



DRILL STEM TEST REPORT

Woolsey Operating Company LLC

Nusser #1

125 North Market
Suite 1000
Wichita, Kansas 67202+1729
ATTN: Bill Klaver

11/35S/12W/Barber

Job Ticket: 15845

DST#: 1

Test Start: 2011.09.05 @ 23:21:00

GENERAL INFORMATION:

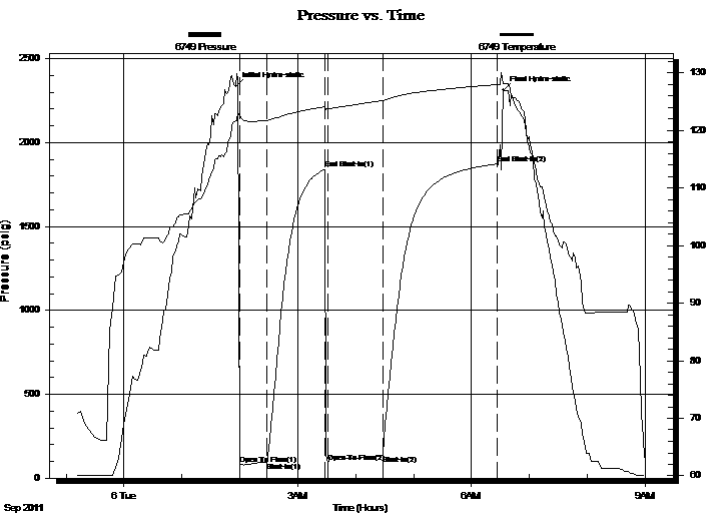
Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:09:30
 Time Test Ended: 09:10:30
 Interval: **4829.00 ft (KB) To 4905.00 ft (KB) (TVD)**
 Total Depth: 4905.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 3325 Pratt/98
 Reference Elevations: 1389.00 ft (KB)
 1378.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6749

Inside

Press @ Run Depth: 1873.37 psig @ 4901.01 ft (KB) Capacity: 5000.00 psig
 Start Date: 2011.09.05 End Date: 2011.09.06 Last Calib.: 2011.09.06
 Start Time: 23:11:00 End Time: 09:00:30 Time On Btm: 2011.09.06 @ 01:56:00
 Time Off Btm: 2011.09.06 @ 06:33:00

TEST COMMENT: 1ST Open 30 Minutes/Stong blow /Blow to bottom of bucket in 1 minute
 1ST Shut In 60 Minutes/No blow back
 2ND Open 60 Minutes/Stong blow /Blow to bottom of bucket at open/Gas to surface in 3 minutes
 2ND Shut In 120 Minutes/Weak surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2334.80	121.64	Initial Hydro-static
4	85.11	122.52	Open To Flow (1)
33	96.43	121.75	Shut-In(1)
93	1842.52	124.10	End Shut-In(1)
95	94.34	123.73	Open To Flow (2)
152	134.66	125.19	Shut-In(2)
271	1873.37	127.97	End Shut-In(2)
277	2312.27	128.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	Lightly gassy Mud with show of oil	1.24
0.00	Gas 5% Mud 95%	0.00
95.00	light gas cut w atery mud w ith show oil	1.39
0.00	10% gas 25% water 65% mud	0.00
0.00	Recovery Chlorides 27000 ppm	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	9.00	14.50
Last Gas Rate	0.25	7.43	12.01
Max. Gas Rate	0.25	9.00	14.50



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 4805.00 ft	Diameter: 3.88 inches	Volume: 70.27 bbl	Tool Weight:	2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	115000.0 lb
			<u>Total Volume: 70.27 bbl</u>	Tool Chased	1.00 ft
Drill Pipe Above KB:	4.75 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	4829.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	76.01 ft				
Tool Length:	104.76 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in tool	5.00			4805.25	
Hydraulic tool	5.00			4810.25	
Change over sub	0.75			4811.00	
Jars	6.00			4817.00	
Safety Joint	2.00			4819.00	
Packer	5.00			4824.00	28.75 Bottom Of Top Packer
Packer	5.00			4829.00	
Anchor	5.00			4834.00	
change over sub	0.65			4834.65	
drill pipe	30.71			4865.36	
change over sub	0.65			4866.01	
anchor	34.00			4900.01	
Recorder	1.00	6749	Inside	4901.01	
Recorder	1.00	6748	Outside	4902.01	
bull plug	3.00			4905.01	76.01 Bottom Packers & Anchor

Total Tool Length: 104.76



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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:	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume:		
Water Loss: 8.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
85.00	Lightly gassy Mud w ith show of oil	1.243
0.00	Gas 5% Mud 95%	0.000
95.00	light gas cut w atery mud w ith show oil	1.389
0.00	10% gas 25% w ater 65% mud	0.000
0.00	Recovery Chlorides 27000 ppm	0.000

Total Length: 180.00 ft Total Volume: 2.632 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



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GAS RATES

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Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	5	0.25	9.00	14.50
2	10	0.25	8.35	13.47
2	20	0.25	7.90	12.76
2	30	0.25	7.62	12.31
2	40	0.25	7.50	12.12
2	50	0.25	7.43	12.01

Pressure vs. Time

