



DRILL STEM TEST REPORT

Prepared For: **F G Holl Company L.L.C**

9431 E Central ste 100 Wichita KS 67206

ATTN: Ryan Greenbaum

Petersen #1-36

36-19s-16w Rush

Start Date: 2014.04.15 @ 20:16:00

End Date: 2014.04.16 @ 03:09:00

Job Ticket #: 19281 DST #: 1

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

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Petersen #1-36

Job Ticket: 19281

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2014.04.15 @ 20:16:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:43:00

Time Test Ended: 03:09:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-20

Interval: 3580.00 ft (KB) To 3640.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3640.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 1761.79 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.15

End Date: 2014.04.16

Last Calib.: 2014.04.16

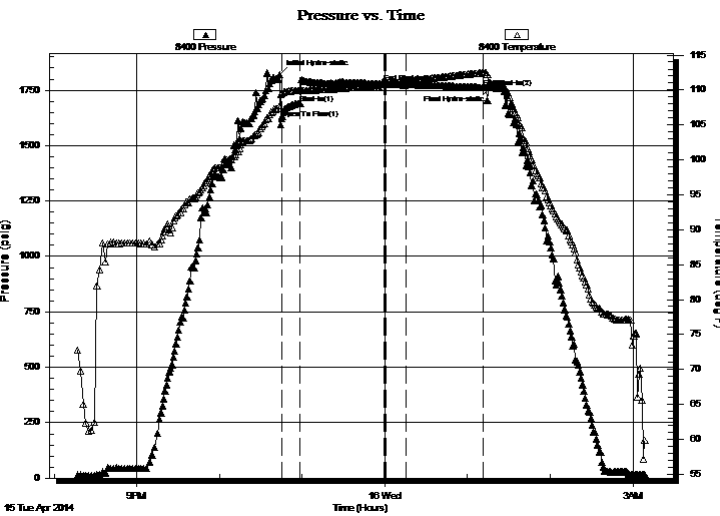
Start Time: 20:16:00

End Time: 03:08:30

Time On Btm: 2014.04.15 @ 22:43:30

Time Off Btm: 2014.04.16 @ 01:17:30

TEST COMMENT: 1st Opening 15 Minutes-Weak surface blow built 1/4 inch into bucket in 15 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 15 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	1819.92	107.78	Initial Hydro-static
2	1621.54	109.52	Open To Flow (1)
15	1690.43	109.90	Shut-In(1)
76	1784.17	110.84	End Shut-In(1)
77	1780.51	110.88	Open To Flow (2)
92	1789.01	111.23	Shut-In(2)
148	1761.79	112.48	End Shut-In(2)
154	1764.15	110.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.07

Gas Rates

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



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TOOL DIAGRAM

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Test Start: 2014.04.15 @ 20:16:00

Tool Information

Drill Pipe:	Length: 3561.00 ft	Diameter: 3.80 inches	Volume: 49.95 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: 65000.00 lb
			<u>Total Volume: 49.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3580.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3557.00	
Hydraulic tool	5.00			3562.00	
Jars	6.00			3568.00	
Safety Joint	2.00			3570.00	
Packer	5.00			3575.00	28.00 Bottom Of Top Packer
Packer	5.00			3580.00	
Change Over Sub	0.50			3580.50	
Drill Pipe	32.00			3612.50	
Change Over Sub	0.50			3613.00	
Recorder	1.00			3614.00	
Recorder	1.00			3615.00	
Anchor	22.00			3637.00	
Bullnose	3.00			3640.00	60.00 Bottom Packers & Anchor

Total Tool Length: 88.00



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FLUID SUMMARY

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DST#: 1

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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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 6200.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

