



DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploration**

8100 E 22nd St N bldg Wichita KS 67208

ATTN: Adam Nighswonger

Morrison #1-1

1-21-14w Stafford

Start Date: 2014.06.03 @ 21:15:00

End Date: 2014.06.04 @ 02:33:30

Job Ticket #: 19248 DST #: 4

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

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GENERAL INFORMATION:

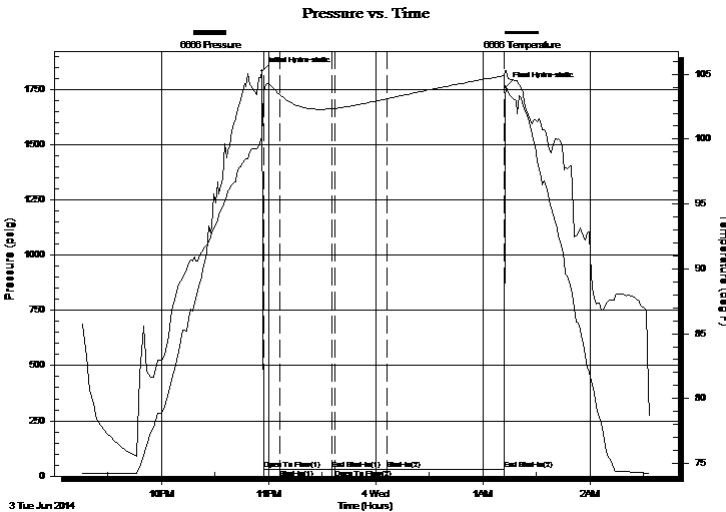
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:57:30
 Time Test Ended: 02:33:30
 Interval: **3634.00 ft (KB) To 3641.00 ft (KB) (TVD)**
 Total Depth: 3641.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3335-Great Bend -25
 Reference Elevations: 1924.00 ft (KB)
 1916.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6666

Press@RunDepth: 30.02 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.06.03 End Date: 2014.06.04 Last Calib.: 2014.06.04
 Start Time: 21:15:00 End Time: 02:33:30 Time On Btm: 2014.06.03 @ 22:56:30
 Time Off Btm: 2014.06.04 @ 01:13:00

TEST COMMENT: 1st Opening 10 Minutes-Very weak blow did no build
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Very weak surge did not build
 2nd Shut-in 60 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1832.08	100.08	Initial Hydro-static
1	28.80	103.63	Open To Flow (1)
10	29.84	103.39	Shut-In(1)
39	29.57	102.34	End Shut-In(1)
41	28.77	102.37	Open To Flow (2)
70	30.02	103.11	Shut-In(2)
136	29.03	104.88	End Shut-In(2)
137	1760.96	105.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00		0.00

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3611.00 ft	Diameter: 3.80 inches	Volume: 50.65 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 50.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3634.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	35.00 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			3611.00	
Hydraulic tool	5.00			3616.00	
Jars	6.00			3622.00	
Safety Joint	2.00			3624.00	
Packer	5.00			3629.00	28.00 Bottom Of Top Packer
Packer	5.00			3634.00	
Recorder	1.00			3635.00	
Recorder	1.00			3636.00	
Anchor	2.00			3638.00	
Bullnose	3.00			3641.00	7.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



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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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00		0.000

Total Length: ft Total Volume: bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

