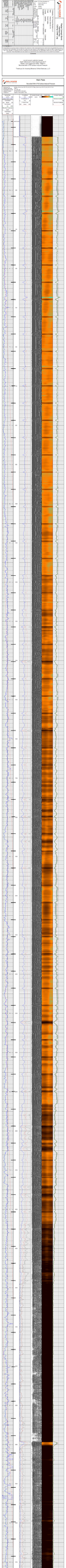
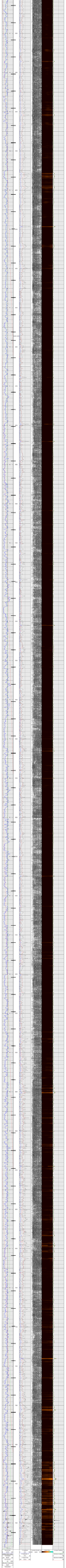

Mud Logging Services
Geological Report
Well Name: Mars Pluto
Location: Nevada USA
Field: Mars Pluto
Operator: Mars Pluto Energy Corp
Contractor: Mars Pluto Drilling Co
Rig Name: Mars Pluto Rig 1
Rig Type: Land Rig
Elevation: 1,234 ft
Spud Date: 01/01/2024
Total Depth: 10,000 ft
Mud Logging Unit: Unit 1
Logging Engineer: John Smith
Geologist: Jane Doe
Mud Engineer: Bob Johnson
Mud Type: Water Based Mud
Mud Weight: 9.5 ppg
Viscosity: 45 sec/qt
Fluid Loss: 5 cc/30 min
pH: 9.5
Chlorides: 50,000 mg/l
Calcium: 200 mg/l
Gel Strength: 10/20 lb/100 ft²
Yield Point: 15 lb/100 ft²
Plastic Viscosity: 20 cp
Solids: 10%
Oil: 5%
Water: 85%
Sand: 1%
Lithology
Shale
Sandstone
Limestone
Dolomite
Coal
Anhydrite
Salt
Gas Show
Oil Show
Fluorescence
Cut
Residual
Total Gas
Connection Gas
Trip Gas
Background Gas
Chromatograph
C1
C2
C3
iC4
nC4
iC5
nC5
C6
Drilling Rate
Weight on Bit
Rotary Speed
Torque
Standpipe Pressure
Casing Pressure
Pump Rate
Mud Weight In
Mud Weight Out
Temperature In
Temperature Out
Gamma Ray
Resistivity
Density
Neutron
Caliper
Sonic
Formation Tops
Casing Shoe
Kick
Lost Circulation
Stuck Pipe
Directional Survey
Core
DST
Wireline Log
Mars Pluto
Nevada USA
Mars Pluto Energy Corp
Mars Pluto Drilling Co
Mars Pluto Rig 1
Land Rig
1,234 ft
01/01/2024
10,000 ft
Unit 1
John Smith
Jane Doe
Bob Johnson
Water Based Mud
9.5 ppg
45 sec/qt
5 cc/30 min
9.5
50,000 mg/l
200 mg/l
10/20 lb/100 ft²
15 lb/100 ft²
20 cp
10%
5%
85%
1%
Lithology
Shale
Sandstone
Limestone
Dolomite
Coal
Anhydrite
Salt
Gas Show
Oil Show
Fluorescence
Cut
Residual
Total Gas
Connection Gas
Trip Gas
Background Gas
Chromatograph
C1
C2
C3
iC4
nC4
iC5
nC5
C6
Drilling Rate
Weight on Bit
Rotary Speed
Torque
Standpipe Pressure
Casing Pressure
Pump Rate
Mud Weight In
Mud Weight Out
Temperature In
Temperature Out
Gamma Ray
Resistivity
Density
Neutron
Caliper
Sonic
Formation Tops
Casing Shoe
Kick
Lost Circulation
Stuck Pipe
Directional Survey
Core
DST
Wireline Log



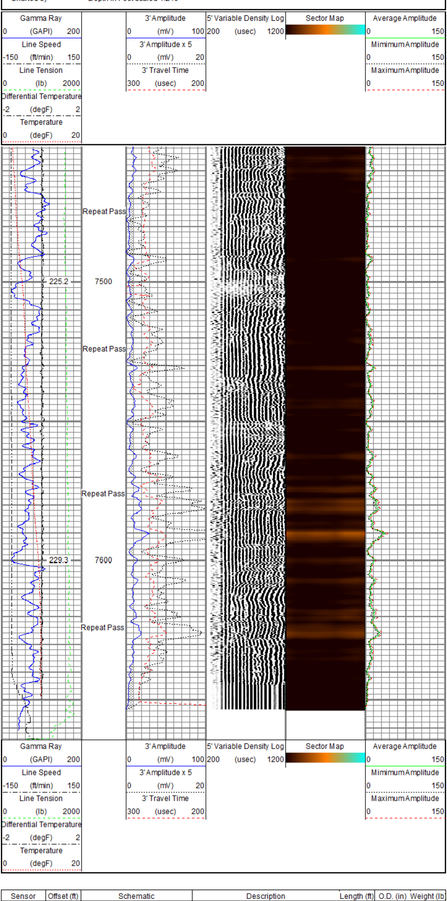
| | |
|---|---|
| 0 (degF) | 20 |

RELIANCE OILFIELD SERVICES

# Repeat Pass

## Recorded With 0 PSI Surface Induced Pressure

| | |
|---|---|
| Database File | tep\tep_chevron gm 432-19_rbl_02-01-21\tep_chevron gm 432-19_rbl_02-01-21.db |
| Dataset Pathname | repeat.2 |
| Presentation Format | ros_radii_tep |
| Dataset Creation | Fri Feb 05 09:19:33 2021 |
| Charted by | Depth in Feet scaled 1:240 |




| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|---|---|---|---|---|---|---|
| | | | Titan CHD-14375 GO<br>Titan 1-7/16" Assembled Electric Cable Head with 1° Fishing Neck | 1.03 | 1.44 | 3.60 |
| | | | BTA-MUD<br>BTA 2-3/4" Roller 6 Arm Centralizer with Reversible Ends | 2.92 | 2.72 | 25.00 |
| TEMP | 14.19 | | | | | |
| | | | Probe Radii-2750 RBT (ROFS-RBT-0002)<br>Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub | 9.39 | 2.75 | 105.00 |
| WVFS8 | 11.96 | | | | | |
| WVFS7 | 11.96 | | | | | |
| WVFS6 | 11.96 | | | | | |
| WVFS5 | 11.96 | | | | | |
| WVFS4 | 11.96 | | | | | |
| WVFS3 | 11.96 | | | | | |
| WVFS2 | 11.96 | | | | | |
| WVFS1 | 11.96 | | | | | |
| WVFCAL | 11.96 | | | | | |
| WVF3FT | 11.96 | | | | | |
| WVF5FT | 10.96 | | | | | |
| | | | BTA-MUD<br>BTA 2-3/4" Roller 6 Arm Centralizer with Reversible Ends | 2.92 | 2.72 | 25.00 |
| CCL | 3.88 | | | | | |
| | | | Probe GR-CCL ANL-2750 A (FW1305-083)<br>Probe 2.75" Analog 4 Channel Pulse Gamma Ray/CCL Combined | 4.54 | 2.75 | 55.00 |
| GR | 1.14 | | | | | |
| | | | GO BN-14375<br>GO 1-7/16" Bull Nose with Go Box Top | 0.25 | 1.44 | 1.00 |

| | |
|---|---|
| Dataset: | tep_chevron gm 432-19_rbl_02-01-21.db: field\well\run1\main.4 |
| Total length: | 21.06 ft |
| Total weight: | 214.60 lb |
| O.D.: | 2.75 in |

## Calibration Report

| | |
|---|---|
| Database File | c:\programdata\warrior\data\tep\tep_chevron gm 432-19_rbl_02-01-21\tep_chevron gm 432-19_rbl_02-01-2 |
| Dataset Pathname | main.4 |
| Dataset Creation | Fri Feb 05 09:13:59 2021 |

### Gamma Ray Calibration Report

| | | |
|---|---|---|
| Serial Number: | FW1305-083 | |
| Tool Model: | 2750 A | |
| Performed: | Sun Nov 12 05:37:57 2017 | |
| Calibrator Value: | 637.0 | GAPI |
| Background Reading: | 95.7 | cps |
| Calibrator Reading: | 982.0 | cps |
| Sensitivity: | 0.7188 | GAPI/cps |

### Segmented Cement Bond Log Calibration Report

| | | |
|---|---|---|
| Serial Number: | ROFS-RBT-0002 | |
| Tool Model: | 2750 RBT | |
| Calibration Casing Diameter: | 4.500 | in |
| Calibration Depth: | 31.479 | ft |

Master Calibration, performed (Derived):

| | Raw (v) | | Calibrated (mv) | | Results | |
|---|---|---|---|---|---|---|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| 3' | 0.004 | 0.642 | 0.800 | 81.196 | 125.994 | 0.341 |
| CAL | 0.003 | 0.764 | | | | |
| 5' | 0.007 | 0.674 | 0.800 | 81.196 | 120.488 | 0.005 |
| SUM | | | | | | |
| S1 | 0.003 | 0.581 | 0.000 | 100.000 | 173.049 | -0.525 |
| S2 | 0.010 | 0.618 | 0.000 | 100.000 | 164.350 | -1.601 |
| S3 | 0.008 | 0.656 | 0.000 | 100.000 | 154.266 | -1.266 |
| S4 | 0.006 | 0.692 | 0.000 | 100.000 | 145.735 | -0.905 |
| S5 | 0.006 | 0.683 | 0.000 | 100.000 | 147.612 | -0.892 |
| S6 | 0.005 | 0.654 | 0.000 | 100.000 | 154.020 | -0.737 |
| S7 | 0.004 | 0.612 | 0.000 | 100.000 | 164.629 | -0.740 |
| S8 | 0.007 | 0.606 | 0.000 | 100.000 | 166.820 | -1.170 |

Internal Reference Calibration, performed (Not Performed):

| | Raw (v) | | Calibrated (v) | | Results | |
|---|---|---|---|---|---|---|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| CAL | 0.000 | 0.000 | 0.003 | 0.764 | 1.000 | 0.000 |

Air Zero Calibration, performed Mon Feb 1 11:12:18 2021:

| | Raw (v) | Calibrated (v) | Results |
|---|---|---|---|
| | Zero | Zero | Offset |
| 3' | 0.000 | 0.000 | 0.000 |
| 5' | 0.000 | 0.000 | 0.000 |
| SUM | | | |
| S1 | 0.000 | 0.000 | 0.000 |
| S2 | 0.000 | 0.000 | 0.000 |
| S3 | 0.000 | 0.000 | 0.000 |
| S4 | 0.000 | 0.000 | 0.000 |
| S5 | 0.000 | 0.000 | 0.000 |
| S6 | 0.000 | 0.000 | 0.000 |
| S7 | 0.000 | 0.000 | 0.000 |
| S8 | 0.000 | 0.000 | 0.000 |

### Temperature Calibration Report

| | | |
|---|---|---|
| Serial Number: | ROFS-RBT-0002 | |
| Tool Model: | 2750 RBT | |
| Performed: | Wed Oct 14 10:20:48 2020 | |
| | Reference | Reading |
| Low Reference: | 100.00 degF | 109.31 degF |
| High Reference: | 235.00 degF | 267.00 degF |
| Gain: | 0.86 | |
| Offset: | 6.43 | |
| Delta Spacing | 1 | |

RELIANCE OILFIELD SERVICES

| | |
|---|---|
| Company | TEP Rocky Mountain LLC |
| Well | Chevron GM 432-19 |
| Field | Grand Valley |
| County | Garfield |
| State | Colorado |