



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: 2014.04.19 @ 02:10:00

End Date: 2014.04.20 @ 00:00:00

Job Ticket #: 19288 DST #: 8

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

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Job Ticket: 19288

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Test Start: 2014.04.19 @ 02:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:58:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-20

Interval: 3710.00 ft (KB) To 3725.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3725.00 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: 461.40 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.20

End Date:

2014.04.20

Last Calib.:

2014.04.20

Start Time: 02:10:00

End Time:

09:07:30

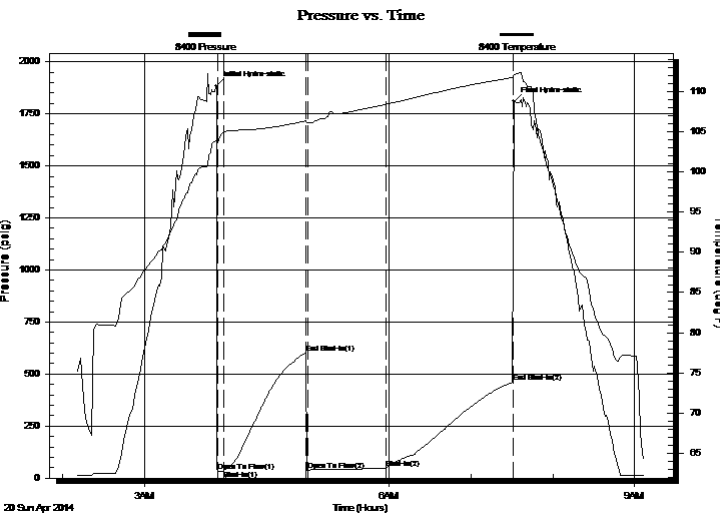
Time On Btm:

2014.04.20 @ 03:53:00

Time Off Btm:

2014.04.20 @ 07:31:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 3 minutes
 1st Shut-in 60 Minutes-Weak blow back
 2nd Opening 60 Minutes-Strong blow built bottom of bucket in 3 1/2 minutes
 2nd Shut-in 90 Minutes-WEak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.38	103.93	Initial Hydro-static
1	33.00	103.61	Open To Flow (1)
6	34.86	104.92	Shut-In(1)
66	601.46	106.36	End Shut-In(1)
67	37.48	106.15	Open To Flow (2)
125	46.44	108.42	Shut-In(2)
218	461.40	111.73	End Shut-In(2)
219	1809.92	112.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud cut oil 3%oil 97%mud	0.42
0.00	450 gas in pipe	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: 3707.00 ft	Diameter: 3.80 inches	Volume: 52.00 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: 52.00 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3710.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 ft				
Tool Length:	38.00 ft				
Number of Packers:	1	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			3692.00	
Hydraulic tool	5.00			3697.00	
Jars	6.00			3703.00	
Safety Joint	2.00			3705.00	
Packer	5.00			3710.00	23.00 Bottom Of Top Packer
Recorder	1.00			3711.00	
Recorder	1.00			3712.00	
Anchor	10.00			3722.00	
Bullnose	3.00			3725.00	15.00 Anchor Tool
Total Tool Length:	38.00				



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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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	mud cut oil 3%oil 97%mud	0.421
0.00	450 gas in pipe	0.000

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

