



# DRILL STEM TEST REPORT

Woolsey Operating Company LLC

**LandWehr A#1**

125 North Market Suite 1000  
Wichita Kansas 67202+1729

**20/33S/9W Harper**

Job Ticket: 15718

**DST#: 2**

ATTN: Curtis Covey

Test Start: 2010.11.17 @ 01:32:00

## GENERAL INFORMATION:

Formation: **Wilcox Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:53:00

Time Test Ended: 13:13:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345-Pratt-150

**Interval: 4790.00 ft (KB) To 4824.00 ft (KB) (TVD)**

Reference Elevations: 1358.00 ft (KB)

Total Depth: 4824.00 ft (KB) (TVD)

1349.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 4143**

**Inside**

Press@RunDepth: 1719.36 psia @ 4820.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.11.17

End Date:

2010.11.17

Last Calib.:

2010.11.18

Start Time: 01:32:00

End Time:

13:11:46

Time On Btm:

2010.11.17 @ 05:51:46

Time Off Btm:

2010.11.17 @ 09:55:46

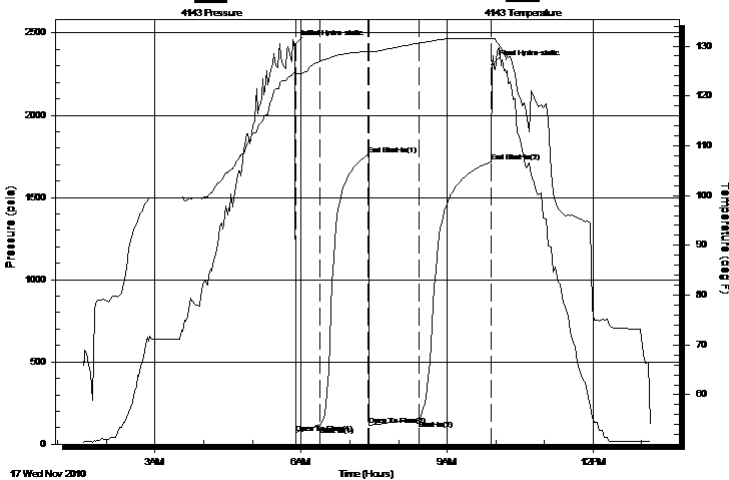
**TEST COMMENT:** 1ST Opening 30 Minutes weak blow /blow built to 3 inches into the bucket of water

1ST Shut-In 60 Minutes no blow back

2ND Opening 60 Minutes dead/but after 36 minutes very weak surface blow /built to under surface 0.50 inches

2ND Shut-In 90 Minutes no blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2429.56	124.71	Initial Hydro-static
2	64.64	124.60	Open To Flow (1)
32	110.51	126.93	Shut-In(1)
91	1759.67	128.95	End Shut-In(1)
93	115.57	128.88	Open To Flow (2)
153	146.00	130.58	Shut-In(2)
243	1719.36	131.54	End Shut-In(2)
244	2305.93	131.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Muddy Water 40% Mud 60% Water	0.10
60.00	Watery Mud Water 10% Mud 90%	0.30
60.00	Watery Mud Water 5% Mud 95%	0.30
60.00	Water cut Mud Water 15% Mud 85%	0.30
0.00	Chlorides 31,000.0	0.00
0.00	Resistivity .30 @ 56 degrees	0.00

## Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



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## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 48.00 sec/qt  
Water Loss: 10.40 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6000.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Muddy Water 40%Mud 60% Water	0.098
60.00	Watery Mud Water 10% Mud 90%	0.295
60.00	Watery Mud Water 5% Mud 95%	0.295
60.00	Water cut Mud Water 15% Mud 85%	0.295
0.00	Chlorides 31,000.0	0.000
0.00	Resistivity .30 @ 56 degrees	0.000

Total Length: 200.00 ft      Total Volume: 0.983 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

