



DRILL STEM TEST REPORT

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

9431 East Central Suit 100
Wichita Kansas 67206

ATTN: Ryan Greenbaum

Sonja Phillips 1-22

22-20s-14w-Barton

Start Date: 2014.02.08 @ 04:20:00

End Date: 2014.02.08 @ 11:08:30

Job Ticket #: 19253 DST #: 2

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

Printed: 2014.02.08 @ 12:24:08



DRILL STEM TEST REPORT

F.G Holl Company LLC.
 9431 East Central Suit 100
 Wichita Kansas 67206
 ATTN: Ryan Greenbaum

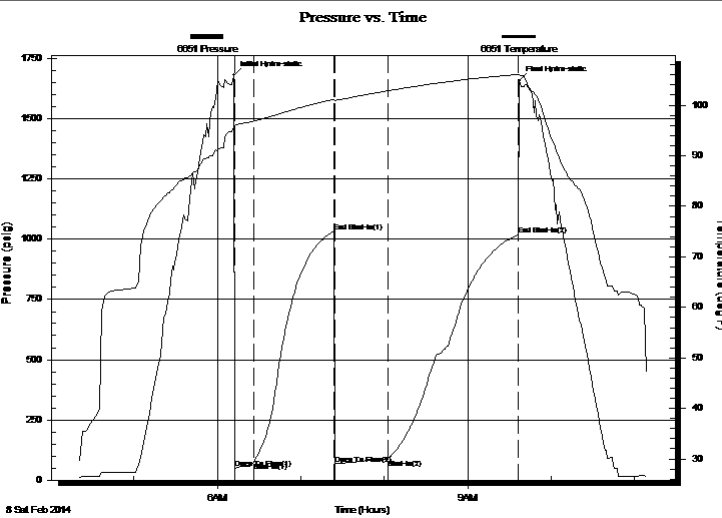
22-20s-14w-Barton
Sonja Phillips 1-22
 Job Ticket: 19253 **DST#: 2**
 Test Start: 2014.02.08 @ 04:20:00

GENERAL INFORMATION:

Formation: **Lansing E-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:12:30
 Time Test Ended: 11:08:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-20
 Interval: **3335.00 ft (KB) To 3355.00 ft (KB) (TVD)**
 Reference Elevations: 1895.00 ft (KB)
 Total Depth: 3355.00 ft (KB) (TVD) 1887.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6651 Outside
 Press@RunDepth: 87.58 psig @ 3350.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.08 End Date: 2014.02.08 Last Calib.: 2014.02.08
 Start Time: 04:20:00 End Time: 11:08:30 Time On Btm: 2014.02.08 @ 06:12:00
 Time Off Btm: 2014.02.08 @ 09:37:00

TEST COMMENT: 1st Open 10 minutes Good building blow blew off bottom bucket 7 minutes.
 1st Shut in 60 minutes Yes blow back
 2nd Open 45 minutes Strong building blow m built to the bottom of a 5 gallon bucket of water in 2 minutes
 2nd Open 90 minutes Yes blow back, Bottom bucket.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.16	96.13	Initial Hydro-static
1	49.81	95.81	Open To Flow (1)
14	75.35	96.86	Shut-In(1)
72	1031.90	101.16	End Shut-In(1)
73	66.92	100.95	Open To Flow (2)
111	87.58	102.85	Shut-In(2)
205	1019.88	106.09	End Shut-In(2)
205	1657.86	106.10	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
62.00	Gassy oil cut mud	0.87
0.00	Oil 60% Gas 10% Mud 30%	0.00
62.00	Gassy oil cut mud	0.87
0.00	Oil 40% Gas 5% Mud 55%	0.00
0.00	540 Gas in pipe	0.00

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



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9431 East Central Suit 100
Wichita Kansas 67206

Sonja Phillips 1-22

Job Ticket: 19253

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2014.02.08 @ 04:20:00

GENERAL INFORMATION:

Formation: **Lansing E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:12:30

Time Test Ended: 11:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-20

Interval: 3335.00 ft (KB) To 3355.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3355.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6839 Inside

Press@RunDepth: 1017.87 psig @ 3350.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.08

End Date: 2014.02.08

Last Calib.: 2014.02.08

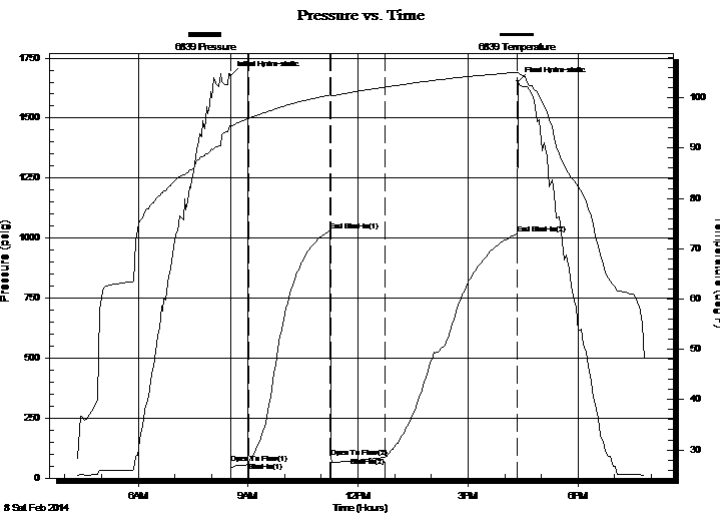
Start Time: 04:20:00

End Time: 19:49:00

Time On Btm: 2014.02.08 @ 08:31:00

Time Off Btm: 2014.02.08 @ 16:22:00

TEST COMMENT: 1st Open 10 minutes Good building blow blew off bottom bucket 7 minutes.
1st Shut in 60 minutes Yes blow back
2nd Open 45 minutes Strong building blow m built to the bottom of a 5 gallon bucket of water in 2 minutes
2nd Open 90 minutes Yes blow back, Bottom bucket.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1678.78	94.48	Initial Hydro-static
1	63.21	93.53	Open To Flow (1)
30	65.12	95.92	Shut-In(1)
164	1030.74	100.58	End Shut-In(1)
165	84.74	100.38	Open To Flow (2)
253	84.96	102.14	Shut-In(2)
470	1017.87	105.06	End Shut-In(2)
471	1652.62	105.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Gassy oil cut mud	0.87
0.00	Oil 60% Gas 10% Mud 30%	0.00
62.00	Gassy oil cut mud	0.87
0.00	Oil 40% Gas 5% Mud 55%	0.00
0.00	540 Gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company LLC.

22-20s-14w-Barton

9431 East Central Suit 100
Wichita Kansas 67206

Sonja Phillips 1-22

Job Ticket: 19253

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2014.02.08 @ 04:20:00

Tool Information

Drill Pipe:	Length: 3336.00 ft	Diameter: 3.80 inches	Volume: 46.80 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: 55000.00 lb
			<u>Total Volume: 46.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3335.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 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 In Tool	5.00			3312.00	
Hydraulic tool	5.00			3317.00	
Jars	6.00			3323.00	
Safety Joint	2.00			3325.00	
Top Packer	5.00			3330.00	
Packer	5.00			3335.00	28.00 Bottom Of Top Packer
Perforations	15.00			3350.00	
Recorder	0.00	6839	Inside	3350.00	
Recorder	0.00	6651	Outside	3350.00	
Bull Plug	5.00			3355.00	20.00 Anchor Tool
Total Tool Length:	48.00				



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FLUID SUMMARY

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Job Ticket: 19253

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2014.02.08 @ 04:20:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 44.00 sec/qt
Water Loss: 12.80 in³
Resistivity: ohm.m
Salinity: 5000.00 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
62.00	Gassy oil cut mud	0.870
0.00	Oil 60% Gas 10% Mud 30%	0.000
62.00	Gassy oil cut mud	0.870
0.00	Oil 40% Gas 5% Mud 55%	0.000
0.00	540 Gas in pipe	0.000

Total Length: 124.00 ft Total Volume: 1.740 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

