



## 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: 2014.04.17 @ 13:30:00

End Date: 2014.04.17 @ 19:49:00

Job Ticket #: 19284                      DST #: 4

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
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**36-19s-16w Rush**

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Job Ticket: 19284

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ATTN: Ryan Greenbaum

Test Start: 2014.04.17 @ 13:30:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:50:00

Time Test Ended: 19:49:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend -20

**Interval: 3650.00 ft (KB) To 3665.00 ft (KB) (TVD)**

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3665.00 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: 210.78 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.17 End Date: 2014.04.17

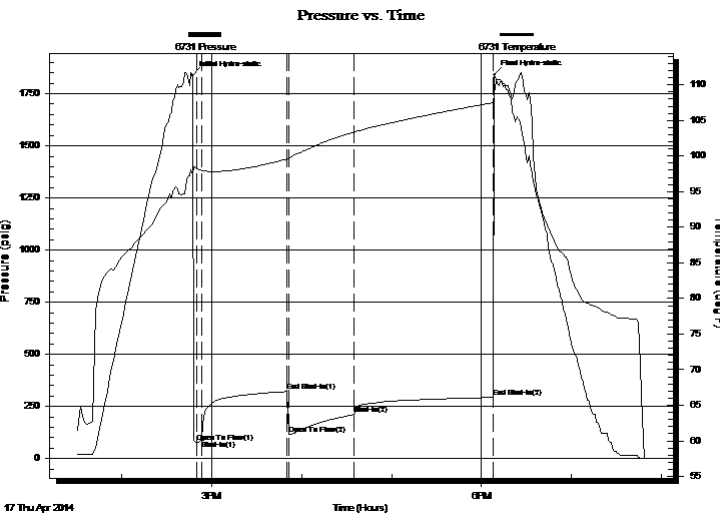
Last Calib.: 2014.04.17

Start Time: 13:30:00 End Time: 19:49:00

Time On Btm: 2014.04.17 @ 14:47:30

Time Off Btm: 2014.04.17 @ 18:08:30

**TEST COMMENT:** 1st Opening 5 minutes-Strong blow built bottom of bucket in 2 minutes  
 1st Shut-in 60 Minutes-Yes blow back  
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 6 minutes  
 2nd Shut-in 90 Minutes-Yes blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1839.30	97.42	Initial Hydro-static
3	77.54	98.30	Open To Flow (1)
6	86.62	97.94	Shut-In(1)
63	322.12	99.57	End Shut-In(1)
64	117.30	99.60	Open To Flow (2)
108	210.78	103.34	Shut-In(2)
200	293.63	107.47	End Shut-In(2)
201	1841.53	108.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
480.00	water	6.73
0.00	chlorides 38,000 resistivity.1@70degrees	0.00

## Gas Rates

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



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Tester: Jared Scheck

Unit No: 3320-Great Bend -20

**Interval: 3650.00 ft (KB) To 3665.00 ft (KB) (TVD)**

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3665.00 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: 279.89 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.17

End Date: 2014.04.17

Last Calib.: 2014.04.17

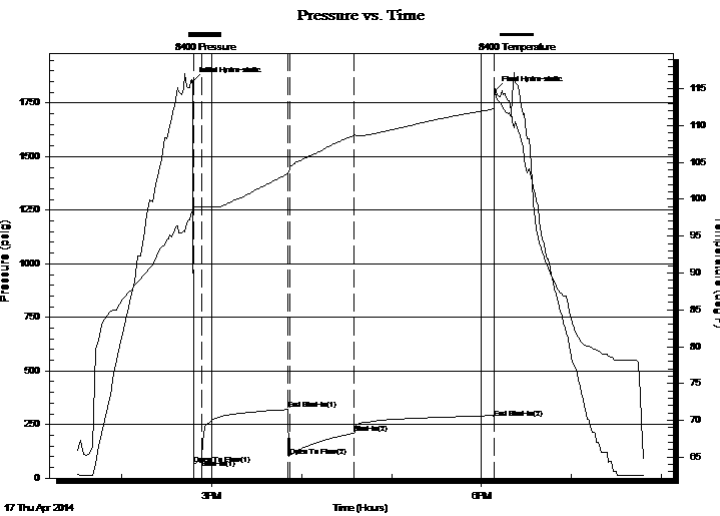
Start Time: 13:30:00

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 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 6 minutes  
 2nd Shut-in 90 Minutes-Yes blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.72	98.38	Initial Hydro-static
1	64.10	98.87	Open To Flow (1)
6	88.04	98.91	Shut-In(1)
64	320.44	103.46	End Shut-In(1)
65	104.06	104.06	Open To Flow (2)
108	209.07	108.67	Shut-In(2)
201	279.89	112.25	End Shut-In(2)
202	1808.33	114.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
480.00	water	6.73
0.00	chlorides 38,000 resistivity.1@70degrees	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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ATTN: Ryan Greenbaum

Test Start: 2014.04.17 @ 13:30:00

## Tool Information

Drill Pipe:	Length: 3647.00 ft	Diameter: 3.80 inches	Volume: 51.16 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: 75000.00 lb
			<u>Total Volume: 51.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3650.00 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			3632.00	
Hydraulic tool	5.00			3637.00	
Jars	6.00			3643.00	
Safety Joint	2.00			3645.00	
Packer	5.00			3650.00	23.00 Bottom Of Top Packer
Recorder	1.00			3651.00	
Recorder	1.00			3652.00	
Anchor	10.00			3662.00	
Bullnose	3.00			3665.00	15.00 Anchor Tool
<b>Total Tool Length:</b>	<b>38.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

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## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 7.20 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 5400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
480.00	water	6.733
0.00	chlorides 38,000 resistivity.1@70degrees	0.000

Total Length: 480.00 ft      Total Volume: 6.733 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

