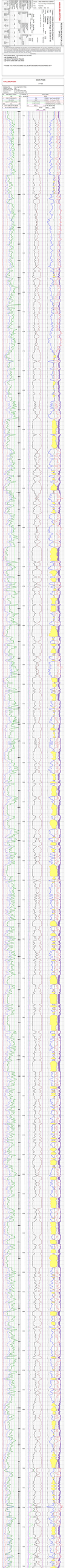
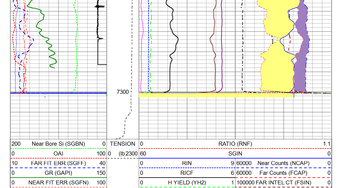

Schlumberger
Depth Control Log
Gamma Ray
Caliper
Bit Size
Neutron Porosity
Density
Photoelectric Factor
Resistivity
Deep Resistivity
Medium Resistivity
Shallow Resistivity
Spontaneous Potential
Mud Weight
Mud Resistivity
Mud Filtrate Resistivity
Mud Cake Resistivity
Bottom Hole Temperature
Rig Time
Date
Run Number
Depth Driller
Depth Logger
Bottom Logged Interval
Top Logged Interval
Casing Driller
Casing Logger
Bit Size
Type Fluid in Hole
Density / Viscosity
pH / Fluid Loss
Source of Sample
Rm @ Measured Temperature
Rmf @ Measured Temperature
Rmc @ Measured Temperature
Source of Rmf / Rmc
Rm @ BHT
Time Since Circulation
Max Recorded Temperature
Equipment Number
Location
Recorded By
Witnessed By
Run 1
Run 2
Run 3
Service Order
Permanent Datum
Elevation
Log Measured From
Drilling Measured From
Elevation of Kelly Bushing
Elevation of Derrick Floor
Elevation of Ground Level
Permanent Datum




HALLIBURTON

MAIN PASS

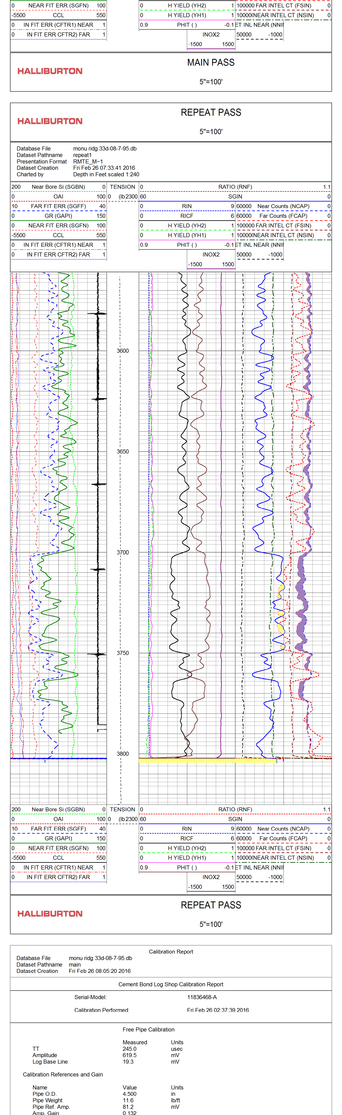
5"=100'

HALLIBURTON

REPEAT PASS

5"=100'

Database File monu rdg 33d-08-7 95.db
Dataset Pathname repeat1
Presentation Format RMTE_M~1
Dataset Creation Fri Feb 26 07:33:41 2016
Charted by Depth in Feet scaled 1:240




HALLIBURTON

REPEAT PASS

5"=100'

Calibration Report

Database File monu rdg 33d-08-7 95.db
Dataset Pathname main
Dataset Creation Fri Feb 26 08:05:20 2016

Cement Bond Log Shop Calibration Report

Serial-Model: 11836468-A

Calibration Performed: Fri Feb 26 02:37:39 2016

Free Pipe Calibration

| | Measured | Units |
|---|---|---|
| TT | used | |
| Amplitude | 619.5 | mV |
| Log Base Line | 19.3 | mV |

Calibration References and Gain

| Name | Value | Units |
|---|---|---|
| Pipe O.D. | 4.500 | in |
| Pipe Weight | 11.6 | lb/ft |
| Pipe Ref. Amp. | 81.2 | mV |
| Amp. Gain | 0.132 | |

Reservoir Monitor Tool I Calibration Report

Serial-Model: 12270693-A

Shop Calibration Performed: Fri Feb 12 14:31:42 2016

Carbon/Oxygen Mode

Stabilization

| Result | Logged | Expected Value | Diff. | Tol. | Units |
|---|---|---|---|---|---|
| GENV | 93.00 | 80.00 | 13.00 | +/-15.00 | V |
| ITCR2 | 3235 | 3250 | -15 | +/-250 | cps |

Near Detector

| | Channel | Expected Value | Amplitude | FWHM | Tol. |
|---|---|---|---|---|---|
| H | 60 | 60 +/-2 | 0.0267 | 5.38 | <6.00 |
| Fe | 206 | 206 +/-2 | 0.0959 | ----- | ----- |
| NGAIN = 0.997 | N2OFF = 0.2 | | | | |

Far Detector

| | Channel | Expected Value | Amplitude | FWHM | Tol. |
|---|---|---|---|---|---|
| H | 60 | 60 +/-2 | 0.0342 | 6.01 | <6.50 |
| Fe | 209 | 208 +/-2 | 0.0911 | ----- | ----- |
| FGAIN = 0.991 | F2OFF = 0.6 | | | | |

Flask Temperature

55.3 degF

| Result | Logged | Expected Value | Diff. | Tol. | Units |
|---|---|---|---|---|---|
| COIR2 | 0.45 | 0.45 | -0.00 | +/-0.02 | |
| LIR2 | 1.36 | 1.36 | 0.00 | +/-0.05 | |
| TCCR2 | 5189 | 5000 | 189 | +/-1000 | cps |
| ITCR2 | 3213 | 3200 | 13 | +/-250 | cps |

Sigma Mode

Stabilization

| Result | Logged | Expected Value | Diff. | Tol. | Units |
|---|---|---|---|---|---|
| GENV | 93.00 | 80.00 | 13.00 | +/-15.00 | V |
| FCAP | 9709 | 10000 | -291 | +/-500 | cps |

Horizontal Water Tank

| Result | Logged | Expected Value | Diff. | Tol. | Units |
|---|---|---|---|---|---|
| N/F Normalizer | 1.00 | 0.95 | 0.05 | | |
| N/F Inel Norm | 0.65 | 0.61 | 0.04 | | |
| RNF | 1.00 | 1.07 | -0.07 | +/-0.12 | |
| RINC | 1.54 | 1.64 | -0.10 | +/-0.18 | |
| SGFN | 24.10 | 24.00 | 0.10 | +/-0.50 | cu |
| SGFF | 22.94 | 22.85 | 0.09 | +/-0.50 | cu |
| FSIN | 23109 | 24000 | -891 | +/-2000 | cps |
| FCAP | 9760 | 10000 | -240 | +/-1000 | cps |
| NFTR | 0.80 | | | +/-5.00 | |
| FFTR | 0.87 | | | +/-5.00 | |
| NBKG | 160 | | | +/-500 | cps |
| FBKG | 170 | | | +/-500 | cps |
| RTN | 0.39 | 0.40 | -0.01 | +/-0.10 | usec |
| RTF | 0.41 | 0.40 | 0.01 | +/-0.10 | usec |

Calibration Software Modules

| | |
|---|---|
| HRMT1 Module | 2015.5.4.0 |
| RMT1 Module | 2015.5.15.1 |

Log Data Acquisition Software Modules

| | |
|---|---|
| HRMT1 Module | 2015.5.4.0 |
| RMT1 Module | 2015.5.15.1 |

Gamma Ray Calibration Report

Type / Serial: 002 / 11527445

SHOP CALIBRATION Fri Feb 12 13:43:57 2016

| | Counts/Sec | Gain | Offset | Jig | Units |
|---|---|---|---|---|---|
| Background | 24.6 | | | | cps |
| Calibrator | 314.1 | | | | cps |
| | | 1.4958 | | | GAPI/cps |

PRIMARY VERIFICATION

| | | | |
|---|---|---|---|
| Background | 36.1 | | cps |
| Calibrator | 466.2 | | cps |
| Difference | | 430.1 | GAPI |

BEFORE SURVEY VERIFICATION

| | | | |
|---|---|---|---|
| Background | 0.0 | | cps |
| Calibrator | 0.0 | | cps |
| Difference | | 0.0 | GAPI |

AFTER SURVEY VERIFICATION

| | | | |
|---|---|---|---|
| Background | 0.0 | | cps |
| Calibrator | 0.0 | | cps |
| Difference | | 0.0 | GAPI |

| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|---|---|---|---|---|---|---|
| | | | STNDCH-STND_CH<br>T.40TN D-CABLE HEAD | 1.50 | 1.44 | 1.00 |
| CCL | 35.82 | | | | | |
| GR | 33.56 | | TTTCU-002 (11527445)<br>Through Tubing Telemetry Cartridge - Ultrawire | 7.65 | 1.69 | 30.00 |
| | | | XHU-003 (11983708)<br>Crossover Halliburton 1553 to Ultrawire | 1.58 | 1.69 | 7.00 |
| RmtTFGT | 22.91 | | | | | |
| RmtTNGT | 22.41 | | RMTI-A (12270693)<br>Halliburton RMTI Tool | 14.00 | 2.13 | 77.00 |
| RmtFPSV | 14.66 | | X-OVER-GooSondex<br>Go Box x Sondex Pin CrossOver | 0.27 | 1.69 | 1.00 |
| RmtNFwMod | P14.66 | | CENT-CASTM-CENT | 2.16 | 3.13 | 25.00 |
| RmtCommFW | a14.66 | | CAST M INLINE CENTRALIZER | | | |
| Temp | 9.57 | | | | | |
| TT3FT | 7.32 | | HCBLM-A (11836468)<br>Halliburton HCBLM Tool | 9.38 | 2.75 | 116.00 |
| AMP3FT | 7.32 | | | | | |
| WVF3FT | 6.36 | | | | | |
| WVF3HT | 2.84 | | CENT.-CASTM-CENT<br>CAST M INLINE CENTRALIZER | 2.16 | 3.13 | 25.00 |
| | | | AUH-001 (11072111)<br>Adaptor Ultrawire/Halliburton | 0.38 | 1.69 | 3.00 |
| LLMTEN | 0.00 | | BUL-001 (000001)<br>Bullnose | 0.30 | 1.69 | 1.50 |

Dataset: monu rdg 33d-08-7 95.db: field/well/run1/main
Total length: 39.39 ft
Total weight: 286.50 lb
O.D.: 3.13 in

| | |
|---|---|
| Company | URSA OPERATING COMPANY |
| Well | Monument Ridge B 33D-08-07-95 |
| Field | Parachute |
| County | Garfield |
| State | CO |

HALLIBURTON

RESERVOIR MONITOR LOG
GR-CCL