



DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company LLC**

9431 East Central Suite 100
Wichita, Kansas 67206

ATTN: Ryan Greenbaum

Smith "F" #1-6

6-21s-15w

Start Date: 2014.02.22 @ 12:55:00

End Date: 2014.02.22 @ 00:00:00

Job Ticket #: DST #: 5

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

Printed: 2014.02.22 @ 08:30:03



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6-21s-15w

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Job Ticket: **DST#: 5**

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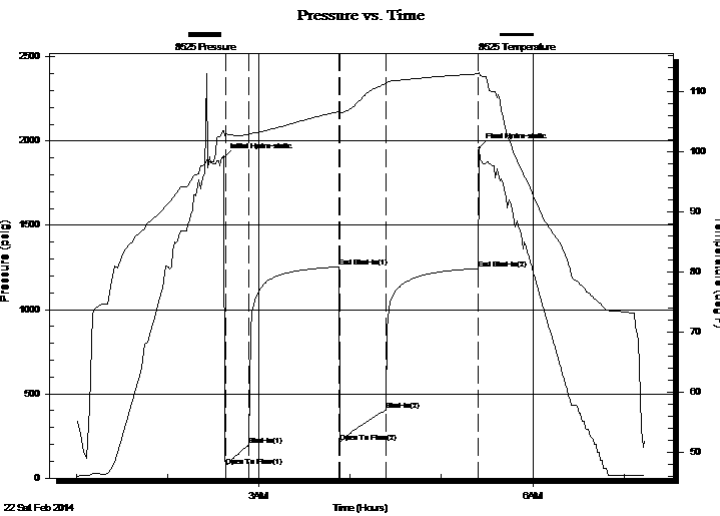
Test Start: 2014.02.22 @ 12:55:00

GENERAL INFORMATION:

Formation: **3794**
 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: **3781.00 ft (KB) To 3794.00 ft (KB) (TVD)**
 Reference Elevations: 1968.00 ft (KB)
 Total Depth: 3794.00 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: 1244.30 psig @ 3790.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.22 End Date: 2014.02.22 Last Calib.: 2014.02.22
 Start Time: 01:00:00 End Time: 07:13:30 Time On Btm: 2014.02.22 @ 02:37:00
 Time Off Btm: 2014.02.22 @ 05:25:00

TEST COMMENT: 1st Opening 15 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 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 6 minutes
 2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1902.36	103.55	Initial Hydro-static
1	72.70	103.16	Open To Flow (1)
17	198.28	102.82	Shut-In(1)
76	1253.11	106.69	End Shut-In(1)
77	215.52	106.47	Open To Flow (2)
107	404.44	111.29	Shut-In(2)
167	1244.30	112.97	End Shut-In(2)
168	1958.23	113.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
875.00	WATER CHLORIDES 29,000	12.27
0.00	THERE WAS A SLIGHT SHOW OF OIL ON 0.00'	

Gas Rates

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



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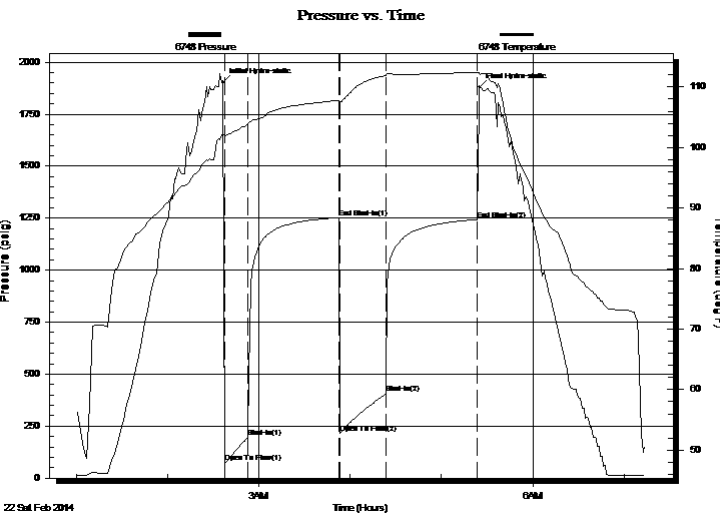
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 Reference Elevations: 1968.00 ft (KB)
 Total Depth: 3794.00 ft (KB) (TVD) 1960.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6748 Outside
 Press@RunDepth: 1243.51 psig @ 3791.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.22 End Date: 2014.02.22 Last Calib.: 2014.02.22
 Start Time: 01:00:00 End Time: 07:14:00 Time On Btm: 2014.02.22 @ 02:36:30
 Time Off Btm: 2014.02.22 @ 05:25:00

TEST COMMENT: 1st Opening 15 Minutes fair blow built to the bottom of a 5 gallon bucket in 5 minutes
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 2nd Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 6 minutes
 2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1902.23	102.30	Initial Hydro-static
1	75.55	101.91	Open To Flow (1)
17	195.51	103.83	Shut-In(1)
76	1252.67	107.81	End Shut-In(1)
77	215.77	107.48	Open To Flow (2)
107	407.63	111.95	Shut-In(2)
167	1243.51	112.41	End Shut-In(2)
169	1878.53	112.17	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
875.00	WATER CHLORIDES 29,000	12.27
0.00	THERE WAS A SLIGHT SHOW OF OIL ON 0.00'	

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



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TOOL DIAGRAM

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket:

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2014.02.22 @ 12:55:00

Tool Information

Drill Pipe:	Length: 3767.00 ft	Diameter: 3.80 inches	Volume: 52.84 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: 74000.00 lb
			<u>Total Volume: 52.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3781.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	41.00 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			3758.00	
Hydraulic Tool	5.00			3763.00	
Jars	6.00			3769.00	
Safety Joint	2.00			3771.00	
Top Packer	5.00			3776.00	
Packer	5.00			3781.00	28.00 Bottom Of Top Packer
Anchor	8.00			3789.00	
Recorder	1.00	8525	Inside	3790.00	
Recorder	1.00	6748	Outside	3791.00	
Bull Plug	3.00			3794.00	13.00 Anchor Tool
Total Tool Length:	41.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 6.00 in³
Resistivity: ohm.m
Salinity: 4700.00 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
875.00	WATER CHLORIDES 29,000	12.274
0.00	THERE WAS A SLIGHT SHOW OF OIL ON TOI	0.000

Total Length: 875.00 ft Total Volume: 12.274 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

