



DRILL STEM TEST REPORT

Woolsey Operating LLC.
 125 North Market Street
 Suite 1000 Witchia Kansas
 67202+1729
 ATTN: Scott Alberg

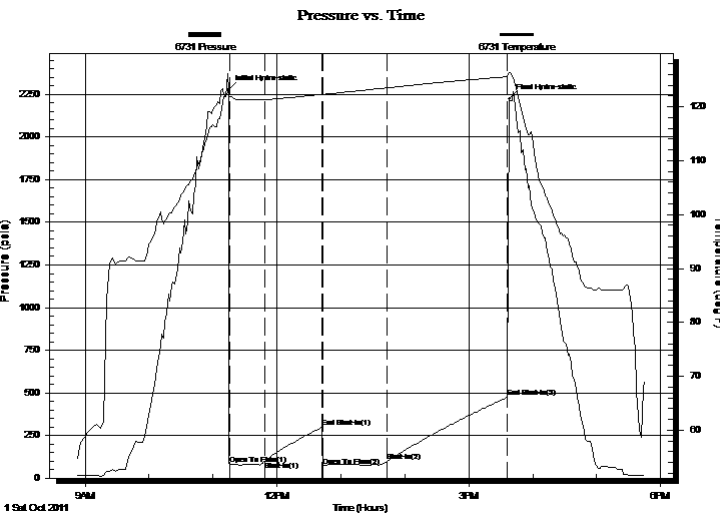
Forester D-3
1/34S/11W Barber Co.
 Job Ticket: 18678 **DST#: 1**
 Test Start: 2011.10.01 @ 08:51:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:20:30
 Time Test Ended: 18:07:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dylan E Ellis
 Unit No: 3345/Great Bend/196
 Interval: **4524.00 ft (KB) To 4615.00 ft (KB) (TVD)**
 Reference Elevations: 1417.00 ft (KB)
 Total Depth: 4615.00 ft (KB) (TVD) 1408.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 6731 Inside
 Press @ RunDepth: 473.26 psia @ 4611.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.10.01 End Date: 2011.10.01 Last Calib.: 2011.10.01
 Start Time: 08:51:00 End Time: 17:45:00 Time On Btm: 2011.10.01 @ 11:14:30
 Time Off Btm: 2011.10.01 @ 15:38:00

TEST COMMENT: 1ST Opening 30 Minutes strong blow /blow blew to bottom of bucket of water in 4 minutes
 1ST Shut-In 60 Minutes no blow back
 2ND Opening 60 Minutes very strong blow /blow blew to bottom of bucket in 30 seconds
 2ND Shut-In 120 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2277.53	122.98	Initial Hydro-static
2	79.47	121.86	Open To Flow (1)
34	98.48	121.32	Shut-In(1)
88	296.80	122.33	End Shut-In(1)
89	68.49	122.29	Open To Flow (2)
149	97.56	123.51	Shut-In(2)
262	473.26	125.56	End Shut-In(2)
264	2223.74	126.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Drilling Mud	0.30
0.00	310' Feet Gas in the pipe	0.00

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: 4195.00 ft	Diameter: 3.80 inches	Volume: 58.84 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: 309.65 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 15000.00 lb
			<u>Total Volume: 60.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.65 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4524.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 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
Change Over Sub	1.00			4496.00	
Shut-In Tool	5.00			4501.00	
Hydroic Tool	5.00			4506.00	
Jars	6.00			4512.00	
Safety Joint	2.00			4514.00	
Packer	5.00			4519.00	29.00 Bottom Of Top Packer
Packer	5.00			4524.00	
Perforations	5.00			4529.00	
Change Over Sub	0.75			4529.75	
Drill Pipe	62.50			4592.25	
Change Over Sub	0.75			4593.00	
Perforations	17.00			4610.00	
Recorder	1.00	6731	Inside	4611.00	
Recorder	1.00	6666	Outside	4612.00	
Bullnose	3.00			4615.00	91.00 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
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 3000.00 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
62.00	Drilling Mud	0.305
0.00	310' Feet Gas in the pipe	0.000

Total Length: 62.00 ft Total Volume: 0.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

