



DRILL STEM TEST REPORT

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 7

DST#: 7

ATTN: Ryan Greenbaum

Test Start: 2014.02.23 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: **3805.00 ft (KB) To 3835.00 ft (KB) (TVD)**

Reference Elevations: 1968.00 ft (KB)

Total Depth: 3835.00 ft (KB) (TVD)

1960.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8525**

Inside

Press@RunDepth: 1295.50 psig @ 3831.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.23

End Date: 2014.02.23

Last Calib.: 2014.02.23

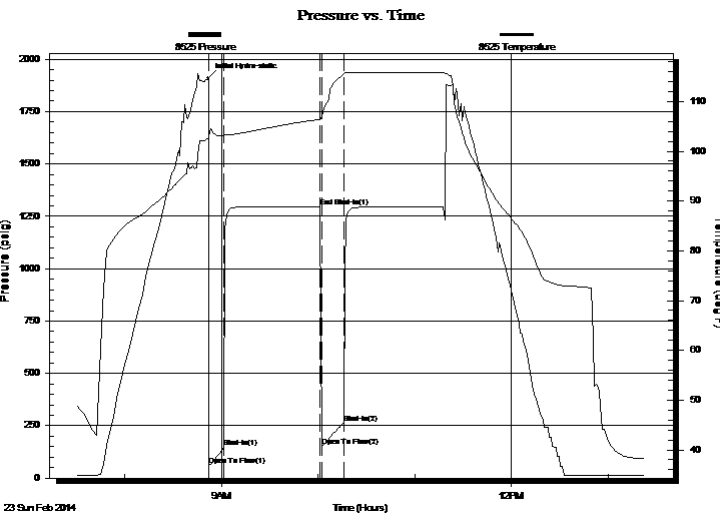
Start Time: 07:30:00

End Time: 13:23:00

Time On Btm: 2014.02.23 @ 08:52:00

Time Off Btm:

TEST COMMENT: 1st Opening 10 Minutes Fair blow built to the bottom of a 5 gallon bucket in 5 minutes
 1st Shut-In 60 Minutes-no blow back
 2nd Opening 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 minutes
 2nd Shu-In 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.78	102.67	Initial Hydro-static
1	63.41	103.22	Open To Flow (1)
10	148.21	103.00	Shut-In(1)
70	1295.50	106.42	End Shut-In(1)
71	151.82	106.95	Open To Flow (2)
84	263.95	115.55	Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Water with a trace of oil	3.37
0.00	Chlorides 24,0009	0.00
120.00	oil cut muddy w ater15%oil35%Mud50%	1.68
160.00	oil cut watery mud 25%oil 55%Mud20%	2.24

Gas Rates

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



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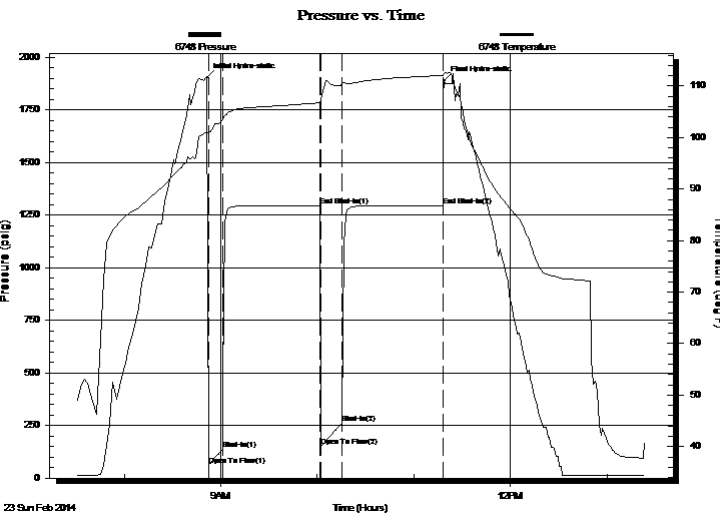
Test Start: 2014.02.23 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3805.00 ft (KB) To 3835.00 ft (KB) (TVD)**
 Total Depth: 3835.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335
 Reference Elevations: 1968.00 ft (KB)
 1960.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6748 Outside
 Press@RunDepth: 1294.64 psig @ 3832.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.23 End Date: 2014.02.23 Last Calib.: 2014.02.23
 Start Time: 07:30:00 End Time: 13:23:30 Time On Btm: 2014.02.23 @ 08:51:30
 Time Off Btm: 2014.02.23 @ 11:19:00

TEST COMMENT: 1st Opening 10 Minutes Fair blow built to the bottom of a 5 gallon bucket in 5 minutes
 1st Shut-In 60 Minutes-no blow back
 2nd Opening 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 minutes
 2nd Shu-In 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.01	101.00	Initial Hydro-static
1	63.32	101.01	Open To Flow (1)
10	136.62	103.45	Shut-In(1)
71	1294.94	106.74	End Shut-In(1)
71	151.41	106.52	Open To Flow (2)
84	260.88	110.48	Shut-In(2)
147	1294.64	112.04	End Shut-In(2)
148	1889.53	112.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Water with a trace of oil	3.37
0.00	Chlorides 24,0009	0.00
120.00	oil cut muddy w ater15%oil35%Mud50%	1.68
160.00	oil cut watery mud 25%oil 55%Mud20%	2.24

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 7

DST#: 7

ATTN: Ryan Greenbaum

Test Start: 2014.02.23 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3803.00 ft	Diameter: 3.80 inches	Volume: 53.35 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: 68000.00 lb
			<u>Total Volume: 53.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3805.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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			3782.00	
Hydraulic Tool	5.00			3787.00	
Jars	6.00			3793.00	
Safety Joint	2.00			3795.00	
Top Packer	5.00			3800.00	
Packer	5.00			3805.00	28.00 Bottom Of Top Packer
Anchor	25.00			3830.00	
Recorder	1.00	8525	Inside	3831.00	
Recorder	1.00	6748	Outside	3832.00	
Bull Plug	3.00			3835.00	30.00 Anchor Tool
Total Tool Length:	58.00				



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FLUID SUMMARY

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DST#: 7

ATTN: Ryan Greenbaum

Test Start: 2014.02.23 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 5997.48 in³
Resistivity: ohm.m
Salinity: 3800.00 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
240.00	Water with a trace of oil	3.367
0.00	Chlorides 24,0009	0.000
120.00	oil cut muddy w ater15%oil35%Mud50%Water	1.683
160.00	oil cut w atery mud 25%oil 55%Mud20%w ater	2.244

Total Length: 520.00 ft Total Volume: 7.294 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

