



DRILL STEM TEST REPORT

Woolsey Operating L.L.C

Spicer A #4

125 N Market ST 1000 Wichita KS 67202+1729

2-34-11 Barber

ATTN: Scott Alberg

Job Ticket: 18642

DST#: 1

Test Start: 2011.10.12 @ 02:12:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:55:30

Time Test Ended: 11:55:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-GB-

Interval: 4524.00 ft (KB) To 4616.00 ft (KB) (TVD)

Reference Elevations: 1437.00 ft (KB)

Total Depth: 4616.00 ft (KB) (TVD)

1428.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8419 Inside

Press @ Run Depth: 91.83 psia @ 4612.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.10.12

End Date: 2011.10.12

Last Calib.: 2011.10.12

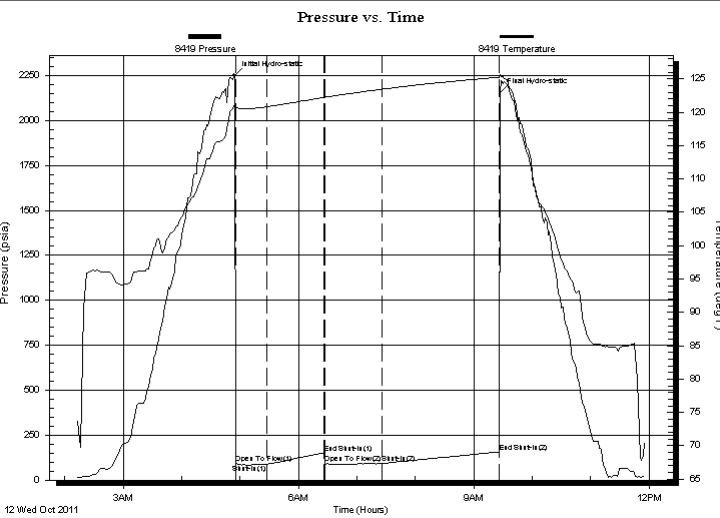
Start Time: 02:12:00

End Time: 11:55:30

Time On Btm: 2011.10.12 @ 04:54:00

Time Off Btm: 2011.10.12 @ 09:27:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 3 inches into bucket in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 60 Minutes-Very weak blow built 1 inch into bucket in 60 minutes
 2nd Shut-in 120 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2251.81	121.10	Initial Hydro-static
2	93.44	120.76	Open To Flow (1)
33	87.78	120.84	Shut-In(1)
92	151.58	122.22	End Shut-In(1)
93	90.96	122.25	Open To Flow (2)
152	91.83	123.47	Shut-In(2)
272	157.48	125.25	End Shut-In(2)
273	2154.50	125.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 4209.00 ft	Diameter: 3.80 inches	Volume: 59.04 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: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 60.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4524.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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SHut-InTool	5.00		Inside	4501.00	
Hydraulic Tool	5.00			4506.00	
Jars	6.00			4512.00	
Safety Joint	2.00			4514.00	
Packer	5.00			4519.00	28.00 Bottom Of Top Packer
Packer	5.00			4524.00	
Anchor	0.00			4524.00	
Change Over Sub	0.75			4524.75	
Drill Pipe	63.50		Outside	4588.25	
Change Over Sub	0.75		Outside	4589.00	
Anchor	22.00			4611.00	
Recorder	1.00	8419	Inside	4612.00	
Recorder	1.00	8524	Outside	4613.00	
Bullnose	3.00			4616.00	92.00 Bottom Packers & Anchor

Total Tool Length: 120.00



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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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8419

Inside

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DST Test Number: 1

Pressure vs. Time

