

FRONT PAGE SUMMARY

License No 31525 Well Name SUNRISE HZ J2-25-78-18W6 Operator ARC RESOURCES

Tour Sheet Serial Number Y52529_20160103_2A Vendor Software Version Pason Year 2016 Month 01 Day 03

- 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 4 rows (Tour 1-3, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, etc. Total hours: 6.00.

TOUR 1 SIGNATURE OF DRILLER MARC RAYMOND 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

TOUR 2 SIGNATURE OF DRILLER MARC RAYMOND 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

TOUR 3 SIGNATURE OF DRILLER MARC RAYMOND 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

FRONT PAGE SUMMARY

License No 31525 Well Name ARCREZ HZ SUNRISE J2-25-78-18 Tour Sheet Serial Number 0Y52529_20160104_1A Vendor Software Version Pason Year 2016 Month 01 Day 04

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

OP RM table with columns for various inspection items and their status (MR, SDK).



Table with 25 columns (CODE 1-25) and rows for TOUR 1, TOUR 2, TOUR 3, and Total. Columns include Rig Up, Drill Actual, Reaming, Coring, etc.

TOUR 1 SIGNATURE OF DRILLER MARC RAYMOND 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, SOLIDS CONTROL, MUD MATERIALS ADDED, REDUCED PUMP SPEED, and SAFETY.

TOUR 2 SIGNATURE OF DRILLER SYLVAIN 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, SOLIDS CONTROL, MUD MATERIALS ADDED, REDUCED PUMP SPEED, and SAFETY.

TOUR 3 SIGNATURE OF DRILLER JOSH GILBERT 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, SOLIDS CONTROL, MUD MATERIALS ADDED, REDUCED PUMP SPEED, and SAFETY.

FRONT PAGE SUMMARY

License No 31525 Well Name ARCSUN HZ SUNRISE J2-25-78-18
Tour Sheet Serial Number 052529_20160105_1B Pason Vendor Software Version 2016 01 05
Surface Location 12-25-07B-18W6 Prov BC Loc Type DLS Unique Well Id 102/09-19-078-17W/00
Operator ARC RESOURCES Contractor PRECISION DRILLING, DIV OF PDCLP Rig No 529 Well Type HORIZ
Operator's AFE 16DRLO14 Contractor's Job No 75
Signature of Operator Representative Sheldon Kashuba Signature of Contractor's Rig Manager MARC RAYMOND Rig Release Date Time 2016/01/20 17:00

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
8) Rig Site Health & Safety Meeting (one/crew/month)
9) 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, Mud, 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.

Summary table with fields: Kelly Busting, Op Fuel, FUEL @ 08:00 HOURS, Time, Meter, Temp, WEATHER (Clear, Wind Direction, Wind Strength, Road Condition).

TOUR 1 SIGNATURE OF DRILLER MARC RAYMOND **START TIME** 00:00 **END TIME** 08:00

BITS
Bit Number 2
Size 279
IADC Code
Manufacturer SICOITE
Type SS516GB
Serial No 12807
Jets 14.3 14.3 14.3 14.3
Depth Out (m) 14.3 14.3
Depth In (m) 185
Total Drilled (m) 322
Hrs Run Today 4.00
Cumulative Hrs Run 5.00
Entry Date 2016/01/04

DRILLING ASSEMBLY
No Component OD ID Length
1 BIT 200 0 0.26m
1 MUD MOTOR 168 0 7.56m
1 XO 168 72 0.80m
1 NMDC 166 71 9.23m
1 GAP SUB 166 79 1.64m
1 NMDC 166 71 9.37m
1 JARS-HYD 168 57 5.48m
1 XO 158 71 0.90m
1 HWDP 114 71 9.36m
48 HWDP 114 71 449.28m

MUD RECORD
Mud Type Water Oil
Time 07:00
Density 1200
Funnel Viscosity 42s/l
Fluid Loss
pH
Location of Sample SHAKERS
Depth
PVT
CIRCULATION
Pump# Type Liner Size SPM Pressure Hours Run
1 COMBINED 140 125 9500 7
2 COMBINED 127 125 9500 7

DEVIATION SURVEYS
Time Depth Deviation Direction Type
00:15 199.1m 1.5 287.4
01:00 227.2m 1 255.2
01:45 255.2m 0.5 208.5
02:30 283.3m 0.9 200.5
03:15 311.4m 0.5 62.8
04:00 339.5m 0.6 54
04:45 367.6m 0.7 68.5
SOLIDS CONTROL
Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density
CENTRIFUGE 8 1250 1100 1900
MUD MATERIALS ADDED
Product Amount Type
BENTONITE 50 EACH
FLOWZAN 2 EACH

TIME LOG
From To Elapsed Code Details of Operations in Sequence & Remarks
00:00 05:00 5:00:25 DRILL 279mm SURFACE HOLE FROM 189M-507m TO SURFACE HOLE
05:00 07:15 2:25:20A DIRECTIONAL SURVEYS/CONNECTIONS/TOO FACE ORIENTATION
07:15 07:30 0:25:17 RIG SERVICE/ GREASE OVERHEAD EQUIPMENT
07:30 07:45 0:25:21 SAFETY MEETING ON LEVEL DRILLING RIG/LEVEL RIG
07:45 08:00 0:25:21 SAFETY MEETING/CREW CHANGE MEETING
REMARKS: INSPECT FLOOR EQUIPMENT.TONG.BACK UP SLINGS.DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK
INSPECT CATWALK,PIPE RACKS,PIPE RACK PINS/CHAINS
FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E- STOPS
SAFETY
Safety Topic MEHL MACP
DRILLING SURFACE HOLE 55.00kdaN

TOUR 2 SIGNATURE OF DRILLER MARC RAYMOND **START TIME** 08:00 **END TIME** 20:00

BITS
Bit Number 2
Size 279
IADC Code
Manufacturer SICOITE
Type SS516GB
Serial No 12807
Jets 14.3 14.3 14.3 14.3
Depth Out (m) 507
Depth In (m) 185
Total Drilled (m) 322
Hrs Run Today 0.00
Cumulative Hrs Run 5.00
Entry Date 2016/01/04

DRILLING ASSEMBLY
No Component OD ID Length
1 BIT 200 0 0.26m
1 MUD MOTOR 168 0 7.56m
1 XO 168 72 0.80m
1 NMDC 166 71 9.23m
1 GAP SUB 166 79 1.64m
1 NMDC 166 71 9.37m
1 JARS-HYD 168 57 5.48m
1 XO 158 71 0.90m
1 HWDP 114 71 9.36m
48 HWDP 114 71 449.28m

MUD RECORD
Mud Type Water Oil
Time
Density
Funnel Viscosity
Fluid Loss
pH
Location of Sample
Depth
PVT
CIRCULATION
Pump# Type Liner Size SPM Pressure Hours Run
1 SINGLE 140 0 700 0
2 SINGLE 127 108 700 3

DEVIATION SURVEYS
Time Depth Deviation Direction Type
08:00 507m 1.5 5
SOLIDS CONTROL
Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density
MUD MATERIALS ADDED
Product Amount Type
SAFETY
Safety Topic MEHL MACP
WIPPER TRIP 46.00kdaN 0kPa

TIME LOG
From To Elapsed Code Details of Operations in Sequence & Remarks
08:00 08:45 0:45:15 CIRCULATE HOLE CLEAN_PUMP HIGH VIS SWEEP PRIOR TO WIPPER
08:45 09:00 0:25:21 SAFETY MEETING ON WIPPER TRIP OUT REV COP 2-4
09:00 10:00 1:00:00 WIPER TRIP SURFACE PUMP ANY TIGHT SPOT
10:00 10:45 0:45:15 CIRCULATE HOLE CLEAN PRIOR TO TRIP OUT
10:45 11:00 0:25:21 SAFETY MEETING ON TRIPPING OUT REV COP 2-4
11:00 11:45 0:45:15 TRIP OUT OF HOLE WASH ANY TIGHT SPOT IF ANY FILL HOLE AT ALL TIME
11:45 12:00 0:25:21 SAFETY MEETING WITH DD ON HANDLE BHA/BLOW BACK TOP DRIVE
12:00 13:15 1:25:20 DIRECTIONAL WORK LAY DOWN SURFACE,WHA,MWD TOOLS
13:15 14:00 0:45:12A CLEAN RIG FLOOR/RIG UP TO RUN CASING,POWER TONG,ELEVATOR CIRT- 33950-141 SERIAL#111629
14:00 14:15 0:25:21 SAFETY MEETING ON RUN 219MM CASING
14:15 15:45 1:50:12 RUN 219MM CASING FROM 0M TO 507M
15:45 16:45 1:00:00 CIRCULATE SURFACE CASING PRIOR TO CEMENT
16:45 17:00 0:25:21 SAFETY MEETING WITH TRICAN
17:00 17:15 0:25:12C RIG UP CEMENTERS PRESSURE TEST IRON,BLOW BACK TOP DRIVE WITH AIR
17:15 18:30 1:25:12C CEMENT PUMPED 4m³ AHEAD, 27T TSC 1700KG 1% CACL₂ (24.43m³), DISPLACED WITH 16.08m³ FRESH H₂O. BUMPS PLUG WITH 3500 KPA OVER, FLOATS HELD. 7m³ CEMENT RETURNS. PLUG DOWN 18:25
REMARKS: INSPECT FLOOR EQUIPMENT.TONG.BACK UP SLINGS.DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK
INSPECT CATWALK,PIPE RACKS,PIPE RACK PINS/CHAINS
FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E- STOPS
ESCAPE LINE WAS LOOSE AND RIDER WAS TANGLE BACK OF DERRICK MOVED BLOCK MAKING IT SAFE TO USE
SAFETY
Safety Topic MEHL MACP
WIPPER TRIP 46.00kdaN 0kPa

TOUR 3 SIGNATURE OF DRILLER MARC RAYMOND **START TIME** 20:00 **END TIME** 24:00

BITS
Bit Number
Size
IADC Code
Manufacturer
Type
Serial No
Jets
Depth Out (m)
Depth In (m)
Total Drilled (m)
Hrs Run Today
Cumulative Hrs Run
Entry Date

DRILLING ASSEMBLY
No Component OD ID Length
Drill Pipe Stands
Drill Pipe Singles
Kelly Down
Total
Weight of DC
Weight of String

MUD RECORD
Mud Type Water Oil
Time
Density
Funnel Viscosity
Fluid Loss
pH
Location of Sample
Depth
PVT
CIRCULATION
Pump# Type Liner Size SPM Pressure Hours Run
1 SINGLE 140 0 0 0
2 SINGLE 127 0 0 0

DEVIATION SURVEYS
Time Depth Deviation Direction Type
SOLIDS CONTROL
Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density
MUD MATERIALS ADDED
Product Amount Type
SAFETY
Safety Topic MEHL MACP
WELDING 15.00kdaN 0kPa

TIME LOG
From To Elapsed Code Details of Operations in Sequence & Remarks
20:00 22:30 2:50:13 WAIT ON CEMENT
22:30 22:45 0:25:21 SAFETY MEETING WITH WELDER
22:45 24:00 1:25:25 CUT CASING AND RIG OUT CONDUCTOR,WELD ON CSG BOWL
REMARKS: INSPECT FLOOR EQUIPMENT.TONG.BACK UP SLINGS.DEAD MAN,CAT HEAD,ST-80,TUGGER LINE HOOK
INSPECT CATWALK,PIPE RACKS,PIPE RACK PINS/CHAINS
FUNCTIONED UPPER & LOWER TRAVEL LIMITS & E- STOPS
SAFETY
Safety Topic MEHL MACP
WELDING 15.00kdaN 0kPa

FRONT PAGE SUMMARY

License No 31525 Well Name ARGRES HZ SUNRISE J2-25-78-18
Tour Sheet Serial Number 052529_20160106_1B
Pason Vendor Software Version 2016 01 06
Surface Location 12-25-078-18W6
Prov BC Loc Type DLS Unique Well Id 102/09-19-078-17W/00
Operator ARC RESOURCES
Contractor PRECISION DRILLING, DIV OF PDCLP
Rig No 529
Well Type HORIZ
Signature of Operator Representative Sheldon Kashuba
Signature of Contractor's Rig Manager MARC RAYMOND

DAILY CHECKS
1) Daily Walk Around Inspection
2) Detailed Inspection - Weekly (Using Check List)
3) H2S Spigs 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, Concl 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.

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, BOILER, SAFETY. Includes detailed data for mud properties, deviation surveys, and safety notes.

TOUR 2 SIGNATURE OF DRILLER SYLVAIN ARSENAULT 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, BOILER, SAFETY. Includes detailed data for mud properties, deviation surveys, and safety notes.

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, BOILER, SAFETY. Includes detailed data for mud properties, deviation surveys, and safety notes.

FRONT PAGE SUMMARY

License No 31525 Well Name ARCREES HZ SUNRISE J2-25-78-18 Surface Location 12-25-078-18W6

Year 2016 Month 01 Day 07 Vendor Software Version Pason Prov BC Loc Type DLS Unique Well Id 102/09-19-078-17W/600

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
Contractor's Job No 75

Rig No 529 Well Type HORIZ
Spud Date Time 2016/01/04 17:30
Rig Release Date Time 2016/01/20 17:00

Re-Entry

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

BITS 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, Entry Date.

DRILLING ASSEMBLY table with columns: No, Component, OD, ID, Length. Lists components like BIT, MOTOR HS, NON MAG MONEL, GAG SUB, NON MAG MONEL, HWDP, JARS-HYD/MECH.

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

DEVIATION SURVEYS table with columns: Time, Depth, Deviation, Direction, Type. Includes SOLIDS CONTROL table with columns: Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density.

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

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

METRES DRILLED table with columns: From, To, D-R-C, RPM, WOB.

HOLE CONDITION table with columns: Hole Drag, Up, Down, Torque at Bottom, Fill on Bottom.

REDUCED PUMP SPEED table with columns: Pump No., Pressure, Strokes/min, Depth.

SAFETY table with columns: Safety Topic, MEHL, MACP. Includes DERRICK CONNECTIONS.

TOUR 2 SIGNATURE OF DRILLER

SYLVAIN ARSENAULT

START TIME 08:00

END TIME 20:00

BITS 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, Entry Date.

DRILLING ASSEMBLY table with columns: No, Component, OD, ID, Length. Lists components like BIT, MOTOR HS, NON MAG MONEL, GAG SUB, NON MAG MONEL, HWDP, JARS-HYD/MECH.

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

DEVIATION SURVEYS table with columns: Time, Depth, Deviation, Direction, Type. Includes SOLIDS CONTROL table with columns: Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density.

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

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

METRES DRILLED table with columns: From, To, D-R-C, RPM, WOB.

HOLE CONDITION table with columns: Hole Drag, Up, Down, Torque at Bottom, Fill on Bottom.

REDUCED PUMP SPEED table with columns: Pump No., Pressure, Strokes/min, Depth.

SAFETY table with columns: Safety Topic, MEHL, MACP. Includes TRIP OUT.

TOUR 3 SIGNATURE OF DRILLER

JOSH GILBERT

START TIME 20:00

END TIME 24:00

BITS 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, Entry Date.

DRILLING ASSEMBLY table with columns: No, Component, OD, ID, Length. Lists components like BIT, MOTOR HS, NON MAG MONEL, GAG SUB, NON MAG MONEL, HWDP, JARS-HYD/MECH.

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

DEVIATION SURVEYS table with columns: Time, Depth, Deviation, Direction, Type. Includes SOLIDS CONTROL table with columns: Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density.

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

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

METRES DRILLED table with columns: From, To, D-R-C, RPM, WOB.

HOLE CONDITION table with columns: Hole Drag, Up, Down, Torque at Bottom, Fill on Bottom.

REDUCED PUMP SPEED table with columns: Pump No., Pressure, Strokes/min, Depth.

SAFETY table with columns: Safety Topic, MEHL, MACP. Includes TRIPPING OUT.

FRONT PAGE SUMMARY

License No 31525 Well Name ARCREES HZ SUNRISE J2-25-78-18 Operator ARC RESOURCES Operator's AFE 16DRLO014 Signature of Operator Representative Sheldon Kashuba

Year 2016 Month 01 Day 08 Surface Location 12-25-07B-18W6 Vendor Software Version Pason

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



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 JOSH GILBERT START TIME 00:00 END TIME 08:00

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

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

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

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, CIRCULATION, MUD MATERIALS ADDED, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SAFETY. Includes detailed logs for drilling parameters, mud properties, deviation surveys, and safety notes.

FRONT PAGE SUMMARY

License No 31525 Well Name ARCREZ HZ SUNRISE J2-25-78-18 Tour Sheet Serial Number 052529_20160109_1B Vendor Software Version Pason Year 2016 Month 01 Day 09

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



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 Cement, Nipple Up, Test BOP, Drillstem, 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 BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, SOLIDS CONTROL, CIRCULATION, MUD MATERIALS ADDED, 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 BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, SOLIDS CONTROL, CIRCULATION, MUD MATERIALS ADDED, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SAFETY

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, CIRCULATION, MUD MATERIALS ADDED, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SAFETY

FRONT PAGE SUMMARY

License No 31525 Well Name ARCREES HZ SUNRISE J2-25-78-18
 Tour Sheet Serial Number 0Y52529_20160110_1A Vendor Software Version Pason
 Surface Location 12-25-078-18W6 Prov BC Loc Type DLS Unique Well Id 102/09-19-078-17W6/00
 Operator ARC RESOURCES Contractor PRECISION DRILLING, DIV OF PDCLP Rig No 529 Well Type HORIZ
 Operator's AFE 16DRLO14 Contractor's Job No 75 Spud Date Time 2016/01/04 17:30
 Signature of Operator Representative Sheldon Kashuba Signature of Contractor's Rig Manager MARC RAYMOND Rig Release Date Time 2016/01/20 17:00

- 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
 - 80P Drills Performed
 - Visually Inspected BOPs - Flare Lines & Degasser Lines
- OP RM
 SDK MR
 SDK MR
 SDK MR
 SDK MR
 SDK MR
 SDK MR
 SDK MR
 SDK MR
 SDK MR



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	WEATHER
HOURLY	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		
Tour 1							3.25	0.25													2.75	1.00				8.00	Temp 0.00
Tour 2		9.00						0.25													2.50	0.25				12.00	Wind Speed 5.00
Tour 3		3.50						0.25													0.25					4.00	Wind Direction CLEAR
Total		12.50					3.25	0.75													5.50	1.25				24.00	Wind Strength 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: 6	Size: 159	IADC Code:	Manufacturer: HALLIBURTON	No: 1	Component: BIT	OD: 159	ID: 0	Length: 0.20m	Mud Type: Water	Water: 150	Oil: 0	Time: 15.00	Depth: 08:30	Deviation: 2026.45m	Direction: 1.4	Type: 43.4	From: 00:00	To: 00:30	Elapsed: 0.50	Code: B50	Details of Operations in Sequence & Remarks			
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY												
TI: TO: MDC: LOC: BRG:				Kelly Down: 0.00m, Total: 506.63m, Weight of DC: 0kdaN, Weight of String: 72kdaN				Pump No. 1, Pressure 6000, Strokes/min 65, Depth 2020				Boiler # 396, Hours Run 8, pH 11, Stack Temp 290				Safety Topic: TRIPPING IN, MEHL, MACP, 58.00kdaN, 3109kPa								

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

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG								
Bit Number: 6	Size: 159	IADC Code:	Manufacturer: HALLIBURTON	No: 1	Component: BIT	OD: 159	ID: 0	Length: 0.20m	Mud Type: Water	Water: 1240	Oil: 0	Time: 15.00	Depth: 08:30	Deviation: 2026.45m	Direction: 1.4	Type: 43.4	From: 08:00	To: 17:00	Elapsed: 9.00	Code: B2	Details of Operations in Sequence & Remarks			
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY												
TI: TO: MDC: LOC: BRG:				Kelly Down: -2.63m, Total: 2142.00m, Weight of DC: 0kdaN, Weight of String: 65kdaN				Pump No. 1, Pressure 3500, Strokes/min 50, Depth 2090				Boiler # 396, Hours Run 12, pH 11, Stack Temp 290				Safety Topic: TRIP IN, MEHL, MACP, 76.00kdaN, 3009kPa								

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	IADC Code:	Manufacturer: HALLIBURTON	No: 1	Component: BIT	OD: 159	ID: 0	Length: 0.20m	Mud Type: Water	Water: 1240	Oil: 0	Time: 15.00	Depth: 20:00	Deviation: 2143m	Direction: 17.1	Type: 82.8	From: 20:00	To: 23:30	Elapsed: 3.50	Code: B2	Details of Operations in Sequence & Remarks			
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY												
TI: TO: MDC: LOC: BRG:				Kelly Down: -28.13m, Total: 2175.00m, Weight of DC: 0kdaN, Weight of String: 65kdaN				Pump No. 1, Pressure 3800, Strokes/min 55, Depth 2175				Boiler # 396, Hours Run 4, pH 11, Stack Temp 290				Safety Topic: DERRICK CONNECTIONS, MEHL, MACP, 100.00kdaN, 3109kPa								

FRONT PAGE SUMMARY

License No 31525 Well Name ARCRES HZ SUNRISE J2-25-78-18 Tour Sheet Serial Number 052529_20160111_1A Pason Vendor Software Version Year 2016 Month 01 Day 11

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 Re-Entry
Signature of Operator Representative Sheldon Kashuba 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, Drillstem Test, Plug Back, Squeeze Cement, Fishing, Dir Work, Safety Meeting, Tear Down, Waiting On, Rig Watch, Other, TOTAL.

FUEL @ 08:00 HOURS: 11795.00, 06:00, -10.00. WEATHER: 12.00, 14.00, 24.00. Conditions: CLEAR, Wind Direction N, Wind Strength CALM, Frost Condition FAIR.

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

DRILLING ASSEMBLY: Bit Number 6, Size 159, IADC Code, Manufacturer HALLIBURTON, Type MM54R, Serial No 12381792, Jets 8.7, 8.7, 8.7, Depth Out (m) 2025, Total Drilled (m) 204, Hrs Run Today 6.25, Cumulative Hrs Run 18.75. CUTTING STRUCTURE: TI, TO, MDC, LOC, BRG. METRES DRILLED: From 2175m to 2229m. HOLE CONDITION: Kelly Down 7, Down 10, Torque at Bottom 6500.00Nm, Fill on Bottom 0.00m.

MUD RECORD: Mud Type Water, Other, Time 02:00, Density 1260, Funnel Viscosity 30s/l, Fluid Loss, pH, Location of Sample suction, Depth PVT. CIRCULATION: Pump# 1, Type SINGLE, Liner Size 140, SPM 87, Pressure 10500, Hours Run 7. DEVIATION SURVEYS: Time 01:30, Depth 217.13m, Deviation 22.6, Direction 74.9. SOLIDS CONTROL: Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density. MUD MATERIALS ADDED: Product, Amount, Type. BOILER: Boiler # 396, Hours Run 8, pH 10.5, Stack Temp 310.

TIME LOG: From 00:00 to 08:00. Details of Operations in Sequence & Remarks: 00:00-06:15 DRILL 159mm HOLE FROM 2175M- 2229M. 06:15-07:30 DIRECTIONAL SURVEYS/CONNECTIONS/TOOLFACE ORIENTATION. 07:30-07:45 RIG SERVICE/FUNCTION ANNUAL/ 22 SECONDS TO CLOSE. 07:45-08:00 SAFETY MEETING/CREW CHANGE MEETING. SAFETY: Safety Topic MEHL, MACP. DERRICK CONNECTIONS 100.00kdaN, 3109kPa.

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

DRILLING ASSEMBLY: Bit Number 6, Size 159, IADC Code, Manufacturer HALLIBURTON, Type MM54R, Serial No 12381792, Jets 8.7, 8.7, 8.7, Depth Out (m) 2260, Total Drilled (m) 235, Hrs Run Today 5.75, Cumulative Hrs Run 24.50. CUTTING STRUCTURE: TI 4, TO 2, MDC BT, LOC A, BRG X. METRES DRILLED: From 2229m to 2260m. HOLE CONDITION: Kelly Down 11, Down 11, Torque at Bottom 5000.00Nm, Fill on Bottom 0.00m.

MUD RECORD: Mud Type Water, Other, Time 08:00, Density 1250, Funnel Viscosity 30s/l, Fluid Loss, pH, Location of Sample SHAKERS, Depth 2226m, PVT 47m3. CIRCULATION: Pump# 1, Type SINGLE, Liner Size 140, SPM 87, Pressure 12000, Hours Run 12. DEVIATION SURVEYS: Time 08:15, Depth 2231.2m, Deviation 32.3, Direction 75. SOLIDS CONTROL: Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density. MUD MATERIALS ADDED: Product, Amount, Type. BOILER: Boiler # 396, Hours Run 12, pH 10.5, Stack Temp 310.

TIME LOG: From 08:00 to 20:00. Details of Operations in Sequence & Remarks: 08:00-13:45 DRILL 159MM HOLE FROM 2229M TO 2260M. 13:45-15:30 DIRECTIONAL SURVEYS/CONNECTION TIME. 15:30-15:45 RIG SERVICE FCT UPPER PIPE RAM 4 SEC TO CLOSE. 15:45-16:15 CIRCULATE BOTTOM UP PRIOR TO TRIP OUT. 16:15-16:30 SAFETY MEETING ON TRIPPING OUT REV COP 2-4. 16:30-18:45 TRIP OUT OF HOLE 10 MIN FLOW CHECK ON BOTTOM AND @2116,1151M,500M @ TOOL SUBOIL. 18:45-19:00 SAFETY MEETING WITH DD ON HANDLE BHA/AND CREW CHANGE MEETING. 19:00-19:45 DIRECTIONAL WORK,RACK BACK MONEL,DRAIN MOTOR, CHANGE OUT BIT. 19:45-20:00 SAFETY MEETING ON TRIP BACK IN HOLE REV COP 2-4. SAFETY: Safety Topic MEHL, MACP. HOUSEKEEPING 120.00kdaN, 2960kPa.

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

DRILLING ASSEMBLY: Bit Number 7, Size 159, IADC Code, Manufacturer SMITH, Type R613, Serial No JK9589, Jets 7.9, 7.9, 7.9, Depth Out (m) 2260, Total Drilled (m) 0.00, Hrs Run Today 0.00, Cumulative Hrs Run 0.00. CUTTING STRUCTURE: TI, TO, MDC, LOC, BRG. METRES DRILLED: From 2260m to 2260m. HOLE CONDITION: Kelly Down 11, Down 11, Torque at Bottom 5000.00Nm, Fill on Bottom 0.00m.

MUD RECORD: Mud Type Water, Other, Time 20:00, Density 1250, Funnel Viscosity 30s/l, Fluid Loss, pH, Location of Sample SHAKERS, Depth 2260m, PVT 47m3. CIRCULATION: Pump# 1, Type SINGLE, Liner Size 140, SPM 87, Pressure 10000, Hours Run 1. DEVIATION SURVEYS: Time 20:00, Depth 2260m, Deviation 32.3, Direction 75. SOLIDS CONTROL: Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density. MUD MATERIALS ADDED: Product, Amount, Type. BOILER: Boiler # 396, Hours Run 4, pH 10.5, Stack Temp 310.

TIME LOG: From 20:00 to 24:00. Details of Operations in Sequence & Remarks: 20:00-23:45 TRIP IN HOLE FILL PIPE EVERY 500M FLOW CHECK 10MIN @ 500M,1000M,TIGHT SPOT @ 1650M,WASH ND REAM F/1650-1683m. 23:45-24:00 RIG SERVICE/ FUNCTION LOWER PIPE RAMS/ 4 SECONDS TO CLOSE. SAFETY: Safety Topic MEHL, MACP. TRIPPING IN. 110.00kdaN, 3109kPa.

FRONT PAGE SUMMARY

License No 31525 Well Name ARGRES HZ SUNRISE J2-25-78-18
 Tour Sheet Serial Number 052529_20160112_1A Vendor Software Version Pason Year 2016 Month 01 Day 12
 Surface Location 12-25-078-18W6 Prov BC Loc Type DLS Unique Well Id 102/09-19-078-17W/00
 Operator ARC RESOURCES Contractor PRECISION DRILLING, DIV OF PDCLP Rig No 529 Well Type HORIZ
 Operator's AFE 16DRLO014 Contractor's Job No 75 Spud Date Time 2016/01/04 17:30
 Signature of Operator Representative Sheldon Kashuba Signature of Contractor's Rig Manager MARC RAYMOND Rig Release Date Time 2016/01/20 17:00

DAILY CHECKS

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

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	FUEL @ 08:00 HOURS
Tour 1		4.50				2.50	0.25													0.50	0.25					8.00
Tour 2		9.00			1.00		0.25													1.50	0.25					12.00
Tour 3		3.50					0.25													0.25						4.00
Total		17.00			1.00	2.50	0.75													2.25	0.50					24.00

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 7	Size 159	IADC Code	Manufacturer SMITH	Type R613	No 1	Component BIT	OD 159	ID 0	Length 0.20m	Mud Type	Water	Oil	Time 06:15	Depth 274.88m	Deviation 40.7	Direction 76	Type	From 00:00	To 02:30	Elapsed 2.50	Code BA	Details of Operations in Sequence & Remarks				
															TRIP IN HOLE AND WORK TIGHT HOLE/WASH TO BOTTOM FROM 2160M-2260M											
															DRILL 159MM HOLE FROM 2260M-2284M											
															DIRECTION SURVEYS/TOOLFACE ORIENTATION											
															RIG SERVICE/FUNCTION ANNUAL /4 SECONDS TO CLOSE											
															SAFETY MEETING/CREW CHANGE MEETING											

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 7	Size 159	IADC Code	Manufacturer SMITH	Type R613	No 1	Component BIT	OD 159	ID 0	Length 0.20m	Mud Type	Water	Oil	Time 08:30	Depth 2289.25m	Deviation 44.1	Direction 75.6	Type	From 08:00	To 12:30	Elapsed 4.50	Code BA	Details of Operations in Sequence & Remarks				
															DRILL 159MM HOLE FROM 2284M TO 2309M											
															DIRECTIONAL SURVEYS/CONNECTION TIME											
															RIG SERVICE FCT UPPER PIPE 4 SEC TO CLOSE											
															DISPLACE WELL BORE TO INVERT											
															DRILL 159MM HOLE FROM 2309M TO 2326M											
															DIRECTIONAL SURVEYS/CONNECTION TIME											
															CREW CHANGE MEETING											

TOUR 3 SIGNATURE OF DRILLER DUNCAN STEWAR **START TIME** 20:00 **END TIME** 24:00

BITS					DRILLING ASSEMBLY					MUD RECORD					DEVIATION SURVEYS					TIME LOG						
Bit Number 7	Size 159	IADC Code	Manufacturer SMITH	Type R613	No 1	Component BIT	OD 159	ID 0	Length 0.20m	Mud Type	Water	Oil	Time 20:00	Depth 2300	Deviation 23.00	Direction	Type	From 20:00	To 23:30	Elapsed 3.50	Code BA	Details of Operations in Sequence & Remarks				
															DRILL 159mm HOLE F/2326m- 2341M											
															DIRECTIONAL SURVEYS/CONNECTIONS/TOOL FACE ORIENTATION											
															RIG SERVICE/FUNCTION LOWER PIPE RAMS. 4 SEC TO CLOSE											

FRONT PAGE SUMMARY

License No 31525 Well Name ARCREES HZ SUNRISE J2-25-78-18

Tour Sheet Serial Number 052529_20160113_1A Pason Vendor Software Version 2016 01 13

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 16DRLO14 Signature of Operator Representative Dean Boehnert

Contractor PRECISION DRILLING, DIV OF PDCLP Contractor's Job No 75 Signature of Contractor's Rig Manager MARC RAYMOND

Well Type HORIZ Spud Date Time 2016/01/04 17:30 Rig Release Date Time 2016/01/20 17:00



Table with 25 columns for hours (1-25) and rows for Tour 1, 2, 3, and Total. Includes sub-headers for Rig Up, Actual, Reaming, Coring, etc.

TOUR 1 SIGNATURE OF DRILLER DUNCAN STEWART START TIME 00:00 END TIME 08:00

TOUR 1 Form containing sections: 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 JOSH GILBERT START TIME 08:00 END TIME 20:00

TOUR 2 Form containing sections: 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 DUNCAN STEWART START TIME 20:00 END TIME 24:00

TOUR 3 Form containing sections: 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.

FRONT PAGE SUMMARY

License No 31525 Well Name ARCREES HZ SUNRISE J2-25-78-18
 Tour Sheet Serial Number 0Y52529_20160114_1A
 Surface Location 12-25-078-18W6
 Vendor Software Version Pason
 Year 2016 Month 01 Day 14

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



Operator ARC RESOURCES
 Operator's AFE 16DRLO14
 Signature of Operator Representative Dean Boehner
 Contractor PRECISION DRILLING, DIV OF PDCLP
 Contractor's Job No 75
 Signature of Contractor's Rig Manager MARC RAYMOND
 Rig No 529
 Well Type HORIZ
 Spud Date Time 2016/01/04 17:30
 Rig Release Date Time 2016/01/20 17:00
 Re-Entry

CODE	HOURS																									TOTAL	FUEL @ 08:00 HOURS	WEATHER
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25			
	Rig 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			
Tour 1																												
Tour 2		2.00				1.50	4.25	0.25														2.00						
Tour 3		2.75					7.00	0.25		0.50											1.75	0.50						
Total		4.75				1.50	11.25	0.75		0.50											3.75	2.50						

TOUR 1 SIGNATURE OF DRILLER DUNCAN STEWART **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG			
Bit Number: 7	Size: 159	IADC Code:	Manufacturer: SMITH	Type: R613	Serial No: JK9589	Jets: 7.9, 7.9, 7.9, 7.9	Depth Out (m): 2452	Depth In (m): 2260	Total Drilled (m): 192	Hrs Run Today: 0.00	Cumulative Hrs Run: 37.25	Entry Date: 2016/01/10	Cutting Structure: TI 1, TO 3, MDC BC, LOC H, BRG X	Metres Drilled: From To, D-R-C, RPM, WOB	Hole Condition: Kelly Down, Total, Weight of DC, Weight of String	Reduced Pump Speed: Pump No., Pressure, Strokes/min, Depth	Boiler: Boiler #, Hours Run, pH, Stack Temp	Safety: Safety Topic, MEHL, MACP	
DRILLING ASSEMBLY No Component OD ID Length 1 BIT 159 0 0.20m 1 MOTOR HS 127 0 8.66m 1 NEAR BIT SUB 129 0 1.37m 1 NON MAG MONEL 121 68 9.35m 1 GAP SUB 125 74 1.71m 1 NON MAG MONEL 119 68 9.35m 1 NMDC 119 68 9.32m 1 X/O 134 61 0.94m 1 HWDP 140 72 46.80m 1 X/O 134 75 0.96m 1 JARS-HYD/MECH 134 75 5.19m 1 X/O 134 68 0.94m 14 SINGLES OF PIPE 114 68 411.84m				MUD RECORD Mud Type Water Oil Time 01:00 Density 1245 Funnel Viscosity 72s/l Fluid Loss pH Location of Sample SHAKERS Depth 2452m PVT 55m3				DEVIATION SURVEYS Time Depth Deviation Direction Type 17:00 2455.6m 78.1 78.5 17:45 2469.4m 80.2 80.4 18:15 2483m 82.6 82.1 19:00 2497.48m 85.4 83.1 19:30 2511m 87.9 84.7				TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks 00:00 01:30 1:50S CIRCULATE BOTTOMS UP, PUMP PILL WITH 10MIN FLOW CHECK @2451M AND SAFETY 01:30 01:45 0:25F MEETING WITH CREW PRIOR TO TRIPPING COP 2-4 01:45 05:00 3:25dB RIG SERVICE/FUNCTION ANNUAL, 23 SEC TO CLOSE 05:00 05:15 0:2521A TRIP OUT OF HOLE FROM 2452M TO 507M WITH 10MIN FLOW CHECKS @ 2319M, 1238M, 507MOM, TRI P VOL.TCV:10.55m3, TMV:12.00m3, DIFF:1.45m3 05:15 06:15 1:00BB SOUR BOP DRILL, USED ANNUAL 23 SECOND TO CLOSE, CREW WENT TO UP WIND MUSTER 06:15 07:30 1:2521A AREA, WELL SHUT IN WITH STABBING VALVE INSTALLED IN 2 MIN 34 SECONDS, TRIP OUT OF HOLE FROM 507M TO 60M 07:30 07:45 0:2521F SAFETY MEETING WITH DIRECTIONAL PRIOR TO HANDLING BHA 07:45 08:00 0:2521F ACCUMULATED FUNCTION TEST STARTING PRESSURE: 21MPA, PRESSURE REMAINING AFTER 5 MPA, N2 BOTTLES X4: 2100PSI, FUNCTION: 11MPA PRESSURE LOSS: 10MPA TIME TO RECHARGE: 2MIN 35SEC, PRECHARGE: 7							

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: 8	Size: 159	IADC Code:	Manufacturer: REED	Type: SK413M	Serial No: A210817	Jets: 12.7, 12.7, 8.7, 8.7	Depth Out (m): 2452	Depth In (m): 69	Total Drilled (m): 69	Hrs Run Today: 2.00	Cumulative Hrs Run: 2.00	Entry Date: 2016/01/14	Cutting Structure: TI, TO, MDC, LOC, BRG	Metres Drilled: From To, D-R-C, RPM, WOB	Hole Condition: Kelly Down, Total, Weight of DC, Weight of String	Reduced Pump Speed: Pump No., Pressure, Strokes/min, Depth	Boiler: Boiler #, Hours Run, pH, Stack Temp	Safety: Safety Topic, MEHL, MACP	
DRILLING ASSEMBLY No Component OD ID Length 1 BIT 159 0 0.20m 1 MOTOR 128 0 9.16m 1 MONEL 121 68 9.35m 1 GAP SUB 124 70 1.69m 2 MONEL 119 68 18.67m 1 X/O 134 61 0.94m 1 HWDP 134 61 9.36m 1 X/O 134 61 0.96m 1 SLIDE REAMER 150 63 1.41m 1 X/O 134 68 0.94m 15 4.5" DP 133 74 48.75m 1 X/O 133 74 0.96m 1 JARS/HYD MECH 133 62 5.19m				MUD RECORD Mud Type Water Oil Time 16:30 Density 1250 Funnel Viscosity 78s/l Fluid Loss pH Location of Sample SHAKERS Depth 2523m PVT 56m3				DEVIATION SURVEYS Time Depth Deviation Direction Type 17:00 2455.6m 78.1 78.5 17:45 2469.4m 80.2 80.4 18:15 2483m 82.6 82.1 19:00 2497.48m 85.4 83.1 19:30 2511m 87.9 84.7				TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks 08:00 09:15 1:2520 DIRECTIONAL WORK / MAKE UP BIT/ MOTOR/ PROGRAM MWD TOOL - FUNCTION BLIND 09:15 09:30 0:2521 RAMS OUT OF HOLE 09:30 10:15 0:75BA SAFETY MEETING PRIOR TO TRIP IN, COP 2-5 10:15 10:45 0:50BA TRIP IN HOLE FROM 60M- 560M. FILL PIPE AND FLOWCHECK @ 560M. 10:45 17:00 6:25BA SLIP/CUT DRILLING LINE/ COP 6-4B. FULL CALIBRATION / CROWN SAVER/ JG - UPPER LOWER STOPS/LIMITS CHECKED. 17:00 17:15 0:257 TRIP IN HOLE FROM 560M-2452M, 10 MIN FC'S @ 1200M FILL PIPE EVERY 600 METERS. WASH LAST STAND TO BOTTOM. CIRCULATE TRIP GAS 17:15 19:15 2:002 RIG SERVICE/ FUNCTION UPPER PIPE RAMS / 4 SECONDS TO CLOSE 19:15 19:45 0:5020A DIRECTIONAL SURVEYS/CONNECTIONS/ TOOLFACE ORIENTATION 19:45 20:00 0:2521 SAFETY MEETING/CREW CHANGE MEETING							

TOUR 3 SIGNATURE OF DRILLER DUNCAN STEWART **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG			
Bit Number: 8	Size: 159	IADC Code:	Manufacturer: REED	Type: SK413M	Serial No: A210817	Jets: 12.7, 12.7, 8.7, 8.7	Depth Out (m): 2452	Depth In (m): 185	Total Drilled (m): 185	Hrs Run Today: 2.75	Cumulative Hrs Run: 4.75	Entry Date: 2016/01/14	Cutting Structure: TI, TO, MDC, LOC, BRG	Metres Drilled: From To, D-R-C, RPM, WOB	Hole Condition: Kelly Down, Total, Weight of DC, Weight of String	Reduced Pump Speed: Pump No., Pressure, Strokes/min, Depth	Boiler: Boiler #, Hours Run, pH, Stack Temp	Safety: Safety Topic, MEHL, MACP	
DRILLING ASSEMBLY No Component OD ID Length 1 BIT 159 0 0.20m 1 MOTOR 128 0 9.16m 1 MONEL 121 68 9.35m 1 GAP SUB 124 70 1.69m 2 MONEL 119 68 18.67m 1 X/O 134 61 0.94m 1 HWDP 134 61 9.36m 1 X/O 134 61 0.96m 1 SLIDE REAMER 150 63 1.41m 1 X/O 134 68 0.94m 15 4.5" DP 133 74 48.75m 1 X/O 133 74 0.96m 1 JARS/HYD MECH 133 62 5.19m				MUD RECORD Mud Type Water Oil Time 20:00 23:00 Density 1280 1300 Funnel Viscosity 76s/l 75s/l Fluid Loss pH Location of Sample SHAKERS SHAKERS Depth 2523m 2510m PVT 56m3 57m3				DEVIATION SURVEYS Time Depth Deviation Direction Type 20:15 2525.6m 90.3 83.6 20:30 2539.5m 90.8 83.9 21:00 2553.64m 91.3 83.6 21:30 2567.5m 90.6 84.3 22:00 2581.72m 90.4 85 22:30 2596m 90.5 85.2 23:00 2609.8m 89.6 89.5				TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks 20:00 22:45 2:752 DRILL FROM 2521M TO 2637M 22:45 23:45 1:0020A DIRECTIONAL SURVEYS/CONNECTIONS 23:45 24:00 0:257 RIG SERVICE/FUNCTION LOWER PIPE RAMS 4 SECONDS TO CLOSE							

FRONT PAGE SUMMARY

License No 31525 Well Name ARCCRES HZ SUNRISE J2-25-78-18

Tour Sheet Serial Number 052529_20160115_1A Pason Prov BC Loc Type DLS Unique Well Id 102/09-19-078-17W6/00

Year 2016 Month 01 Day 15

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

OP RM table with columns for DB, MR, and other status indicators. Includes logos for CAODC and Pason.

Operator ARC RESOURCES
Operator's AFE 16DRLO04
Signature of Operator Representative Dean Boehner

Contractor PRECISION DRILLING, DIV OF PDCLP
Contractor's Job No 75
Signature of Contractor's Rig Manager MARC RAYMOND

Rig No 529
Well Type HORIZ
Spud Date Time 2016/01/04 17:30
Rig Release Date Time 2016/01/20 17:00

Table with 25 columns for hours (1-25) and rows for Tour 1, 2, 3, and Total. Includes a 'TOTAL' column and a 'WEATHER' section on the right.

TOUR 1 SIGNATURE OF DRILLER DUNCAN STEWART 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, and HOLE CONDITION.

TOUR 2 SIGNATURE OF DRILLER JOSH GILBERT 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, and HOLE CONDITION.

TOUR 3 SIGNATURE OF DRILLER DUNCAN STEWART 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, and HOLE CONDITION.

FRONT PAGE SUMMARY

License No 31525 Well Name ARCREES HZ SUNRISE J2-25-78-18
Tour Sheet Serial Number 052529_20160116_1A
Pason Prov BC Loc Type DLS Unique Well Id 102/09-19-078-17W/00
Operator ARC RESOURCES
Contractor PRECISION DRILLING, DIV OF PDCLP
Rig No 529
Well Type HORIZ
Signature of Operator Representative Dean Boehner
Signature of Contractor's Rig Manager MARC RAYMOND

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, Drillem 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 DUNCAN STEWART START TIME 00:00 END TIME 08:00

TOUR 1 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 bits, mud properties, deviation surveys, and safety notes.

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

TOUR 2 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 bits, mud properties, deviation surveys, and safety notes.

TOUR 3 SIGNATURE OF DRILLER DUNCAN STEWART START TIME 20:00 END TIME 24:00

TOUR 3 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 bits, mud properties, deviation surveys, and safety notes.

FRONT PAGE SUMMARY

License No 31525 Well Name ARCREES HZ SUNRISE J2-25-78-18

Tour Sheet Serial Number 0Y52529_20160117_1A

Vendor Software Version Pason Year 2016 Month 01 Day 17

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 16DRLO014 Signature of Operator Representative Dean Boehner

Contractor PRECISION DRILLING, DIV OF PDCLP Contractor's Job No 75 Signature of Contractor's Rig Manager MARC RAYMOND

Rig No 529 Well Type HORIZ Spud Date Time 2016/01/04 17:30 Rig Release Date Time 2016/01/20 17:00

Table with 25 columns (CODE 1-25) and 10 rows (Tour 1-3, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, etc. Includes a 'TOTAL' column and a 'WEATHER' section on the right.

TOUR 1 SIGNATURE OF DRILLER DUNCAN STEWART START TIME 00:00 END TIME 08:00

TOUR 1 Form: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, Boiler, SAFETY.

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

TOUR 2 Form: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, Boiler, SAFETY.

TOUR 3 SIGNATURE OF DRILLER DUNCAN STEWART START TIME 20:00 END TIME 24:00

TOUR 3 Form: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, Boiler, SAFETY.

FRONT PAGE SUMMARY

License No 31525 Well Name ARCREES HZ SUNRISE J2-25-78-18

Tour Sheet Serial Number 052529_20160118_1A Surface Location 12-25-078-18W6

Vendor Software Version Pason Year 2016 Month 01 Day 18

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 Dean Boehner
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, Conud 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 DUNCAN STEWART 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 JOSH GILBERT 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 DUNCAN STEWART 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 31525 Well Name ARGRES HZ SUNRISE J2-25-78-18
Tour Sheet Serial Number 0752529_20160119_1A
Surface Location 12-25-078-18W6
Vendor Software Version Pason
Year 2016 Month 01 Day 19
Prov BC Loc Type DLS Unique Well Id 102/09-19-078-17W6/00
Operator ARC RESOURCES
Contractor PRECISION DRILLING, DIV OF PDCLP
Rig No 529
Well Type HORIZ
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



Table with 25 columns for CODE 1-25 and rows for RIG HOURS (Tour 1, Tour 2, Tour 3, Total). Includes columns for Rig Up, Drill Actual, Reaming, Coring, Concl 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 section.

TOUR 1 SIGNATURE OF DRILLER DUNCAN STEWART 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 drilling parameters, mud properties, and safety notes.

TOUR 2 SIGNATURE OF DRILLER JOSH GILBERT 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 drilling parameters, mud properties, and safety notes.

TOUR 3 SIGNATURE OF DRILLER DUNCAN STEWART 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 drilling parameters, mud properties, and safety notes.

FRONT PAGE SUMMARY

License No 31525 Well Name ARGRES HZ SUNRISE J2-25-78-18
 Tour Sheet Serial Number 052529_20160120_1A Pason Vendor Software Version 2016 01 20
 Surface Location 12-25-078-18W6 Prov BC Loc Type DLS Unique Well Id 102/09-19-078-17W6/00
 Operator ARC RESOURCES Contractor PRECISION DRILLING, DIV OF PDCLP Rig No 529 Well Type HORIZ Re-Entry
 Operator's AFE 16DRLO14 Contractor's Job No 75 Spud Date Time 2016/01/04 17:30
 Signature of Operator Representative Dean Boehner Signature of Contractor's Rig Manager MARC RAYMOND Rig Release Date Time 2016/01/20 17:00

DAILY CHECKS

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

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 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	
Tour 1					3.50		0.25					4.00									0.25					8.00
Tour 2					0.50							5.25									0.75					12.00
Tour 3																						4.00				4.00
Total					4.00		0.25					9.25									1.00		4.00			24.00

FUEL @ 08:00 HOURS

Rig	11000.00	Water	0.00
Time	06:00	Water	-11.00
Current Conditions	Clear	Wind Direction	Wind Strength
Final Condition	FAIR	Final Condition	CALM

TOUR 1 SIGNATURE OF DRILLER DUNCAN STEWART **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG													
Bit Number	Size	IADC Code	Manufacturer	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks								
												08:00					00:00	04:00	4.00	H2	RUN CASING Ran 144 joints 114.3mm 22.47 kg/m P110 LT&C casing.37 Joints								
												0										114.3mm, 20.10kg/m, VA-EP-P110 VAROUGHNECK, Plus 154 joints 114.3mm 22.47 kg/m P110 LT&C casing (See casing Details in Time Log notes)							
																		04:00	04:15	0.25	H5	RIG SERVICE/FUNCTION ANNUAL 23 SECONDS TO CLOSE (PRESSURE SET TO 4 MPA)							
																		04:15	07:45	3.50	H5	CIRCULATE BOTTOMS UP(46.6m3)							
																		07:45	08:00	0.25	H1	HAND OVER MEETING AND PLAN FORWARD MEETING WITH ARC REP							
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY																	
TI	TO	MDC	LOC	BRG	Drill Pipe	Stands	Drill Pipe	Singles	Kelly Down	Total	Weight of DC	Weight of String	Hole Drag	Up	Down	Torque at Bottom	Fill on Bottom	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic	MEHL	MACP	
																			2	2600	52	4411	396	8	10	210	Running casing	100.00kdaN	2263kPa

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	Size	IADC Code	Manufacturer	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks								
												08:00					08:00	08:15	0.25	H1	SAFETY MEETING COP 4-1								
												0						08:15	10:00	1.75	H2C	RIG UP CEMENTERS,PRESSURE TEST IRON 40MPA,PUMP 18.57m3 OF 3% KCL WATER @ 5m3/MIN. TO DISPLACE LATERAL_PUMP 1m3 OF HIGH VIS SLUG,SHUT DOWN AND DROP THE 1.25" SETTING BALL,PUMP 1m3 OF HIGH VIS PILL,PUMP 10.39m3 KCL AND 5M3 SUGAR WATER.							
																		10:00	10:30	0.50	H2C	SWITCH TO INVERT 16.44m3 TO SEAT BALL,Pressure up to 16.5mpa for 30 mins. Bleed off & drop 1.5" ball, bring pressure up to 22mpa to open stage tool							
																		10:30	11:00	0.50	H5	PUMP 29.98M3 INVERT BOTTOMS UP							
																		11:00	13:30	2.50	H2C	CEMENT WITH 5.0M3 OPTIFLUSH W/S-4 & MS-7, FILL CEMENT 25.4 TONNE (31.70M3) TITANIUM 1500, PUMP TAIL CEMENT 15TONNE (11.96M3) GASTIGHT 1850							
																		13:30	14:00	0.50	H2C	CONT.-CEMENT WITH 5.0M3 OPTIFLUSH W/S-4 & MS-7, FILL CEMENT 27.06 TONNE (34.27M3) TITANIUM 1500, PUMP TAIL CEMENT 15TONNE (11.96M3) GASTIGHT 1850, DISPLACE W/ 19.45M3 INHIBITED WATER. 710.M3 RETURNS. PLUG DOWN @ 1300HR.01/20/2016							
																		14:00	14:15	0.25	H1	SAFETY MEETING PRIOR TO NIPPLE DOWN/ COP 5-5							
																		14:15	18:00	3.75	H4B	NIPPLE DOWN BOP,CLEAN TANKS AND TEAR OUT FOR SKID. SET CASING SLIPS @ 65 DECN.							
																		18:00	19:45	1.75	H4E	S/M AND INSTALL WELL HEAD TREE							
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY																	
TI	TO	MDC	LOC	BRG	Drill Pipe	Stands	Drill Pipe	Singles	Kelly Down	Total	Weight of DC	Weight of String	Hole Drag	Up	Down	Torque at Bottom	Fill on Bottom	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic	MEHL	MACP	
																			1				396	12	11	320	Cementing	100.00kdaN	2263kPa

TOUR 3 SIGNATURE OF DRILLER DUNCAN STEWART **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG													
Bit Number	Size	IADC Code	Manufacturer	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks								
																	20:00	24:00	4.00	H2	RIG OUT MUD TANKS,CATWALK,PUMPS,GENS,RIG FLOOR,THIRD PARTY EQUIPMENT,BLOW WATER AND STEAM LINES,RIG RELESD @ 23:59hrs ON JAN 20/2016								
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY																	
TI	TO	MDC	LOC	BRG	Drill Pipe	Stands	Drill Pipe	Singles	Kelly Down	Total	Weight of DC	Weight of String	Hole Drag	Up	Down	Torque at Bottom	Fill on Bottom	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic	MEHL	MACP	
																			1				396	4	11	330	Tear out	15.00kdaN	0kPa