



## DRILL STEM TEST REPORT

Prepared For: **Berexco LLC**

2020 N Bramblewood  
Wichita, KS 67206

ATTN: Ed Grieves

**19-26s-33w Finney,KS**

**Stone #1-19**

Start Date: 2011.07.07 @ 04:35:00

End Date: 2011.07.07 @ 15:19:15

Job Ticket #: 43165                      DST #: 6

Trilobite Testing, Inc  
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TESTING, INC.**

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Job Ticket: 43165 **DST#: 6**  
Test Start: 2011.07.07 @ 04:35:00

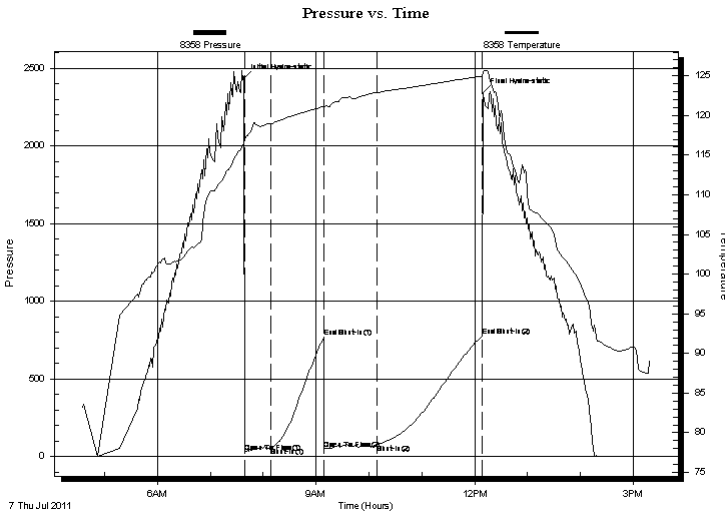
## GENERAL INFORMATION:

Formation: **Morrow Fm.**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:39:00  
Time Test Ended: 15:19:15  
Interval: **5014.00 ft (KB) To 5034.00 ft (KB) (TVD)**  
Total Depth: 5034.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Jace McKinney  
Unit No: 48  
Reference Elevations: 2937.00 ft (KB)  
2925.00 ft (CF)  
KB to GR/CF: 12.00 ft

**Serial #: 8358 Inside**  
Press @ Run Depth: 77.61 psig @ 5035.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.07.07 End Date: 2011.07.07 Last Calib.: 2011.07.07  
Start Time: 04:35:15 End Time: 15:19:15 Time On Btm: 2011.07.07 @ 07:38:15  
Time Off Btm: 2011.07.07 @ 12:09:30

**TEST COMMENT:** Built to 1/2" Blow  
No Return Blow  
Very Weak Surface Blow  
No Return Blow

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2435.17         | 116.42       | Initial Hydro-static |
| 1           | 28.42           | 116.48       | Open To Flow (1)     |
| 31          | 61.07           | 118.93       | Shut-In(1)           |
| 91          | 768.39          | 121.14       | End Shut-In(1)       |
| 91          | 46.31           | 120.93       | Open To Flow (2)     |
| 151         | 77.61           | 122.88       | Shut-In(2)           |
| 271         | 778.45          | 124.96       | End Shut-In(2)       |
| 272         | 2341.89         | 125.56       | Final Hydro-static   |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 30.00       | M 100% Mud  | 0.15         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

## Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|                |                 |                  |



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**TOOL DIAGRAM**

Berexco LLC

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Job Ticket: 43165

**DST#: 6**

Test Start: 2011.07.07 @ 04:35:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4379.43 ft | Diameter: 3.80 inches | Volume: 61.43 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 20000.00 lb  |
| Drill Collar:             | Length: 643.00 ft  | Diameter: 2.25 inches | Volume: 3.16 bbl               | Weight to Pull Loose: 150000.0 lb  |
|                           |                    |                       | <u>Total Volume: 64.59 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 14.43 ft           |                       |                                | String Weight: Initial 100000.0 lb |
| Depth to Top Packer:      | 5034.00 ft         |                       |                                | Final 102000.0 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 20.00 ft           |                       |                                |                                    |
| Tool Length:              | 46.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

|                |       |      |         |         |                               |
|----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool   | 5.00  |      |         | 5013.00 |                               |
| Hydraulic tool | 5.00  |      |         | 5018.00 |                               |
| Jars           | 5.00  |      |         | 5023.00 |                               |
| Safety Joint   | 2.00  |      |         | 5025.00 |                               |
| Packer         | 5.00  |      |         | 5030.00 | 26.00 Bottom Of Top Packer    |
| Packer         | 4.00  |      |         | 5034.00 |                               |
| Stubb          | 1.00  |      |         | 5035.00 |                               |
| Recorder       | 0.00  | 8358 | Inside  | 5035.00 |                               |
| Recorder       | 0.00  | 6669 | Outside | 5035.00 |                               |
| Perforations   | 14.00 |      |         | 5049.00 |                               |
| Bullnose       | 5.00  |      |         | 5054.00 | 20.00 Bottom Packers & Anchor |

**Total Tool Length: 46.00**



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**FLUID SUMMARY**

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**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 30.00        | M 100% Mud  | 0.148         |

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

