



DRILL STEM TEST REPORT

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

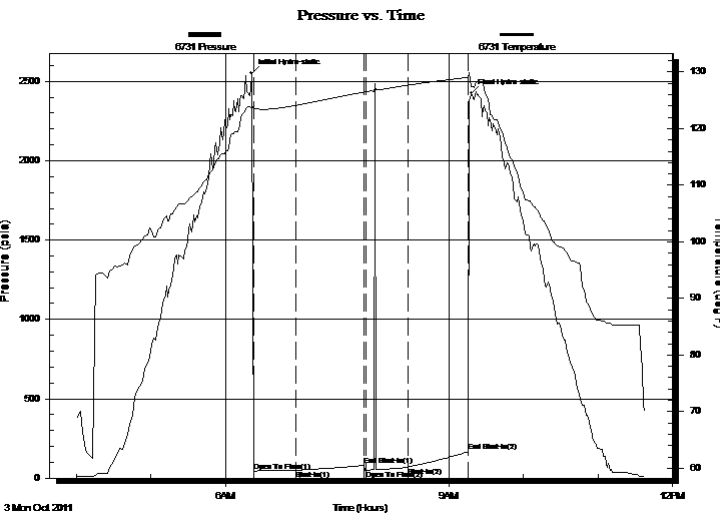
Forester D-3
1/34S/11W Barber Co.
 Job Ticket: 18679 **DST#: 2**
 Test Start: 2011.10.03 @ 04:00:00

GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dylan E Ellis
 Unit No: 3345/Great Bend/196
 Interval: **4979.00 ft (KB) To 5011.00 ft (KB) (TVD)**
 Reference Elevations: 1417.00 ft (KB)
 Total Depth: 5011.00 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: 166.99 psia @ 5007.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.10.03 End Date: 2011.10.03 Last Calib.: 2011.10.03
 Start Time: 04:00:00 End Time: 11:37:30 Time On Btm: 2011.10.03 @ 06:21:00
 Time Off Btm: 2011.10.03 @ 09:18:00

TEST COMMENT: 1ST Opening 30 Minutes opened tool/very weak surface blow /stayed the same all throughout opening
 1ST Shut-In 60 Minutes no blow back
 2ND Opening 30 Minutes opened tool/blow dead/flushed tool/good surge/no help/stayed dead
 2ND Shut-In 60 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2551.50	123.69	Initial Hydro-static
2	44.41	123.51	Open To Flow (1)
36	49.73	124.10	Shut-In(1)
91	80.25	126.46	End Shut-In(1)
92	51.13	126.51	Open To Flow (2)
126	70.77	127.68	Shut-In(2)
175	166.99	129.06	End Shut-In(2)
177	2425.29	127.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drilling Mud 100%	0.15

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: 4664.00 ft	Diameter: 3.80 inches	Volume: 65.42 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:	57000.00 lb
			<u>Total Volume: 66.94 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.65 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	4979.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	61.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Charge for a large packer.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4951.00	
Shut-In Tool	5.00			4956.00	
Hydroic Tool	5.00			4961.00	
Jars	6.00			4967.00	
Safety Joint	2.00			4969.00	
Packer	5.00			4974.00	29.00 Bottom Of Top Packer
Packer	5.00			4979.00	
Perforations	27.00			5006.00	
Recorder	1.00	6731	Inside	5007.00	
Recorder	1.00	6666	Outside	5008.00	
Bullnose	3.00			5011.00	32.00 Bottom Packers & Anchor

Total Tool Length: 61.00



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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: 47.00 sec/qt
 Water Loss: 8.80 in³
 Resistivity: ohm.m
 Salinity: 4000.00 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
30.00	Drilling Mud 100%	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

