| | |
|---|---|
| Company | Castle Resources, Inc. |
| Well | Beesley #1 |
| Field | Jim |
| County | Gove |
| State | Kansas |
| Date | 10/15/2009 |
| Time | 11:47:01 |
| Depth | 3900 ft |
| Fluid | Water |
| Rmf | 0.0000 ohm-m |
| Rmc | 0.0000 ohm-m |
| Rm | 0.0000 ohm-m |
| Rmf Temp | 0.0 F |
| Rmc Temp | 0.0 F |
| Rm Temp | 0.0 F |
| Max Rec Temp | 0.0 F |
| Bit Size | 7.875 in |
| Elev | 2788 ft |
| Log Date | 15-Oct-09 |
| Run Number | ONE |
| Depth Driller | 3900 ft |
| Depth Logger | 3900 ft |
| Casing Driller | 224 ft @ 224 ft |
| Casing Logger | 224 ft |
| Bit Run | ONE |
| Top Log Int | 0 ft |
| Btm Log Int | 3900 ft |
| Type Fluid | WATER |
| Density | 0.0 lb/gal |
| Viscosity | 0.0 s |
| Fluid Loss | 0.0 cc |
| Source Rmf | MEASURED |
| Source Rmc | MEASURED |
| Source Rm | MEASURED |
| Rmf @ Temp | 0.000 ohm-m @ 0.0 F |
| Rmc @ Temp | 0.000 ohm-m @ 0.0 F |
| Rm @ Temp | 0.000 ohm-m @ 0.0 F |
| Max Rec Temp | 0.0 F |
| Equipment | 5704 |
| Location | 5 MILES N TO LEWIS |
| Recorded By | JOHN BRAY |
| Witnessed By | JERRY GREEN |

MICROSESSITY

Company Castle Resources, Inc.
Well Beesley #1
Field Jim
County Gove
State Kansas

All interpretations are opinions based on inferences from electrical or other measurements and Mideast Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation. Mideast Wireline LLC will not be liable for negligence for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

N/A DENOTES NOT AVAILABLE OR NON APPLICABLE

Gove, KS, S to Rel 1 2 E,
1 S, 1 E to 30, 34 S, W mb

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

| Your Midwest Wireline Crew: | | This Log Record Was Witnessed By: | |
|---|---|---|---|
| Engineer: | T. Martin | Primary Witness: | Jerry Green |
| Operator: | | Secondary Witness: | |
| Operator: | | Secondary Witness: | |
| Operator: | | Secondary Witness: | |

| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|---|---|---|---|---|---|---|
| GR | 45.33 | | GR-MWN (10/7) | 3.90 | 3.50 | 50.00 |
| CNL/AC | 37.23 | | CNT-MWN (2/07) | 5.00 | 3.50 | 100.00 |
| CNS/DC | 36.46 | | | | | |
| LSD | 28.18 | | COL-MWN (3/07-2/3) | 8.50 | 4.00 | 250.00 |
| DCAL | 28.17 | | | | | |
| SSD | 27.66 | | | | | |
| MCAL | 19.58 | | ML-PSML (4/01) | 7.58 | 4.00 | 65.00 |
| MI | 19.58 | | | | | |
| MN | 19.58 | | | | | |
| RLL3F | 15.58 | | | | | |
| RLL3 | 15.58 | | | | | |
| CILD | 8.33 | | DIL-MEM (5/02 HT) | 18.25 | 3.50 | 225.00 |
| CILM | 4.50 | | | | | |
| SP | 0.20 | | | | | |

Dataset: castle_beesley #1.db: field\field\SWM\jeass3.1
Total Length: 42.33 ft
Total weight: 665.00 lb
O.D.: 4.00 in

## Log Variables

Dataset/C:\ProgramData\Vision\Data\castle_beesley #1.db:
Dataset: field\field\SWM\jeass3.1_mm_mm

**Top - Bottom**

| BORED in | BOTTEMP degF | CASEOD in | CASEWT in | FLUIDDEN g/cc | MATRIXDEN g/cc | NPORSELL | PERFB |
|---|---|---|---|---|---|---|---|
| 7.875 | 110 | 5.5 | 5.5 | 1 | 2.71 | Limestone | No |

| SNDDENR medium | SNDDENM medium | SPSHAFT degF | SRFTEMP degF | SZCOR 40 | TDEPTH 4052 |
|---|---|---|---|---|---|
| 0 | 1 | 190 | 40 | | |

**Variable Description**

BORED - Borehole I.D.
BOTTEMP - Bottom Hole Temperature
CASEOD - Casing O.D.
CASEWT - Casing Wall Thickness
FLUIDDEN - Fluid Density
MATRIXDEN - Matrix Density
NPORSELL - Neutron Porosity Curve Select
PERFB - Perforation Flag
SNDDENR - Medium Sonde Error Correction
SNDDENM - Medium Sonde Density
SPSHAFT - Surface Temperature
SZCOR - Chi Size Cor. *
TDEPTH - Total Depth

## DETAIL SECTION

MAIN PASS

Database File castle_beesley #1.db
Dataset Pathname SWM\jeass3.1
Presentation Format detail\detail.1
Dataset Creation Fri Oct 15 47:01 2020
Charted by Depth in Feet scaled 1:240

0 GR (GAPI) 150
Caliper (in) 16
2.875 Hole (in) 7.875
200 Neutron (%) -0.1

0 Micro Inverse 1 & 1 (Ohm-m) 40
Micro Normal 2" (Ohm-m) 40
10000 Low Weight (lb) 0

0 GR (GAPI) 150
Caliper (in) 16
2.875 Hole (in) 7.875
200 Neutron (%) -0.1

0 Micro Inverse 1 & 1 (Ohm-m) 40
Micro Normal 2" (Ohm-m) 40
10000 Low Weight (lb) 0

## REPEAT SECTION

REPEAT PASS

Database File castle_beesley #1.db
Dataset Pathname SWM\jeass3.1
Presentation Format detail\detail.1
Dataset Creation Fri Dec 01 10:08:58 2023
Charted by Depth in Feet scaled 1:240

0 GR (GAPI) 150
Caliper (in) 16
2.875 Hole (in) 7.875
200 Neutron (%) -0.1

0 Micro Inverse 1 & 1 (Ohm-m) 40
Micro Normal 2" (Ohm-m) 40
10000 Low Weight (lb) 0

0 GR (GAPI) 150
Caliper (in) 16
2.875 Hole (in) 7.875
200 Neutron (%) -0.1

0 Micro Inverse 1 & 1 (Ohm-m) 40
Micro Normal 2" (Ohm-m) 40
10000 Low Weight (lb) 0

### Calibration Report

Database File castle_beesley #1.db
Dataset Pathname SWM\jeass3.1
Dataset Creation Fri Dec 01 10:47:01 2023

**Dual Induction Calibration Report**

Serial-Model Surface Cal Performed: 502 HT-MWW

| Loop | Readings Air | Readings Loop | References Air | References Loop | Results m | Results b |
|---|---|---|---|---|---|---|
| Deep | 0.0000 | 487.104 | 0.000 | 200.800 mmho/m | 0.454 | -20.000 |
| Medium | 113.335 | 1585.690 | 0.000 | 205.800 mmho/m | 0.340 | 14.000 |

**Microlog Calibration Report**

Serial-Model: 401-PSML
Mon Sep 25 22:02 No 2023

| | Readings Zero | Readings Cal | References Zero | References Cal | Results m | Results b |
|---|---|---|---|---|---|---|
| Normal | 0.0000 | 1.0000 | 0.000 | 1.1000 Ohm-m | 10000.0000 | -1.0000 |
| Inverse | 0.0000 | 1.0000 | 0.000 | 1.1000 Ohm-m | 10000.0000 | -0.7500 |
| Caliper | 0.000 | 1.0000 | 0.000 | 16.5000 in | 142.7188 | -137.8750 |

**Compensated Density Calibration Report**

Serial-Model: 501-DENSITY
Source: Verifier
Calibration Performed: 20TB25 / Jul
Before Survey Verification Performed: Mon Oct 16 02:22 No 2023
After Survey Verification Performed:

Master Calibration

| | Density | | Far Detector | | Near Detector | |
|---|---|---|---|---|---|---|
| Magnesium | 1.680 | g/cc | 4567.03 | cps | 5405.52 | cps |
| Aluminum | 2.370 | g/cc | 1004.45 | cps | 2859.84 | cps |

Spine Angle = 75.56 Density/Spine Ratio = 0.369

| | Size | | Reading | |
|---|---|---|---|---|
| Small Ring | 6.00 | in | 1.16 | |
| Large Ring | 16.00 | in | 1.00 | |

**Compensated Neutron Calibration Report**

Serial Number: 207
Tool Model: 9A9W

CALIBRATION

| | Detector | Readings | Target | Normalization |
|---|---|---|---|---|
| | Short Space | 6240.00 cps | 1000.00 cps | 1.6025 |
| | Long Space | 460.00 cps | 1000.00 cps | 1.0500 |

PRE-SURVEY VERIFICATION

| | Detector | Readings | Measured | Target |
|---|---|---|---|---|
| 1) | Short Space | cps | | |
| | Long Space | cps | pu | pu |
| 2) | Short Space | cps | | |
| | Long Space | cps | | |
| 3) | Short Space | cps | | |
| | Long Space | cps | pu | pu |

POST-SURVEY VERIFICATION

| | Detector | Readings | Measured | Target |
|---|---|---|---|---|
| 1) | Short Space | cps | | |
| | Long Space | cps | pu | pu |
| 2) | Short Space | cps | | |
| | Long Space | cps | | |
| 3) | Short Space | cps | | |
| | Long Space | cps | pu | pu |

**Gamma Ray Calibration Report**

Serial Number: 102
Tool Model: 9A9W
Performed: Fri Dec 3 10:10:46 2021

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps
Calibrator Reading: 537.0 cps

Sensitivity: 0.5000 GAPI/cps

| | |
|---|---|
| Company | Castle Resources, Inc. |
| Well | Beesley #1 |
| Field | Jim |
| County | Gove |
| State | Kansas |
| Date | 10/15/2009 |