



# DRILL STEM TEST REPORT

WOOLSEY OPERATING COMPANY L.L.C.

**LUTHI GU #3**

125 N MARKET STE 100 WICHITA KS 67202-1729

**36-33-11 BARBER**

Job Ticket: 15650

**DST#: 1**

ATTN: SCOTT ALBERG

Test Start: 2011.04.06 @ 20:30:00

## GENERAL INFORMATION:

Formation: **MISSISSIPPI**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:43:30

Time Test Ended: 05:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY-

**Interval: 4538.00 ft (KB) To 4665.00 ft (KB) (TVD)**

Reference Elevations: 1457.00 ft (KB)

Total Depth: 4665.00 ft (KB) (TVD)

1447.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8524**

**Inside**

Press@RunDepth: 162.67 psia @ 4661.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.04.06

End Date: 2011.04.07

Last Calib.: 2011.04.07

Start Time: 20:30:00

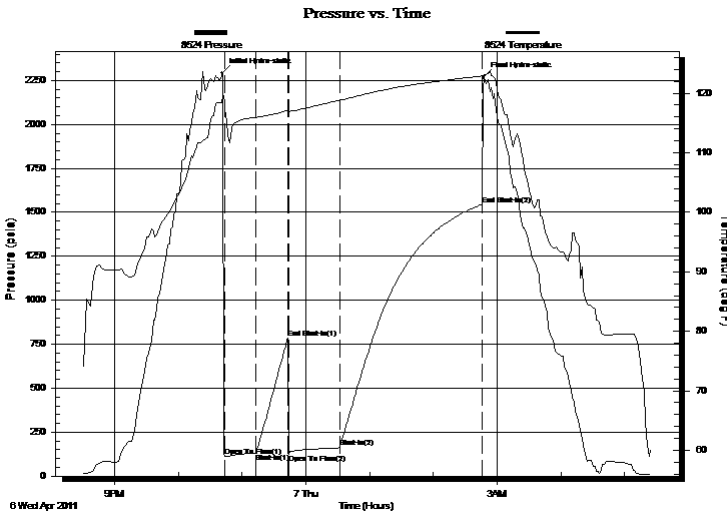
End Time: 05:25:00

Time On Btm: 2011.04.06 @ 22:41:30

Time Off Btm: 2011.04.07 @ 02:47:30

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINUTE  
 60/INITIAL SHUT IN:VERY WEAK SURFACE BLOW  
 60/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINUTE  
 120/FINAL SHUT IN:NO BLOW BACK

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2292.88	119.46	Initial Hydro-static
2	111.93	118.51	Open To Flow (1)
32	131.39	115.94	Shut-In(1)
62	784.21	117.08	End Shut-In(1)
63	125.31	116.96	Open To Flow (2)
111	162.67	118.79	Shut-In(2)
245	1545.27	122.87	End Shut-In(2)
246	2269.74	123.09	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
180.00	MUDDY WATER 30%MUD 70%WATER	0.89
0.00	CHLORIDES 20,000	0.00
0.00	RESISTIVITY .3 @65 DEGREES	0.00

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



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**TOOL DIAGRAM**

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Test Start: 2011.04.06 @ 20:30:00

## Tool Information

Drill Pipe:	Length: 4285.00 ft	Diameter: 3.80 inches	Volume: 60.11 bbl	Tool Weight: 1000.00 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 61.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4538.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	127.00 ft			
Tool Length:	156.00 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			4510.00	
Shut-In Tool	5.00			4515.00	
Hydraulic Tool	5.00			4520.00	
Jars	6.00			4526.00	
Safety Joint	2.00			4528.00	
Packer	5.00			4533.00	29.00 Bottom Of Top Packer
Packer	5.00			4538.00	
Change Over Sub	0.75			4538.75	
Drill Pipe	95.50			4634.25	
Change Over Sub	0.75			4635.00	
Perforations	25.00			4660.00	
Recorder	1.00	8524	Inside	4661.00	
Recorder	1.00	8525	Outside	4662.00	
Bullnose	3.00			4665.00	127.00 Bottom Packers & Anchor

**Total Tool Length: 156.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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**DST#: 1**

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Test Start: 2011.04.06 @ 20:30:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 9.60 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MUDDY WATER 30%MUD 70%WATER	0.885
0.00	CHLORIDES 20,000	0.000
0.00	RESISTIVITY .3 @65 DEGREES	0.000

Total Length: 180.00 ft      Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

