M			
Type	SK413M-B1G PDC	Serial No	A210816	2	NON MAG FLEX MONEL	119	69	9.35m	Density	1380	1380	21:00	3489.44m	88.3	125.2		21:00	21:45	0.75	20A	DIRECTIONAL SURVEYS/CONNECTIONS			
Jets	8.7 8.7 8.7	1	GAP SUB	121	68	1.71m	Funnel Viscosity	62s/l	63s/l	23:00	3504m	89.3	125.7		21:45	22:00	0.25	7			RIG SERVICE/ FUNCTION LOWER PIPE RAMS/ 4 SECONDS TO CLOSE			
Depth Out (m)	11.1 11.1	2	NON MAG FLEX MONEL	118	69	18.57m	Fluid Loss								22:00	23:30	0.50	BF			DOWNTIME - DRAWWORKS/ CHANGE DRAWWORKS ENCODER			
Depth In (m)	2531	3	X/O	134	61	0.94m	pH								23:30	24:00	0.50	2			DRILL 159mm LATERAL SECTION FROM 3503M-3523M.			
Total Drilled (m)	992	4	HWDP(4.0 IN)	114	72	9.36m	Location of Sample	SHAKERS	SHAKERS	<b>SOLIDS CONTROL</b>														
Hrs Run Today	1.50	5	X/O	134	75	0.96m	Depth	3460m	3503m	<b>EQUIPMENT</b>														
Cumulative Hrs Run	23.00	6	SLIDE REAMER	150	63	1.41m	PVT	35m3	52m3	<b>CENTRIFUGE</b>														
Entry Date	2016/02/15	7	X/O	134	75	0.96m	Pressure	23500	4	<b>MUD MATERIALS ADDED</b>														
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>REDUCED PUMP SPEED</b>				<b>Boiler</b>				<b>SAFETY</b>								
TI		Gage		32	Drill Pipe	Stands	936.00m	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic	MEHL	MACP			
TO		ODC		0	Drill Pipe	Singles	0.00m	Torque at Bottom	7500.00Nm	Fill on Bottom	0.00m	1	7900	@	77	@	3503	396	4	10.5	310	DERRICK CONNECTIONS	100.00kdaN	2313kPa
MDC		Reason Pulled		Kelly Down				Total	3523.00m	Remarks:														
LOC		Total Run (m/hr)		Weight of DC				0kdaN																
BRG		Weight of String		Weight of String				80kdaN																

FRONT PAGE SUMMARY

License No 31527 Well Name ARGRES HZ SUNRISE L2-25-78-18 Tour Sheet Serial Number 02-25-078-18W6 Pason Prov BC Loc Type DLS Unique Well Id 103/08-19-078-17W/60

Year 2016 Month 02 Day 18

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 Operator's AFE 16DRLO016 Signature of Operator Representative Dean Boehner

Contractor PRECISION DRILLING, DIV OF PDCLP Contractor's Job No 77 Signature of Contractor's Rig Manager MARC RAYMOND

Rig No 529 Well Type HORIZ Spud Date Time 2016/02/07 04:00 Rig Release Date Time 2016/02/21 23:59

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 JOSH GILBERT 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. Includes detailed logs for drilling parameters, survey data, and safety notes.

TOUR 2 SIGNATURE OF DRILLER ROB STAMP 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. Includes detailed logs for drilling parameters, survey data, and safety notes.

TOUR 3 SIGNATURE OF DRILLER JOSH GILBERT 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. Includes detailed logs for drilling parameters, survey data, and safety notes.

**FRONT PAGE SUMMARY**

License No 31527 Well Name ARGRES HZ SUNRISE L2-25-78-18  
 Operator ARC RESOURCES  
 Operator's AFE 16DRLO016  
 Signature of Operator Representative Dean Boehnert

Tour Sheet Serial Number 0Y52529\_20160219\_1B  
 Surface Location 02-25-078-18W6  
 Contractor PRECISION DRILLING, DIV OF PDCLP  
 Contractor's Job No 77  
 Signature of Contractor's Rig Manager MARC RAYMOND

Vendor Software Version Pason  
 Year 2016 Month 02 Day 19  
 Prov BC Loc Type DLS Unique Well Id 103/08-19-078-17W6/00

Rig No 529 Well Type HORIZ  
 Spud Date Time 2016/02/07 04:00  
 Rig Release Date Time 2016/02/21 23:59

Re-Entry

**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	Mipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On Rig	Rig Watch	Other	
Tour 1		5.50					0.25													2.00	0.25					8.00
Tour 2		7.00			1.50		0.25													3.00	0.25					12.00
Tour 3						3.50	0.25														0.25					4.00
Total		12.50			1.50	3.50	0.75													5.00	0.75					24.00

**FUEL @ 08:00 HOURS**

Rig	12375.00	Water	Temp
		06.00	-1.00
Weather	Wind Direction	Wind Strength	Cloud Condition
	FAIR	CALM	

**TOUR 1 SIGNATURE OF DRILLER** JOSH GILBERT **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG								
Bit Number	8	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
IADC Code		Manufacturer	REED	1	MUD MOTOR	128	0	9.18m	Time	02:00	05:00	00:15	4103.69m	90	123.8		00:00	05:30	5:30Z	DRILL 159mm LATERAL SECTION FROM 4095M- 4284M				
Type	SK413M-B1G PDC	Serial No	A210816	2	NON MAG FLEX MONEL	119	69	9.35m	Density	1390	1380	01:15	4132.94m	91.2	123.1		05:30	07:30	2:00Z	20A	DIRECTIONAL SURVEYS/CONNECTIONS			
Jets	8.7 8.7 8.7 8.7	1	GAP SUB	121	68	1.71m	2	NON MAG FLEX MONEL	118	69	18.57m	02:00	4148m	90.4	123.7		07:30	07:45	0:25Z	7	RIG SERVICE/FUNCTION ANNUAL / 22 SECONDS TO CLOSE			
Depth Out (m)	11.1 11.1	1	X/O	134	61	0.94m	2	X/O	134	61	0.94m	02:30	4162.19m	91.3	122.3		07:45	08:00	0:25Z	21	SAFETY MEETING/CREW CHANGE MEETING			
Depth In (m)		1	HWD(P4.0 IN)	114	72	9.36m	1	X/O	134	75	0.96m	03:00	4177m	90.4	122.1									
Total Drilled (m)	1753	1	X/O	134	68	0.94m	1	X/O	134	68	0.94m	03:30	4191.44m	90	123.7									
Hrs Run Today	5.50	1	SLIDE REAMER	150	63	1.41m	1	X/O	134	68	0.94m	03:30	4191.44m	90	123.7									
Cumulative Hrs Run	43.00	1	X/O	134	75	0.96m	1	X/O	134	75	0.96m	03:30	4191.44m	90	123.7									
Entry Date	2016/02/15	1	HYD/MECH JARS	136	62	5.20m	1	X/O	134	75	0.96m	03:30	4191.44m	90	123.7									
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>REDUCED PUMP SPEED</b>				<b>SAFETY</b>												
TI		Gage		Hole Drag	Up	Down	Torque at Bottom	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic									
TO		ODC		Kelly Down	Total	Weight of DC	8200.00Nm	1	7700	@	75	@	4321	396	8	10.5	310	MEHL MACP						
MDC		Reason Pulled		Weight of String	72kdaN		Fill on Bottom	0.00m	2	8700	@	75	@	4350	DERRICK CONNECTIONS 105.00kdaN 2430kPa									
LOC		Total Run (m/hr)							1	8500	@	75	@	4496										
BRG																								

**TOUR 2 SIGNATURE OF DRILLER** ROB STAMP **START TIME** 08:00 **END TIME** 20:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG								
Bit Number	8	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
IADC Code		Manufacturer	REED	1	MUD MOTOR	128	0	9.18m	Time	10:30	13:30	08:00	4279.19m	90.4	123.5		08:00	15:00	7:00Z	2	DRILL 159 MM HOLE FROM 4284M- 4503M (T.D.)			
Type	SK413M-B1G PDC	Serial No	A210816	2	NON MAG FLEX MONEL	119	69	9.35m	Density	1390	1380	08:30	4293.81m	90.2	122.8		15:00	18:00	3:00Z	20A	DIRECTIONAL SURVEYS/CONNECTIONS			
Jets	8.7 8.7 8.7 8.7	1	GAP SUB	121	68	1.71m	2	NON MAG FLEX MONEL	118	69	18.57m	09:00	4308.49m	90.2	121.9		18:00	18:15	0:25Z	7	RIG SERVICE/FUNCTION UPPER PIPE RAMS 4 SECONDS TO CLOSE			
Depth Out (m)	11.1 11.1	1	X/O	134	61	0.94m	2	X/O	134	61	0.94m	10:00	4323.66m	89.9	122.8		18:15	19:45	1:50Z	5	CIRCULATE HOLE CLEAN PRIOR TO WIPER TRIP			
Depth In (m)		1	HWD(P4.0 IN)	114	72	9.36m	1	X/O	134	75	0.96m	10:45	4337.69m	89.8	122.2		19:45	20:00	0:25Z	21	SAFETY MEETING/CREW CHANGE HAND OVER/PLAN FORWARD MEETING			
Total Drilled (m)	1972	1	X/O	134	68	0.94m	1	X/O	134	75	0.96m	11:30	4352.31m	90.2	122.4									
Hrs Run Today	7.00	1	SLIDE REAMER	150	63	1.41m	1	X/O	134	68	0.94m	12:00	4366.94m	89.6	122.7									
Cumulative Hrs Run	50.00	1	X/O	134	75	0.96m	1	X/O	134	75	0.96m	12:00	4366.94m	89.6	122.7									
Entry Date	2016/02/15	1	HYD/MECH JARS	136	62	5.20m	1	X/O	134	75	0.96m	12:00	4366.94m	89.6	122.7									
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>REDUCED PUMP SPEED</b>				<b>SAFETY</b>												
TI		Gage		Hole Drag	Up	Down	Torque at Bottom	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic									
TO		ODC		Kelly Down	Total	Weight of DC	8200.00Nm	1	8300	@	75	@	4321	396	12	10.5	310	MEHL MACP						
MDC		Reason Pulled		Weight of String	72kdaN		Fill on Bottom	0.00m	2	8700	@	75	@	4350	DERRICK CONNECTIONS JSA 2-F 87.00kdaN 2363kPa									
LOC		Total Run (m/hr)							1	8500	@	75	@	4496										
BRG																								

**TOUR 3 SIGNATURE OF DRILLER** JOSH GILBERT **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG								
Bit Number	8	Size	159	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
IADC Code		Manufacturer	REED	1	MUD MOTOR	128	0	9.18m	Time	20:00		20:00	4503m	90.2	121.9		20:00	22:45	2:45Z	5B	TRIP OUT OF HOLE FROM 4503M-2590M. 10 MIN FC'S @ 4503M/4301M/2590M. FINAL TRIP CALC= 7.10M/3. ACTUAL = + 9.13 M/3. DIFF = +2.03M/3			
Type	SK413M-B1G PDC	Serial No	A210816	2	NON MAG FLEX MONEL	119	69	9.35m	Density	1390	1380	22:45	4503m	90.2	121.9		22:45	23:00	0:25Z	7	RIG SERVICE/ FUNCTION LOWER PIPE RAMS/ 4 SECS TO CLOSE			
Jets	8.7 8.7 8.7 8.7	1	GAP SUB	121	68	1.71m	2	NON MAG FLEX MONEL	118	69	18.57m	23:00	4503m	90.2	121.9		23:00	23:15	0:25Z	21	SAFETY MEETING PRIOR TO TRIP IN/ COP 2-5			
Depth Out (m)	11.1 11.1	1	X/O	134	61	0.94m	2	X/O	134	61	0.94m	23:15	4503m	90.2	121.9		23:15	24:00	0:75Z	5A	TRIP IN HOLE FROM 2590M-3166M/ FILL PIPE EVERY 600 METERS/ 10 MIN FLOW/CHECK @ 2590M.			
Depth In (m)		1	HWD(P4.0 IN)	114	72	9.36m	1	X/O	134	75	0.96m	23:15	4503m	90.2	121.9									
Total Drilled (m)	1972	1	SLIDE REAMER	150	63	1.41m	1	X/O	134	68	0.94m	23:15	4503m	90.2	121.9									
Hrs Run Today	0.00	1	X/O	134	75	0.96m	1	X/O	134	75	0.96m	23:15	4503m	90.2	121.9									
Cumulative Hrs Run	50.00	1	HYD/MECH JARS	136	62	5.20m	1	X/O	134	75	0.96m	23:15	4503m	90.2	121.9									
Entry Date	2016/02/15	1	HYD/MECH JARS	136	62	5.20m	1	X/O	134	75	0.96m	23:15	4503m	90.2	121.9									
<b>CUTTING STRUCTURE</b>				<b>HOLE CONDITION</b>				<b>REDUCED PUMP SPEED</b>				<b>SAFETY</b>												
TI		Gage		Hole Drag	Up	Down	Torque at Bottom	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic									
TO		ODC		Kelly Down	Total	Weight of DC	8200.00Nm	1	8300	@	75	@	4321	396	4	10.5	310	MEHL MACP						
MDC		Reason Pulled		Weight of String	72kdaN		Fill on Bottom	0.00m	2	8700	@	75	@	4350	TRIPPING OUT 91.00kdaN 2313kPa									
LOC		Total Run (m/hr)							1	8500	@	75	@	4496										
BRG																								



FRONT PAGE SUMMARY

License No 31527 Well Name ARGRES HZ SUNRISE L2-25-78-18
Tour Sheet Serial Number 02-25-078-18W6
Surface Location 02-25-078-18W6
Vendor Software Version Pason
Year 2016 Month 02 Day 21
Prov BC Loc Type DLS Unique Well Id 103/08-19-078-17W6/00
Operator ARC RESOURCES
Contractor PRECISION DRILLING, DIV OF PDCLP
Rig No 529
Well Type HORIZ
Spud Date Time 2016/02/07 04:00
Signature of Operator Representative Dean Boehnert
Signature of Contractor's Rig Manager MARC RAYMOND
Rig Release Date Time 2016/02/21 23:59

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 Kills Checked



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. Includes FUEL @ 08:00 HOURS and WEATHER section.

TOUR 1 SIGNATURE OF DRILLER JOSH GILBERT START TIME 00:00 END TIME 08:00

TOUR 1 BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, SOLIDS CONTROL, MUD MATERIALS ADDED, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SAFETY. Includes detailed logs for mud properties, circulation, and safety observations.

TOUR 2 SIGNATURE OF DRILLER ROB STAMP START TIME 08:00 END TIME 20:00

TOUR 2 BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, SOLIDS CONTROL, MUD MATERIALS ADDED, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SAFETY. Includes detailed logs for mud properties, circulation, and safety observations.

TOUR 3 SIGNATURE OF DRILLER JOSH GILBERT START TIME 20:00 END TIME 24:00

TOUR 3 BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, SOLIDS CONTROL, MUD MATERIALS ADDED, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SAFETY. Includes detailed logs for mud properties, circulation, and safety observations.



**FRONT PAGE SUMMARY**

License No 31527 Well Name ARCRES HZ SUNRISE L2-25-78-18  
 Tour Sheet Serial Number 02-25-078-18W6 Pason Vendor Software Version Year 2016 Month 02 Day 22  
 Surface Location 02-25-078-18W6 Prov BC Loc Type DLS Unique Well Id 103/08-19-078-17W6/00  
 Operator ARC RESOURCES Contractor PRECISION DRILLING, DIV OF PDCLP Rig No 529 Well Type HORIZ Re-Entry  
 Operator's AFE 16DRLO16 Contractor's Job No 77 Spud Date Time 2016/02/07 04:00  
 Signature of Operator Representative Dean Boehmert Signature of Contractor's Rig Manager MARC RAYMOND Rig Release Date Time 2016/02/21 23:59

**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  
 8) Rig Site Health & Safety Meeting (one/crew/month)  
 9) CAODC Rig Safety Inspection Checklist (one/rig/month)  
 10) Mast Inspection before Raising or Lowering  
 11) Crown Saver Checked  
 12) 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	
Tour 2																						0.25	7.75				12.00
Tour 3																								4.00			4.00
Total																						0.75	19.25	4.00			24.00

Kelly Busting 8:30 Op Fuel 2250.00  
 FUEL @ 08:00 HOURS  
 Rig 8000.00 Meter 0.00  
 Current Conditions CLEAR Meter -1.00  
 Wind Direction N Wind Strength CALM  
 Road Condition FAIR

**TOUR 1 SIGNATURE OF DRILLER** JOSH GILBERT **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS					TIME LOG							
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks	
Size							Other								00:00	07:45	07:45	7.7522B	RIG DOWN TOP DRIVE AND ALL DERRICK SERVICE LOOPS/KELLY HOSE/2' HOSE	
IADC Code							Time								07:45	08:00	0:25	21	HAND OVER MEETING AND PLAN FORWARD MEETING WITH ARC REP	
Manufacturer							Density													
Type							Funnel Viscosity													
Serial No							Fluid Loss													
Jets							pH													
Depth Out (m)							Location of Sample													
Depth In (m)							Depth													
Total Drilled (m)							PVT													
Hrs Run Today																				
Cumulative Hrs Run																				
Entry Date																				
CUTTING STRUCTURE		HOLE CONDITION			REDUCED PUMP SPEED			SAFETY												
TI	Gage	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic		MEHL	MACP				
TO	ODC	Torque at Bottom							396	8	11	330	RIG OUT TOP DRIVE		19.00kdaN	0kPa				
MDC	Reason Pulled	Fill on Bottom																		
LOC	Total Run (m/hr)																			
BRG	Weight of DC																			
	Weight of String																			

**TOUR 2 SIGNATURE OF DRILLER** ROB STAMP **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS					TIME LOG							
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks	
Size							Other								08:00	08:15	0:25	21	SAFETY MEETING WITH CREW AND TRUCKERS ON MOVING ALL PIPE	
IADC Code							Time													
Manufacturer							Density													
Type							Funnel Viscosity													
Serial No							Fluid Loss													
Jets							pH													
Depth Out (m)							Location of Sample													
Depth In (m)							Depth													
Total Drilled (m)							PVT													
Hrs Run Today																				
Cumulative Hrs Run																				
Entry Date																				
CUTTING STRUCTURE		HOLE CONDITION			REDUCED PUMP SPEED			SAFETY												
TI	Gage	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic		MEHL	MACP				
TO	ODC	Torque at Bottom							396	12	11	310	LAY OVER DERRICK		100.00kdaN	0kPa				
MDC	Reason Pulled	Fill on Bottom																		
LOC	Total Run (m/hr)																			
BRG	Weight of DC																			
	Weight of String																			

**TOUR 3 SIGNATURE OF DRILLER** JOSH GILBERT **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS					TIME LOG							
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks	
Size							Other								20:00	24:00	4:00	23B	W/O DAYLIGHT TO MOVE RIG F/L2-25-78-18 TO 9-26-79-17W6	
IADC Code							Time													
Manufacturer							Density													
Type							Funnel Viscosity													
Serial No							Fluid Loss													
Jets							pH													
Depth Out (m)							Location of Sample													
Depth In (m)							Depth													
Total Drilled (m)							PVT													
Hrs Run Today																				
Cumulative Hrs Run																				
Entry Date																				
CUTTING STRUCTURE		HOLE CONDITION			REDUCED PUMP SPEED			SAFETY												
TI	Gage	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic		MEHL	MACP				
TO	ODC	Torque at Bottom							396	0	11	310	RIGGING OUT		0.00kdaN	0kPa				
MDC	Reason Pulled	Fill on Bottom																		
LOC	Total Run (m/hr)																			
BRG	Weight of DC																			
	Weight of String																			