

DRILL STEM TEST REPORT

Woolsey Operating Company L.L.C.

Luthi GU #4

125 North Market Suite 1000
Wichita, Kansas 67202

36-33s-11w Barber

Job Ticket: 16048

DST#: 1

ATTN: Scott Alberg

Test Start: 2011.04.18 @ 10:05:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: 4534.00 ft (KB) To 4650.00 ft (KB) (TVD)

Reference Elevations: 1457.00 ft (KB)

Total Depth: 4650.00 ft (KB) (TVD)

1448.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 4143 Inside

Press @ RunDepth: 554.20 psia @ 4645.95 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.04.18

End Date: 2011.04.18

Last Calib.: 2011.04.18

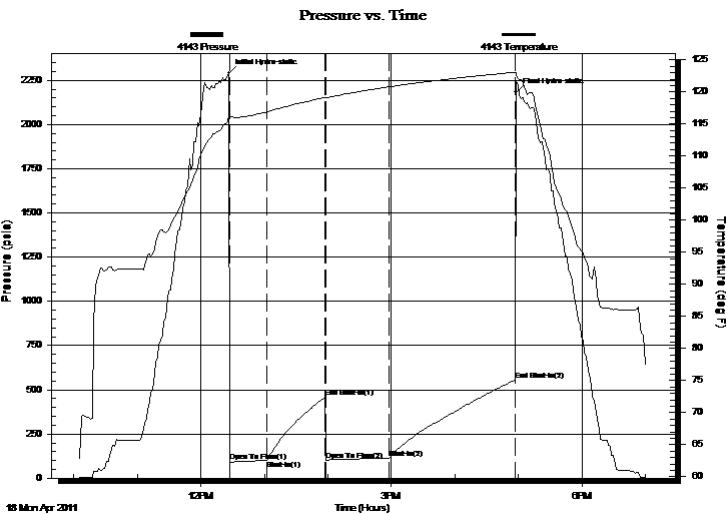
Start Time: 10:05:00

End Time: 19:01:30

Time On Btm: 2011.04.18 @ 12:26:30

Time Off Btm: 2011.04.18 @ 16:57:30

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 13 minutes
1st Shut-In 60 Minutes- No blow back
2nd Opening 60 Minutes-Good blow bottom of the bucket in 2 min. bled it off fair blow built to the bottom in 23 min.
2nd Shut-In 120 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2290.10	116.42	Initial Hydro-static
1	94.27	116.42	Open To Flow (1)
36	99.46	116.89	Shut-In(1)
91	458.49	119.18	End Shut-In(1)
92	101.76	119.17	Open To Flow (2)
152	111.93	120.78	Shut-In(2)
270	554.20	123.04	End Shut-In(2)
271	2182.59	122.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Drilling mud	0.39
0.00	there w as a fair show of dead oil	0.00
0.00	betw een the shut-in & Hydraulic tools	0.00
0.00	there w as no gas detected	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: 47.00 sec/qt
Water Loss: 9.19 in³
Resistivity: ohm.m
Salinity: 2500.00 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
80.00	Drilling mud	0.393
0.00	there w as a fair show of dead oil	0.000
0.00	betw een the shut-in & Hydrolic tools	0.000
0.00	there w as no gas detected	0.000

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 4214.00 ft	Diameter: 3.80 inches	Volume: 59.11 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 297.00 ft	Diameter: 2.25 inches	Volume: 1.46 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 60.57 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4534.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	115.95 ft				
Tool Length:	144.95 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			4506.00	
Shut-In Tool	5.00			4511.00	
Hydroic Tool	5.00			4516.00	
Jars	6.00			4522.00	
Safety Joint	2.00			4524.00	
Packer	5.00			4529.00	29.00 Bottom Of Top Packer
Packer	5.00			4534.00	
Perforations	5.00			4539.00	
Change Over Sub	0.75			4539.75	
Drill Pipe	95.45			4635.20	
Change Over Sub	0.75			4635.95	
Perforations	9.00			4644.95	
Recorder	1.00	4143	Inside	4645.95	
Recorder	1.00	4005	Outside	4646.95	
Bullnose	3.00			4649.95	115.95 Bottom Packers & Anchor

Total Tool Length: 144.95

Pressure vs. Time

