



# **Weatherford<sup>®</sup>**

## **Completion Systems**

### **DRILL STEM TEST REPORT**

Prepared For: **Berexco LLC**

2020 North Bramblewood  
Wichita, KS 67208+1094

ATTN: Ed Grieves

**15-22-33 Finney,KS**

**Weede 3-15**

Start Date: 2010.10.18 @ 01:00:00

End Date: 2010.10.18 @ 09:34:40

Job Ticket #: 40288                      DST #: 3

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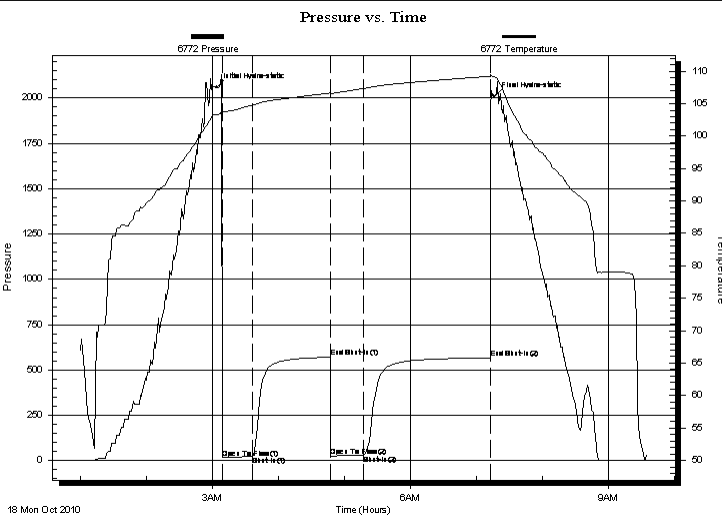
**Weede 3-15**  
**15-22-33 Finney,KS**  
Job Ticket: 40288      **DST#: 3**  
Test Start: 2010.10.18 @ 01:00:00

### GENERAL INFORMATION:

Formation: **Pawnee**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 03:09:00  
Time Test Ended: 09:34:40  
Interval: **4398.00 ft (KB) To 4420.00 ft (KB) (TVD)**  
Total Depth: 4420.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Harley Davidson  
Unit No: 33  
Reference Elevations: 2908.00 ft (KB)  
2897.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6772      Inside**  
Press @ Run Depth: 30.80 psig @ 4400.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.10.18      End Date: 2010.10.18      Last Calib.: 2010.10.18  
Start Time: 01:00:05      End Time: 09:34:39      Time On Btm: 2010.10.18 @ 03:03:35  
Time Off Btm: 2010.10.18 @ 07:16:00

TEST COMMENT: IF- Weak surface blow .  
IS- No blow back.  
FF- No blow .  
FS- No blow back.



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2058.39         | 103.31       | Initial Hydro-static |
| 6           | 16.34           | 103.77       | Open To Flow (1)     |
| 34          | 23.69           | 104.79       | Shut-In(1)           |
| 104         | 570.86          | 106.66       | End Shut-In(1)       |
| 104         | 24.97           | 106.58       | Open To Flow (2)     |
| 134         | 30.80           | 107.36       | Shut-In(2)           |
| 249         | 567.81          | 109.21       | End Shut-In(2)       |
| 253         | 2008.19         | 109.15       | Final Hydro-static   |

### Recovery

| Length (ft) | Description          | Volume (bbl) |
|-------------|----------------------|--------------|
| 30.00       | slightly oil cut 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: 40288

**DST#: 3**

ATTN: Ed Grieves

Test Start: 2010.10.18 @ 01:00:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3739.00 ft | Diameter: 3.80 inches | Volume: 52.45 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: 25000.00 lb  |
| Drill Collar:             | Length: 641.00 ft  | Diameter: 2.25 inches | Volume: 3.15 bbl               | Weight to Pull Loose: 95000.00 lb  |
|                           |                    |                       | <u>Total Volume: 55.60 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 10.00 ft           |                       |                                | String Weight: Initial 90000.00 lb |
| Depth to Top Packer:      | 4398.00 ft         |                       |                                | Final 90000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 22.00 ft           |                       |                                |                                    |
| Tool Length:              | 50.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 4371.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4376.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4381.00    |                               |
| Jars             | 5.00        |            |          | 4386.00    |                               |
| Safety Joint     | 3.00        |            |          | 4389.00    |                               |
| Packer           | 5.00        |            |          | 4394.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 4398.00    |                               |
| Stubb            | 1.00        |            |          | 4399.00    |                               |
| Perforations     | 1.00        |            |          | 4400.00    |                               |
| Recorder         | 0.00        | 8355       | Inside   | 4400.00    |                               |
| Recorder         | 0.00        | 6772       | Inside   | 4400.00    |                               |
| Perforations     | 17.00       |            |          | 4417.00    |                               |
| Bullnose         | 3.00        |            |          | 4420.00    | 22.00 Bottom Packers & Anchor |

**Total Tool Length: 50.00**



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## FLUID SUMMARY

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**15-22-33 Finney,KS**

Job Ticket: 40288

**DST#: 3**

ATTN: Ed Grieves

Test Start: 2010.10.18 @ 01:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 52.00 sec/qt  
 Water Loss: 7.18 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 2300.00 ppm  
 Filter Cake: inches

Cushion Type:  
 Cushion Length: ft  
 Cushion Volume: bbl  
 Gas Cushion Type:  
 Gas Cushion Pressure: psig

Oil API: deg API  
 Water Salinity: ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description          | Volume<br>bbl |
|--------------|----------------------|---------------|
| 30.00        | slightly oil cut 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

