



## DRILL STEM TEST REPORT

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

9431 E Central STE 100 Wichita KS  
67206+2563

ATTN: Ryan Greenbaum

### **Deines #1-22**

#### **22-19s-15w Baton**

Start Date: 2012.03.15 @ 09:00:00

End Date: 2012.03.15 @ 16:02:00

Job Ticket #: 17127                      DST #: 4

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
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# DRILL STEM TEST REPORT

F.G. Holl Company L.L.C

**22-19s-15w Baton**

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**Deines #1-22**

ATTN: Ryan Greenbaum

Job Ticket: 17127

**DST#: 4**

Test Start: 2012.03.15 @ 09:00:00

## GENERAL INFORMATION:

Formation: **Goaram sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:31:30

Time Test Ended: 16:02:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-GB-

**Interval: 3598.00 ft (KB) To 3605.00 ft (KB) (TVD)**

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3605.00 ft (KB) (TVD)

1926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8524 Inside**

Press @ RunDepth: 43.19 psia @ 3601.00 ft (KB)

Capacity: 50000.00 psia

Start Date: 2012.03.15

End Date: 2012.03.15

Last Calib.: 2012.03.15

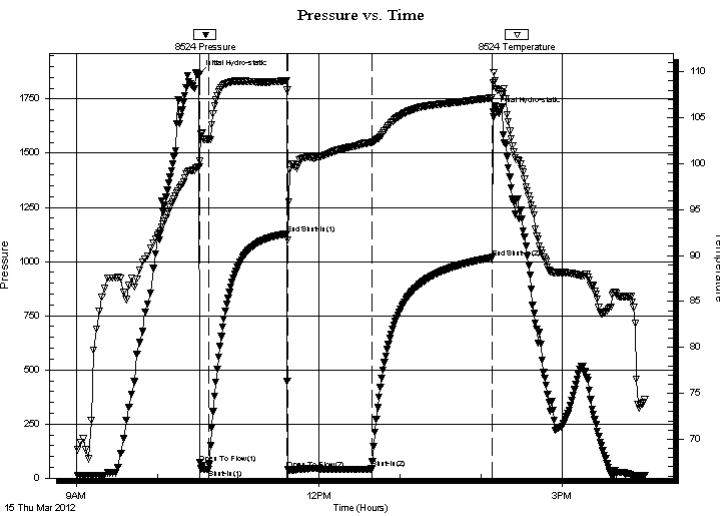
Start Time: 09:01:00

End Time: 16:02:00

Time On Btm: 2012.03.15 @ 10:31:00

Time Off Btm: 2012.03.15 @ 14:09:00

**TEST COMMENT:** 1st Opening 5 Minutes- Strong blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes  
 1st Shut-In 60 Minutes- weak blow back  
 2nd Opening 60 Minutes-Strong blow gas to surface in 2 minutes see gas flow report  
 2nd Shut-In 90 Minutes-Wek blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1862.01	99.65	Initial Hydro-static
1	70.63	100.28	Open To Flow (1)
7	39.78	102.68	Shut-In(1)
65	1128.48	109.05	End Shut-In(1)
66	40.47	91.70	Open To Flow (2)
128	43.19	102.28	Shut-In(2)
218	1018.36	107.18	End Shut-In(2)
218	1692.48	108.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	Gassy Mud	0.70

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	2.20	14.84
Last Gas Rate	0.50	3.00	20.24
Max. Gas Rate	0.50	3.00	20.24



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Job Ticket: 17127

**DST#: 4**

Test Start: 2012.03.15 @ 09:00:00

## GENERAL INFORMATION:

Formation: **Goaram sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:31:30

Time Test Ended: 16:02:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-GB-

**Interval: 3598.00 ft (KB) To 3605.00 ft (KB) (TVD)**

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3605.00 ft (KB) (TVD)

1926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8525 Outside**

Press @ RunDepth: 1056.03 psia @ 3602.00 ft (KB)

Capacity: psia

Start Date: 2012.03.15

End Date: 2012.03.15

Last Calib.: 1899.12.30

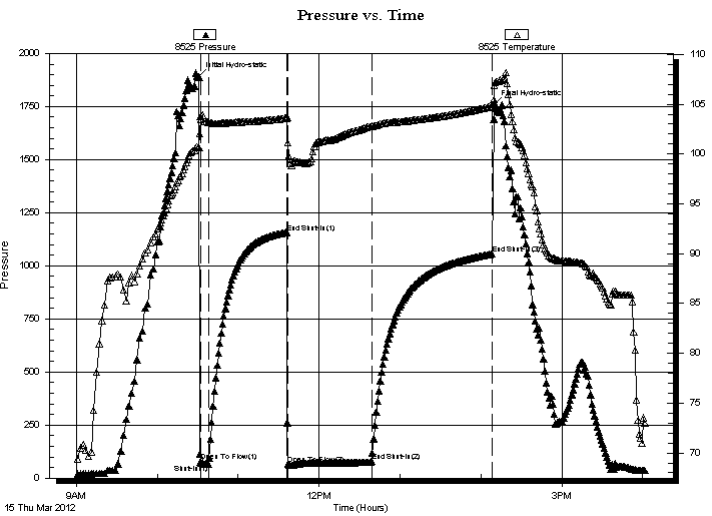
Start Time: 09:01:00

End Time: 16:01:30

Time On Btm: 2012.03.15 @ 10:31:00

Time Off Btm: 2012.03.15 @ 14:10:00

**TEST COMMENT:** 1st Opening 5 Minutes- Strong blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes  
 1st Shut-In 60 Minutes- weak blow back  
 2nd Opening 60 Minutes-Strong blow gas to surface in 2 minutes see gas flow report  
 2nd Shut-In 90 Minutes-Wek blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1888.61	100.66	Initial Hydro-static
1	77.32	103.75	Open To Flow (1)
7	65.02	103.18	Shut-In(1)
65	1156.75	103.62	End Shut-In(1)
66	64.63	101.12	Open To Flow (2)
128	77.78	102.78	End Shut-In(2)
218	1056.03	104.81	End Shut-In(3)
219	1758.35	106.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	Gassy Mud	0.70

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	2.20	14.84
Last Gas Rate	0.50	3.00	20.24
Max. Gas Rate	0.50	3.00	20.24



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G. Holl Company L.L.C

**22-19s-15w Baton**

9431 E Central STE 100 Wichita KS 67206+2563

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Job Ticket: 17127

**DST#: 4**

ATTN: Ryan Greenbaum

Test Start: 2012.03.15 @ 09:00:00

## Tool Information

Drill Pipe:	Length: 3579.00 ft	Diameter: 3.80 inches	Volume: 50.20 bbl	Tool Weight: 2000.00 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: 42000.00 lb
			<u>Total Volume: 50.20 bbl</u>	Tool Chased 38000.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 0.00 lb
Depth to Top Packer:	3598.00 ft			Final 0.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	35.00 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-InTool	5.00		Inside	3575.00	
Hydraulic Tool	5.00			3580.00	
Jars	6.00			3586.00	
Safety Joint	2.00			3588.00	
Packer	5.00			3593.00	28.00 Bottom Of Top Packer
Packer	5.00			3598.00	
Anchor	2.00			3600.00	
Recorder	1.00	8524	Inside	3601.00	
Recorder	1.00	8525	Outside	3602.00	
Bullnose	3.00			3605.00	7.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>35.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G. Holl Company L.L.C

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Job Ticket: 17127

**DST#: 4**

ATTN: Ryan Greenbaum

Test Start: 2012.03.15 @ 09:00:00

### 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: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Gassy Mud	0.701

Total Length: 50.00 ft      Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

F.G. Holl Company L.L.C

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Test Start: 2012.03.15 @ 09:00:00

## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	10	0.50	2.20	14.84
2	20	0.50	2.50	16.86
2	30	0.50	3.00	20.24
2	40	0.50	3.00	20.24
2	50	0.50	3.00	20.24