



# 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: 15717

**DST#: 1**

ATTN: Curtis Covey

Test Start: 2010.11.14 @ 06:08:00

## GENERAL INFORMATION:

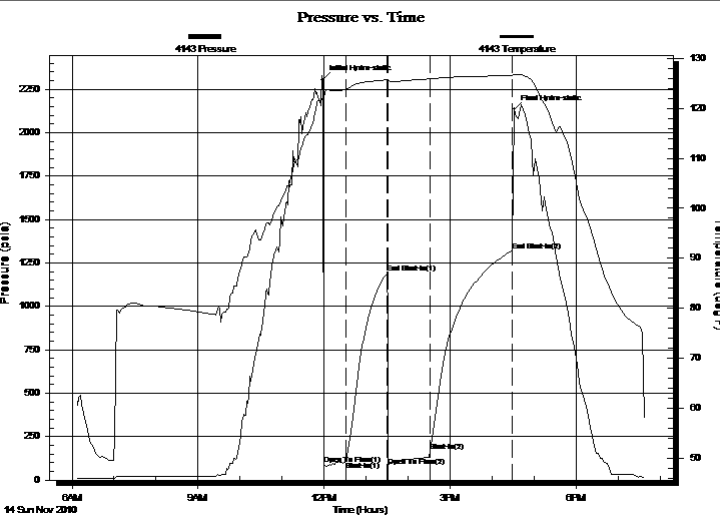
Formation: **Mississippian**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:59:53  
 Time Test Ended: 19:41:23  
 Interval: **4462.00 ft (KB) To 4482.00 ft (KB) (TVD)**  
 Total Depth: 4482.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dylan E Ellis  
 Unit No: 3345-Pratt-150  
 Reference Elevations: 1358.00 ft (KB)  
 1349.00 ft (CF)  
 KB to GR/CF: 9.00 ft

## Serial #: 4143

Inside

Press@RunDepth: 1320.80 psia @ 4478.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.11.14 End Date: 2010.11.14 Last Calib.: 2010.11.14  
 Start Time: 06:08:00 End Time: 19:39:45 Time On Btm: 2010.11.14 @ 11:57:46  
 Time Off Btm: 2010.11.14 @ 16:31:46

TEST COMMENT: 1ST Opening 30 Minutes fair blow /bottom of bucket in 3 minutes blow w as steady  
 1ST Shut-In 60 Minutes yes blow back/it blew 1 inch at max and cut back to a surface blow  
 2ND Opening 60 Minutes stronger than the first blow /blew bottom of bucket in 30 seconds  
 2ND Shut-In 120 Minutes yes had blow back didnt make much more than surface



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2304.30	122.04	Initial Hydro-static
2	89.70	121.82	Open To Flow (1)
33	110.92	123.80	Shut-In(1)
92	1192.12	125.63	End Shut-In(1)
94	81.86	125.48	Open To Flow (2)
153	164.10	125.85	Shut-In(2)
271	1320.80	126.57	End Shut-In(2)
274	2133.97	126.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slightly Oil cut Mud	0.30
0.00	Oil 7% Mud 93%	0.00
60.00	Oil and Water cut Mud	0.30
0.00	Oil 40% Water 10% Mud 50%	0.00
60.00	Slightly Mud cut Oilly Water	0.30
0.00	Mud 15% Oil 25% Water 60%	0.00

## Gas Rates

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



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## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 43.00 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
60.00	Slightly Oil cut Mud	0.295
0.00	Oil 7% Mud 93%	0.000
60.00	Oil and Water cut Mud	0.295
0.00	Oil 40% Water 10% Mud 50%	0.000
60.00	Slightly Mud cut Oily Water	0.295
0.00	Mud 15% Oil 25% Water 60%	0.000
60.00	Slightly Oil cut Muddy Water	0.471
0.00	Oil 10% Mud 20% Water 70%	0.000
0.00	Chlorides 86,000	0.000
0.00	Resistivity was .12@67 degrees	0.000

Total Length: 240.00 ft      Total Volume: 1.356 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time

