



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 @ 10:45:00

End Date: 2014.04.19 @ 18:26:30

Job Ticket #: 19287 DST #: 7

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

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Test Start: 2014.04.19 @ 10:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:11:30

Time Test Ended: 18:26:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend -20

Interval: 3695.00 ft (KB) To 3710.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3710.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6731

Press@RunDepth: 44.24 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.19

End Date: 2014.04.19

Last Calib.: 2014.04.19

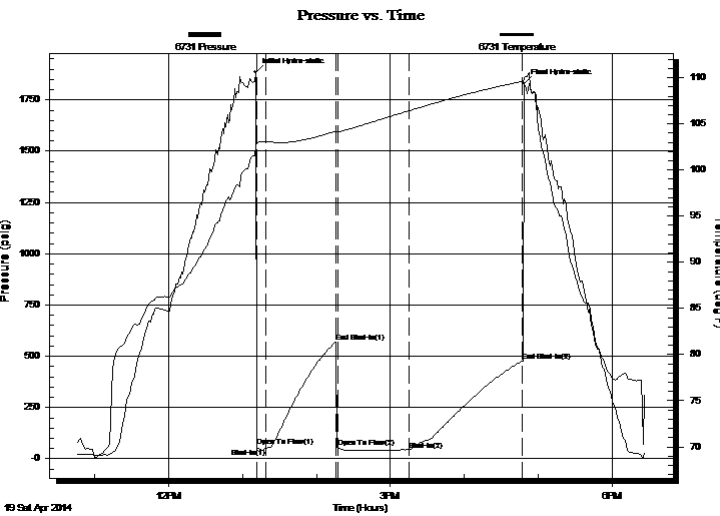
Start Time: 10:45:00

End Time: 18:26:30

Time On Btm: 2014.04.19 @ 13:10:30

Time Off Btm: 2014.04.19 @ 16:48:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 2 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 60 Minutes-Strong low built bottom of bucket in 3 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.88	102.72	Initial Hydro-static
1	59.90	102.81	Open To Flow (1)
8	50.49	103.10	Shut-In(1)
65	568.26	104.19	End Shut-In(1)
67	55.11	104.11	Open To Flow (2)
125	44.24	106.43	Shut-In(2)
217	477.09	109.60	End Shut-In(2)
218	1831.56	109.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud spot oil 1%oil 99%mud	0.42
0.00	30 gas in pipe	0.00

Gas Rates

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



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Time Test Ended: 18:26:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend -20

Interval: 3695.00 ft (KB) To 3710.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3710.00 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: 483.38 psig @ ft (KB)

Capacity: psig

Start Date: 2014.04.19

End Date: 2014.04.19

Last Calib.: 1899.12.30

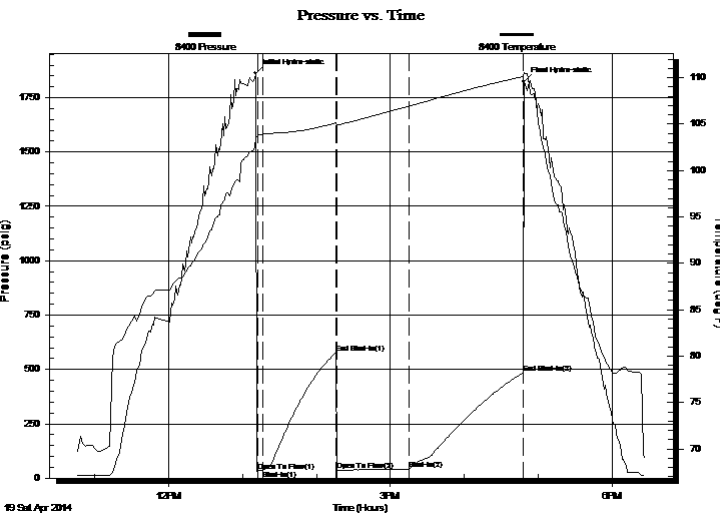
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 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1862.67	103.67	Initial Hydro-static
2	32.40	103.69	Open To Flow (1)
6	34.90	103.94	Shut-In(1)
65	576.22	105.11	End Shut-In(1)
66	34.78	104.92	Open To Flow (2)
125	42.75	106.95	Shut-In(2)
217	483.38	110.12	End Shut-In(2)
218	1824.28	110.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud spot oil 1%oil 99%mud	0.42
0.00	30 gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F G Holl Company L.L.C

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Test Start: 2014.04.19 @ 10:45:00

Tool Information

Drill Pipe:	Length: 3682.00 ft	Diameter: 3.80 inches	Volume: 51.65 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:	2000.00 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: 51.65 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3695.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3677.00	
Hydraulic tool	5.00			3682.00	
Jars	6.00			3688.00	
Safety Joint	2.00			3690.00	
Packer	5.00			3695.00	23.00 Bottom Of Top Packer
Recorder	1.00			3696.00	
Recorder	1.00			3697.00	
Anchor	10.00			3707.00	
Bullnose	3.00			3710.00	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: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud spot oil 1%oil 99%mud	0.421
0.00	30 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: ruined packer

Pressure vs. Time

