



## 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: 2014.04.18 @ 04:45:00

End Date: 2014.04.18 @ 11:52:00

Job Ticket #: 19285                      DST #: 5

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

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Job Ticket: 19285

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Test Start: 2014.04.18 @ 04:45:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:45:30

Time Test Ended: 11:52:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-20

**Interval: 3665.00 ft (KB) To 3680.00 ft (KB) (TVD)**

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3680.00 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: 78.70 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.18

End Date: 2014.04.18

Last Calib.: 2014.04.18

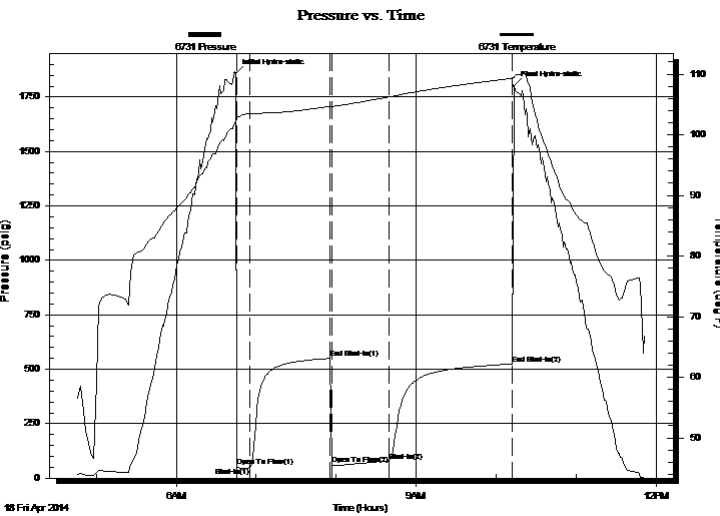
Start Time: 04:45:00

End Time: 11:52:00

Time On Btm: 2014.04.18 @ 06:44:30

Time Off Btm: 2014.04.18 @ 10:13:30

**TEST COMMENT:** 1st Opening 10 Minutes-Strong blow built bottom of bucket in 7 minutes  
 1st Shut-in 60 Minutes-Very weak  
 2nd Opening 45 Minutes-Fair blow built bottom of bucket in 20 Minutes  
 2nd Shut-in 90 Minutes-Very weak



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1858.99	102.24	Initial Hydro-static
1	55.96	102.67	Open To Flow (1)
11	47.94	103.44	Shut-In(1)
71	549.35	104.73	End Shut-In(1)
72	64.43	104.66	Open To Flow (2)
115	78.70	106.23	Shut-In(2)
208	523.91	109.34	End Shut-In(2)
209	1800.70	109.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	spot oil mud 1%oil99%mud	0.70
60.00	mud w ater 40%mud 60%w ater	0.84
0.00	chlorides 28,000 resistivity.2@60degrees	0.00

## Gas Rates

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



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Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-20

**Interval: 3665.00 ft (KB) To 3680.00 ft (KB) (TVD)**

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3680.00 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: 524.16 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.18

End Date: 2014.04.18

Last Calib.: 2014.04.18

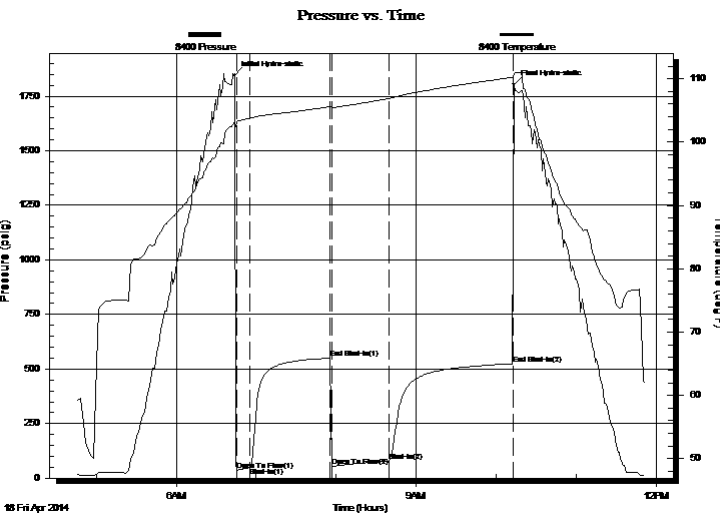
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## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.71	103.30	Initial Hydro-static
2	36.26	103.23	Open To Flow (1)
12	48.02	103.74	Shut-In(1)
71	549.39	105.59	End Shut-In(1)
73	52.84	105.43	Open To Flow (2)
116	79.12	106.88	Shut-In(2)
209	524.16	110.22	End Shut-In(2)
210	1804.84	110.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	spot oil mud 1%oil99% mud	0.70
60.00	mud w ater 40% mud 60% w ater	0.84
0.00	chlorides 28,000 resistivity .2@60degrees	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: 2014.04.18 @ 04:45:00

## Tool Information

Drill Pipe:	Length: 3652.00 ft	Diameter: 3.80 inches	Volume: 51.23 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: 51.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3665.00 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			3647.00	
Hydraulic tool	5.00			3652.00	
Jars	2.00			3654.00	
Safety Joint	6.00			3660.00	
Packer	5.00			3665.00	23.00 Bottom Of Top Packer
Anchor	10.00			3675.00	
Recorder	1.00			3676.00	
Recorder	1.00			3677.00	
Bullnose	3.00			3680.00	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: deg API  
 Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	spot oil mud 1%oil99%mud	0.701
60.00	mud w ater 40%mud 60%w ater	0.842
0.00	chlorides 28,000 resistivity .2@60degrees	0.000

Total Length: 110.00 ft      Total Volume: 1.543 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time

